DEPARTMENT OF MINES AND ENERGY

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# PRE-ADELAIDEAN BASEMENT TO THE STUART SHELF, SOUTH AUSTRALIA: DRILLHOLE DATABASE AND PRELIMINARY GEOLOGICAL INTERPRETATION

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# Pre-Adelaidean Basement to Stuart Shelf, South Australia: Drillhole Database and Preliminary Geological Interpretation

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**The geology and mineralisation of the prospective northeast segment of the Gawler Craton is the focus of the Stuart Shelf Basement Project. Geological and technical data from selected open-file drillholes (those that intersected pre-Adelaidean basement) were compiled into comprehensive GIS database. A preliminary solid geology map of circa 1590 Ma rocks was constructed by combining imaged gravity and aeromagnetic data with database information and is presented together with structure contours of depth to basement and surface geology maps. The database information is provided both as appendices within this document and as an ArcView dataset for graphical display on 386/486 personal computers. Aspects of future developmental work are considered.**

## INTRODUCTION

The NE Gawler Craton basement, concealed beneath the Stuart Shelf Neoproterozoic sequence and Mesoproterozoic Pandurra Formation (Cariewerloo Basin), comprises deformed Archaean and Palaeoproterozoic units and undeformed circa 1590 Ma Gawler Range Volcanics (GRV) and comagmatic Hiltaba Suite intrusives. These basement units are potential hosts to major economic mineralisation as demonstrated by the Olympic Dam Cu-Au-U polymetallic resource.

Since 1970 there has been considerable exploration in this region, particularly for Olympic Dam type orebodies, and more than 90 deep drillholes have been targeted on geophysical features thought to indicate mineralised environments. While a considerable number of these holes were terminated in cover units without penetrating to basement, a significant proportion of the remainder detected weak mineralisation or alteration characteristics that could be indicative of nearby mineralisation.

The widespread distribution of these drillholes, the variability of basement lithologies intersected, a relatively poor knowledge of stratigraphic relationships, and extensive thick cover, have impeded exploration progress. Nevertheless, the nature and extent of mineralisation and other exploration indicators justifies on-going exploration activity.

The path to new resource discovery and development necessarily requires advancements in the understanding of the geology, geophysics, geochemistry and mineralisation of this prospective terrain.

This is the fundamental basis of this project.

The study area is large, approx. 80,000 $km^2$, covering the entire Stuart Shelf Region to the North of Pt. Augusta but with a centre of focus on 25,000 $km^2$ of concealed basement in the Olympic Dam - Mt. Gunson (ODMG) region immediately adjacent to the Torrens Hinge Zone (THZ) (Fig. 1).

## PROJECT OBJECTIVES

The primary objective of the Stuart Shelf Basement Project is to maintain and stimulate exploration in this prospective region by providing a geological framework for current and potential explorers.

The project seeks to achieve this goal by establishing comprehensive factual geological, geochemical and geophysical datasets and undertaking a multifaceted interpretation of the available information utilizing new computer based analytical technologies.

The objective of the first stage of the project was to develop a drillhole database summarising lithological and stratigraphic data (including alteration characteristics etc.) and to integrate this information with image processed geophysics to create a preliminary solid geology map of the basement as an extension of database work initiated by Newton (1984) and building upon regional geological interpretations by Parker et al. (1986) & Parker (1990a & b) with industry contributions by Anderson (1979), Dalgarno (1986), Curtis (1985), O'Driscoll (1986), Paterson et al. (1986a, 1986b), Tonkin (1985) and other workers.

This report presents all the currently available open file drillhole geological information compiled during the initial stage of the project, preliminary imaging of regional geophysical data and a preliminary integrated geological interpretation. Recommendations are made regarding further work.

## METHODOLOGY

The source of primary information was based on a search of the DME SAMREF bibliographic database for all open file and other publicly available drilling and geophysical references over the study region. This information was systematically examined to identify and extract exploration drilling reports. The drillholes accepted into the final database are listed in Appendix 1.1 and computer files DH_LIST.* and are displayed on Fig. 2.

A previous DME data listing prepared by Newton (1984) for a significant portion of the region was also examined to identify drillholes of interest and provide data.

Supplementary drillhole lists were also prepared from reports on the Pandurra Formation (Cowley, 1991a), Beda Volcanics (Cowley, 1991b) and the Kingoonya area (Cowley & Martin, 1989, 1991, Cowley & Fanning, 1991) and from DME Bulletin 53 (Preiss, 1987). A limited amount of data was also obtained from Aus.I.M.M. and GSA publications and unpublished theses. All the data used in this report are entirely within the public domain.

Supplementary information released within a combined petrological and geochemical study of felsic igneous rocks from the region (Creaser 1989, 1991) was used to assist the preparation of the basement geology interpretation but is not included in the dataset.

Drillholes were selected if they intersected pre-Pandurra Formation basement or substantial Pandurra Formation thickness likely to indicate pre-Pandurra Formation basement depth. Only relevant and well documented, stratigraphic reference drillholes were included.

The majority of the researched material was obtained directly from archived company reports examined at the DME Document Storage Centre. Initially, data were manually written on to forms but the work quickly progressed to interactive capture on to personal computers (PCs).

Geological datasets were manually constructed using wordprocessor/spreadsheet PC programs. Subsequently, the DME corporate drillhole database (DHDB) was updated and selected information copied into the ARC/INFO Geographic Information System (GIS) for further manipulation and map generation. Hardcopy printed reports were generated from the PC-based datasets.

The emphasis for the first stage of the programme was on capturing information on geology, alteration and mineralisation. Where feasible, geochemical, magnetic susceptibility and specific gravity data was also systematically captured for later analysis.

Problems that arose during drillhole data compilation were:-

- Accurate establishment of drillhole collar coordinates.
- Meaningful assignment of stratigraphic subdivisions to poorly described lithologies

and/or recognising spurious pre-existing stratigraphic interpretations.

Collar coordinate positioning varied from well authenticated survey and orthophoto coordinate referencing to sketch map matching with standard reference maps. In many cases elevations were estimated from standard topographic map sheets. Local geophysical surveys were often not tied to state datums and/or not available in computerised format and of little direct value to the regional compilation. Coordinate upgrading to the DME DHDB is anticipated over time.

Considerable effort was expended in ensuring that a reasonable degree of stratigraphic consistency is present in the new dataset. The assignment of stratigraphic units/names to lithological units was based on descriptive data contained in exploration reports such as Barratt (1991), Paterson (1986) and Tonkin (1985), supplemented by limited inspection of drillcores at the DME Core Library.

The stratigraphic interpretation of the whole geological interval present in each drillhole was reviewed and accordingly amended. Differences between geological logs in the original reports and the stratigraphic assignments in the dataset are the result of considered opinion based on the authors' experiences and changes to stratigraphic nomenclature over time as enunciated by Daly & Fanning (in prep.), Dyson (1992), Flint et al. (in prep.), Parker (1990a), Parker et al., (in prep.) Preiss (1987), Preiss (in prep.) and Webb et al. (1986).

To facilitate the computer generation of meaningful isopach contours and topological surfaces, assignment of stratigraphic intervals required the incorporation of minor, discordant, cross-cutting units into recognisable contiguous horizons. In some drillholes sub-intervals were also designated where distinct lithological units exist. Informal stratigraphic units are designated for such intervals.

As the project proceeds through subsequent phases and the knowledge base improves, re-assignment of basement stratigraphy and amendments to the cover units are to be expected. Stratigraphic assignment to date has erred on the side of diversity; therefore in the future a reduction in the number of informal basement units is likely.

## CONSTRUCTION OF DATABASE

DME is vigorously pursuing the development of an integrated digital geoscientific information system for South Australia (GEOSIS) (Belperio, 1992). Therefore, the database tables for the Stuart Shelf database (SSDB) have been structured for compatibility with the DME centralised drillhole database (DHDB), geological mapping database (SA_GEOLOGY) and rock sample and geochemical databases (RS/GEOCHEM) (see Glossary and Fig. 3).

This has been achieved by adopting features from previous DME datasets, adding new description/data fields for more flexibility and by adapting geological codes from Queensland Geological Survey REGMAP (Lang et al., 1988) and Australian Geological Survey Organisation (AGSO) (Blewett and Ryburn, 1992) database systems and the recently evolved DME SASTRAT stratigraphic names coding and index system (Gatehouse et al, in prep.).

The DHDB (which includes the former DME BORE GENERAL FILE) lists essential specifications of drillholes within SA. Each drillhole is assigned the four digit number of the 1:100,000 map sheet area within which it occurs and a serialised number reflecting the sequential order of registration for that map sheet. Together, these numbers define a unique identification (ID) for each and every drillhole in the DHDB. While the SSDB is a PC-based project database separate from the DHDB and other existing elements of GEOSIS, it uses the same unique ID as the DHDB for linking.

The SSDB has two primary tables, DH_INDEX and DH_LOG which together with supplementary coding tables have been constructed to be compatible with the design of GEOSIS. Figure 3 schematically illustrates the relationships between the databases and supporting tables of SSDB Dashed lines indicate links between related elements of SSDB and GEOSIS.

### A. SSDB KEY FIELDS

The two key fields MAP NO: and UNIT NO: as defined in the DHDB (see above), together define the unique drillhole identifiers, which not only link related records in the separate tables of the SSDB but also link SSDB to DHDB and other elements of

GEOSIS. Because some database software requires a single unique key field for cross referencing between tables a third, single, similarly unique field, MAPUNO:, a combination of MAP NO: and UNIT NO:, has been created. All tables containing drillhole specific data are linked using these fields.

Other fields such as drillhole names may be duplicated in different tables for convenience but have no database linkage significance.

*NOTE*: The unique specifiers MAP NO: + UNIT NO: and MAPUNO: should not be confused with similarly unique accession numbers assigned by the DME Glenside Core Library.

## B. SSDB DATA TABLES

The SSDB is comprised of two principal tables: DH_INDEX and DH_LOG which are amenable to systematic computer data processing and have been modified on migration into ArcView .

Key elements of the SSDB table DH_INDEX form a subset of DHDB, including drillhole locations which are stored for GEOSIS using ARC/INFO. The SSDB table DH_LOG includes key coding for stratigraphic units which provide a link to geological maps (SA_GEOLOGY) via code definitions listed in SS_STRAT which includes relevant formalised stratigraphic coding defined by SASTRAT (See Appendix 3.2).

Detailed information on surface geophysical surveys, petrophysical, geochemical and down hole geophysical logging information is not included within DH_INDEX and DH_LOG but will be progressively added as separate tables to the SSDB (See Fig. 3). However, source references to this information are included within DH_INDEX.

### DH_INDEX

DH_INDEX has been constructed around the parameters of the DHDB to provide a comprehensive information set for each drillhole. It contains information such as drillhole name, references, sponsors, total depth, location, elevation, dip & azimuth, target commodities etc.. DH_INDEX also provides an easily recognised direct path to other available information located elsewhere such as geochemistry and geophysics.
Each drillhole is represented by a single record in DH_INDEX and each corresponds to a datasheet page as presented in Appendix 2.4.

A complete listing or data dictionary of all 70 fields in DH_INDEX is included in Appendix 2.1 and comprises the field name, status, data type and brief description for each field/item.

Drillhole coordinate data are stored in AMG and GEODETIC (decimal degrees) coordinates for user convenience and to satisfy the requirements of different processing packages.

### DH_LOG

DH_LOG has been constructed to provide summary information on stratigraphy, lithology, alteration and mineralisation for each clearly defined stratigraphic and/or geological interval within a drillhole. Every interval so defined in each drillhole is represented by a single record in DH_LOG (ie. a many to one relationship for each drillhole).

The DH_LOG file table contains 18 data fields, of which four are for user convenience because they duplicate information in DH_INDEX. A complete listing or dictionary of all 18 data fields in DH_LOG is included in Appendix 3.1.

## DRILLHOLE DATA

According to DME Mineral Exploration Index Series (MEIS) maps, Core Library records etc., there are over 4000 public domain drillholes in the Stuart Shelf region as defined in this project (Fig. 1). Of these, 146 contained information deemed pertinent to establishing the nature of pre-Pandurra Formation basement.

Detailed logistical data (eg. location, total depth, sponsor information, etc..) are included in hardcopy format in Appendix 2.4. and as Lotus 123 (*.WK1) spreadsheet files, '#' delimited ASCII files (*.TXT) and ArcView files in Appendices 4.1, 4.2 and 4.3 respectively. These data are also available in ARC/INFO format upon request.

Summary stratigraphic, lithological, alteration and mineralisation information is included as hardcopy format in Appendix 3.5 and digital formats in the above listed Appendices.

## A. SSDB CODING SCHEMES

Comprehensive lists of codes used in the SSDB for stratigraphic units, lithologies, provinces and drillhole sponsors are provided in Appendices 2 & 3 at the back of this report. They are also provided as lookup tables in Appendix 4.

## DH_INDEX

Codes used in DH_INDEX are an expansion upon those currently stored in the DHDB. Data entry sheets (Appendix 1.2) have the most important coding information embedded on each page for user convenience. The codes stored in the DH_IDXCD look-up table (Appendix 2.2) are mnemonic and generally self evident.

The SPONSOR CODE: is only available from a separate lookup table and is derived from the nationally recognised AESIS company code list which is available on a regularly updatable basis from the Australian Mineral Foundation. Appendix 2.3 is a subset listing of sponsors responsible for the SSDB drilling which is also provided in Appendix 4.

*NOTE*: To assist users, both sponsor codes and abbreviated corporate names have been included in drillhole data sheets (Appendix 2.4).

## DH_LOG

### *Stratigraphic Codes*

SASTRAT is a database being constructed by DME as a reference tool for all stratigraphic names used in South Australia. Unique codes for stratigraphic units have been assigned for keyboard entry, map generation and computer processing by Gatehouse et al. (in prep.).

This flexible coding system follows a logical scheme of letter symbols for age, group, formation, etc. of both formally defined and informal stratigraphic units, as well as invasive/discordant bodies (eg. veins, breccias, igneous intrusives) and structural entities (eg. diapirs and shear zones). These codes are unique within SA and provide a link to SA_GEOLOGY the geological map GIS.

DH_LOG uses the SS_STRAT lookup table which consists of a project relevant subset of the SASTRAT keyboard codes with the addition of informal project specific units. SS_STRAT is presented in Appendix 3.2

### *Lithological and Mineral Codes*

A set of lithological and mineral codes has been compiled for common rock types and minerals. The code set is a simple table presented in alphabetical order (Appendix 3.3 - LIMIN_CD.) but can also be sorted into a rock classification format to assist data entry.

The rock and mineral codes have been adapted from the REGMAP system of the Queensland Geological Survey (Lang et al. 1988) and the AGSO coding system, but expanded to include additional rock and mineral forms. The list fuses the best aspects of both systems but does not claim to be fully comprehensive with respect to uncommon rock and mineral types.

Following the policy of REGMAP, a 4-character rock code was adopted in the interests of brevity and simplicity to permit a higher information density on conventional PC screens compared to the AGSO 6-character code. The restrictive and semi-redundant generic data in the first two leading characters of each AGSO string were excluded.

However provision has been made for such generic indexing by incorporating three separate user transparent fields in the definition table LIMIN_CD, that will allow cross correlations and generic based queries.

Synonyms have been avoided where possible and the description field in DH_LOG has been used to resolve potential ambiguities that might otherwise occur.

### *Alteration - Mineral Codes*

Early in the preparation of DH_LOG it was recognised that a limited number of alteration types and vein mineralogies were very common. The majority of such features could be described by up to four individual single-letter codes (Appendix 3.4 - DESCP_CD).

Codes for ore and accessory gangue minerals with well established usage in technical literature, such as Py = pyrite and Cp = clinopyroxene, have been used without modification.

### *Free text descriptions*

Rock description and comment fields have been

designed and used extensively in DH_LOG for free text descriptive data from drillhole log records.

Screen space limitation and user convenience considerations led to the development of a limited shorthand vocabulary of simple intuitive user legible mnemonic abbreviations of some common geological terms and descriptors for colours, texture, etc.. Rigid adherence to the special vocabulary is not essential.

The mnemonics vocabulary is available in dictionary form in Appendix 3.4 - DESCP_CD and is also available in a categorised format suitable for encoding.

## THE STUART SHELF DATABASE IN ArcView

### A. INTRODUCTION

Having established the drillhole databases on PC's, the information was imported into the UNIX-based ARC/INFO (Ver. 6.1) GIS for map generation and further processing. This enabled drillhole locations to be plotted on geological maps and overlaid on geophysical images. It also provided the opportunity to establish a geographical query interface through ArcView.

ArcView is a user-friendly GIS able to store, display and query ARC/INFO prepared datasets on a stand-alone PC running Microsoft Windows (Ver. $\geq$ 3.0). The various datasets are stored and displayed as 'layers' able to be switched on or off and queried as the user wishes. Any different combination of layers and queries can then be stored as a 'view' file or reproduced as a hardcopy printout.

Three of the diskettes provided with this package contain the Stuart Shelf Database prepared for ArcView (ver 1.0). The entire contents of the disks should be copied into a new, empty directory on your PC. After transferring the data begin the ArcView application and Open the view STUARTSH.AV (you will need to navigate to the new directory). Having opened the view it is likely a prompt will appear stating that the data source c:/.../drainage cannot be located and asking if you wish to search for it. Select Yes and then navigate to the directory where the data is now located. Select 'drainage' (from the left hand window) and click O.K.. After the data has loaded Save the view so that this will not occur each time you load it.

The 'view' file STUARTSH.AV presents thirteen datasets as ArcView layers which are briefly described below.

1. Surface Geology
Subset of the SA_GEOLOGY/State 1:1,000,000 digital geological map database (Fig. 4).

2. Cultural
Railway lines, major roads, tracks and 1:250,000 map sheet boundaries.

3. Drainage
Major creeks, rivers and lake boundaries.

4. Dunes
Sand dunes.

5. TMI image
Subset of the South Australian State image of Total Magnetic Intensity.

6. Dh_index
The technical specifications and reference data for the drillholes. The field descriptions are summarised below in section B.

7. Dh_log
The drillhole summary stratigraphy. For ArcView, because there are restrictions with respect to related tables and many-to-one type relationships, all of the fields for each stratigraphic unit are combined into one long text string described below in section C.

8. Dh_base
A subset of Dh_log containing descriptions of the upper-most pre-Pandurra unit for each basement intersecting drillhole. This layer was used as 'ground-truth' for basement interpretation and allows for simplified querying of the upper basement units.

9. Basement Contours
Contour diagram of the depth to pre-Pandurra basement relative to mean sea-level, created in ARC/INFO using data from Dh_base supplemented with other data where required.

10. Basement Geology
Interpreted pre-Pandurra geology. Appendix 1 contains the key to the lithological units.

11. Basement Lineations
Interpreted basement lineations and faults.

12. Basement Fabric
Basement fabric as interpreted from the TMI image.

13. Gravity Image
Subset of the South Australian State image of Bouger Gravity.

## B. DH_INDEX FOR ArcView

DH_INDEX for ArcView contains 37 fields listing technical specifications and reference information for each drillhole. The fields, which are either identical (*) or combinations of the fields in the DH_INDEX file table (Appendix 2.1), are listed below:-

| | ArcView Field | Appendix 2.1 Field name |
|---|---|---|
| | dh_index_i | = ArcView internal id. no. |
| | name | = NAME + SEQ. NO |
| | unique_no | = MAP + CLASS +UNIT |
| * | other_name | = OTHER NAME |
| * | confdntl | = CONFIDENTIAL |
| * | province | = PROVINCE CODES |
| | lease | = LEASE (combined) |
| | sponsor | = SPONSOR CODE |
| * | reference | = REFERENCE |
| | ref_type | = REF. TYPE + No |
| * | samref_no | = SAMREF CNO |
| * | target | = TARGET COMMODITY |
| * | ttl_depth | = TOTAL DEPTH |
| * | completed | = COMPLETION DATE |
| * | method | = DRILLTECH |
| | sample_1 | = SAMPLE: TYPE 1 + LENGTH |
| | sample_2 | = SAMPLE: TYPE 2 + LENGTH |
| * | storage | = LOCATION |
| * | locn_acc | = LOCATION ACCURACY |
| * | declinatn | = DIP ANGLE |
| * | azimuth | = AZIMUTH |
| * | orientsvy | = DOWN HOLE ORIENTATION SURVEY |
| * | elevation | = ELEVATION |
| * | status | = STATUS |
| * | geol_log | = GEOL LOG EXISTS |
| * | geol_ref | = GEOLOG REF |
| * | groundsvys | = GROUND (Targeting) SURVEYS |
| * | grndsvyref | = GROUND SURVEY REF |
| * | dnhlgeophy | = GEOPHYS. (Down Hole) |
| * | dhgphyref | = GEOPHYS DH. REF |
| * | geochemref | = GEOCHEMISTRY REF |
| * | petrlgyref | = PETROLOGY REF |
| * | geochrnref | = GEOCHRONOLOGY REF |
| * | water_test | = WATER |
| * | other_test | = OTHER |
| * | other_ref | = REF (for OTHER) |
| * | comments | = COMMENTS |

*NB:* * denotes fields identically named in the DH_INDEX file table (Appendix 2.1).

## C. DH_LOG for ArcView

Dh_log contains the summarised and abbreviated geological logs for the drillholes. The description for each unit takes the following format:

Strat unit From-To Lith1 Lith2 (Descript.| Altrn.| Fabric| Angle| Minrlsn.)

Each component is described briefly:

Strat unit: The code for the stratigraphic name of the unit being described.
From-To: The depth extent of the unit being described.
Lith 1: The predominant rock lithology of the unit.
Lith 2: Any secondary lithological component.
Descript: Summarised and abbreviated geological description of the unit.
Altrn: Any alteration noted within the unit.
Fabric: Texture and fabric description of the unit.
Angle: Angle of bedding or fabric relative to core axis.
Minrlsn: Any mineralisation (or other comments) noted for the unit.

The abbreviations for the data in Dh_log are explained in Appendix 3.

## D. USER NOTES

• The data in the ArcView layers Dh_index, Dh_log and Dh_base are all linked to the same location point, ie the drillhole location. To use the ArcView 'Identify' tool to query one layer in preference to the others, ensure that the layer which you are querying is the only one which is highlighted (ie appears 'raised') on the table of contents window and also has a tick in it's check box (See 'Theme, highlighting for selection' in the

ArcView User Guide).

• Always keep a backup of the original view supplied with the package.

• To create a new view use the 'Save as...' option on STUARTSH.AV and delete or modify the layers as necessary rather than 'adding' the datasets to a new view. This avoids the time consuming task of colour re-allocation for 'Surface Geology' and 'Basement Geology' map units.

• To best view the aeromagnetic image 'TMI image' it may be necessary to have a 256 colour monitor and screen driver. An 800x600 pixel or better screen resolution will give best results but is not mandatory.

## GEOLOGICAL-GEOPHYSICAL ANALYSIS AND DATA INTEGRATION

Geographic Information System (GIS) software running on workstation & PC platforms has been used to construct a database which integrates modified DH_INDEX & DH_LOG datasets with graphical images of digitized surface geology and processed gravity and magnetic data. Surface geological map data were derived from the SA_GEOLOGY/State digital geological database while geophysical data were extracted from DME datasets and image processed. The primary gravity and aeromagnetic datasets were compiled by J.F. Allender (in prep.) and Pitt Research (in prep.) respectively.

The UNIX-based programme ER-Mapper Ver. 3.0 was used to generate 1:1,000,000 pseudocolour and relief shaded grey-scale images of Bouguer gravity, total magnetic intensity (TMI), magnetic gradient (MGRAD) and TMI-MGRAD combined. ER-Mapper, ARC/INFO and ArcView were used for overlaying, analysing and interpreting the various datasets and the generation of an integrated GIS database for the Stuart Shelf region.

### A. ARC/INFO "TIN" ANALYSIS

To aid in the interpretation of the geophysical images, a depth to basement contour map was produced using the 'TIN' 3D surface representation, modelling and display module of ARC/INFO.

This was a relatively simple exercise using the Dh_base subset of DH_LOG and subtracting the depth of basement intersection from AHD collar elevations to obtain basement elevations relative to MSL.

In order to produce a relatively meaningful contour diagram, it was necessary to increase the number of data points beyond those few (106) drillholes which intersect basement, particularly in areas of very deep basement where intersections are few and sparse. Extra data points came from three sources: by digitising basement outcrop locations, adding data from other sources and finally, by making stratigraphically based depth-to-basement estimates from a few deep, non-basement intersecting drillholes. The latter estimates were made with the assistance of data from Cowley (pers. comm. & 1991a) and SADME (1982).

The resultant contour map of depth to pre-Pandurra basement relative to mean sea-level is presented in hardcopy form (Fig. 5) and as an ArcView layer, both with 100m contour intervals.

### B. GRAVITY DATA

#### Information

Upgrading and conversion of the SA regional gravity dataset to match the IGSN 1971 specification is being undertaken by D. Love with assistance from J.F. Allender (in prep.). The State dataset comprises national AGSO (BMR) data (25 km spaced stations) with some supplementary DME in-fill data (typically 6-4 km spaced stations). A preliminary Stuart Shelf subset was extracted and merged with publicly accessible, detailed, exploration company surveys available in digital form by J.F. Allender. Although some discrepancies are visually self-evident at the boundaries of detailed surveys and for isolated data points, they have little impact on regional interpretation at the current scale of examination.

Systematic examination of company reports by D.Love & S.Biggins to document all gravity surveys in the project region is on-going and the addition of further detailed surveys and an upgrade of the Stuart Shelf Regional Gravity digital dataset is anticipated.

## Image Processing

The available Bouguer gravity dataset was imaged as intensity by ER-Mapper in both relief shaded grey-scale and pseudocolour presentations. A number of standard algorithms were applied to the data but appeared to be unsuited to the data statistics of the Bouguer gravity.

The relative Bouguer contrast across the region results in the standard algorithm assigning deep blue (low intensity) and dark red (strong intensity) with loss of visual contrast over much of the image area.

This loss of contrast was mitigated by manually creating an algorithm which suppressed the intensity range of the deep red and blue colours.

A manually constructed saw-tooth algorithm was also found to be useful in highlighting arbitrarily selected Bouguer intensity contour slices and was effective in outlining major density blocks and lateral discontinuities. This process emulates the manual contour slice technique (black/white banding) successfully developed and applied by O'Driscoll (1986).

A Bouguer-intensity shaded image "illuminated" from the NE was also prepared and merged with both the colour-slice and Bouguer-intensity images resulting in a pseudo-three dimensional presentation which further enhanced the boundaries of gravity blocks (Fig. 6).

Computer-drawn overlays were produced to highlight the major gravity features for comparison between images and to assist interpretation. Only major features that were consistent with magnetic data were incorporated in the interpreted basement geology (Figs 7 & 8).

## Interpretation

The region covered by the gravity dataset can be subdivided based on Bouguer intensity in relative detail at 1:1,000,000 scale. However, given the repetition and diversity of known lithologies in each major stratigraphic interval, their relatively low density contrasts, and the irregularly distributed and comparatively shallow nature of the drillhole data, such an approach was considered to be inappropriate at the present time.

The area was therefore given a broad fourfold subdivision: namely the NW, SW, NE and Adelaide Geosyncline (AGS) gravity regions (Fig. 6). Major structures at considerable depth can be clearly recognized.

The ***NW gravity region***, which corresponds to the easterly continuance of the dominantly Archaean-Palaeoproterozoic Wilgena Tectonic Subdomain (Parker, 1990b), is predominantly of low to very low Bouguer gravity intensity with local high density blocks. The inferred cratonic basement is probably mostly granitic to considerable depth (estimated SG 2.67, R. Gerdes, pers. comm.). Local higher density units such as BIF or mafic volcanics occur within or overlie the granitic terrain (Figs. 4, 6 & 8).

Several major linear zones of high Bouguer gradient that are interpreted as shear zones (Figs 6 & 8)(Curtis, 1988) within the inferred Archaean basement to the west of the Stuart Shelf (Glenloth area) can be traced eastward below Gawler Ranges Volcanics and Pandurra Formation cover.

The ***SW gravity region*** is predominantly a high Bouguer gravity plateau, the southern boundary of which corresponds to the approximate outcrop of the Gawler Ranges Volcanic Province (GRV). The Bouguer magnitude suggests a thick, high density zone at considerable depth. A relative SG contrast of about 0.03 relative to the surrounding basement would be adequate for the observed signature (R. Gerdes, pers. comm.).

Mafic volcanics in the GRV have been shown to have a SG of about 2.78 in contrast to the major felsic component averaging about 2.64. This strongly suggests that the extensive high density substrate may be mafic rock.

Small gravity lows within the Bouguer plateau probably indicate the roots of Hiltaba Suite granite bodies which have not yet been unroofed by erosion. Shallow granite within felsic Archaean basement and the overlying GRV would be expected to have little density contrast and therefore little or no Bouguer signature. However, there would be a substantial density contrast between the roots of these granite bodies and the inferred mafic-rich substrate.

Also of interest is the distinct, strong, low density signature located at Lake Acraman (LA, Fig. 6) which corresponds closely to a magnetic low which has been attributed to an astrobleme impact site

(Williams, 1986) or alternatively a vent structure. The Bouguer signature implies that either rocks of lower density than the enclosing GRV occur in the near surface or that the feature penetrates down into the high density region possibly indicating the presence of a large granite pluton. The magnetic signature implies that a near surface feature is present.

Gravity lows around the southern perimeter of the Bouguer plateau mainly reflect relatively shallow balloons of Hiltaba Suite granites and some (syn-Kimban orogenic) Lincoln Complex granites in the east, within deformed Palaeoproterozic Hutchison Group and/or Archaean rocks of the Cleve and Coulta Tectonic Subdomains respectively (Parker, 1990b).

Along the northeast boundary of the region, eastward thickening of Pandurra Formation cover to GRV rocks (Cariewerloo Basin) is probably responsible for the flattening of the bounding gravity gradient of the deep high density substrate.

The ***NE gravity region***, west of the Torrens Hinge Zone, is complex reflecting inter-basement density contrasts below a relatively thin Adelaidean cover sequence.

In the far north, a high density block which corresponds to the southern portion of the Palaeoproterozoic Mt. Woods Inlier, contrasts strongly with low density rocks of the ?Wilgena Tectonic Subdomain to the west and south.

Small, discrete, high density bodies are clearly associated with the Olympic Dam and Acropolis breccia complexes (Figs 6 & 8) and can be accounted for by high density hematite/magnetite-rich breccias within granitic host rocks. The host terrain is modestly to strongly magnetic on a regional scale indicating iron enrichment, which if it is depth extensive may be responsible for the generally elevated Bouguer gravity signature of these granitic rocks.

Between the Olympic Dam and Mt. Gunson areas, centred on 700000mE and 6570000mN, is a moderately high Bouguer gravity feature with a central high surrounded by a moat-like low. It is probably due to a complex block of metasediments and volcanics surrounded by low-iron granitoids.

The prominent Mt. Gunson Bouguer gravity anomaly could be due to blocks of mafic GRV (known from drilling) surrounded by low density felsic volcanics and granitic rocks providing adequate thickness is present. Alternatively, the linking ridge to the SW Bouguer plateau and similar signature, suggests the anomaly might be sourced at considerable depth.

Along the southwesterly portion of the region, the northwest-trending Elizabeth Creek Fault and similar faults to the southwest, are evident in the Bouguer gravity data, indicating that lateral SG contrasts are present at depth and therefore significant displacement of basement units has occurred. The faults are likely to be of at least early Mesoproterozoic age, dilated and probably reactivated during the eruption of the Beda Volcanics (Gairdner Dyke Swarm) and possibly again during Neoproterozoic deposition (Curtis, 1985). Lesser, parallel fractures/faults are evident from aeromagnetic data (see Section C).

The ***AGS gravity region*** has high contrast pre-Pandurra basement signatures that originate from deep beneath easterly thickening Neoproterozoic cover sequences of the Adelaide Geosyncline. In the north a block of high density rocks is bounded at depth by concealed ?faults parallel to and west of the Norwest Fault and the northern northwesterly oriented portion of the Torrens Hinge Zone respectively. Southwesterly cross-structures transgress from the adjacent NE gravity region. In the south, the deep basement appears to be of low density similar to the NW gravity region.

The parallelism of the deep gravity structures and outcropping faults is strong enough to infer that they reflect the same deep structure around the northeast corner of the Gawler Craton. The relationship could be interpreted to indicate west-dipping planes of structural discontinuity.

Considering ***all gravity regions***, the broad, long wavelength, regional gravity signature probably originates at depths well beyond the upper kilometre of the basement and out of reach of present-day exploration activity. Hence, it follows that the application of filter and/or upward continuing/subtraction processing to remove the deeply sourced signatures could result in a more meaningful gravity dataset for basement map generation.

Research involving gravity modelling and filtering using data from the project area is actively being undertaken by Z. Shi at the University of Adelaide but it is evident that a substantial upgrading of the gravity data by systematic closer-spaced in-fill and more precise matching of detailed exploration grids in the project area is essential if relatively small signatures of potential economic significance are to be delineated.

## C. AEROMAGNETIC DATA

### Information

Subsets of the preliminary SA airborne total magnetic intensity (TMI) and gradient (MGRAD) datasets were extracted and imaged on ER-Mapper. Data in the Stuart Shelf subset was primarily derived from 1.6 km line-spaced regional AGSO (BMR) and DME surveys. Integration of existing local, more detailed surveys into the dataset is in progress and future images will be composite and substantially improved.

The main survey to be merged in the Stuart Shelf area is the Olympic Dam JV survey released by Western Mining Corporation under the Olympic Dam Indenture Agreement exploration conditions. Additional new DME surveys are also planned.

### Image Processing

As in the case of gravity data, the wide spectrum of both the magnetic intensity and its gradient resulted in large areas of strong blue and red tones using standard ER-Mapper algorithms. A number of different experimental algorithms were manually constructed. The goal in each case was to extract structural data from areas with substantially different characteristics.

The best result used the TMI-MGRAD image (Fig. 7) and was achieved by flattening the colour intensity in the strong blue and red ends of the spectrum and steepening the middle spectrum. Minor changes to the algorithm result in significant changes to the resulting image colours. Further enhancement was also achieved by suppressing the grey-scale of strong gradients.

Overlays were also prepared on ER-Mapper at zoomed scales to outline magnetic bodies and linear features for different image algorithms. Many relatively minor fractures and faults were identified. Only lineaments believed to represent significant basement faults and gradient features considered to indicate geological boundaries have been incorporated into the basement geology interpretation (Fig. 8).

### Interpretation

The aeromagnetic image (Fig. 7) is more complex than that of the Bouguer gravity and reflects the higher information density and much stronger signal of shallower magnetic sources with distinct lateral contrasts. The study region is subdividable into four major northwesterly trending domains: namely SW, Central, NE and Adelaide Geosyncline (AGS) magnetic regions.

The ***SW magnetic region*** is of relatively low base-level magnetic intensity with areas of irregular noise that correspond generally with outcropping GRV and shallow Palaeoproterozoic-Archaean basement in the north. The magnetic noise from this felsic magmatic terrain of lavas, tuffs and granites probably reflects lesser mafic members of the volcanics and relatively weak northwest-trending Gairdner Dyke Swarm (GDS) signatures. Signatures also reflect weak northeast-trending fractures or minor faults.

In the Kokatha-Glenloth area inferred shear zones (Curtis, 1988) in Archaean basement of the Wilgena Subdomain (Parker, 1990b) are faintly recognisable in TMI data and traced eastward with a subtle gradient image signature, below Pandurra Formation with clear correspondence to Bouguer gravity gradients.

In the south, in addition to the magnetic low associated with Lake Acraman are three faintly expressed ring structures of about 50 km in diameter (Fig. 8) which are not readily observable on the Fig. 7 image. The Coondambo ring (CR) coincides approximately with a mapped basin-like structure of the Chitalinga Hill Complex (Blissett, 1975) which has been interpreted by Branch (1978) to be a caldera. The Everard ring (ER) is similarly related to the Glyde Hill Complex (Giles, 1977, 1988, Blissett, 1975).

The Gairdner ring (GR) is therefore inferred to be a basin-like structure within the GRV stratigraphy. These `basins' might be drape/compaction features

associated with block faulting or local basement palaeogeography. They appear to be unrelated to major volcanic vent features as no corresponding gravity features appear to exist.

In the north of the region, small, localised areas of very high magnetic intensity are attributed to outliers of banded iron formation. While these bodies have been assigned to the Hutchison Group in Fig. 8, it is conceivable that they could correlate to the either the Wandearah Metasiltstone or Archaean Mulgathing Complex. There is also the possibility of an ultramafic origin.

The ***central magnetic region*** is of modestly high magnetic intensity which corresponds in general to the distribution of Pandurra Formation in the Cariewerloo Basin (exposed and concealed, Figs 4,5 & 8). Strings of northwest-aligned bead-like, bulls-eye anomalies characterise the well documented shallow Gairdner Dyke Swarm. Significant blocks of stronger, relatively uniform magnetic intensity are present north of 6600000mN. Major northeast-trending discontinuities are present at depth.

The origin of the elevated magnetic field strength throughout the region is conjectural since the near-surface Pandurra Formation is primarily a sandstone up to 1.5 km thick (Cowley, pers. comm.) with a relatively low magnetic susceptibility (hematite content that is unlikely to exceed 4% on average) and the next underlying unit is probably GRV which also has a generally low magnetic susceptibility (see SW magnetic domain).

The over-all geometry and smoothness of the magnetic signature indicates that a 1-2 km depth is probable. A model consistent with current stratigraphic data is elusive but an extensive undocumented early Mesoproterozoic mafic volcanic suite is a possible explanation and would be consistent with basal mafic GRV intersected by drillholes near Mt. Gunson.

The discrete areas of much higher magnetic intensity north of 6600000mN lack internal gradient contrast which also supports a sub-Pandurra Formation depth. The largest anomaly has no apparent impact on the Bouguer gravity signature which indicates it is either a thin layer above granitic basement or a low SG body which extends to depth without lateral contrast.

Nevertheless, a zone of significant ?magnetite enrichment in the pre-Pandurra subsurface is indicated and it is conceivable that centres of alteration and/or discrete high-level granitic complexes with accessory magnetite similar to the Olympic Dam area may be present (the lack of a corresponding regionally elevated Bouguer gravity signature as in the OD region may not be particularly significant because of the relative differences in cover and/or depth extent of iron enrichment). Thickened mafic GRV could also possibly give rise to the same signature.

At one locality, south of 6600000mN & west of 600000mE, a localised area of high magnetic intensity has been attributed to an outlier of banded iron formation. Since this site has not been drilled to basement, stratigraphic affinities are uncertain and an ultramafic lithology is also a possible origin.

The ***NE magnetic region*** has a wide TMI spectrum and zones of high frequency gradient signatures with complex structure that reflect relatively shallow magnetic basement. It is subdividable into three sub-regions.

In the far north of this magnetic region, the shallow sourced and strongly magnetic signature of the *Mt. Woods Inlier magnetic sub-region* is prominent.
In the *Olympic Dam - Mt. Gunson magnetic sub-region* (ODMG) the northwesterly GDS fracture set is present but has a relatively weak expression compared to elsewhere probably reflecting either the absence of dykes or a substantially lower magnetic susceptibility contrast with adjacent host rocks or appreciable loss of magnetite due to alteration. In some instances the boundaries of basement bodies are coincident with the GDS fracture set indicating faulting has taken place.

The northern part of this sub-region has very high magnetic contrasts which provide for the easy recognition of internal structure reflecting the diversity of lithologies observed in drillholes.

However, to the south and east of Mt. Gunson, an extensive area of lower magnetic intensity appears relatively featureless in Fig. 7, but with spectral suppression of high magnetic intensity and gradients, exhibits a moderate degree of gradient contrast dominated by GDS fractures together with some curvilinear structures. Drilling information suggests that cover in this region is commonly less than 1 Km (Fig. 5).

Throughout the sub-region both strong and weak northeasterly-trending linear structures are also recognisable as probable faults (Anderson, 1979). Curvilinear gradient trends of relatively short extent have been interpreted as geological contacts and seem to be mainly associated with drilling intersections of deformed granites and occasional metasediments (see Section 7.4).

Localised, very strong, high gradient, magnetic signatures seem to be associated with Wandearah type calcsilicate, skarn, and BIF rocks associated with the Bouguer gravity high centred about 700000mE and 6570000mN and in the vicinity of 750000mE and 6000000mN.

In the Mt. Gunson area, along the southeast side of the Elizabeth Creek Fault, strong magnetic signatures appear to be due to a combination of magnetic mafic GRV and underlying Wandearah type siltstones and calcsilicate rocks.

At the southern end of the magnetic sub-region is a distinct, moderately magnetic area which has some GDS gradient structures along its western edge. This feature has a different signature to the nearby Mt. Gunson environment and correlates strongly with the delineated extent of post-Pandurra Formation Beda Volcanics (Cowley, 1991b).

*The Mt. Woods - Olympic Dam* magnetic sub-region is characterised by a few isolated, relatively small, though strong magnetic features within a relatively uniform magnetically 'dead' environment. Spectral suppression of high TMI & GRAD intensities does not provide an avenue for detecting gradient contrasts. It seems, therefore, that the pre-Pandurra basement is either of very low, uniform, magnetic susceptibility or is buried to the extent that its magnetic signature is completely attenuated. The basement in this region is therefore magnetically undifferentiable except where localised magnetic highs are present.

A thick cover model (>> 2 km) seems doubtful when the 500-600 m basement intercepts of several drillholes located on the magnetic highs are considered. An Archaean basement similar to the northern portion of the southwest magnetic region is the preferred interpretation but a unknown basement with similar characteristics to that observed to the east of Mt. Gunson at slightly increased depths is also a possibility.

The ***AGS magnetic region*** in the north is also an area of high magnetic contrast, but gradients are subdued reflecting the thickening of the Neoproterozoic cover to the east.

Magnetic signatures reflect structural trends oriented parallel to the major Norwest Fault and north-westerly leg of the Torrens Hinge Zone and which correlate with Bouguer gravity features.

A zone in the north of the region with blocks of high magnetic intensity partially corresponds to the main, high density gravity block previously described on Fig. 6. The magnetic bodies are more widely distributed to the northeast and to the south extending over areas of low Bouguer values and are of relatively shallow origin at depths of 3.0 ±0.5 km. (SADME, 1982).

Adjacent to the Torrens Hinge Zone the magnetic intensity pattern is suggestive of continuance of the Olympic Dam environment toward the northeast beneath thickening cover. However, eastward, the probability of mafic late Mesoproterozic Beda Volcanics and early Neoproterozoic Willouran Callana Group Volcanics occurring in the thickening cover, increases.

Drillholes along the western shore of Lake Torrens did not intersect Beda Volcanics above the basement and on the eastern shore WWD-1 was too shallow, terminating above the Umberatana Group at 529m. Recognising that the Umberatana Group possibly forms a 0-4km thick, easterly thickening wedge, it is inferred that north of about 6600000mN, magnetic signatures east of the Lake's midline may not reflect pre-Pandurra Formation basement but younger mafic volcanics.

This interpretation is consistent with similar gravity and aeromagnetic signatures associated with an extensive well documented sheet of Beda Volcanics in the south of the northeast magnetic region.

## D. INTEGRATED INTERPRETATION

The generation of a preliminary solid-geology map of pre-Pandurra Formation basement, a primary objective of this project's initial phase, is presented in Fig. 8. This has been achieved by overlaying drillhole locations and basement lithology intersections on to gravity and aeromagnetic images using ARC/INFO, ArcView and ER-Mapper

software from which interpretation overlays were generated. While some of the work was done interactively on computers, final compilation was undertaken and summarised on plots at 1:1,000,000 scale.

Given the restrictions imposed by the wide spacing of regional gravity data points, a remarkably good match with aeromagnetic data is observable for some features. However, where correspondence is poor, it is probable that the magnetic feature is either additional to the Bouguer gravity structure with little SG contrast as might occur with hydrothermal alteration, or it is sourced at much shallower depth with a small nett mass and has only weak genetic links to deeper substrates.

Geophysical bodies and regions (mainly magnetic) were stratigraphically labelled using existing drilling data and by analogy, nearby areas of similar geophysical signature.

Major, regionally significant faults were inferred where relatively shallow aeromagnetic features coincided with relatively strong gravity contrasts. In general, Bouguer gravity was only used to supplement aeromagnetic data with some important exceptions such as the Olympic Dam Breccia Complex and Acropolis Complex.

Substantial geochronological measurements have been made on samples from stratigraphic units throughout the north-eastern Gawler Craton. This information demonstrates that two major orogenic events occurred prior to circa 1700 Ma and an a subsequent period of intense igneous activity circa 1600-1570 Ma followed by a thermal disturbance circa 1550-1485 Ma. Pertinent dating data used in stratigraphic reconstruction are presented in Table1.

## Archaean Basement of the Wilgena Subdomain

Archaean cratonic basement of the Wilgena Subdomain which corresponds to the NW gravity region is referred to as the Mulgathing Complex (Daly, 1986). This is composed predominantly of weakly compositionally layered, granitic Kenella Gneiss with lesser interbands of layered, migmatitic, Christie Gneiss and minor accessory mafic granulites, BIF, calc-silicates and ultramafics.

The Mulgathing Complex was subjected to granulite facies metamorphism during the Sleafordian Orogeny (circa 2640-2300 Ma)(Daly and Fanning, in prep.), subsequently deformed again by the Kimban Orogeny (circa 1845-1710 Ma)(Parker et al., in prep.) and intruded by synorogenic Sleafordian, and Kimban granites as well as postorogenic Hiltaba Suite granites.

Within the Wilgena Subdomain to the west of and in the extreme west of the study area the Archaean is partially concealed by the Palaeoproterozoic Wilgena Hill Jaspilite (BIF) and Tarcoola Formation (clastics and minor mafic volcanics) and Mesoproterozoic Labyrinth Formation (clastics and volcanics) and GRV. Except for GRV (Fig. 4) these units have not been explicitly recognised in drillholes or magnetic interpretations elsewhere in Stuart Shelf area (see section B).

Therefore the low regional Bouguer gravity and magnetic intensity signatures of the northwestern Stuart Shelf are interpreted to mainly represent granitic and gneissic units of the Mulgathing Complex consistent with geophysical signatures of the Wilgena Subdomain to the west.

Existing interpretations suggest that the Subdomain extends to the approximate position of the Elizabeth Creek Fault but since the Mt. Woods - Olympic Dam magnetic sub-region (Section C) has similar characteristics it is inferred that Wilgena Subdomain probably extends north-eastwards to the Torrens Hinge Zone, albeit with numerous Mesoproterozoic intrusions and inliers.

Archaean felsic/mafic volcanics (circa 2558±6 Ma) of relatively low metamorphic grade (Cowley & Fanning, 1991) near 'Millers Creek' in ESSO drillhole DP1, to the east of the Elizabeth Creek Fault, are the only positively identified Archaean rocks intersected by drilling in the northern Stuart Shelf region.

## Palaeoproterozoic - Pre-Kimban Metasediments

Palaeoproterozoic metasediments of the eastern and southern Gawler Craton comprise the Hutchison Group, Broadview Schist (and Myola Volcanics circa 1791 Ma), Doora Schist (and Moonta Porphyry circa 1737 Ma), schists (and Tidnamurkuna Volcanics circa 1806 Ma) in the Peak and Denison Inliers, and granulite gneisses

(and BIF circa 1745 Ma) in the Mt. Woods Inlier (dates from Fanning et al., 1988).

### *Hutchison Group*

The Hutchison Group is a sequence of fluvial to shallow marine quartzites, carbonates, iron formations, semipelitic schists and possible mafic volcanics known from the eastern third of Eyre Peninsula. It was deposited circa 1950-1850 Ma and regionally metamorphosed during the Kimban Orogeny circa 1845-1710 Ma (Parker et al., in prep.).

Structural trends south of the Gawler Ranges imply that the Hutchison Group extends from the Middleback Ranges - Buckleboo region, south of the study area, north and north-westward beneath the GRV.

### *Doora Schist and related units*

The Myola Volcanics, Broadview Schist (northeastern Eyre Peninsula), Moonta Porphyry and Doora Schist (Moonta region of northern York Peninsula) are of syn-Kimban age (circa 1800-1730 Ma)(Parker et al., in prep.).

Schists have been intersected in a few drillholes in the ODMG region (eg Arcoona area Drillhole ASD-2), but positive identification and stratigraphic correlations remain ambiguous. These drilled occurrences appear to be within broad tracts interpreted to be Lincoln Complex, probably in a geological setting similar to the Lake Giles area on the southern boundary of Fig. 8 at about 700000mE, and therefore they may be Hutchison Group Schists. However, they are structurally in line with the Moonta Subdomain and so could be correlates of the Broadview or Doora Schists.

## Palaeoproterozoic Syn-Kimban Granites

Geochemically-based studies by Creaser (1989) point to two generic associations for Palaeoproterozoic granitic rocks (suites #1 & #2) in the Stuart Shelf region. There is scant evidence of any particular geographic bias in the distribution of these suites beyond recognising that the study was generally focussed to the ODMG area where much of the data has been obtained from relatively isolated and irregularly distributed drillholes. Suites #1 & #2 are often indistinguishable from a geophysical point of view and have both been assigned to the Lincoln Complex (Fig. 8).

Suite #1 includes distinctive mega-crystic granites from the Olympic Dam region which are correlated by Creaser (1989) with the Donington Granitoid Suite (circa 1845-1810 Ma) from southern Eyre Peninsula. These granites record two distinct deformations.

Suite #2 includes pegmatites, granitic and basic intrusives that have suffered one period of deformation. They are correlated by Creaser (1989) with the late synorogenic Kimban Moody Suite granites of the Lincoln Complex (circa 1750 - 1685 Ma)(Parker et al., in prep.)

Suite #2 granites, from four separate locations seem to have been minimally affected by circa 1500 Ma thermal events and give Rb-Sr muscovite and biotite ages in the range 1730 - 1681±18 Ma (Creaser, 1989) which provide a minimum age for the end of the Kimban Orogeny in the OD region.

Suite #1 and #2 granites appear to intermingle in drillhole intersections and the suites are geophysically indistinguishable. They frequently have a curvilinear internal aeromagnetic signature (Fig. 8) where they are weakly to strongly magnetic. The signature is probably due to relict compositional macro banding (inherited from protoliths) and/or structural grain. Such signatures are generally absent in Hiltaba type granites (see later).

Magnetic lows of substantial dimensions in the Olympic Dam-Mt. Gunson magnetic sub-region (eg 718000mE 6610000mN) are typical of non-magnetic granitic plutons but they lack typical corresponding Bouguer gravity lows. This geophysical signature indicates that either the root zone has low density contrast or is absent.
Scattered drillhole data in the ODMG suggests that such areas are occupied by suite #1 & #2 granitic rocks. Therefore they have been assigned stratigraphically to the Lincoln Complex even though these aeromagnetic signatures are very different from those from the Lincoln Complex on Eyre Peninsula. It is acknowledged however, that blocks of siliceous low-iron metasediment such as Hutchison Group or Archaean gneisses could equally well fit the data.

## Palaeo/Mesoproterozoic Late-Kimban

## Sediments and Volcanics.

The Wandearah Metasiltstone and Willamulka Volcanics which are weakly metamorphosed and slightly deformed appear to have been deposited during the closing stages of the Kimban Orogeny. These units are only known from drilling in the study area.

Stratigraphic relations with the Doora Schist, Moonta Porphyry and related units of moderately higher metamorphic grade and the Moonabie Formation, Tarcoola Formation and Corunna Conglomerate are unclear.

At Roopena, (720000mE, 6375000mN) on the southern extremity of the Stuart Shelf region, Corunna Conglomerate and GRV overlie brecciated and sericitised hematitic siltstones equated tentatively to the Wandeareah Metasiltstone (Parker et al., in prep.). In the vicinity of Kadina in northern York Peninsula the contrast in metamorphic grade from Doora Schist south of the town to low grade Wandearah Metasiltstone to the east implies older ages for the Doora Schist, Moonta Porphyry and hence also Moonabie Formation. This constrains deposition of the Wandearah Metasiltstone to circa 1740-1616 Ma (the latter age being a minimum from sericite at Roopena) and hence may be equivalent to the Tarcoola Formation.

The Tarcoola Formation (circa 1660-1650 Ma)(Parker et al., in prep.) is a laminated black shale/siltstone sequence with minor orthoquartzites and mafic volcanics which outcrops weakly due to Phanerozoic cover in a region north of 6600000mN near the western boundary of Figs. 4 & 8. This unit, of similar sedimentary and deformational style to the Wandearah Metasiltstone, is more extensive to the west of the study region but has not been recognised in pre-Pandurra Formation basement to the east.

### *Wandearah Metasiltstone*

Wandearah Metasiltstone was first described from drill core south of Port Pirie but was later recognised elsewhere further south at Port Broughton and Bute where it is intercalated with the basic Willamulka Volcanics (Parker, in prep.) and extensively in core from the Stuart Shelf region.

At these locations, the Wandearah Metasiltstone is a laminated shale-siltstone-carbonate sedimentary package and the predominant lithology is a very fine-grained massive, medium, reddish- grey laminated siltstone with thin bands of pink hematisation. Local brecciation is sometimes present. In the Bute area, the lithology is more variable and dolomite interbeds are present.

Beneath the Stuart Shelf carbonate units equated to Wandearah Metasiltstone have been altered to calcsilicate and in one hole was described as a skarn CSD-1. Local brecciation and small-scale ductile folding is observed in drill core from the Mt. Gunson area. Hematisation is widespread and in some cases banded iron formation has been described, eg drillholes AD-2 and AD-8.

Most of the Stuart Shelf drillholes which intersected Wandearah Metasiltstone were targeted on strong aeromagnetic highs. Therefore it is not surprising that these cores register moderately strong magnetic susceptibilities. However, magnetisation of the Wandearah Metasiltstone may be a locally restricted alteration feature associated with ?Hiltaba Suite hot spots in an otherwise non-magnetic, more widespread sequence indistinguishable from older basement.

Wandearah Metasiltstone as displayed in Fig.8 occurs in small areas but this is misleading because of the magnetic characteristic described above and it is also known from drilling to be present below GRV cover (eg. EC-21 & SAR-8).

Therefore, prior to the eruption of the GRV and the intrusion by the Hiltaba Suite, it is possible that the Wandearah Metasiltstone (and/or Tarcoola Formation) were widely distributed throughout the Stuart Shelf region. It is thus possible that any unexplained exotic liths in the GRV-related Olympic Dam Breccia Complex might be fallback from the former roof rocks to the host Roxby Downs Granite, (cf. 300m fall back of mega-blocks in South African diamond pipes) and could include these units. Furthermore there is a slight possibility that the hematite in the breccia may have been sourced in this way and later reconstituted by hydrothermal processes.

### *Corunna Conglomerate and Labyrinth Formation*

Corunna Conglomerate and Labyrinth Formation

occur as isolated outliers from the known south-western and north-western limits of the Stuart Shelf region respectively.

The Corunna Conglomerate occurs along the southern margin of the main GRV mass. It is a sequence of ?terrestrial fluviatile to shallow marine polymictic conglomerates, sandy quartzite and carbonaceous shale, with some intercalated tuff. Definite correlates have not been recognised elsewhere in the Stuart Shelf region.

The Labyrinth Formation (Cowley and Martin, 1989) consists of lithic and pebbly sandstone with minor basalt and rhyolite and is demonstrably younger than the Tarcoola Formation. Imprecise dating (circa 1600-1640 Ma) from Mt. Eba appears to be inaccurate since correlation with the GRV is considered probable.

Minor laminated to massive cherty siltstone beds of Labyrinth Formation in Carpentaria Exploration's BB- series drillholes could be confused with assumed Wandearah Metasiltstone correlatives from the ODMG region.

## Gawler Range Volcanics

The almost geologically instantaneous deposition of the mainly felsic Gawler Range Volcanics (GRV), circa 1592 ±3 Ma (Fanning et al. 1988; Giles, 1988), is the largest documented cataclysmic igneous event of Mesoproterozoic volcanism in Australia (Creaser & White 1991). The magnitude of the event, in terms of felsic lava volume, lateral extent (probably originally double or treble the exposed limits) and nett thermal energy are probably unrivalled world wide. The stratigraphy of the exposed sequence in the Gawler Ranges has been revised (Flint et al., in prep.) but the new subdivision has yet to be successfully applied to drilled intersections in the pre-Pandurra Formation basement.

Creaser and White (1991) outline the enigmatic conditions of deposition and consider the genesis of the parent felsic A-type magma to be partial melting of deep crustal material of tonalitic composition at about 950°C (Creaser, 1989). Giles (1988) indicates that the mafic magmas were separately derived from the upper mantle with the igneous system driven by a common thermal event at the base of the crust. In situ crystallisation of the primary intrusive magma and/or venting to the surface appears to have occurred at a pressure of about 200 Mpa and 875 ±25°C (Creaser, 1989).

No vents or venting systems have ever been documented. Branch (1978) proposed that a basin feature occupied by the Chandabooka Dacite is a caldera, but there is no supporting geophysical evidence, and Tonkin (1985) suggested that the combined Bouguer gravity and magnetic signature centred about 700000mE and 6570000mN was a caldera complex. However, subsequently-released drilling data do not support this latter model. The Lake Acraman ring structure (AR-Fig. 8) has been also suggested as a vent but Williams (1986) provides support for a Neoproterozic impact origin. Given that there appears to be no clear vent system of adequate magnitude, a dyke swarm or fissure system has been proposed although only a handful of dykes have ever been documented. The vent sources either lie more or less concealed within the volcanics or have not yet been recognised.

Minor volcanics and the conical diatremes of the Olympic Dam breccia Complex (ODBC) post-date the main GRV event indicating that volcanic activity on the Stuart Shelf may have continued perhaps until as late as circa 1582-3 Ma (Fig. 9).

Intersections of GRV are relatively common in the pre-Pandurra basement of the ODMG region. Many of these drill sites are associated with magnetic anomalies of which some are due to alteration of felsic units. In other instances, as at Mt. Gunson, mafic units have been clearly recognised.

Aeromagentic data provide a basis for interpreting that non-magnetic felsic volcanics extend eastward beneath the Pandurra Formation along the western margin of the Cariewerloo Basin. Beneath the centre of the basin (Fig. 5) the pre-Pandurra basement is more magnetic (central magnetic domain) and it is inferred that this signature is due to the presence of appreciably more ?mafic GRV units perhaps similar to those intersected at Mt. Gunson. Two holes intersected early mafic GRV, believed to be Roopena Volcanics, in the south of the study area.

This current study has not provided any new evidence regarding the venting mechanism or its location. However, following on from the work of Creaser (1989) which suggests Hiltaba Granite was

mobile at shallow depths prior to GRV expulsion (Fig. 9) it is tentatively suggested that the GRV was ejected from the carapaces of rising granitic plumes which continued to creep upwards to finally crystallize as higher level plutons of Hiltaba Suite within the covering volcanics. Vent features would have largely been obliterated during this process.

If this model is correct the Wirrda Subsuite plutons in the Olympic Dam region and Hiltaba Suite plutons exposed along the west and north west of GRV exposure are postulated to be significant vent centres.

However, the model as proposed does not specifically exclude the involvement of fissure and/or small vent eruptions for some of the GRV sequence as clearly applies for some of the stratigraphy as mapped by Giles (1977,1988).

## Mesoproterozoic Post-Kimban Granites

Undeformed Hiltaba Suite granites (Suite #3 granite of Creaser, 1989; Flint, in prep.) are widely distributed. They include the Roxby Downs Granite at Olympic Dam and are considered to be co-magmatically related to the GRV. The extent of this magmatic event is well illustrated on the 1:2,000,000 Tectonic Map of South Australia.

Major plutonic activity in the Olympic Dam region took place during the period 1597-1586 ±3 Ma spanning the period of major GRV deposition circa 1592-2 ±3 Ma. Most granites give final cooling ages which post-date the GRV and major granite intrusion continued elsewhere to the south and east of the Stuart Shelf region as late as circa 1585-1583 Ma, with minor intrusives (circa 1591 ±10) being recorded in the Olympic Dam area at Acropolis (ACD-5, quartz latite - Creaser, 1989) (Fig. 9).

Rb/Sr isotopic dating of feldspar in OD region granites commonly gives ages in the range 1507-1484 ±15 Ma (Creaser 1989) which are up to 90 Ma lower than the youngest corresponding U/Pb isotopic ages of zircons. Mafic minerals and apatite give a spread of intermediate ages indicating only partial re-equilibration of Rb/Sr ratios during this circa 1550-1500 Ma thermal disturbance.

Hiltaba-type granites have been named the Wirrda and White Dam sub-Suites of the Hiltaba Suite in the Olympic Dam region (Flint et al., in prep.). The White Dam sub-suite (Opal Fields Suite of Creaser 1989) is distinguished on geochemical grounds from the Wirrda Sub-suite (Olympic Dam Suite of Creaser, 1989).

The origin of the magma as summarised in the preceding section offers little explanation for the relative abundance of iron in the Wirrda Subsuite and its magnetic characteristics. The igneous model does however indicate very hot conditions that increase the potential for assimilation and rapid dispersion of contaminants within the rising magma. Creaser's evidence, that some of the zircons from rhyolite in WRD-1 are inherited from underlying (circa 1800) Donington Granitoid suite (suite #1) of the older Lincoln Complex (Creaser 1989: WRD-1 & Mortimer et al., 1988: WRD-2), though limited, indicates that such contamination may have occurred.

The origin of the magma as summarised in the preceding section offers little explanation for the relative abundance of iron in the Wirrda Subsuite and its magnetic characteristics. The igneous model does however indicate very hot conditions that increase the potential for assimilation and rapid dispersion of contaminants within the rising magma. Creaser's (1989) conclusion, that some of the zircons extracted from Hiltaba granite obtained from drillholes WAD 1 & 2 were inherited from former Donington Granitoid suite (suite #1) granite of the older Lincoln Complex, though limited, provides evidence that such contamination may have occurred.

Recognition of concealed Hiltaba granites is not straightforward. In some cases mapped bodies exhibit classic uniformly low magnetic intensity and coincident simple negative gravity anomalies consistent with a simple plume like geometry (eg. see south and south western margin of the GRV).

However, in all situations, gravimetric discrimination of Hiltaba Suite granite in felsic host rocks such as the Mulgathing Complex of the Wilgena Subdomain or Lincoln Complex of the Cleve Subdomain is doubtful. Unless the host rocks have a magnetic grain or alternatively the granite has its own magnetic signature it will be geophysically unrecognisable.

A significant number of mapped Hiltaba suite granite bodies are either magnetic and/or appear to be of non-classic geometry which makes the

unambiguous recognition of similar bodies solely on geophysical data difficult.

The largest contiguous mass of Hiltaba suite granite (Wirrda Subsuite) in the study area is located about Olympic Dam and oriented east-northeasterly measuring about 60 x 20 km. It is of modest magnetic intensity with a weak shadowy gradient that appears to define the RDG pluton, and has a relatively uniform gravity signature away from the hematitic environments of Acropolis and Olympic Dam (Figs 6,7, & 8).

Small bodies of late? Hiltaba? granite with classic signatures, are located along the southern margin and suggest the main granite mass is possibly of slightly higher than average density.

Magnetic anomalies located beneath the northern Cariewerloo Basin, that appear to resemble Hiltaba granite about Olympic Dam, are tentatively interpreted to be Wirrda Sub-suite plutons.
The observation that these concealed masses are closely related in space to the inferred relative abundance of slightly magnetic mafic? GRV beneath the Cariewerloo Basin and are also possible former extrusive centres suggests a potential genetic link between magnetic Wirrda Subsuite granites and magnetic mafic? GRV.

The only other probable Hiltaba granite mass beneath the in the Cariewerloo Basin occurs just to the northeast of Mt. Gunson and has a nearly classic magnetic-gravimetric signature.

Because exploration drilling sought out coincident magnetic and gravity signatures drillhole intersections of Hiltaba type granites outside the Acropolis-Olympic Dam-Wirrda Well region are few and significant masses of such granite may remain undetected.

## Pandurra Formation

The stratigraphy and depositional environment of the Pandurra Formation (circa 1424±51 Ma) in the Cariewerloo basin is well described by Cowley (1991a) and has been readily recognised during the preparation of the stratigraphic dataset.

The formation is invariably hematitic throughout and readily subdivided into four members. The upper two members are predominantly sandstones, the basal unit is quite variable ranging from a pebbly conglomerate to silty fine sandstone and the intervening unit is a distinct shaley horizon.

The abundance of hematite in the Pandurra Formation is inferred to be a retained small portion of that in its main parent source the Yardea Dacite.

## Mafic Dykes

Basalt dykes of the Gairdner Dyke Swarm (GDS) are well documented from the Cariewerloo Basin because they are easily recognised due to their magnetic susceptibility contrast with the surrounding Pandurra Formation sandstone. Elsewhere to the west some dykes are similarly recognisable in the GRV. However to the east the magnetic basement is much shallower and the magnetic susceptibility contrast is much lower, making the dykes harder to recognise.

However, magnetic gradients due to contrasts in basement lithologies do depict the northwest fracture set that the dykes have dilated further to the west. The confirmation that relatively young mafic dykes intruded the ODBC about 1059±69 Ma (Rb/Sr) (Creaser, 1989) and the existence of very weak magnetic signatures associated with probable dykes to the east of Mt. Gunson (Curtis, 1985) does suggest that the swarm is present in the ODMG region.

The magnetic image (Fig. 7) also illustrates the existence of less prominent north-northwesterly oriented fractures that were invaded by the Gairdner Dyke Swarm (Curtis, 1985).

## Faulting

Maps depicting surface geology are relatively devoid of inferred and observed faulted contacts. This is due primarily to the monotonous nature of some of the predominant outcropping units and an abundance of Cretaceous-Quaternary cover elsewhere.

Recognition of faulting is therefore almost solely reliant on geophysical interpretation. Magnetic imaging has been the main tool used in the interpretation presented as Fig. 8.

Because of the major geological differences between the magnetic domains different degrees of structural detail are a natural consequence. Many features of minor stature are only evident from

areas of outcropping GRV and have been deliberately omitted from Fig. 8. Features such as the GDS fracture set which are strongly evident due to near surface magnetic basic dykes in the Cariewerloo Basin have however been included where gravity contrasts indicate substantial fault movement has occurred as for example the Elizabeth Creek Fault.

In the east of the region, discrimination of faulting is blurred because of the extensive inferred occurrence of polycyclic granitoid intrusion where the boundaries of magmatic bodies could either be faulted or have been focussed along pre-existing fault structures. Generally collineation of several different juxtaposed units was regarded as evidence of faulting.

## Mineralisation

### *Olympic Dam Mineralisation and the 'Burgoyne batholith'*

Reeve et. al. (1990) used the term 'Burgoyne batholith' for the collective distribution granites bodies which correspond to a region of relatively high magnetic intensity that extends eastwards from Acropolis to the Torrens Hinge Zone (Figs 7 & 8) without an explicit description. However, within this region there is a complex intermingling of Hiltaba Suite intrusives into older strained granitoids of the Lincoln Complex. Therefore, for the purposes of discussion in this report, this area is referred to as the 'Burgoyne Block'.

The aeromagnetic signature for 'Burgoyne block' clearly indicates four separate environments which have been distinguished in Fig. 8. In the southwest quadrant, Lincoln Complex associated granitoids (Suites #1 & #2) with typical magnetic characteristics occur. Along the northwestern flank there is a zone of relatively uniform high magnetic intensity where only intersections of Hiltaba type granite occur. Along the southeast flank is a zone of similar intensity but with signatures similar to Lincoln Complex (Suite #1 & #2) rocks; both Lincoln Complex and Hiltaba Suite (Suite #3) are recorded by drillholes into this zone. Two small, centrally located areas of low magnetic intensity are probably late, non-magnetic Hiltaba type granites.

Comparison of the geological data, geochronology (Creaser 1989) and aeromagnetic signatures of the 'Burgoyne block' indicate that the southern flank is actually a block of Lincoln Complex (Suites #1 & #2) which was infiltrated by Hiltaba Suite granite beginning at Wirrda Well and White Dam circa 1597-5 Ma. Intrusion along the northern flank circa 1590-88 Ma concurrent with GRV eruption, resulted in a massive, relatively homogeneous 'magnetic' granite body. The north-western boundary of the 'Burgoyne block' is relatively straight suggesting that the main Hiltaba Suite mass intruded along-side of a pre-existing faulted contact between Archaean and Lincoln Complex rocks that appears to have been subsequently reactivated. The Hiltaba Suite mass probably spreads out southwards at depth beneath Lincoln Complex caprock which has been locally breached from place to place along the southern portion of the 'Burgoyne Block'.

The principle age of mineralisation is probably associated with late stage circa 1586 Ma igneous activity in the Olympic Dam Deposit and possibly lesser non-magnetic intrusives nearby. Poly-cyclic brecciation and mineralisation post-dates the host Roxby Downs Granite (circa 1588-7 Ma, Creaser, 1989) and probably pre-dates minor (circa 1586 Ma, Johnson and Cross, 1991) unmineralised and undisturbed intrusives (Reeve et al., 1990), constraining its age to circa 1586.5 Ma. Correlation of mineralisation with late Hiltaba Suite igneous activity, means that it post-dates the extensive Yardea Dacite (1592±2 Ma) sheet and major GRV volcanism. However, the early 1598±10 Ma age of apatite veins and late 1578±13 Ma quartz latite at Acropolis implies that episodic igneous/metallogenic activity may have occurred over a period of at least 10-15 Ma. It is however acknowledged that this proposed event sequence is not a unique solution because the precision ranges of the geochronological data are overlapping.

Recent studies by Reeve et al. (1990), Oreskes and Einaudi (1990) and Trueman (1986) of the Olympic Dam Breccia Complex have been able to build on previous studies to document a phreatomagmatic/igneous hydrothermal origin that has had a polycyclic history with mineralisation processes as an integral aspect. Given the dating evidence the ODBC is a localised stratigraphic variant of the GRV.

Later dates are to be expected from the deposit because some disturbance of geochemical systems is likely to have occurred during the circa 1550-1500 Ma thermal event recorded by nearby granites

and during localised heating related to Gairdner Dyke intrusion circa 1059±69.

Uranium and copper are self-evidently mobile without such thermal engines and can respond to minor changes in ground water conditions and acids released during sulphide REDOX reactions can attack rock minerals. Modifications of this type may have occurred any time up until the complex was virtually sealed off by the Neoproterozoic Tregolana Shale. Trueman's (1966) circa 1400 Ma pitchblende date is probably of this origin.

The opportunity for the upgrading of relatively weak mineralisation in the basement as well as the possibility of dispersion into both cover and nearby host country rocks has the potential to generate relatively large geochemical targets within which recognition of orebodies may prove difficult.

### *The Significance of Hematite*

The abundance of hematite in the Pandurra Formation and the Yardea Dacite blanket of the GRV, the frequent pervasive hematitic alteration of pre-Pandurra basement lithologies and the massive abundance of hematite at Acropolis and Olympic Dam are intuitively connected.

Mobilisation of iron was not discussed by Creaser but initial calculations based on analytical data tables from his thesis (Creaser, 1989) and from Giles (1988) indicates :-

| UNIT | Fe % (Equiv.) |
|---|---|
| Crustal Tonalite | 5.96 ±1.7 |
| Hiltaba Granite (Wirrda Subsuite) | 2.68 ±0.85 |
| Yardea Dacite & Quartz latite (ACD 4 & 5) | 5.28 ±0.44 |

These calculations point to a marked partition of iron between the Hiltaba granite and Yardea Dacite of about 1% which possibly occurred just prior to venting. Given the very large masses in this igneous system this difference indicates an enormous mass of Fe has probably been liberated from the intrusive Hiltaba granite melt.

It is unlikely that the iron was only lost by vulcanism and herein lies a possible explanation for the source and veritable abundance of hematite associated with hydrothermal alteration. In particular the model provides for massive hematite accumulation such as at Olympic Dam and magnetite at depth which is reflected by the large magnetic anomalies.

While this aspect of petrochemistry clearly warrants further investigation it is also suggestive that this same mechanism was responsible for the partition of copper and gold from the primary magma leading to mineralisation without necessarily requiring a secondary mafic igneous source. Recent investigations of Nd isotopic trace chemistry (Johnson and Cross 1991) in the ODBC does however suggest that the mineralising fluids contacted ?mafic mantle derived rocks.

The abundance of hematite in the ODBC is exceptional but non-essential to the formation of economic copper-gold ore. Hence any new resource of significant magnitude in the Stuart Shelf region could have a similar genesis without the significant geophysical signatures that arise from such a massive degree of iron enrichment.

The abundance of hematite in the Pandurra Formation is inferred to be a retained small portion of that in its main parent source the Yardea Dacite.

### *Regional Implications for Exploration*

Clearly the close spatial and temporal association of mineralisation with Hiltaba Suite granites has exploration significance. Even if granite bodies are not the direct source of metals, regions with abundant granite do represent localities where prolonged geothermal engines were present with the capacity to deliver metal pregnant fluids to geochemically favourable host rock environments with potential epigenetic orebody sites.

This model is supported by the diversity of mineralisation that fits the Hiltaba Suite association where in addition to Olympic Dam, gold hosted by Tarcoola Formation adjacent to an unnamed granite at Tarcoola, Erea Dam in Kenella Gneiss, Glenloth in Glenloth Granite, with nearby Hiltaba granite (Parker et al., in prep.), trace copper and minor gold mineralisation in mafic GRV and lead-zinc in Wandearah Metasiltstone calcsilicate equivalents (Drillhole EC-21) in the Mt. Gunson area near a probable Hiltaba granite.

Elsewhere, on Northern Yorke Peninsula Wandearah Metasiltstone and Doora Schist hosted uranium-copper-molybdenum mineralisation at Alford, adjacent to Tickera Granite (min. Rb-Sr

age: 1215±554, Webb et al., 1986) and further east, related? black shale hosted copper-lead-zinc (Lynch, 1982). Given the simple geometry of the Moonta vein type orebodies within the strained Moonta Porphyry, and the association of similar minor copper mineralisation (Crawford, 1965) near Pine Point in proximity to Arthurton Hiltaba-suite? granite, the Moonta-Kadina-Wallaroo copper mineralisation is also probably Hiltaba related.

The uranium mineralisation at OD may be a consequence of the redox regime resulting from the coexistence of sulphide and hematite coupled with hydrothermal leaching from the Olympic Dam Granite and is therefore only likely to recur where a similar relationship exists between a source rock and reduction site (eg. brecciated Tarcoola Formation host and GRV source near a granite heat engine). Creaser (1989) agrees with this uranium source model and further indicates that the REE may have been simultaneously mobilised but the work of Johnson and Cross (1991) is in conflict, and suggests that neither the GRV/Hiltaba melt nor and Archaean source rock were involved. The view of Conor (pers. comm.) and supported by Oreskes (1990) that the RDG at Olympic Dam was sericitised prior to the introduction of hematite is consistent with the hydrothermal interaction between the ODBC and its host.

Were it not for the complications offered by radioactive isotopes resulting from the uranium mineralisation the ODBC could possibly meet some of the criteria of commercial iron ores and exploration results that indicate a similar environment should consider this possibility.

Lead-zinc mineralisation in Wandearah Metasiltstone and allied units has not been examined in any great technical detail. The common absence of significant copper and its stratabound appearance could falsely lead to the conclusion that it has a syn-sedimentary/basin de-watering origin without appropriate investigation. Irrespective of this aspect the fairly ubiquitous occurrence of intraformational breccias and carbonate horizons within the unit offer possible sites suitable for epigenetic ore deposition. The potential of this host environment is best illustrated from Yoke Peninsula.

Care is required in the evaluation of mineralisation indicators in the Stuart Shelf region because a Mesoproterozoic age is not totally unequivocal since post-Neoproterozoic mobilization of metals is demonstrated by the Mt. Gunson copper deposits and hence by inference, some mineralisation in pre-Pandurra Formation basement.

Nonetheless, it is concluded that reducing host rock environments which offer adequate primary porosity or a composition amenable to chemical replacement processes in proximity to or within Hiltaba granites are primary exploration environments.

Empirically the 'magnetic' Hiltaba Granites which are intuitively iron rich seem to offer the highest exploration potential based on experience but mineralising processes have the capacity to destroy such a signature where strong sericitisation and reducing conditions associated with gold deposition may have occurred.

Meaningful generalised target definition criteria for the Stuart Shelf region therefore remain elusive at this time.

## CONCLUSIONS/RECOMMENDATIONS

The primary conclusion from the investigative work so far undertaken is that there is much more to be learnt from the existing data if the following recommended suggestions are implemented.

### A. GEOPHYSICS

#### Gravity

1) Finalise upgrading of the DME dataset to include all properly located company data.

2) Systematically attempt to field tie inadequately located information.

3) Develop a policy that will result in a substantial increase in the regional station density.

4) Establish datasets of SG data and use them for selective basement modelling.

5) Establish shallow and deep basement signature maps using upward continuing and subtraction data processing.

6) Actively support modelling studies being undertaken by Adelaide University.

Aeromagnetics

7) Pursue integration of aeromagentic datasets to ensure the highest feasible data density and integrity.

8) Establish datasets of magnetic susceptibility data and use them to selectively model the depth of magnetic sources.

9) Establish shallow and deep basement signature maps using upward continuing and subtraction data processing.

## B. GEOCHEMISTRY AND GEOCHRONOLOGY

1) Establish a comprehensive drillhole and rock sample dataset of analyses.

2) Undertake supplementary analyses where appropriate.

3) Carry out whole rock discriminant analysis to aid stratigraphic correlation of basement lithologies.

4) Examine the partitioning of iron oxides in the Hiltaba - GRV magmatic system to establish if the primary magma is the source of hematite/magnetite and copper-gold mineralisation.

5) Develop a comprehensive geochronology dataset.

6) Attempt to establish the age of suite #1 & #2 strained granitoids and major blocks of GRV south of the Olympic Dam area.

## C. GEOLOGY

1) Establish a 'short' list of drillholes for detailed geological examination based on stratigraphic and/or mineralisation importance.

2) Re-code and massage the shallow Stuart Shelf database of Newton and update with SSDB data to enable facies mapping of Neoproterozoic sequences.

3) Generate a revised integrated interpretation at 1:500,000 scale with multi-level plan layers of geology, stratigraphic isopachs and disconformity surfaces.

4) Seek to identify information of potentially economic significance at any stage.

## D. ECONOMIC GEOLOGY

1) Generate a set of orebody models based on the upgraded information.

2) Prepare a preferred set of targets for detailed geophysical test work and follow-up drilling.

## E. GENERAL

1) Invite participation of exploration title holders both directly and through selective data access.

2) Pursue development of GIS and integrated data processing skills vigorously to allow maximum utilization of the information.

## GLOSSARY OF ABBREVIATED TERMS

| | |
|---|---|
| **AESIS** | Australian Earth Science Information System. |
| **AGSO (BMR)** | Australian Geological Survey Organisation, former Bureau Min. Res.. |
| **ARC\INFO** | Graphical Information System Software (UNIX) Package. |
| **ArcView** | MS_DOS/UNIX Windows Display Interface for **ARC/INFO** data. |
| **DHDB** | DME Central Drillhole Database. (**GEOSIS**) |
| **DESCP_CD** | Coding system for common geological terms. (SSDB) |
| **DH_BASE** | ArcView subset of DH_LOG |
| **DH_INDEX** | SSBP Drillhole Information Index Dataset. (**SSDB**) |
| **DH_IDXCD** | Code system used in **DH_INDEX**. (**SSDB**) |
| **DH_LIST** | Listing of drillholes referred to in **DH_INDEX** and **DH_LOG**. (**SSDB**) |
| **DH_LOG** | SSBP Drillhole Stratigraphic & Geological Summary Dataset. (**SSDB**) |
| **ER-Mapper** | Image Processing Software (UNIX) |
| **GRV** | Gawler Range Volcanics |
| **GEOSIS** | DME - corporate digital geoscientific information system. |
| **GRC** | Gawler Craton (Palaeoproterozoic-Archaean rocks). |
| **GEOCHEM** | DME Geochemical Analyses Database. (**GEOSIS**) |
| **IGSN** | International Gravity Standard Network. |
| **LIMIN_CD** | Codes for common minerals and lithologies used in **DH_LOG**. (**SSDB**) |
| **MEIS** | DME Mineral Exploration Index Series data tables & 1:250,000 scale maps. |
| **REGMAP** | Regional mapping field data management and coding system - Qld. Geol. Svy. |
| **RS** | DME Rock Sample Database. (**GEOSIS**) |
| **SA_GEOLOGY** | DME geological map generating GIS. (**GEOSIS**) |
| **SASTRAT** | DME Stratigraphic Coding & Definition Database. (**GEOSIS**) |
| **SSDB** | DME Stuart Shelf Database (**GEOSIS** independent) |
| **SS_STRAT** | Stuart Shelf Basement Project Stratigraphic Code List. (**SSDB**) |

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SOUTH AUSTRALIAN DEPARTMENT OF MINES AND ENERGY

REGIONAL GEOLOGY BRANCH

# STUART SHELF BASEMENT PROJECT

## PHASE I REPORT

## A P P E N D I X 1.1

DH_LIST - Listing of DH_INDEX Drillholes

| Map Sheet | Unit No. | Drillhole Name | | Sponsor | Licence | | Total Depth (m) | Pre-Pandurra Basement? |
|---|---|---|---|---|---|---|---|---|
| 5837 | 262 | BDH | 1 | Samedan | EL | 399 | 219.7 | Y |
| 5837 | 263 | BDH | 2 | Samedan | EL | 693 | 361.1 | Y |
| 5837 | 264 | BDH | 3 | Samedan | EL | 693 | 500 | Y |
| 5936 | 117 | BB | 1 | Carpentaria | EL | 458 | 94 | Y |
| 5936 | 118 | BB | 2 | Carpentaria | EL | 458 | 200 | Y |
| 5936 | 119 | BB | 3 | Carpentaria | EL | 458 | 280 | Y |
| 5936 | 120 | BB | 4 | Carpentaria | EL | 458 | 304 | Y |
| 5937 | 10 | SR | 7 | Newmont | EL | 305 | 67.2 | Y |
| 5937 | 13 | SR | 9 | Newmont | EL | 305 | 90.5 | Y |
| 5937 | 60 | EBA | 3 | Carpentaria | EL | 390 | 400 | N |
| 6035 | 68 | CD | 1 | Dampier | EL | 321 | 150 | N |
| 6037 | 145 | DP | 1 | Esso | EL | 600 | 616.6 | Y |
| 6037 | 146 | DP | 2 | Esso | EL | 600 | 860 | N |
| 6037 | 147 | EBA | 1 | Carpentaria | EL | 390 | 400 | N |
| 6037 | 148 | EBA | 2 | Carpentaria | EL | 390 | 400 | N |
| 6038 | 39 | SR | 1 | Newmont | EL | 304 | 171 | Y |
| 6134 | 32 | MH | 1 | Dampier | EL | 322 | 154.44 | Y |
| 6134 | 33 | KGB | 1 | Afmeco | EL | 708 | 162 | Y |
| 6134 | 34 | KGB | 2 | Afmeco | EL | 708 | 43.5 | Y |
| 6134 | 35 | KGB | 3 | Afmeco | EL | 708 | 34 | N |
| 6134 | 36 | KGB | 4 | Afmeco | EL | 708 | 269 | Y |
| 6135 | 99 | LH | 1 | Dampier | EL | 298 | 443.2 | N |
| 6135 | 100 | LH | 2 | Dampier | EL | 298 | 507.15 | N |
| 6136 | 91 | SSR | 1001 | Aquitaine | EL | 1015 | 499.5 | N |
| 6137 | 52 | RL | 1 | Shell | EL | 774 | 674.4 | N |
| 6137 | 55 | PEE | 1 | Kennecott | EL | 333 | 655.6 | N |
| 6138 | 50 | SR | 6 | Newmont | EL | 335 | 889.55 | N |
| 6139 | 34 | SR | 12 | Newmont | EL | 327 | 302 | N |
| 6139 | 35 | SR | 13 | Newmont | EL | 341 | 900.27 | N |
| 6233 | 13 | FH | 5 | Afmeco | EL | 713 | 174 | Y |
| 6233 | 14 | FH | 1 | Afmeco | EL | 713 | 132 | Y |
| 6233 | 15 | FH | 2 | Afmeco | EL | 713 | 48 | Y |
| 6233 | 16 | FH | 3 | Afmeco | EL | 713 | 87 | N |
| 6233 | 17 | FH | 4 | Afmeco | EL | 713 | 180 | Y |
| 6233 | 18 | SAD | 1 | Aust Selection | EL | 302 | 251.25 | Y |
| 6233 | 19 | PDH | 1 | Aust Selection | EL | 302 | 68 | N |
| 6233 | 20 | PDH | 4 | Aust Selection | EL | 302 | 82 | N |
| 6233 | 21 | PDH | 6 | Aust Selection | EL | 302 | 224 | Y |
| 6233 | 22 | PDH | 8 | Aust Selection | EL | 302 | 60 | N |
| 6233 | 23 | PDH | 12 | Aust Selection | EL | 302 | 191 | N |
| 6234 | 21 | PIL | 12 | Aust Selection | EL | 301 | 156 | Y |
| 6234 | 22 | PIL | 13 | Aust Selection | EL | 301 | 390 | Y |
| 6234 | 23 | PIL | 14 | Aust Selection | EL | 301 | 302 | Y |
| 6234 | 24 | PIL | 15 | Aust Selection | EL | 301 | 160 | Y |
| 6234 | 25 | PIL | 16 | Aust Selection | EL | 301 | 324 | Y |
| 6235 | 42 | WOOM | 1 | Clarence River | OEL | 12 | 611 | N |
| 6235 | 77 | VG | 1 | CSR | EL | 951 | 1095 | Y |
| 6235 | 78 | WID | 1 | WMC | EL | 1316 | 1015.1 | Y |
| 6236 | 66 | CSD | 1 | WMC | EL | 1316 | 994.2 | Y |
| 6236 | 67 | HHD | 1 | WMC | EL | 1316 | 1186.2 | Y |
| 6236 | 68 | TWN | 1 | WMC | EL | 1316 | 700.8 | Y |
| 6236 | 69 | TWN | 2 | WMC | EL | 1316 | 545.6 | Y |
| 6236 | 70 | TWN | 3 | WMC | EL | 1316 | 641.1 | Y |
| 6236 | 71 | HHD | 2 | WMC | EL | 1316 | 364 | N |
| 6236 | 72 | CRD | 1 | WMC | EL | 1316 | 118 | N |
| 6236 | 73 | ACD | 1 | WMC | | | 1097.6 | Y |
| 6236 | 74 | ACD | 2 | WMC | | | 915 | Y |
| 6236 | 75 | ACD | 4 | WMC | | | 848 | Y |
| 6236 | 76 | ACD | 5 | WMC | | | 687 | Y |
| 6236 | 77 | ACD | 7 | WMC | | | 978.8 | Y |
| 6236 | 78 | ACD | 9 | WMC | | | 877 | Y |
| 6236 | 79 | ACD | 10 | WMC | | | 807.5 | Y |
| 6236 | 80 | ACD | 18 | WMC | | | 851 | Y |
| 6236 | 81 | WRD | 1 | WMC | | | 982.8 | Y |
| 6237 | 15 | BD | 1 | WMC | EL | 1338 | 941 | Y |
| 6237 | 16 | BD | 2 | WMC | EL | 1338 | 829.4 | Y |
| 6237 | 17 | RD | 16 | WMC | | | 1318.9 | Y |
| 6238 | 6 | FHD | 1 | WMC | EL | 1316 | 743.8 | N |
| 6238 | 7 | SR | 17 | Newmont | EL | 335 | 1500 | Y |
| 6332 | 614 | EX | 165 | CSR | EL | 534 | 160 | Y |
| 6333 | 52 | TR | 3 | Dampier | EL | 654 | 400.4 | Y |
| 6333 | 53 | EX | 31 | Mt Gunson | EL | 50 | 54.9 | Y |
| 6333 | 54 | EX | 32 | Mt Gunson | EL | 50 | 42.7 | Y |
| 6333 | 55 | EX | 33 | Mt Gunson | EL | 50 | 89.9 | Y |
| 6333 | 56 | EX | 34 | Mt Gunson | EL | 50 | 38.1 | Y |

| Map Sheet | Unit No. | Drillhole Name | | Sponsor | Licence | | Total Depth | Pre-Pandurra Basement? |
|---|---|---|---|---|---|---|---|---|
| 6333 | 147 | EX | 38 | Mt Gunson | EL | 50 | 56.4 | Y |
| 6333 | 148 | EX | 97 | Mt Gunson | EL | 50 | 17 | Y |
| 6333 | 149 | EX | 100 | Mt Gunson | EL | 50 | 9 | Y |
| 6333 | 150 | EX | 105 | Mt Gunson | EL | 50 | 18 | Y |
| 6333 | 151 | EX | 108 | Mt Gunson | EL | 50 | 33 | Y |
| 6333 | 152 | EX | 114 | Mt Gunson | EL | 50 | 18 | Y |
| 6333 | 153 | EX | 169 | CSR | EL | 534 | 40 | Y |
| 6333 | 154 | EX | 171 | CSR | EL | 534 | 72 | Y |
| 6333 | 155 | EX | 182 | CSR | EL | 534 | 120 | Y |
| 6333 | 156 | EX | 162 | Pacminex | EL | 332 | 196 | N |
| 6334 | 55 | SAR | 1 | Aust Selection | EL | 226 | 169.07 | N |
| 6334 | 56 | SAR | 5 | Aust Selection | EL | 226 | 199.8 | N |
| 6334 | 57 | SAR | 6 | Aust Selection | EL | 226 | 243.2 | N |
| 6334 | 58 | SAR | 7 | Aust Selection | EL | 389 | 665 | Y |
| 6334 | 59 | SAR | 8 | Aust Selection | EL | 389 | 1338 | Y |
| 6334 | 60 | SAR | 9 | Aust Selection | EL | 676 | 1246 | Y |
| 6335 | 92 | EC | 45 | CSR | EL | 543 | 128 | Y |
| 6335 | 93 | EC | 43 | CSR | EL | 543 | 159 | Y |
| 6335 | 94 | EC | 40 | CSR | EL | 543 | 596 | Y |
| 6335 | 95 | EC | 47 | CSR | EL | 543 | 370.95 | Y |
| 6335 | 96 | EC | 48 | CSR | EL | 543 | 272 | Y |
| 6335 | 97 | EC | 49 | CSR | EL | 543 | 240 | Y |
| 6335 | 98 | EC | 51 | CSR | EL | 543 | 292 | Y |
| 6335 | 99 | EC | 35 | CSR | EL | 543 | 400 | Y |
| 6335 | 100 | EC | 21 | CSR | EL | 543 | 1002 | Y |
| 6335 | 101 | PY | 1 | CSR | EL | 543 | 1293.3 | Y |
| 6335 | 102 | PY | 2 | CSR | EL | 543 | 926.6 | Y |
| 6335 | 103 | PY | 3 | CSR | EL | 951 | 1288.3 | Y |
| 6335 | 104 | PY | 4 | CSR | EL | 951 | 1015 | Y |
| 6335 | 105 | SAR | 2 | Aust Selection | EL | 226 | 415.2 | N |
| 6335 | 106 | SAR | 3 | Aust Selection | EL | 226 | 286.44 | N |
| 6335 | 107 | SAR | 4 | Aust Selection | EL | 226 | 333.4 | N |
| 6335 | 108 | PRL | 22 | Aust Selection | EL | 389 | 276 | N |
| 6335 | 109 | PL | 32 | Pacminex | EL | 199 | 263.8 | N |
| 6335 | 110 | HUD | 1 | WMC | EL | 1316 | 483 | Y |
| 6335 | 111 | ASD | 1 | WMC | EL | 1316 | 1118 | Y |
| 6335 | 112 | ASD | 2 | WMC | EL | 1316 | 1148.4 | Y |
| 6335 | 113 | AD | 8 | WMC | EL | 1316 | 1000.2 | Y |
| 6335 | 114 | HUD | 2 | WMC | EL | 1316 | 396.3 | Y |
| 6335 | 115 | AD | 2 | WMC | EL | 1316 | 829 | Y |
| 6335 | 116 | EC | 50 | CSR | EL | 543 | 256 | N |
| 6335 | 117 | SASC | 4 | Carpentaria | EL | 1170 | 1250 | Y |
| 6336 | 41 | DRD | 1 | WMC | EL | 1316 | 1192 | Y |
| 6336 | 42 | HWD | 1 | WMC | EL | 1316 | 1097 | Y |
| 6336 | 43 | RED | 1 | WMC | EL | 1338 | 410 | Y |
| 6336 | 44 | RED | 2 | WMC | EL | 1338 | 686.9 | Y |
| 6336 | 45 | WLD | 1 | WMC | EL | 1338 | 445.5 | Y |
| 6337 | 55 | SHD | 1 | WMC | EL | 1316 | 965 | Y |
| 6337 | 56 | SCYW | 1 | Amoco | EL | 520 | 1450 | N |
| 6337 | 57 | BLD | 1 | WMC | EL | 1338 | 768 | Y |
| 6337 | 58 | BLD | 2 | WMC | EL | 1338 | 860.25 | Y |
| 6337 | 59 | BLD | 3 | WMC | EL | 1338 | 1024 | Y |
| 6337 | 60 | BLD | 4 | WMC | EL | 1316 | 1037 | N |
| 6432 | 798 | SAU | 3 | Aust Selection | EL | 187 | 494 | Y |
| 6433 | 33 | SAU | 1 | Aust Selection | EL | 187 | 275.35 | Y |
| 6434 | 30 | BDH | 2 | Aquitaine | EL | 206 | 553.1 | N |
| 6434 | 31 | BDH | 3 | Aquitaine | EL | 582 | 1200 | Y |
| 6434 | 32 | SLT | 107 | Aquitaine | EL | 582 | 1099 | Y |
| 6434 | 33 | YAD | 1 | Urangesellschaft | EL | 582 | 655.6 | N |
| 6434 | 34 | WHD | 1 | WMC | EL | 1316 | 683.53 | Y |
| 6434 | 35 | SLT | 101 | Aquitaine | EL | 370 | 1405.6 | Y |
| 6434 | 36 | SLT | 102 | Aquitaine | EL | 370 | 644 | N |
| 6434 | 37 | SLT | 103 | Aquitaine | EL | 370 | 750.5 | Y |
| 6434 | 38 | SLT | 106 | Aquitaine | EL | 582 | 1449 | Y |
| 6434 | 39 | SLT | 104 | Aquitaine | EL | 370 | 836 | N |
| 6435 | 5 | NHD | 1 | WMC | EL | 1316 | 643.2 | Y |
| 6436 | 6 | MRD | 1 | WMC | EL | 1316 | 918 | Y |
| 6436 | 11 | WWD | 1 | WMC | EL | 1316 | 762.1 | N |
| 6436 | 14 | TD | 1 | WMC | EL | 1338 | 498 | Y |
| 6436 | 15 | TD | 2 | WMC | EL | 1338 | 881 | Y |
| 6436 | 16 | TD | 3 | WMC | EL | 1338 | 733.4 | Y |

SOUTH AUSTRALIAN DEPARTMENT OF MINES AND ENERGY

REGIONAL GEOLOGY BRANCH

STUART SHELF BASEMENT PROJECT

PHASE I REPORT

# A P P E N D I X 1.2

Data Input Formats

$

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** HOLE NO:

MAP:[4] ---- UNIT:[6] -----. NAME:[20] ____]____]____]____] SEQ. NO:[4] ---- CLASS:[2] --

CONFIDENTIAL STATUS (O/C):[1] O PROVINCE CODES:[9] __]__]__] LEASE:[3*5*1] ---*----*-

SPONSOR CODE:[4] ---- SPONSOR:[45] ____]____]____]____]____]____]____]____]____]____]____]

REFERENCE:[40] ____]____]____]____]____]____]____]____ SAMREF CNO:[7] ------.

OTHER NAME:[30] ____]____]____]____]____]____] REF. TYPE:[3*3] COR*ENV No:[10] -----*----.

TARGET COMMODITY:[12] --*--*--*-- TOTAL DEPTH:[7] ----.-- m COMPLETION DATE:[10] --/--/19--

CLASS = (WW-Water Well, MW=Mineral Well, SW=Stratigraphic Well, EW=Engineering Well, PW=Petroleum Well), TARGET COMMODITY = (BM=basemetals, CO=Coal, PE=Petroleum, GS=Gemstones, WA=Water, ST=Stratigraphy, PH=Phosphate, DI=Diamonds, RE=Rare Earth Elements, EM=Extractive Minerals, or Elemental Symbols: Separated by spaces: four max.) REF. TYPE = (COR=Company Report, SAD=SADME Source,* ENV=Envelope, RB=Report Book, MIQ=Mining Ind, Qtly., MRR=Min. Res. Rev., QGN=Qtly. Geol. Notes, BUL=Bulletin, DME=SADME Docket)

DRILLTECH:[3] --- SAMPLE: TYPE 1:[1] - LENGTH:[4] ---- TYPE 2:[1] - LENGTH:[4] ---. LOCATION:[2] -*-

DRILLTECH = (Dia=Diamond, Rot=Rotary, RtA=Rotary Air, RtH=Rotary Hammer, RAB=Rotary Air Blast, RtM=Rotary Mud, RBC=Rotary with Bottom Core, PrD=Percussion Diamond Precoll., RmD=Rotary Mud Diamond Precoll.,Rc=Reverse Circulation, RcA=Reverse Circulation Aircore, CAB=Cable Tool, AUG=Auger, HdA=Hand Auger, HDg= Hand Dug) SAMPLE TYPES = (C=Cored, P=Part Cored, S=Spot Cored, M=Mud/sludge/cuttings) LENGTH (metres) LOCATON = (G=Glenside, M=Moonta, W=Whyalla, C=Company Storage, D=Discarded)

*Either:*

EASTING:[9] ------.-- NORTHING:[10] --------.-- ZONE:[2] 53 ZONE AZ:[3] -.-- LOCATION ACCURACY:[1] -

*Or:*

*LATITUDE:*[8] --.--*-- *LONGITUDE:*[9] ---.--*-- *GRID (ANS/CLK):* --- DNHOLE ORIENTATn. SURVY:[1] -

DIP ANGLE:[4] — 90.0 AZIMUTH (True):[5] ---.- *Local Grid:* ---.-*- *(Lnorth-> T):* ---.-

LOCATION ACCURACY = (S=Surveyed, O=Orthophoto Plot, P=Plotted, E=Estimated) AZIMUTHS (Local Grid) nnn.n*Chr.=(M=Magnetic,T=True, A=AMG L=Local Grid) DOWN HOLE SURVEY =(N=None, A=Acid Test, T=Trupari, C=Camera)

ELEVATION:[7] — -----.-- HUNDRED:[4] ---- SECTION:[4] ---- STATUS:[6] --*--*--

STATUS = (BF=Backfilled, CP=Capped, PL=Plugged, CE=Cemented Plug, CA=Cased, ST=Steel Cased, PV=PVC cased, UK=Unknown, OP=Open, CO=Collapsed, **NP=Nuclear Probe in hole**, SH=Steel in hole, AB=Abandonned, DM=Domestic, SD=Stock & Domestic, SK=Stock, NU=Not in Use, UQ=Unequipped, DR=Dry hole, MI=Mined, SM=Solution Mining, PS=Piesometer, HM=Hydromonitor.)

GEOL LOG EXISTS:[1] - LOGGED BY:[4] ---- GEOLOG REF:[25] ENV\]____]____]____]_____

LOG EXISTS = (N=None, B=Brief, D=Detailed), LOGGED BY = (GEOL=Geologist, DRIL=Driller, FLDA=Field Assistant)

GROUND (Targetting) SURVEYS:[3] --- GEOPHYS.(Down Hole):[2] -- GEOCHEMISTRY:[1] - PETROLOGY:[1] -

WATER:[2] -- PALAEONTOLOGY:[1] - METALLURGY:[1] - GEOCHRONOLOGY:[1] - OTHER:[13] ____]____]___ :[1] -

Responses Y/N except GROUND SVY = (M=Geol. Mapping, G=Geochem, P=Geophys.), GEOPHYS = (N, L=Dhole Logger, C=Core, S=Sample Cuttings,
WATER = (N, H=Hydrological, A=Hydrochemical) REF.=(ENV=Envelope, P=page no., F=figure no.)

GROUND SURVEY REF:[25] ____]____]____]____]_____ GEOPHYS DH. REF:[25] ____]____]____]____]____

GEOCHEMISTRY REF:[25] ____]____]____]____]_____ PETROLOGY REF:[25] ____]____]____]____]_____

OTHER:[10] ____]____] REF:[25] ____]____]____]____]_____ GEOCHRONOLOGY REF:[13] ____]____]___

COMMENTS:[75] ____]____]____]____]____]____]____]____]____]____]____]____]____]____]_____

CHECKED:[13] ____]____]___ DATE:[8] --/--/-- UPDATE:[13] ____]____]___ DATE:[8] --/--/--

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

SOUTH AUSTRALIAN DEPARTMENT OF MINES AND ENERGY

REGIONAL GEOLOGY BRANCH

STUART SHELF BASEMENT PROJECT

PHASE I REPORT

# A P P E N D I X 2.1

DH_INDEX - Field Descriptions

APPENDIX 2.1

DH_INDEX - Field Descriptions

The DH_INDEX file has 70 fields. A header, listing recommended field size, 10 character dBASE compatible field name and corresponding printout field names in both column and row format is incuded in both the DH_INDEX.WK1 & .TXT files (Appendices 4.1 & 4.2).

The DH_INDEX printouts in Appendix 3.4 have 65 fields of which some are combinations of the DH_INDEX file fields. The fields for DH_INDEX are described in this Appendix and the data codes are listed in Appendices 2.2 (DH_IDXCD) and 2.3 (AESIS).

The fields listed below are presented with the following format:-

NAME: (N,Td)
*tabl_fldnm* Description

where-

NAME: = Field name as used in DH_INDEX printout. (Appendices 1.1 & 2.4).
Double underlines means key definition field used in DHDB and to compile DH_INDEX file table.
Single underline means the data in this field is used to compile the DH_INDEX file table.
Some fields are compound.

(N,Td) = N = field size - includes spaces, ± signs and decimals.
T = field status - M = Mandatory, O = Optional, R = Recommended
d = data type - c = character, i = integer, r = real number

*tabl_fldnm* = Field name used in DH_INDEX file table (10 character, dBASE-compatibile).

Description = Explanatory text.

***Field Descriptions :-***

MAP: (4,Mi)
*map_sheet* 1:100,000 map sheet within which the drillhole is located eg 6335 = Arcoona sheet.

UNIT: (6,Mi)
*unit_no* Sequential no. serially issued from the DHDB for drillholes within each 1:100,000 map sheet.

MAPUNO: (10,Ac)
*map_uno* Field generated by:- MAPUNO: = MAP NO: + UNIT NO: to provide a single unique identifier. MAPUNO: is unsuitable for ASCII sorting of data records into 1:100,000 mapsheets because UNIT NO: is defined without leading zeros.

NAME: (20,Mc)
*dh_name* Text portion of the drillhole name commonly used in the literature, eg. "SLT" from drillhole SLT-6 (See also OTHER NAME field).

SEQ. NO: (4,Mi)

*dh_seqno* The numeric portion of the drillhole name, commonly a sequential number (eg "6" part of SLT-6).

CLASS: (2,Oc)

*dh_class* A text code used to identify the original purpose of the drillhole (eg. MW for mineral exploration well).

CONFIDENTIAL STATUS: (1,Mc)

*confdntl* To flag the confidentiality status of the drillhole.

PROVINCE CODES: (11,Oc)

*province* Provision for specifying up to 3, 3-character geological province codes for province-based drillhole searches (eg. SSH for Stuart Shelf).

LEASE: (3,Mc:4,Mi:1,Oc)

*lease_type* A 3 character field used to specify the class of land title tenure authority under which the drilling was carried out. Commonly this is an exploration or mining title but could also be a freehold title deed or a Crown allotment/lease (eg. EL for Exploration Licence).

*lease_no* A 4 digit field to specify the title number current at the time the drillhole or its' pre-collar was spudded (eg. "1000" of EL 1000A).

*lease_sufx* A single character field for a suffix to designate a portion of a partitioned title when relevant (eg. "A" of EL 1000A).

SPONSOR CODE: (4,Mc)

*sponsor_cd* From the national AESIS sponsor code set. The sponsor is the proponent, manager and reporter of the drilling operation. These codes are stored in Appendix 2.3.

REFERENCE: (40,Mc)

*reference* For the purpose of identifying the first technical report/document that is known to refer to the actual drilling of the hole (eg. 5th Quarterly Report EL 1000A).

SAMREF CNO: (7,Ri)

*samref_no* DME library bibliographic database (SAMREF) control number for REFERENCE:. SAMREF subscribers have on-line access to summaries of exploration activity.

OTHER NAME: (30,Oc)

*other_name* Any other name for the drillhole or its' pre-collar (eg. PDH-7 = PRECOLLAR).

REF. TYPE: (3,Mc:3,Mc)

*ref_origin ref_doctyp* The first field specifies the class/origin of the technical drilling report (eg. COR = Company Report). The second field specifies the form of the reference (eg. ENV = DME Exploration Envelope).

No: (5,Mi:5,Mi)

*doc_no1 doc_no2* Fields for the recording of reference numbers for up to two similar documents (eg. "2992" of ENV 2992).

TARGET COMMODITY: (12,Oc)

*target* Up to four two-character codes to indicate the drillholes' original target commodity (eg. BM = Base Metals).

TOTAL DEPTH: (7,Mr:1,Mc)

*ttl_depth unit_meas* Two fields for the recording of the last documented maximum depth to two decimal places and the unit of measurement used throughout the drillhole record. M represents metres, as used universally in DH_INDEX and F represents feet measurements.

COMPLETION DATE: (10,Mc)

*completed* The date of final drilling completion in dd/mm/yyyy format (eg. 29/05/1987). Where this is imprecisely known the day and/or month can be left blank or filled with "?".

DRILLTECH: (3,Mc)

*method* Used to specify the primary technique(s) employed during drilling (eg. PrD = Percussion precollar-diamond).

SAMPLE: (1,Oc:4,Oi:1,Oc:4,Oi)

TYPE 1: LENGTH:

*samp_typ1 samp_lng1* Field set for storing the drilling sampling method statistics. Aggregate

TYPE 2: LENGTH meterage (footage) to the nearest whole unit (eg. C=cored, 60 = sum of cored

*samp_typ2 samp_lng2* intervals was 60 m).

LOCATION: (2,Oc)

*storage* Two single-character codes to record up to two sample material storage locations (eg. G = DME Glenside Core Library).

EASTING: (9,Mr)

*amg_east* Australian Map Grid - Easting coordinate to two decimal places (meters).

NORTHING: (10,Mr)

*amg_north* Australian Map Grid - Northing coordinate to two decimal places (meters).

ZONE: (2,Mi)

*amg_zone* Australian Map Grid - Zone number.

MSG CONV: (3,Oc)

*amg_conv* Designed to accommodate mean AMG ZONE AZIMUTH CONVERGENCE for the relevant 1:100,000 map sheet as expressed in degrees & minutes (eg. 105 = 1°05').

LOCATION ACCURACY: (1,Mc)

*locn_acc* A code to specify the method/accuracy of the collar coordinate positioning (eg. O = orthophoto plot).

LATITUDE: (10,Mr)

*latitude* Decimal degrees of south latitude to 5 significant figures.

LONGITUDE: (10,Mr)

*longitude* Decimal degrees of longitude to 5 significant figures.

GRID (ANS/CLK): (3,Rc)

*geod_grid* Used to specify the geodetic survey grid coordinates (Lat./Long.) of the source plan (AMG plans are ANS based).

DOWN HOLE ORIENTATION SURVEY: (1,Oc)

*orientsvy* Used to flag the existence and type of any down hole orientation survey (eg. C = down hole camera system).

DIP ANGLE: (6,Mr)

*declinatn* Drillhole collar orientation relative to horizontal in decimal degrees. Default specification is vertically downwards ie. - 90.0 (note negative sign).

AZIMUTH (True): (5,Mr)

*azimuth* Horizontal drillhole collar orientation clockwise with respect to true north in decimal degrees to one significant figure. Default is blank for vertical drillholes.

ELEVATION: (8,Mr)

*elevation* The drillhole collar elevation measured to Australian Height Datum 1971 (AHD) in meters to two significant figures. A negative sign is used for elevations below AHD (Mean Sea Level = 0 AHD).

HUNDRED: SECTION: (4,Oc:4,Oc)

*hundred section* Pair of fields for providing cadastral plan reference codes when relevant.

STATUS: (8,Mc)

*status* Provision for up to three two-character codes used to describe the last known condition of the drillhole (eg. CA CO = cased and collapsed).

GEOL LOG EXISTS: (1,Mc)

*geol_log* A flag pointing to the existence of a geological log (eg. Y = exists, N= none, - not known).

LOGGED BY: (4,Mc)

*geol_recd* A code to indicate the technical skills level used to generate the geological log. (eg. GEOL = geologist)

GEOLOG REF: (25,Rc)

*geol_ref* A field for recording the source reference document for the geological log (eg. ENV 2992 P25 F-1 : see note below).

GROUND (Targeting) SURVEYS: (3,Rc)

*groundsvys* Provision for up to three single-character codes to designate the types of surface exploration surveys used to develop the drillhole target (eg. M = geological mapping).

GEOPHYS.(Down Hole): (2,Mc)

*dnhlgeophy* One or two single-character codes to flag the existence and type of geophysical measurements taken (eg. C = Core test).

GEOCHEMISTRY: PETROLOGY: (1,Oc:1,Oc)

*geochmstry petrology* Flags to the existence of geochemical and/or petrological data (eg Y = exists).

WATER: (2,Oc)

*water_test* One or two single character codes to flag the existence of bore water tests (eg. A = Hydrochemical tests).

PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: (1,Oc:1,Oc:1,Oc)

*palaeontol metallurg geochron* Flags to the existence of one or more of palaeontological, metallurgical or geochronological studies.

OTHER: (13,Oc:1,Oc)

*othr_topic* Provision for recording the existance of surveys or sample tests other than those listed above (eg. SOIL, GAS)

GROUND SURVEY REF: GEOPHYS DH. REF: GEOCHEMISTRY REF: (25,Oc:25,Oc:25,Oc)

*grndsvyref dnhlgphref geochmref*

PETROLOGY REF: GEOCHRONOLOGY REF: (25,Oc:13,Oc)

*petrlgyref geochrnref*

Fields referencing the source documents for surveys and sample tests performed (eg. ENV 2992 P25 F-1). For DH_INDEX reference fields the data entry format is :- ENV nnnn = DME envelope number and Pnn, F-nn refer to page and figure/plan numbers respectively.

OTHER: (10,Oc) REF: (25,Oc)

*othr_topic** *other_ref* Fields to identify and reference a survey or sample test not mentioned in the above listing. The survey/test reference follows the convention listed above.

COMMENTS: (75,Oc)

*comments* Provided for free-hand notes on any aspect of the drillhole (eg. "Hole deepened by wedge from 230 m due to poor ground.")

CHECKED: (13,Rc) DATE: (8,Rc)

*init_author init_date*

UPDATE: (13,Rc) DATE: (8,Rc)

*upd_author last_update* Information regarding the currency of the coding, when it was last reviewed and by whom. (eg. J.L. Curtis , 28/11/92 ).

SOUTH AUSTRALIAN DEPARTMENT OF MINES AND ENERGY

REGIONAL GEOLOGY BRANCH

STUART SHELF BASEMENT PROJECT

PHASE I REPORT

# A P P E N D I X 2.2

## DH_IDXCD - List of Data Sheet Codes

**DH_IDXCD - List of Data Sheet Codes**

| | | |
|---|---|---|
| CLASS | WW | Water Well |
| | MW | Mineral Well |
| | SW | Stratigraphic Well |
| | EW | Engineering Well |
| | PW | Petroleum Well |
| | EM | Environmental Monitoring Well |
| CONFIDENTIAL STATUS | O | Open File - Free public access |
| | C | Closed File - Proprietory Data |
| PROVINCE CODES: | SSH | Stuart Shelf Neoproterozoic Seq. |
| | GRP | Gawler Range Post Kimban Seq. |
| | GCR | Gawler Craton Pre Kimban Seq. |
| LEASE: | EL | Exploration Licence |
| | SML | Special Mineral lease |
| | RL | Retention Lease |
| | ML | Mining lease |
| | MPL | Miscellaneous Purposes Licence |
| | EML | Extractive Minerals Lease |
| SPONSOR CODE: | National AESIS corporate listing as availble from the Australian Mineral Foundation. (see Appendix 2.3) | |
| REF. TYPE | | |
| Origin:- | COR | Company Report |
| | SAD | DME Source |
| | GSO | Geological Society of Aust. |
| | AIM | Aus. Inst. Min. Met. |
| DME Types:- | ENV | Envelope |
| | RB | Report Book |
| | MIQ | Mining Industry Quaterly. |
| | MRR | Mineral Resources Review |
| | QGN | Quartely Geological Notes |
| | BUL | Bulletin |
| | DME | DME Docket |
| General Types :- | PUB | Publication |
| | PRO | Proceedings |
| | CON | Conference Papers |
| | MON | Monograph |
| TARGET COMMODITY | BM | Basemetals- Cu, Pb, & Zn |
| | CO | Coal |
| | PE | Petroleum |
| | GS | Gemstones |
| | WA | Water |
| | ST | Stratigraphy |
| | PH | Phosphate |
| | DI | Diamonds |
| | RE | Rare Earth Elements |
| | EM | Extractive Minerals, |
| | xx | Elemental Symbols of choice, eg Au, |

| | | |
|---|---|---|
| TOTAL DEPTH | m | metres |
| | f | feet |
| DRILL TECHNIQUES | Dia | Diamond |
| | Rot | Rotary |
| | RtA | Rotary Air |
| | RtH | Rotary Hammer |
| | RAB | Rotary Air Blast |
| | RtM | Rotary Mud |
| | RBC | Rotary with Bottom Core |
| | PrD | Percussion precollared Diamond |
| | RmD | Rotary mud precollared Diamond |
| | Rc | Reverse circulation |
| | RcA | Reverse circulation Aircore |
| | CAB | Cable Tool |
| | AUG | Auger |
| | HdA | Hand Auger |
| | HDg | Hand Dug Excavation |
| | SHF | Shaft/Rise |
| | RcD | Reverse Circulation precol. Diamond |
| | PrC | Percussion with Spot Core |
| | RmC | Rotary Mud with Spot Core |
| SAMPLE TYPES | C | Cored |
| | P | Part Cored |
| | S | Spot Cored |
| | M | Mud/sludge/cuttings |
| LOCATION | G | Glenside Central Core Library |
| | M | Moonta Regional Core Library |
| | W | Whyalla Regional Core Library |
| | C | Company Storage Facilities |
| | D | Discarded |
| LOCATION ACCURACY | - | Not known |
| | S | Surveyed-conventional |
| | G | Global Positioning Satelite System |
| | O | Orthophoto Plot |
| | P | Plotted |
| | E | Estimated |
| AZIMUTHS (Local Grid) | M | Magnetic |
| | T | True |
| | A | AMG |
| | L | Local Grid relative only |
| GRID | ANS | Aust. Nat. Survey 1966 (Aust. Geodetic Datum 1966 & Aust. Height Datum 1971) |
| | CLK | Clarke Nat. Survey Grid 1858 (Clarke Spheroid) |
| DOWN HOLE SURVEY (ORIENATATION) | - | Not known |
| | N | None |
| | A | Acid Test |
| | T | Trupari |
| | C | Camera System |
| STATUS | UK | Unknown |
| | BF | Backfilled |

| | | |
|---|---|---|
| | CP | Capped |
| | PL | Plugged |
| | CE | Cemented Plug |
| | CA | Cased |
| | ST | Steel Cased |
| | PV | PVC cased |
| | OP | Open |
| | CO | Collapsed |
| | NP | Nuclear Probe in hole |
| | SH | Steel in hole |
| | AB | Abandoned |
| | DM | Domestic water bore |
| | SD | Stock & Domestic water bore |
| | SK | Stock water bore |
| | NU | Not in Use - water bore |
| | UQ | Unequipped water bore |
| | DR | Dry hole - water bore |
| | MI | Mined - destroyed by mining |
| | SM | Solution Mining Well |
| | PS | Piesometer water table monitor bore |
| | HM | Hydromonitor - enviromental samping |
| | PM | Pollution Monitoring Well |
| GEOL LOG EXISTS | N | None |
| | B | Brief |
| | D | Detailed |
| LOGGED BY | GEOL | Geologist |
| | DRIL | Driller |
| | FLDA | Field Assistant |
| GROUND SURVEYS (Targetting) | M | Geological Mapping/Interpretation |
| | G | Geochemical Survey(s) |
| | P | Geophysical Survey(s). |
| GEOPHYSICS SURVEYS (Down Hole) | - | Not known |
| | N | None |
| | L | Dhole Logger |
| | C | Core |
| | S | Sample Cuttings |
| WATER | N | Not known |
| | H | Hydrological |
| | A | Hydrochemical |

| | | | |
|---|---|---|---|
| GEOCHEMISTRY | ) | | |
| PETROLOGY | ) | - | Not known |
| PALAEONTOLOGY | ) | N | No technical investigations |
| METALLURGY | ) | Y | Technical reports exist |
| GEOCHRONOLOGY | ) | | |
| OTHER ..... | ) | | |

REF___

| | | |
|---|---|---|
| Types: | ENV | DME open-file Envelope |
| | RB | DME Report Book |
| | MIQ | DME Mineral Industy Quarterly |
| | BUL | DME/Geological Survey of South Aust. Bulletin |

reference syntax ENV nnnn Pxxx,xxx F-yy nnnn Pxx

nnnn = envelope/report book no.
Pxx,xxx = page(s) starting
F-yy = plan no(s)

SOUTH AUSTRALIAN DEPARTMENT OF MINES AND ENERGY

REGIONAL GEOLOGY BRANCH

STUART SHELF BASEMENT PROJECT

PHASE I REPORT

# A P P E N D I X 2.3

AESIS Company Code List for DH_INDEX

| | |
|---|---|
| AAM | Aquitaine Australia Minerals Pty Ltd. |
| AFM | Afmeco Pty Ltd. |
| AMA | Amoco Minerals Australia Co. |
| ASP | Australian Selection Pty Ltd. |
| CBP | Clarence River Basin Oil Exploration Co. NL. |
| CEX | Carpentaria Exploration Co Pty Ltd. |
| CSR | CSR Ltd. |
| CSR2 | CSR Ltd - Minerals Division. |
| CSR4 | CSR Ltd - Aluminium, Minerals and Chemicals Division. |
| DMC | Dampier Mining Co Ltd. |
| ESS2 | Esso Australia Ltd. |
| KEX1 | Kennecott Exploration (Australia) Ltd. |
| MGU | Mount Gunson Mines Pty Ltd. |
| NMK1 | Newmont Pty Ltd. |
| PAC | Pacminex Pty Ltd. |
| SDA2 | Shell Company of Australia Ltd. |
| SOA | Samedan of Australia. |
| URA | Urangesellschaft Australia Pty Ltd. |
| WMC4 | Western Mining Corporation. Exploration Division. |

SOUTH AUSTRALIAN DEPARTMENT OF MINES AND ENERGY

REGIONAL GEOLOGY BRANCH

STUART SHELF BASEMENT PROJECT

PHASE I REPORT

# A P P E N D I X 2.4

DH_INDEX - Printout of Data Sheets

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: BDH 1

MAP: 5837 UNIT: 262. NAME: BDH SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR LEASE: EL 399

SPONSOR CODE: SOA SPONSOR: SAMEDAN OF AUSTRALIA

REFERENCE: QTLY REPT ENDING MAY 1980 (EL 399) SAMREF CNO: 1011996

OTHER NAME: REF. TYPE: COR ENV No: 3293 .

TARGET COMMODITY: BM TOTAL DEPTH: 219.70 m COMPLETION DATE: 06/06/1980

DRILLTECH: Dia SAMPLE: TYPE 1: C LENGTH: 220 TYPE 2: LENGTH: . LOCATION: G

EASTING: 491525. NORTHING: 6653150. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 30°15'11.3" LONGITUDE: 134°54'42.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 85.0 AZIMUTH (True): 60. *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 175. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3293 P247,255

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: SEISMIC :

GROUND SURVEY REF: ENV 3293 P28,48 F(II)-8,9 GEOPHYS DH. REF: ENV 3293 P256

GEOCHEMISTRY REF: ENV 3293 P256 PETROLOGY REF:

OTHER: SEISMIC REF: ENV 3293 F(III)-1,(V)-2-6 GEOCHRONOLOGY REF:

COMMENTS: PALYNOLOGY RPT ENV 3293 P566 (SADME RB 815). AMG & ELEV ESTIMATED

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: BDH 2

MAP: 5837 UNIT: 263. NAME: BDH SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 693

SPONSOR CODE: SOA SPONSOR: SAMEDAN OF AUSTRALIA

REFERENCE: FIRST QTLY RPT NOV 1980 (EL 693) SAMREF CNO: 1011996

OTHER NAME: REF. TYPE: COR ENV No: 3293 .

TARGET COMMODITY: BM TOTAL DEPTH: 361.10 m COMPLETION DATE: 06/07/1980

DRILLTECH: RMC SAMPLE: TYPE 1: M LENGTH: 98 TYPE 2: S LENGTH: 263. LOCATION: G

EASTING: 491139. NORTHING: 6651490. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 30°16'05.2" LONGITUDE: 134°54'28.4" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 170. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3293 P252,266

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: SEISMIC :

GROUND SURVEY REF: ENV 3293 P28,48,285 F(II) GEOPHYS DH. REF: ENV 3293 P267

GEOCHEMISTRY REF: ENV 3293 P267 PETROLOGY REF:

OTHER: SEISMIC REF: ENV 3293 P635 F(V)-2-6 GEOCHRONOLOGY REF:

COMMENTS: PALYNOLOGY REF ENV 3293 P566 (SADME RB 815). ELEV & AMG ESTIMATED

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: BDH 3

MAP: 5837 UNIT: 264. NAME: BDH SEQ. NO: 3 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 693

SPONSOR CODE: SOA SPONSOR: SAMEDAN OIL CORPORATION

REFERENCE: QTLY RPT ENDING FEB 1981 SAMREF CNO: 1011996

OTHER NAME: REF. TYPE: COR ENV No: 3293 .

TARGET COMMODITY: BM TOTAL DEPTH: 500.00 m COMPLETION DATE: 12/02/1981

DRILLTECH: RmD SAMPLE: TYPE 1: M LENGTH: 210 TYPE 2: C LENGTH: 290 LOCATION: G

EASTING: 494609. NORTHING: 6653706. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 30°14'56.4" LONGITUDE: 134°56'39.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: A

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 175. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3293 P583,586

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): N GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3293 P571 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 3293 P622,?627 PETROLOGY REF: ENV 3293 P624

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION & ELEV ESTIMATED FROM COMPANY MAP & SADME CONTOUR MAP

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: BB 1

MAP: 5936 UNIT: 117. NAME: BB SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 458

SPONSOR CODE: CEX SPONSOR: CARPENTARIA EXPLORATION COMPANY PTY LTD

REFERENCE: 3RD QTLY RPT DEC 1979 SAMREF CNO: 1008795

OTHER NAME: REF. TYPE: COR ENV No: 3509 .

TARGET COMMODITY: BM TOTAL DEPTH: 94.00 m COMPLETION DATE: 09/11/1979

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 94 TYPE 2: LENGTH: . LOCATION: G

EASTING: 535722. NORTHING: 6600452. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 30°43'41.4" LONGITUDE: 135°22'23.3" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid: . (Lnorth > T):* .

ELEVATION: + 138. HUNDRED: SECTION: STATUS: OP

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3509 P14,16

GROUND (Targetting) SURVEYS: N GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: N

WATER: N PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3509 P17

GEOCHEMISTRY REF: ENV 3509 P16 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION AND ELEVATION FROM KINGOONYA DBASE, COWLEY, 1991

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: BB 2

MAP: 5936 UNIT: 118. NAME: BB SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 458

SPONSOR CODE: CEX SPONSOR: CARPENTARIA EXPLORATION COMPANY PTY LTD

REFERENCE: 3RD QTLY RPT DEC 1979 SAMREF CNO: 1008795

OTHER NAME: REF. TYPE: COR ENV No: 3509 .

TARGET COMMODITY: BM TOTAL DEPTH: 200.00 m COMPLETION DATE: 10/11/1979

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 200 TYPE 2: LENGTH: . LOCATION:

EASTING: 536588. NORTHING: 6608725. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 30°39'12.6" LONGITUDE: 135°22'54.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid: . (Lnorth > T):* .

ELEVATION: + 138. HUNDRED: SECTION: STATUS: OP

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3509 P14,18

GROUND (Targetting) SURVEYS: N GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: H PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3509 P20

GEOCHEMISTRY REF: ENV 3509 P18 PETROLOGY REF: ENV 3509 P34

OTHER: WATER REF: ENV 3509 P8 GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION AND ELEVATION FROM KINGOONYA DBASE, COWLEY, 1991

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: BB 3

MAP: 5936 UNIT: 119. NAME: BB SEQ. NO: 3 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 458

SPONSOR CODE: CEX SPONSOR: CARPENTARIA EXPLORATION COMPANY PTY LTD

REFERENCE: 3RD QTLY RPT DEC 1979 SAMREF CNO: 1008795

OTHER NAME: REF. TYPE: COR ENV No: 3509 .

TARGET COMMODITY: BM TOTAL DEPTH: 280.00 m COMPLETION DATE: 15/11/1979

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 280 TYPE 2: LENGTH: . LOCATION: G

EASTING: 542155. NORTHING: 6615443. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 30°35'33.7" LONGITUDE: 135°26'23.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid: . (Lnorth > T):* .

ELEVATION: + 150. HUNDRED: SECTION: STATUS: AB SH

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3509 P14,22

GROUND (Targetting) SURVEYS: N GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: N

WATER: H PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3509 P25

GEOCHEMISTRY REF: ENV 3509 P22 PETROLOGY REF:

OTHER: WATER REF: ENV 3905 P8 GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION AND ELEVATION FROM KINGOONYA DBASE, COWLEY, 1991

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: BB 4

MAP: 5936 UNIT: 120. NAME: BB SEQ. NO: 4 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 458

SPONSOR CODE: CEX SPONSOR: CARPENTARIA EXPLORATION COMPANY PTY LTD

REFERENCE: 3RD QTLY RPT DEC 1979 SAMREF CNO: 1008795

OTHER NAME: REF. TYPE: COR ENV No: 3509 .

TARGET COMMODITY: BM TOTAL DEPTH: 304.00 m COMPLETION DATE: 19/11/1979

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 304 TYPE 2: LENGTH: . LOCATION: G

EASTING: 539649. NORTHING: 6612742. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 30°37'01.7" LONGITUDE: 135°24'49.2" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid: . (Lnorth > T):* .

ELEVATION: + 142. HUNDRED: SECTION: STATUS: ST

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3509 P14,

GROUND (Targetting) SURVEYS: N GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: N

WATER: H PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3509 P31

GEOCHEMISTRY REF: ENV 3509 P PETROLOGY REF:

OTHER: WATER REF: ENV 3509 P8,9 GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION AND ELEVATION FROM KINGOONYA DBASE, COWLEY, 1991

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: EBA 3

MAP: 5937 UNIT: 60. NAME: EBA SEQ. NO: 3 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 390

SPONSOR CODE: CEX SPONSOR: CARPENTARIA EXPLORATION COMPANY PTY LTD

REFERENCE: QTLY RPT ENDING NOV 1978 SAMREF CNO: 1011608

OTHER NAME: REF. TYPE: COR ENV No: 3236 .

TARGET COMMODITY: BM TOTAL DEPTH: 400.00 m COMPLETION DATE: 16/10/1978

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 400 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 539025. NORTHING: 6664223. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 30°09'09.4" LONGITUDE: 135°24'18.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 191. HUNDRED: SECTION: STATUS: ST

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3236 P20

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: H PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3236 F-2-4 GEOPHYS DH. REF: ENV 3236 P32

GEOCHEMISTRY REF: ENV 3236 P20 PETROLOGY REF: ENV 3236 P34

OTHER: WATER REF: ENV 3236 P20 GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION AND ELEVATION FROM KINGOONYA DBASE, COWLEY, 1991

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: SR 7

MAP: 5937 UNIT: 10. NAME: SR SEQ. NO: 7 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 305

SPONSOR CODE: NMK1 SPONSOR: NEWMONT PTY LTD

REFERENCE: EXPLORATION RPT OCT 1977 SAMREF CNO: 1006085

OTHER NAME: REF. TYPE: COR ENV No: 3031 .

TARGET COMMODITY: BM TOTAL DEPTH: 67.2 m COMPLETION DATE: 21/10/1977

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 67 TYPE 2: LENGTH: . LOCATION: G

EASTING: 512910. NORTHING: 6680390. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 30°00'26.2" LONGITUDE: 135°08'01.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 165. HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3031 P30,45,58

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3031 P11,76 F-1 GEOPHYS DH. REF: ENV 3031 P60

GEOCHEMISTRY REF: PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION AND ELEVATION FROM KINGOONYA DBASE, COWLEY, 1991

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE

HOLE NO: SR 9

MAP: 5937 UNIT: 13. NAME: SR SEQ. NO: 9 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 305

SPONSOR CODE: NMK1 SPONSOR: NEWMONT PTY LTD

REFERENCE: EXPLORATION RPT NOV 1977 SAMREF CNO: 1006085

OTHER NAME: REF. TYPE: COR ENV No: 3031 .

TARGET COMMODITY: BM TOTAL DEPTH: 90.5 m COMPLETION DATE: 29/10/1977

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 71 TYPE 2: C LENGTH: 20. LOCATION: G

EASTING: 512920. NORTHING: 6679640. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 30°00'50.5" LONGITUDE: 135°08'02.3" GRID (ANS/CLK): ANS* DNHOLE ORIENTATn. SURVY:

DIP ANGLE: - 90.0 + 165. AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3031 P33,36,44,61

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3031 P11,76 F-1 GEOPHYS DH. REF: ENV 3031 P63

GEOCHEMISTRY REF: ENV 3031 P36,53 PETROLOGY REF: ENV 3031 P49

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION AND ELEVATION FROM KINGOONYA DBASE, COWLEY, 1991

CHECKED: BJV DATE: 03/09/92 UPDATE:[13] DATE:[8] / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: CD 1

MAP: 6035 UNIT: 68. NAME: CD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 321

SPONSOR CODE: DMC SPONSOR: DAMPIER MINING COMPANY LTD

REFERENCE: QTLY RPT ENDING AUGUST 1977 SAMREF CNO: 1055170

OTHER NAME: CD DDH 1 REF. TYPE: COR ENV No: 3035 .

TARGET COMMODITY: BM TOTAL DEPTH: 150. m COMPLETION DATE: 13/06/1977

DRILLTECH: Dia SAMPLE: TYPE 1: M LENGTH: 150 TYPE 2: LENGTH: . LOCATION: G

EASTING: 594538. NORTHING: 6545949. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 31°13'00. " LONGITUDE: 135°59'33. " GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 140. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3035 P4,62

GROUND (Targetting) SURVEYS: PM GEOPHYS.(Down Hole): N GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3035 P9 F-1-7 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 3035 P62 PETROLOGY REF: ENV 3035 P69

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: ELEVATION ESTIMATED FROM SADME CONTOUR MAP

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: DP 1**

MAP: 6037 UNIT: 145. NAME: DP SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR LEASE: EL 600

SPONSOR CODE: ESS2 SPONSOR: ESSO AUSTRALIA LTD COAL & MINERALS DIVISION

REFERENCE: QTLY RPT ENDING DEC 1980 SAMREF CNO: 0001476

OTHER NAME: REF. TYPE: COR ENV No: 3784 .

TARGET COMMODITY: BM U TOTAL DEPTH: 616.60 m COMPLETION DATE: 07/05/1982

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 258 TYPE 2: C LENGTH: 359. LOCATION: G

EASTING: 581104. NORTHING: 6679291. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 30°00'52.4"* *LONGITUDE: 135°50'27.7"* *GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: C

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 150. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3784 P383,445,568

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3784 P3,393 F(II)-1-8 GEOPHYS DH. REF: ENV 3784 P460

GEOCHEMISTRY REF: ENV 3784 P490,569 PETROLOGY REF: ENV 3784 P418,427,464

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION AND ELEVATION FROM KINGOONYA DBASE, COWLEY, 1991

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: DP 2**

MAP: 6037 UNIT: 146. NAME: DP SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 600

SPONSOR CODE: ESS2 SPONSOR: ESSO AUSTRALIA LTD COAL & MINERALS DIVISION

REFERENCE: QTLY RPT ENDING DEC 1980 SAMREF CNO: 0001476

OTHER NAME: REF. TYPE: COR ENV No: 3784 .

TARGET COMMODITY: BM U TOTAL DEPTH: 860.00 m COMPLETION DATE: ??/??/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 316 TYPE 2: C LENGTH: 544. LOCATION: G

EASTING: 581057. NORTHING: 6675290. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 30°03'02.4"* *LONGITUDE: 135°50'27.0"* *GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 139. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3784 P383,417

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): N GEOCHEMISTRY: N PETROLOGY: N

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3784 P3,393 F(II)-1-8 GEOPHYS DH. REF:

GEOCHEMISTRY REF: PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION AND ELEVATION FROM KINGOONYA DBASE, COWLEY, 1991

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: EBA 1

MAP: 6037 UNIT: 147. NAME: EBA SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 390

SPONSOR CODE: CEX SPONSOR: CARPENTARIA EXPLORATION COMPANY PTY LTD

REFERENCE: QTLY RPT ENDING NOV 1978 SAMREF CNO: 1011608

OTHER NAME: REF. TYPE: COR ENV No: 3236 .

TARGET COMMODITY: BM TOTAL DEPTH: 400.00 m COMPLETION DATE: 07/10/1978

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 400 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 566900. NORTHING: 6645394. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 30°19'16.7" LONGITUDE: 135°41'45.2" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 150. HUNDRED: SECTION: STATUS: ST

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3236 P12

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY:

WATER: H PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3236 F-2-4 GEOPHYS DH. REF: ENV 3236 P24

GEOCHEMISTRY REF: ENV 3236 P12 PETROLOGY REF:

OTHER: WATER REF: ENV 3236 P12 GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION AND ELEVATION FROM KINGOONYA DBASE, COWLEY, 1991

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: EBA 2

MAP: 6037 UNIT: 148. NAME: EBA SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 390

SPONSOR CODE: CEX SPONSOR: CARPENTARIA EXPLORATION COMPANY PTY LTD

REFERENCE: QTLY RPT ENDING NOV 1978 SAMREF CNO: 1011608

OTHER NAME: REF. TYPE: COR ENV No: 3236 .

TARGET COMMODITY: BM TOTAL DEPTH: 400.00 m COMPLETION DATE: 12/10/1978

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 400 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 561605. NORTHING: 6665734. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 30°08'17.0" LONGITUDE: 135°38'22.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 178. HUNDRED: SECTION: STATUS: ST

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3236 P16

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY:

WATER: H PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3236 F-2-4 GEOPHYS DH. REF: ENV 3236 P28

GEOCHEMISTRY REF: ENV 3236 P16 PETROLOGY REF:

OTHER: WATER REF: ENV 3236 P16 GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION AND ELEVATION FROM KINGOONYA DBASE, COWLEY, 1991

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: SR 1

MAP: 6038 UNIT: 39. NAME: SR SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR LEASE: EL 304

SPONSOR CODE: NMK1 SPONSOR: NEWMONT PTY LTD

REFERENCE: QTLY RPTS ENDING SEPT & DEC 1977 SAMREF CNO: 1007075

OTHER NAME: REF. TYPE: COR ENV No: 3017 .

TARGET COMMODITY: BM TOTAL DEPTH: 171. m COMPLETION DATE: 21/07/1977

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 80 TYPE 2: C LENGTH: 91. LOCATION: G

EASTING: 586800. NORTHING: 6708500. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 29°45'02. " LONGITUDE: 135°53'52. " GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: T

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 185. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3017 P22,31

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3017 P12,62 GEOPHYS DH. REF: ENV 3017 P21,23,36,49

GEOCHEMISTRY REF: ENV 3017 P21,28 PETROLOGY REF: ENV 3017 P46

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: PRE-COLLAR DEPTH ESTIMATED ONLY. AMG & ELEV ESTIMATED FROM CO PLANS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: MH 1**

MAP: 6134 UNIT: 32. NAME: MH SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 322

SPONSOR CODE: DMC SPONSOR: DAMPIER MINING CO LTD

REFERENCE: QTLY RPT ENDING NOV 1977 SAMREF CNO: 1005171

OTHER NAME: MH DD1 REF. TYPE: COR ENV No: 3036 .

TARGET COMMODITY: BM TOTAL DEPTH: 154.44 m COMPLETION DATE: ??/10/1977

DRILLTECH: Dia SAMPLE: TYPE 1: C LENGTH: 154 TYPE 2: LENGTH: . LOCATION: G

EASTING: 624896. NORTHING: 6489000. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 31°43'39. " LONGITUDE: 136°19'06. " GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 153. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3036 P20,23

GROUND (Targetting) SURVEYS: M GEOPHYS.(Down Hole): N GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: Y OTHER: :

GROUND SURVEY REF: ENV 3036 P18 F-1 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 3036 P23 PETROLOGY REF: ENV 3036 P6,10

OTHER: REF: GEOCHRONOLOGY REF: ENV 3036 P6,

COMMENTS: LAST PAGE OF GEOLOGICAL LOG NOT IN ENVELOPE, ie 5m MISSING

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: KGB 1**

MAP: 6134 UNIT: 33. NAME: KGB SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 708

SPONSOR CODE: AFM SPONSOR: AFMECO PTY LTD

REFERENCE: QTLY RPT ENDING AUGUST 1981 SAMREF CNO: 1015134

OTHER NAME: REF. TYPE: COR ENV No: 4040 .

TARGET COMMODITY: BM TOTAL DEPTH: 162.00 m COMPLETION DATE: 25/07/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 84 TYPE 2: C LENGTH: 78. LOCATION: G

EASTING: 630577. NORTHING: 6503267. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 31°35'53.5" LONGITUDE: 136°22'35.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 119 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 4040 P24 F-1

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 4040 P56 F-5,7 GEOPHYS DH. REF: ENV 4040 F-1

GEOCHEMISTRY REF: ENV 4040 P48 PETROLOGY REF: ENV 4040 P32

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION & ELEV ESTIMATED FROM COMPANY MAP & SADME CONTOUR MAP

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** HOLE NO: **KGB 2**

MAP: 6134 UNIT: 34. NAME: KGB SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 708

SPONSOR CODE: AFM SPONSOR: AFMECO PTY LTD

REFERENCE: QTLY RPT ENDING AUGUST 1981 SAMREF CNO: 1015134

OTHER NAME: REF. TYPE: COR ENV No: 4040 .

TARGET COMMODITY: BM TOTAL DEPTH: 43.5 m COMPLETION DATE: 27/07/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 21 TYPE 2: C LENGTH: 23. LOCATION: G

EASTING: 629800. NORTHING: 6504200. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 31°35'23.5" LONGITUDE: 136°22'05.1" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 119. HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 4040 P24 F-2

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 4040 P56 F-5,7 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 4040 P48 PETROLOGY REF: ENV 4040 P32

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: ELEVATION ESTIMATED FROM CONTOUR PLAN

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** HOLE NO: **KGB 3**

MAP: 6134 UNIT: 35. NAME: KGB SEQ. NO: 3 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 708

SPONSOR CODE: AFM SPONSOR: AFMECO PTY LTD

REFERENCE: QTLY RPT ENDING AUGUST 1981 SAMREF CNO: 1015134

OTHER NAME: REF. TYPE: COR ENV No: 4040 .

TARGET COMMODITY: BM TOTAL DEPTH: 34. m COMPLETION DATE: 29/07/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 26 TYPE 2: C LENGTH: 8. LOCATION: G

EASTING: 629250. NORTHING: 6502950. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 31°36'04.3" LONGITUDE: 136°21'44.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 126. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 4040 P24,29

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 4040 P56 F-5,7 GEOPHYS DH. REF: ENV 4040 P29

GEOCHEMISTRY REF: ENV 4040 P48 PETROLOGY REF: ENV 4040 P32

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: ELEVATION ESTIMATED FROM CONTOUR MAPS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **KGB 4**

MAP: 6134 UNIT: 36. NAME: KGB SEQ. NO: 4 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 708

SPONSOR CODE: AFM SPONSOR: AFMECO PTY LTD

REFERENCE: QTLY RPT ENDING AUGUST 1981 SAMREF CNO: 1015134

OTHER NAME: REF. TYPE: COR ENV No: 4040 .

TARGET COMMODITY: BM TOTAL DEPTH: 269. m COMPLETION DATE: 18/08/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 78 TYPE 2: C LENGTH: 191. LOCATION: G

EASTING: 632400. NORTHING: 6508450. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 31°33'04.4" LONGITUDE: 136°23'41.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 125. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 4040 P24 F-3

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 4040 P56 F-5,7 GEOPHYS DH. REF: ENV 4040 F-3

GEOCHEMISTRY REF: ENV 4040 P48 PETROLOGY REF: ENV 4040 P32

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: ELEVATION ESTIMATED FROM CONTOUR MAPS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: LH 1

MAP: 6135 UNIT: 99. NAME: LH SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 298

SPONSOR CODE: DMC SPONSOR: DAMPIER MINING CO LTD

REFERENCE: QTLY RPT ENDING JUNE 1977 SAMREF CNO: 1005188

OTHER NAME: REF. TYPE: COR ENV No: 3022 .

TARGET COMMODITY: BM TOTAL DEPTH: 443.20 m COMPLETION DATE: 14/05/1977

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 30 TYPE 2: C LENGTH: 413. LOCATION: G

EASTING: 639849. NORTHING: 6544213. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 31°13'40. " LONGITUDE: 136°28'06. " GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 107. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3022 P1,48

GROUND (Targetting) SURVEYS: M GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3022 F-1 GEOPHYS DH. REF: ENV 3022 P71 F-7

GEOCHEMISTRY REF: ENV 3022 P1,7,48 PETROLOGY REF: ENV 3022 P67

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: LH 2

MAP: 6135 UNIT: 100. NAME: LH SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 298

SPONSOR CODE: DMC SPONSOR: DAMPIER MINING CO LTD

REFERENCE: QTLY RPT ENDING SEPT 1977 SAMREF CNO: 1005188

OTHER NAME: REF. TYPE: COR ENV No: 3022 .

TARGET COMMODITY: BM TOTAL DEPTH: 507.15 m COMPLETION DATE: 08/08/1977

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 30 TYPE 2: C LENGTH: 477. LOCATION: G

EASTING: 618444. NORTHING: 6537393. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 31°17'30. " LONGITUDE: 136°14'40. " GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 132. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3022 P5,9

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3022 P6,31 F-2,10,11 GEOPHYS DH. REF: ENV 3022 F-4-6

GEOCHEMISTRY REF: ENV 3022 P6,9 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: ELEVATION ESTIMATED FROM CONTOUR PLAN

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **SSR 1001**

MAP: 6136 UNIT: 91. NAME: SSR SEQ. NO: 1001 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1015

SPONSOR CODE: AAM SPONSOR: AQUITAINE AUSTRALIA MINERALS PTY LTD

REFERENCE: FINAL RPT JUNE 1983 SAMREF CNO: .

OTHER NAME: REF. TYPE: COR ENV No: 3878 .

TARGET COMMODITY: Cu U TOTAL DEPTH: 499.50 m COMPLETION DATE: 23/05/1983

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 15 TYPE 2: C LENGTH: 485. LOCATION: G

EASTING: 628800.00 NORTHING: 6587140.00 ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 30°50'30.6" LONGITUDE: 136°20'48.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 146. HUNDRED: SECTION: STATUS: ST

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3878 P120 F-7

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3878 P19,117,128 F-1- GEOPHYS DH. REF: ENV 3878 P124 F-8 + TAPE

GEOCHEMISTRY REF: PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: CENTURY GEOPHYSICAL SUPPLIED TAPE OF DOWNHOLE LOG - CONFIDENTIAL!!

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: PEE 1

MAP: 6137 UNIT: 55. NAME: PEE SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 333

SPONSOR CODE: KEX1 SPONSOR: KENNECOTT EXPLORATIONS (AUSTRALIA) LTD

REFERENCE: FINAL RPT FEB 1979 SAMREF CNO: 1007283

OTHER NAME: PEEWEENA 1 REF. TYPE: COR ENV No: 3067 .

TARGET COMMODITY: Cu U TOTAL DEPTH: 655.60 m COMPLETION DATE: 25/11/1978

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 97 TYPE 2: C LENGTH: 559. LOCATION: G

EASTING: 603495. NORTHING: 6675190. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 30°02'59.6" LONGITUDE: 136°04'24.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 109. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3067 P211

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): N GEOCHEMISTRY: N PETROLOGY: N

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3067 P172,179 F-40-52 GEOPHYS DH. REF:

GEOCHEMISTRY REF: PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION AND ELEV ESTIMATED FROM COMPANY DIAGRAM AND CONTOUR MAP

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: RL 1

MAP: 6137 UNIT: 52. NAME: RL SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 774

SPONSOR CODE: SDA2 SPONSOR: SHELL COMPANY OF AUSTRALIA LTD

REFERENCE: QTLY RPT ENDING JULY 1982 SAMREF CNO: 1015136

OTHER NAME: REEDY LAGOON 1 REF. TYPE: COR ENV No: 4113 .

TARGET COMMODITY: BM TOTAL DEPTH: 674.4 m COMPLETION DATE: 27/07/1982

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 21 TYPE 2: C LENGTH: 653. LOCATION: G

EASTING: 602529.00 NORTHING: 6644983.00 ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 30°14'49.4" LONGITUDE: 130°25'54.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: A

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 122. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 4113 P123,

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 4113 P8,13,39,119,193 GEOPHYS DH. REF: ENV 4113 P130,132 F-4

GEOCHEMISTRY REF: ENV 4113 P147 PETROLOGY REF: ENV 4113 P158,161

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION AND ELEVATION FROM KINGOONYA DBASE, COWLEY, 1991

CHECKED: BJV DATE: 03/09/02 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: SR 6

MAP: 6138 UNIT: 50. NAME: SR SEQ. NO: 6 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: SSH LEASE: EL 335

SPONSOR CODE: NMK1 SPONSOR: NEWMONT PTY LTD

REFERENCE: QTLY RPT ENDING JAN 1978 SAMREF CNO: 1011383

OTHER NAME: REF. TYPE: COR ENV No: 3090 .

TARGET COMMODITY: BM TOTAL DEPTH: 889.55 m COMPLETION DATE: 25/04/1979

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 78 TYPE 2: C LENGTH: 812. LOCATION: G

EASTING: 636669. NORTHING: 6704374. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 29°47'00. " LONGITUDE: 136°24'50. " GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: T

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 108. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3090 P11,18,95,109

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3090 P11,45,52 F-1 GEOPHYS DH. REF: ENV 3090 P29

GEOCHEMISTRY REF: PETROLOGY REF: ENV 3804 P120

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLED ON THE "MOUNT MORGAN ANOMALY". DNHOLE LOG BY SADME NOT PRESENT

CHECKED: DATE: / / UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: SR 12

MAP: 6139 UNIT: 34. NAME: SR SEQ. NO: 12 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: SSH LEASE: EL 327

SPONSOR CODE: NMK1 SPONSOR: NEWMONT PTY LTD

REFERENCE: QTLY RPTS ENDING NOV 1977 & FEB 1978 SAMREF CNO: 1011388

OTHER NAME: REF. TYPE: COR ENV No: 3056 .

TARGET COMMODITY: BM TOTAL DEPTH: 302.00 m COMPLETION DATE: 31/05/1978

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 97 TYPE 2: C LENGTH: 399. LOCATION: G

EASTING: 619500. NORTHING: 6751200. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 29°21'45.3" LONGITUDE: 136°13'52.2" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 112. HUNDRED: SECTION: STATUS: ST

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3056 P21,28,36,39

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): SC GEOCHEMISTRY: N PETROLOGY: N

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: OIL SHALE :

GROUND SURVEY REF: ENV 3056 P12,47,52 GEOPHYS DH. REF: ENV 3056 P30,62

GEOCHEMISTRY REF: PETROLOGY REF:

OTHER: OIL SHALE REF: ENV 3804 P390 GEOCHRONOLOGY REF:

COMMENTS: COLLAR ELEVATION ESTIMATED FROM LOCATION DIAGRAM + CONTOUR MAPS

CHECKED: BJV DATE: 07/08/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: SR 13

MAP: 6139 UNIT: 35. NAME: SR SEQ. NO: 13 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: SSH LEASE: EL 341

SPONSOR CODE: NMK1 SPONSOR: NEWMONT PTY LTD

REFERENCE: QTLY RPT ENDING FEBRUARY 1979 SAMREF CNO: 1011389

OTHER NAME: SR 13/2 REF. TYPE: COR ENV No: 3092 .

TARGET COMMODITY: BM TOTAL DEPTH: 900.27 m COMPLETION DATE: 26/03/1979

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 176 TYPE 2: C LENGTH: 724. LOCATION: G

EASTING: 614440. NORTHING: 6790511. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 29°00'30. " LONGITUDE: 136°10'30. " GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: C

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 98. HUNDRED: SECTION: STATUS: ST

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3092 P46,52 F-2

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3092 P10,14,22 F-1 GEOPHYS DH. REF:

GEOCHEMISTRY REF: PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: COLLAR ELEVATION ESTIMATED FROM LOCATION DIAGRAM + CONTOUR MAPS

CHECKED: BJV DATE: 07/08/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: FH 1

MAP: 6233 UNIT: 14. NAME: FH SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 713

SPONSOR CODE: AFM SPONSOR: AFMECO PTY LTD

REFERENCE: RECON. DRILLING RPT DEC 1981 SAMREF CNO: 0000306

OTHER NAME: FIDDLE HILL 1 REF. TYPE: COR ENV No: 3994 .

TARGET COMMODITY: Cu Au U TOTAL DEPTH: 132.00 m COMPLETION DATE: 20/08/1981

DRILLTECH: RCD SAMPLE: TYPE 1: M LENGTH: 60 TYPE 2: C LENGTH: 72 . LOCATION: ?

EASTING: 677900.00 NORTHING: 6428700.00 ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 32°15'51.1" LONGITUDE: 136°53'19.4" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 130. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3994 P28 F-18

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3994 P20,34 F-8-16 GEOPHYS DH. REF: ENV 3994 P20 F-18

GEOCHEMISTRY REF: ENV 3994 P21 PETROLOGY REF: ENV 3994 P76

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: STRAT REINTERPRETED BY JLC. UNIT DEPTHS ESTIMATED FROM GEOLOGICAL LOG

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: FH 2

MAP: 6233 UNIT: 15. NAME: FH SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 713

SPONSOR CODE: AFM SPONSOR: AFMECO PTY LTD

REFERENCE: RECON. DRILLING RPT DEC 1981 SAMREF CNO: 0000306

OTHER NAME: FIDDLE HILL 2 REF. TYPE: COR ENV No: 3994 .

TARGET COMMODITY: Cu Au U TOTAL DEPTH: 48.00 m COMPLETION DATE: 23/08/1981

DRILLTECH: RCD SAMPLE: TYPE 1: M LENGTH: ? TYPE 2: C LENGTH: ? . LOCATION: G

EASTING: 674750.00 NORTHING: 6427100.00 ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 32°16'44.9" LONGITUDE: 136°51'20.1" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 125. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3994 P28,92

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3994 P20,34 F-8-16 GEOPHYS DH. REF: ENV 3994 P20,92

GEOCHEMISTRY REF: ENV 3994 P21 PETROLOGY REF: ENV 3994 P76

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: STRAT REINTERPRETED BY JLC. UNIT DEPTHS ESTIMATED FROM GEOLOGICAL LOG

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: FH 3

MAP: 6233 UNIT: 16. NAME: FH SEQ. NO: 3 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 713

SPONSOR CODE: AFM SPONSOR: AFMECO PTY LTD

REFERENCE: RECON. DRILLING RPT DEC 1981 SAMREF CNO: 000306.

OTHER NAME: FIDDLE HILL 3 REF. TYPE: COR ENV No: 3994 .

TARGET COMMODITY: Cu Au U TOTAL DEPTH: 87.00 m COMPLETION DATE: 24/08/1981

DRILLTECH: RCD SAMPLE: TYPE 1: M LENGTH: 80 TYPE 2: C LENGTH: 7 . LOCATION:

EASTING: 681100.00 NORTHING: 6429000.00 ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 32°15'39.6" LONGITUDE: 136°55'21.4" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid: . (Lnorth > T):* .

ELEVATION: + 142. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3994 P28 F-19

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3994 P20,34 F-8-16 GEOPHYS DH. REF: ENV 3994 P20 F-19

GEOCHEMISTRY REF: ENV 3994 P21 PETROLOGY REF: ENV 3994 P76

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: STRAT REINTERPRETED BY JLC. UNIT DEPTHS ESTIMATED FROM GEOLOGICAL LOG

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: FH 4

MAP: 6233 UNIT: 17. NAME: FH SEQ. NO: 4 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 713

SPONSOR CODE: AFM SPONSOR: AFMECO PTY LTD

REFERENCE: RECON. DRILLING RPT DEC 1981 SAMREF CNO: 0000306

OTHER NAME: FIDDLE HILL 4 REF. TYPE: COR ENV No: 3994 .

TARGET COMMODITY: Cu Au U TOTAL DEPTH: 180.00 m COMPLETION DATE: 31/08/1981

DRILLTECH: RCD SAMPLE: TYPE 1: M LENGTH: 126 TYPE 2: C LENGTH: 54 . LOCATION: ?

EASTING: 684750.00 NORTHING: 6428450.00 ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 32°15'55.3" LONGITUDE: 136°57'41.2" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid: . (Lnorth > T):* .

ELEVATION: + 200. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3994 P28 F-20

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3994 P20,34 F-8-16 GEOPHYS DH. REF: ENV 3994 P20 F-20

GEOCHEMISTRY REF: ENV 3994 P21 PETROLOGY REF: ENV 3994 P76

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: STRAT REINTERPRETED BY JLC. UNIT DEPTHS ESTIMATED FROM GEOLOGICAL LOG

CHECKED: BJV DATE: 07/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **FH 5**

MAP: 6233 UNIT: 13. NAME: FH SEQ. NO: 5 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 713

SPONSOR CODE: AFM SPONSOR: AFMECO PTY LTD

REFERENCE: RECON. DRILLING RPT DEC 1981 SAMREF CNO: 0000306

OTHER NAME: FIDDLE HILL 5 REF. TYPE: COR ENV No: 3994 .

TARGET COMMODITY: Cu Au U TOTAL DEPTH: 174.00 m COMPLETION DATE: 08/19/1981

DRILLTECH: RCD SAMPLE: TYPE 1: M LENGTH: 11 TYPE 2: C LENGTH: 163. LOCATION: G

EASTING: 686900.00 NORTHING: 6428560.00 ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 32°15'50.4" LONGITUDE: 136°59'03.3" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 178. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3994 P28 F-21

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3994 P20,34 F-8-16 GEOPHYS DH. REF: ENV 3994 P20 F-21

GEOCHEMISTRY REF: ENV 3994 P21 PETROLOGY REF: ENV 3994 P76

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: STRAT REINTERPRETED BY JLC. UNIT DEPTHS ESTIMATED FROM GEOLOGICAL LOG

CHECKED: BJV DATE: 07/08/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: SAD 1

MAP: 6233 UNIT: 18. NAME: SAD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 302

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LTD

REFERENCE: FIRST QTLY RPT JUNE 1977 SAMREF CNO: 1010369

OTHER NAME: PDH-7 AS PRECOLLAR REF. TYPE: COR ENV No: 2992 .

TARGET COMMODITY: BM TOTAL DEPTH: 251.25 m COMPLETION DATE: 08/05/1977

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 221 TYPE 2: C LENGTH: 30. LOCATION: G

EASTING: 673301. NORTHING: 6442437. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°07'44.5" LONGITUDE: 136°50'27.3" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: A

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 117. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2992 P25 F-1

GROUND (Targetting) SURVEYS: M? GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY: Y

WATER: H PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2992 P6 GEOPHYS DH. REF: ENV 2992 P54 4115 F-1

GEOCHEMISTRY REF: ENV 2992 P25 F-1 4115 F-1 PETROLOGY REF: ENV 2992 P92

OTHER: WATER REF: ENV 2992 P25 GEOCHRONOLOGY REF:

COMMENTS: TOP 120m OF LOG FOR PDH 7 MISSING. ELEV & AMG ESTIMATED FROM COMPANY PLAN

CHECKED: BJV DATE: 07/08/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: PDH 1

MAP: 6233 UNIT: 19. NAME: PDH SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 302

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LTD

REFERENCE: FIRST QTLY RPT JUNE 1977 SAMREF CNO: 1010369

OTHER NAME: REF. TYPE: COR ENV No: 2992 .

TARGET COMMODITY: BM TOTAL DEPTH: 68.00 m COMPLETION DATE: 26/10/1976

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 68 TYPE 2: LENGTH: . LOCATION: G

EASTING: 686992. NORTHING: 6415819. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°22'43.9" LONGITUDE: 136°59'15.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: A

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 154. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2992 P16

GROUND (Targetting) SURVEYS: M? GEOPHYS.(Down Hole): GEOCHEMISTRY: N PETROLOGY: N

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2992 P6 GEOPHYS DH. REF:

GEOCHEMISTRY REF: PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: COLLAR LOCATION & ELEVATION ESTIMATED FROM LOCATION DIAGRAM & CONTOUR PLAN

CHECKED: BJV DATE: 07/08/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** HOLE NO: **PDH 4**

MAP: 6233 UNIT: 20. NAME: PDH SEQ. NO: 4 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 302

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LTD

REFERENCE: FIRST QTLY RPT JUNE 1977 SAMREF CNO: 1010369

OTHER NAME: REF. TYPE: COR ENV No: 2992 .

TARGET COMMODITY: BM TOTAL DEPTH: 82.00 m COMPLETION DATE: 28/10/1976

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 82 TYPE 2: LENGTH: . LOCATION: G

EASTING: 673185. NORTHING: 6441020. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°09'13.9" LONGITUDE: 136°50'11.2" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: A

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid: . (Lnorth > T):* .

ELEVATION: + 115. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2992 P20

GROUND (Targetting) SURVEYS: M? GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2992 P6 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2992 P20 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: COLLAR LOCATION & ELEVATION ESTIMATED FROM LOCATION DIAGRAM & CONTOUR PLAN

CHECKED: BJV DATE: 07/08/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** HOLE NO: **PDH 6**

MAP: 6233 UNIT: 21. NAME: PDH SEQ. NO: 6 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 302

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LTD

REFERENCE: FIRST QTLY RPT JUNE 1977 SAMREF CNO: 1010369

OTHER NAME: REF. TYPE: COR ENV No: 2992 .

TARGET COMMODITY: BM TOTAL DEPTH: 224.00 m COMPLETION DATE: 18/04/1977

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 224 TYPE 2: LENGTH: . LOCATION: G

EASTING: 677430. NORTHING: 6439745. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°09'52.9" LONGITUDE: 136°52'54.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: A

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid: . (Lnorth > T):* .

ELEVATION: + 138. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2992 P23,38

GROUND (Targetting) SURVEYS: M? GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2992 P6 GEOPHYS DH. REF: ENV 2992 P48

GEOCHEMISTRY REF: ENV 2992 P23 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: COLLAR LOCATION & ELEVATION ESTIMATED FROM LOCATION DIAGRAM & CONTOUR PLAN

CHECKED: BJV DATE: 07/08/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: PDH 8

MAP: 6233 UNIT: 22. NAME: PDH SEQ. NO: 8 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: SSH LEASE: EL 302

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LTD

REFERENCE: FIRST QTLY RPT JUNE 1977 SAMREF CNO: 1010369

OTHER NAME: REF. TYPE: COR ENV No: 2992 .

TARGET COMMODITY: BM TOTAL DEPTH: 60.00 m COMPLETION DATE: 23/04/1977

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 60 TYPE 2: LENGTH: . LOCATION: G

EASTING: 673211. NORTHING: 6434988. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°12'29.7" LONGITUDE: 136°50'16.1" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: A

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 117. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2992 P27

GROUND (Targetting) SURVEYS: M? GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2992 P6 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2992 P27 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: COLLAR LOCATION & ELEVATION ESTIMATED FROM LOCATION DIAGRAM & CONTOUR PLAN

CHECKED: BJV DATE: 07/08/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: PDH 12

MAP: 6233 UNIT: 23. NAME: PDH SEQ. NO: 12 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 302

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LTD

REFERENCE: 4TH QTLY RPT MARCH 1978 SAMREF CNO: 1010369

OTHER NAME: REF. TYPE: COR ENV No: 2992 .

TARGET COMMODITY: BM TOTAL DEPTH: 191.00 m COMPLETION DATE: 26/10/1976

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 191 TYPE 2: LENGTH: . LOCATION: G

EASTING: 683223. NORTHING: 6449162. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°04'43.9" LONGITUDE: 136°56'28.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: A

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 110. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2992 P65,73

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: N PETROLOGY:

WATER: H PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2992 P62 GEOPHYS DH. REF: ENV 2992 P65,75

GEOCHEMISTRY REF: ENV 2992 P73 PETROLOGY REF:

OTHER: WATER REF: ENV 2992 P67,83,85 GEOCHRONOLOGY REF:

COMMENTS: COLLAR LOCATION & ELEVATION ESTIMATED FROM LOCATION DIAGRAM & CONTOUR PLAN

CHECKED: BJV DATE: 07/08/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: PIL 13**

MAP: 6234 UNIT: 22 . NAME: PIL SEQ. NO: 13 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 301

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LTD

REFERENCE: 6TH QTLY RPT SEPT 78 SAMREF CNO: 1010367

OTHER NAME: REF. TYPE: COR ENV No: 2996 .

TARGET COMMODITY: BM TOTAL DEPTH: 390.00 m COMPLETION DATE: 09/09/1978

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 390 TYPE 2: LENGTH: . LOCATION: G

EASTING: 649400.00 NORTHING: 6470800.00 ZONE: 53 MSG CONV: 0 55' LOCATION ACCURACY: P

*LATITUDE: 31°53'19.3" LONGITUDE: 136°34'46.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 112.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2996 P160

GROUND (Targetting) SURVEYS: M? GEOPHYS.(Down Hole): L GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 2996 P170

GEOCHEMISTRY REF: ENV 2996 P160 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: ?460000YDSE 1056800 YDSN SEE PAGE207,PLAN AS7800. COORDS WRONG!

CHECKED: BJV DATE: 07/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: PIL 16**

MAP: 6234 UNIT: 25 . NAME: PIL SEQ. NO: 16 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 301

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LTD

REFERENCE: 6TH QTLY RPT SEPT 1978 SAMREF CNO: 1010367

OTHER NAME: REF. TYPE: COR ENV No: 2996 .

TARGET COMMODITY: BM TOTAL DEPTH: 324.00 m COMPLETION DATE: 27/08/1978

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 324 TYPE 2: LENGTH: . LOCATION: G

EASTING: 644400.00 NORTHING: 6471000.00 ZONE: 53 MSG CONV: 0 55' LOCATION ACCURACY: P

*LATITUDE: 31°53'15.2" LONGITUDE: 136°31'36.5" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 116.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2996 P150

GROUND (Targetting) SURVEYS: M? GEOPHYS.(Down Hole): L GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 2669 P190

GEOCHEMISTRY REF: ENV 2996 P150 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: 454800YDSE 1056000YDSN

CHECKED: BJV DATE: 07/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: PIL 15**

MAP: 6234 UNIT: 24 . NAME: PIL SEQ. NO: 15 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 301

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LTD

REFERENCE: 6TH QTLY RPT SEPT 1978 SAMREF CNO: 1010367

OTHER NAME: REF. TYPE: COR ENV No: 2996 .

TARGET COMMODITY: BM TOTAL DEPTH: 160.00 m COMPLETION DATE: 20/08/1978

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 160 TYPE 2: LENGTH: . LOCATION: G

EASTING: 650400.00 NORTHING: 6461900.00 ZONE: 53 MSG CONV: 1 27' LOCATION ACCURACY: P

*LATITUDE: 31°58'07.8" LONGITUDE: 136°35'29.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 108.00 HUNDRED: SECTION: STATUS: OP

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2996 P156

GROUND (Targetting) SURVEYS: M? GEOPHYS.(Down Hole): L GEOCHEMISTRY: PETROLOGY:

WATER: A PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 2996 P187

GEOCHEMISTRY REF: ENV 2996 P156 PETROLOGY REF:

OTHER: WATER REF: ENV 2996 P241 P245 GEOCHRONOLOGY REF:

COMMENTS: NO COORDS GIVEN NO ELEVATION GIVEN. NB -9999.99 INFERS ELEV UNKNOWN

CHECKED: BJV DATE: 07/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: PIL 12**

MAP: 6234 UNIT: 21 . NAME: PIL SEQ. NO: 12 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 301

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LTD

REFERENCE: 6TH QTLY RPT SEPT 78 SAMREF CNO: 1010367

OTHER NAME: REF. TYPE: COR ENV No: 2996 .

TARGET COMMODITY: BM TOTAL DEPTH: 156.00 m COMPLETION DATE: 05/08/1978

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 156 TYPE 2: LENGTH: . LOCATION: G

EASTING: 642400.00 NORTHING: 6471000.00 ZONE: 53 MSG CONV: 0 55' LOCATION ACCURACY: P

*LATITUDE: 31°53'16.1" LONGITUDE: 136°30'20.4" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 122.00 HUNDRED: SECTION: STATUS: OP

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2996 P164

GROUND (Targetting) SURVEYS: M? GEOPHYS.(Down Hole): L GEOCHEMISTRY: PETROLOGY:

WATER: A PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 2996 P167

GEOCHEMISTRY REF: ENV 2996 P164 PETROLOGY REF: ENV 2996 P200

OTHER: WATER REF: ENV 2996 P241 P243 P245 GEOCHRONOLOGY REF:

COMMENTS: 452300YDSE 1056200 YDSN SEE PAGE207,PLAN AS7800

CHECKED: BJV DATE: 07/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: PIL 14**

MAP: 6234 UNIT: 23 . NAME: PIL SEQ. NO: 14 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 301

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LTD

REFERENCE: 6TH QTLY RPT SEPT 78 SAMREF CNO: 1010367

OTHER NAME: REF. TYPE: COR ENV No: 2996 .

TARGET COMMODITY: BM TOTAL DEPTH: 302.00 m COMPLETION DATE: 09/08/1978

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 302 TYPE 2: LENGTH: . LOCATION: G

EASTING: 659600.00 NORTHING: 6468100.00 ZONE: 53 MSG CONV: 0 55' LOCATION ACCURACY: P

*LATITUDE: 31°54'42.0" LONGITUDE: 136°41'16.6" GRID(ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 95.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2996 P157

GROUND (Targetting) SURVEYS: M? GEOPHYS.(Down Hole): L GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 2996 P182

GEOCHEMISTRY REF: ENV 2996 P157 PETROLOGY REF: ENV 2996 P210

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: 471100YDSE 1053000 YDSN SEE PAGE207,PLAN AS7800

CHECKED: BJV DATE: 07/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: VG 1**

MAP: 6235 UNIT: 77 . NAME: VG SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 951

SPONSOR CODE: CSR2 SPONSOR: CSR LIMITED MINERALS DIVISION EXPLORATION GROUP

REFERENCE: COMPLETION REPT DEC 1982 SAMREF CNO: 0005225

OTHER NAME: VANGUARD 1 REF. TYPE: COR ENV No: 6962 .

TARGET COMMODITY: BM TOTAL DEPTH: 1095.00 m COMPLETION DATE: 20/11/1982

DRILLTECH: Dia SAMPLE: TYPE 1: C LENGTH: 1095 TYPE 2: LENGTH: . LOCATION: G

EASTING: 683300.00 NORTHING: 6520000.00 ZONE: 53 ZONE AZ: 0.54 LOCATION ACCURACY: S

*LATITUDE: 31°26'24.4" LONGITUDE: 136°55'43.7" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 89.30 HUNDRED: SECTION: STATUS: CA ST

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 6962 P742

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6962 P737 GEOPHYS DH. REF: ENV 6962 P733,756,767

GEOCHEMISTRY REF: ENV 6962 P743 PETROLOGY REF: ENV 6962 P785

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: JLC/BJV DATE: 17/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: WOOMERA 1**

MAP: 6235 UNIT: 42 . NAME: WOOMERA SEQ. NO: 1 CLASS: PW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: SSH LEASE: OEL 12

SPONSOR CODE: CBP SPONSOR: CLARENCE RIVER BASIN OIL EXPLORATION CO NL

REFERENCE: REPORT OF INSPECTION OEL 12 SAMREF CNO: 1004091

OTHER NAME: WOOMERA BORE REF. TYPE: COR ENV No: 53 6627.

TARGET COMMODITY: PE TOTAL DEPTH: 611.00 m COMPLETION DATE: 30/05/1958

DRILLTECH: ? SAMPLE: TYPE 1: LENGTH: TYPE 2: LENGTH: . LOCATION: ?

EASTING: 675406.00 NORTHING: 6549508.00 ZONE: 53 ZONE AZ: 0.54 LOCATION ACCURACY:

*LATITUDE: 31°10'30.8" LONGITUDE: 136°50'26.1" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 140.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 53 P5 6627 P896

GROUND (Targetting) SURVEYS: N GEOPHYS.(Down Hole): GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: RB 46/206 PLAN L58-19

GEOCHEMISTRY REF: PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: RB 72/89 DISCUSSES WOOM BORE STRAT & HAS PHOTO GUNYAH MINE STRAT RELATIONS

CHECKED: BJV DATE: 17/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: WJD 1

MAP: 6235 UNIT: 78 . NAME: WJD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: WINJABBIE D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 1015.10 m COMPLETION DATE: 28/05/1980

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 300 TYPE 2: C LENGTH: 715. LOCATION: G

EASTING: 687630.00 NORTHING: 6561500.00 ZONE: 53 ZONE AZ: 0.54 LOCATION ACCURACY:

*LATITUDE: 31°03'54.7" LONGITUDE: 136°57'59.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 147.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P366,P43,P459

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P42,P460 GEOPHYS DH. REF: ENV 6562 P22 F-5 P735

GEOCHEMISTRY REF: ENV 6562 P735 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: BASEMENT Fe FORMATION PREDATES VOLC COVER,WEATH PROFILE&MINRLZD UPPER FEW m

CHECKED: BJV DATE: 17/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: CSD - 1

MAP: 6236 UNIT: 66. NAME: CSD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTL. RELQ. REPT. EL 1316 JUN 1986 SAMREF CNO: 0001473

OTHER NAME: COCKY SWAMP D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 994.20 m COMPLETION DATE: 21/08/1980

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 216 TYPE 2: C LENGTH: 778 LOCATION: G

EASTING: 676050.00 NORTHING: 6574700.00 ZONE: 53 MSG CONV: 0.54 LOCATION ACCURACY: S

*LATITUDE: 30°56'52.6" LONGITUDE: 136°50'34.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: N

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 107.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P216

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P20,33,F(I)-25 GEOPHYS DH. REF: ENV 6562 P544,F(I)-10

GEOCHEMISTRY REF: ENV 6562 P412,544 PETROLOGY REF: ENV 6562 P33

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: HHD-1

MAP: 6236 UNIT: 67. NAME: HHD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: HEATON HILL D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 1186.20 m COMPLETION DATE: 14/01/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 296 TYPE 2: C LENGTH: 890 LOCATION: G

EASTING: 669700.00 NORTHING: 6592860.00 ZONE: 53 MSG CONV: 0.54 LOCATION ACCURACY:

*LATITUDE: 30°47'06.3" LONGITUDE: 136°46'24.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 130.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P256 P422

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P20,36 GEOPHYS DH. REF: ENV 6562 F(I)-12,17,20

GEOCHEMISTRY REF: ENV 6562 P256 P611 PETROLOGY REF: ENV 6562 P422

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: Affiliation to WRD & AD3 granites inferred by WMC Geol. (JLC)

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: TWN-1**

MAP: 6236 UNIT: 68. NAME: TWN SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: TOWNSITE D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 700.80 m COMPLETION DATE: 08/07/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 300 TYPE 2: C LENGTH: 401 LOCATION: ?

EASTING: 679800.00 NORTHING: 6616600.00 ZONE: 53 MSG CONV: 0.54 LOCATION ACCURACY:

*LATITUDE: 30°34'10.2" LONGITUDE: 136°52'29.5" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 100.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P340 P50 P455

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): N GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P20,50,F(I)-37 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 6562 P455,683 PETROLOGY REF: ENV 6562 P455

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: TWN-2**

MAP: 6236 UNIT: 69. NAME: TWN SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: TOWNSITE D2 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 545.60 m COMPLETION DATE: 14/06/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 280 TYPE 2: C LENGTH: 266 LOCATION: ?

EASTING: 682300.00 NORTHING: 6615500.00 ZONE: 53 MSG CONV: 0.54 LOCATION ACCURACY:

*LATITUDE: 30°34'44.5" LONGITUDE: 136°54'04.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 100.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 6562 P346 P50

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): N GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P20,50,F(I)-37 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 6562 P695 PETROLOGY REF: ENV 6562 P

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **TWN-3**

MAP: 6236 UNIT: 70. NAME: TWN SEQ. NO: 3 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: TOWNSITE D3 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 641.10 m COMPLETION DATE: 02/06/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 290 TYPE 2: C LENGTH: 351 LOCATION: ?

EASTING: 681800.00 NORTHING: 6614300.00 ZONE: 53 MSG CONV: 0.54 LOCATION ACCURACY:

*LATITUDE: 30°35'23.7" LONGITUDE: 136°53'46.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 100.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 6562 P351 P50

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P20,50,F(I)-37 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 6562 P704 PETROLOGY REF: ENV 6562 P???

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **HHD 2**

MAP: 6236 UNIT: 71. NAME: HHD SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: HEATON HILL D1 REF. TYPE: COR ENV No: 6565 .

TARGET COMMODITY: BM Au U TOTAL DEPTH: 364.00 m COMPLETION DATE: 21/04/1982

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 364 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 671300.00 NORTHING: 6596650.00 ZONE: 53 ZONE AZ: 0.54 LOCATION ACCURACY:

*LATITUDE: 30°45'02.4" LONGITUDE: 136°47'22.4" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 108. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P275

GROUND (Targetting) SURVEYS: GEOPHYS.(Down Hole): N GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P20,36 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 6562 P626 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: CRD 1

MAP: 6236 UNIT: 72. NAME: CRD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: COORLAY RIDGE D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM Au U TOTAL DEPTH: 118.00 m COMPLETION DATE: ??/07/1980

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 118 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 684800.00 NORTHING: 6594600.00 ZONE: 53 ZONE AZ: 0.54 LOCATION ACCURACY:

*LATITUDE: 30°46'01.7" LONGITUDE: 136°55'51.3" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 90.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P213

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): N GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV6562 P20,34 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 6562 P213,452 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **BD 1**

MAP: 6237 UNIT: 15. NAME: BD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1338

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ REPORT OCT 1991 SAMREF CNO: 0005709

OTHER NAME: BOPEECHEE D1 REF. TYPE: COR ENV No: 8482 .

TARGET COMMODITY: BM Au U TOTAL DEPTH: 941.00 m COMPLETION DATE: 08/06/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 21 TYPE 2: C LENGTH: 920 LOCATION: ?

EASTING: 677100.00 NORTHING: 6663100.00 ZONE: 53 ZONE AZ: 0.53 LOCATION ACCURACY:

*LATITUDE: 30°09'01.2" LONGITUDE: 136°50'19.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 99. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 8482 P35,160

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): CL GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 8482 P29 F-3,8,10-12 GEOPHYS DH. REF: ENV 8482 P196 F-16

GEOCHEMISTRY REF: ENV 8482 P196 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: AMG SUPPLIED IN ENVELOPE. ELEVATION ESTIMATED FROM 20m CONTOUR PLAN

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **BD 2**

MAP: 6237 UNIT: 16. NAME: BD SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR SSH LEASE: EL 1338

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ REPORT OCT 1991 SAMREF CNO: 0005709

OTHER NAME: BOPEECHEE D2 REF. TYPE: COR ENV No: 8482 .

TARGET COMMODITY: BM Au U TOTAL DEPTH: 829.40 m COMPLETION DATE: 19/03/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 205 TYPE 2: C LENGTH: 624 LOCATION: ?

EASTING: 674300. NORTHING: 6665700. ZONE: 53 ZONE AZ: 0.53 LOCATION ACCURACY: P

*LATITUDE: 30°07'38.8" LONGITUDE: 136°48'33.7" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 131.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 8482 P48,160

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): CL GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 8482 P30 F-3,8,10-12 GEOPHYS DH. REF: ENV 8482 P222 F-13,17,23

GEOCHEMISTRY REF: ENV 8482 P222 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: ELEV SUPPLIED IN ENVELOPE. AMG ESTIMATED FROM LOCALITY DIAGRAM

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: FHD 1**

MAP: 6238 UNIT: 6. NAME: FHD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: SSH . LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: FERGUSON HILL REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 743.80 m COMPLETION DATE: 05/11/1977

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 77 TYPE 2: C LENGTH: 667 LOCATION: G

EASTING: 665000.00 NORTHING: 6700550.00 ZONE: 53 MSG CONV: . LOCATION ACCURACY:

*LATITUDE: 29°48'51.7" LONGITUDE: 136°42'26.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 88.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P246,418

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P35 F-28 GEOPHYS DH. REF: ENV 6562 F-6

GEOCHEMISTRY REF: ENV 6562 P582 PETROLOGY REF: ENV 6562 P444

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SR 17 / 2**

MAP: 6238 UNIT: 7. NAME: SR SEQ. NO: 17 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: SSH LEASE: EL 335

SPONSOR CODE: NMK1 SPONSOR: NEWMONT PTY LTD

REFERENCE: QTLY RPT ENDING JAN 1979 SAMREF CNO: 1011383

OTHER NAME: SR 17/2 REF. TYPE: COR ENV No: 3090 3803.

TARGET COMMODITY: BM TOTAL DEPTH: 1500.00 m COMPLETION DATE: 19/11/1979

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 200 TYPE 2: C LENGTH: 1300 LOCATION: G

EASTING: 660864. NORTHING: 6709593. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 29°44'00. " LONGITUDE: 136°39'48. " GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: C

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 89. HUNDRED: SECTION: STATUS: ST

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3090 P95,102 3803 P12

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3090 P84 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 3803 P12 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLED ON "JOE'S ANOMALY". ELEVATION ESTIMATED FROM CONTOUR PLAN

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: EX 165

MAP: 6332 UNIT: 614. NAME: EX SEQ. NO: 165 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 534

SPONSOR CODE: CSR SPONSOR: CSR LIMITED MINERALS AND CHEMICALS DIVISION

REFERENCE: 1ST QTLY RPT SEPTEMBER 1979 SAMREF CNO: 0002709

OTHER NAME: REF. TYPE: COR ENV No: 3552 .

TARGET COMMODITY: BM TOTAL DEPTH: 160.00 m COMPLETION DATE: 04/05/1979

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 160 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 725082. NORTHING: 6392393. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 32°34'58.7" LONGITUDE: 137°23'52.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 76. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3225 P25,39

GROUND (Targetting) SURVEYS: GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3552 F-2 P25

GEOCHEMISTRY REF: ENV 3552 P39 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: AMG & ELEV ESTIMATED FROM LOCALITY PLAN & CONTOUR PLANS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: TR 3**

MAP: 6333 UNIT: 52. NAME: TR SEQ. NO: 3 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 654

SPONSOR CODE: DMC SPONSOR: DAMPIER MINING CO LTD

REFERENCE: QTLY RPT ENDING JUNE 1981 SAMREF CNO: 0000310

OTHER NAME: TREGOLANA 3 REF. TYPE: COR ENV No: 3915 .

TARGET COMMODITY: Cu TOTAL DEPTH: 400.40 m COMPLETION DATE: 07/04/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 39 TYPE 2: C LENGTH: 361 LOCATION: G

EASTING: 729550.00 NORTHING: 6408280.00 ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 32°26'19.9" LONGITUDE: 137°26'29.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *'(Lnorth > T):* .

ELEVATION: + 116. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3915 P24

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3915 P5 F-3-6 GEOPHYS DH. REF: ENV 3915 F-1

GEOCHEMISTRY REF: ENV 3915 P40 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EX 31**

MAP: 6333 UNIT: 53 NAME: EX SEQ. NO: 31 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 50

SPONSOR CODE: MGU SPONSOR: MOUNT GUNSON MINES PTY LTD

REFERENCE: QTLY RPT ENDING MARCH 1974 SAMREF CNO: 0002710

OTHER NAME: REF. TYPE: COR ENV No: 2273 .

TARGET COMMODITY: BM TOTAL DEPTH: 54.9 m COMPLETION DATE: 16/10/1973

DRILLTECH: RMC SAMPLE: TYPE 1: M LENGTH: 53 TYPE 2: S LENGTH: 2. LOCATION: ?

EASTING: 720294. NORTHING: 6413170. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 31°23'48.0" LONGITUDE: 137°20'31.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 125. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2273 P88 6667 P34

GROUND (Targetting) SURVEYS: M GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2273 P6 F(I)-1 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2273 P88 PETROLOGY REF: ENV 6611 P483,833

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOG AMENDED AFTER PETROLOGY. HOLE LOCAL & ELEV ESTIMATED FROM CO PLANS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: EX 32

MAP: 6333 UNIT: 54. NAME: EX SEQ. NO: 32 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 50

SPONSOR CODE: MGU SPONSOR: MOUNT GUNSON MINES PTY LTD

REFERENCE: QTLY RPT ENDING MARCH 1974 SAMREF CNO: 0002710

OTHER NAME: REF. TYPE: COR ENV No: 2273 .

TARGET COMMODITY: BM TOTAL DEPTH: 42.7 m COMPLETION DATE: 16/10/1973

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 43 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 719251. NORTHING: 6410789. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°25'06.0" LONGITUDE: 137°19'53.7" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 120. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2273 P89 6667 P35

GROUND (Targetting) SURVEYS: M GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2273 P6 F(I)-1 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2273 P89 PETROLOGY REF: ENV 6611 P833

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOG AMENDED AFTER PETROLOGY. HOLE LOCAL & ELEV ESTIMATED FROM CO PLANS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: EX 33

MAP: 6333 UNIT: 55. NAME: EX SEQ. NO: 33 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 50

SPONSOR CODE: MGU SPONSOR: MOUNT GUNSON MINES PTY LTD

REFERENCE: QTLY RPT ENDING MARCH 1974 SAMREF CNO: 0002710

OTHER NAME: REF. TYPE: COR ENV No: 2273 .

TARGET COMMODITY: BM TOTAL DEPTH: 89.9 m COMPLETION DATE: 16/10/1973

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 90 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 724081. NORTHING: 6410858. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°25'00.3" LONGITUDE: 137°22'58.4" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 120. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2273 P90 6667 P36

GROUND (Targetting) SURVEYS: M GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2273 P6 F(I)-1 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2273 P90 PETROLOGY REF: ENV 6611 P834

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOG AMENDED AFTER PETROLOGY. HOLE LOCAL & ELEV ESTIMATED FROM CO PLANS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: WHD 1**

AP: 6434 UNIT: 34 . NAME: WHD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: EL 1316 PARTIAL RELINQ REPT JUNE 1986 SAMREF CNO: 0001473.

OTHER NAME: WHITTATA HILL D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 683.53 m COMPLETION DATE: 08/05/1978

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 102 TYPE 2: C LENGTH: 581. LOCATION: G

EASTING: 738380.00 NORTHING: 6496800.00 ZONE: 53 MSG CONV: 1 27' LOCATION ACCURACY: P

*LATITUDE: 31°38'21.1" LONGITUDE: 137°30'48.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 131.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P378 F6562(I)-39

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 ??? GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 6562 P760 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: GRAVITY DATA REPORTED AS BEING UNRELIABLE

CHECKED: JLC/BJV DATE: 01/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: YAD 1**

MAP: 6434 UNIT: 33 . NAME: YAD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: SSH LEASE: EL 582

SPONSOR CODE: URA SPONSOR: URANGESELLSCHAFT AUSTRALIA PTY LTD

REFERENCE: QTLY RPT OCT 1981 SAMREF CNO: 0002108.

OTHER NAME: YADLAMALKA No.1 REF. TYPE: COR ENV No: 3769 6670 .

TARGET COMMODITY: BM TOTAL DEPTH: 655.60 m COMPLETION DATE: 15/01/1982

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 33 TYPE 2: C LENGTH: 623. LOCATION: G

EASTING: 765698.00 NORTHING: 6467094.00 ZONE: 53 MSG CONV: 1 27' LOCATION ACCURACY:

*LATITUDE: 31°54'03.2" LONGITUDE: 137°48'33.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 37.00 HUNDRED: SECTION: STATUS: ST

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6670 P152

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: PETROLOGY:

WATER: A PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3769 P359 RB 81/50 GEOPHYS DH. REF: ENV 3769(III)-1to10

GEOCHEMISTRY REF: ENV 3769 P449 PETROLOGY REF: ENV 3769 P399

OTHER: WATER REF: ENV 3769 P397 GEOCHRONOLOGY REF:

COMMENTS: EVERYTHING BUT GEOLOGICAL LOG IN ENV 3769! HOLE LOC&ELV FROM W.NEWTON SSDB

CHECKED: BJV DATE: 01/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **BDH 2**

MAP: 6434 UNIT: 30 . NAME: BDH SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 206

SPONSOR CODE: AAM SPONSOR: AQUITAINE AUSTRALIA MINERALS PTY LTD

REFERENCE: QTLY RPT AUG 1977 SAMREF CNO: 0002108.

OTHER NAME: DDH2 in early rpts REF. TYPE: COR ENV No: 2643 3769 .

TARGET COMMODITY: BM TOTAL DEPTH: 553.10 m COMPLETION DATE: 04/07/1977

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 190 TYPE 2: C LENGTH: 363. LOCATION: G

EASTING: 739180.00 NORTHING: 6477830.00 ZONE: 53 MSG CONV: 1 27' LOCATION ACCURACY: P

*LATITUDE: 31°48'36.0" LONGITUDE: 137°31'36.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 41.40 HUNDRED: SECTION: STATUS: CA ST

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2643 P78

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: Y OTHER: :

GROUND SURVEY REF: ENV 2643 P41,50 GEOPHYS DH. REF: ENV 2643(IV) 3769(II)

GEOCHEMISTRY REF: ENV 2643 P73. SEE "OTHER" PETROLOGY REF: ENV 2643 P98

OTHER: GEOCHEM REF: GEOL SURV SA BUL53 P58 GEOCHRONOLOGY REF: SADME RB 80/6

COMMENTS: BOUNDARIES IN SUMMARY LOG P51 NOT SHOWN ON 'DETAILED' LOG P78

CHECKED: BJV DATE: 01/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **BDH 3**

MAP: 6434 UNIT: 31 . NAME: BDH SEQ. NO: 3 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 582

SPONSOR CODE: AAM SPONSOR: AQUITAINE AUSTRALIA MINERALS PTY LIMITED

REFERENCE: QTLY REPTS EL206 AUG 77 EL582 APR 81 SAMREF CNO: 0002108.

OTHER NAME: DDH 3 in early reports REF. TYPE: COR ENV No: 2643 3769 .

TARGET COMMODITY: BM TOTAL DEPTH: 1200.00 m COMPLETION DATE: 01/12/1980

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 297 TYPE 2: C LENGTH: 903. LOCATION: G

EASTING: 746860.00 NORTHING: 6475370.00 ZONE: 53 MSG CONV: 1 27' LOCATION ACCURACY: P

*LATITUDE: 31°49'50.0" LONGITUDE: 137°36'30.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTATION SURVY: N

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: - 75.00 HUNDRED: SECTION: STATUS: CA ST

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 2643 P94 3769 P293

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2643 P41 P50 GEOPHYS DH. REF: ENV 2643 F(IV)

GEOCHEMISTRY REF: ENV 2643 P74 3769 P315 PETROLOGY REF: ENV 2643 P98 3769 P299

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: NB EXTRA GEOCHEM (INCLUDING WRA) BY CSR IN ENV 6962 P1625

CHECKED: JLC/BJV DATE: 01/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SLT 106**

MAP: 6434 UNIT: 38 . NAME: SLT SEQ. NO: 106 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 582

SPONSOR CODE: AAM SPONSOR: AQUITAINE AUSTRALIA MINERALS PTY LIMITED

REFERENCE: QTLY REPT OCT 1980 SAMREF CNO: 0002108.

OTHER NAME: REF. TYPE: COR ENV No: 3769 .

TARGET COMMODITY: Cu BM TOTAL DEPTH: 1449.00 m COMPLETION DATE: ??/03/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 7 TYPE 2: C LENGTH: 1442. LOCATION: G

EASTING: 758020.00 NORTHING: 6490010.00 ZONE: 53 MSG CONV: 1 27' LOCATION ACCURACY: P

*LATITUDE: 31°41'46.0" LONGITUDE: 137°43'20.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTATION SURVY: N

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 56.00 HUNDRED: SECTION: STATUS: CA ST

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3769 P181,349

GROUND (Targetting) SURVEYS: L GEOPHYS.(Down Hole): L GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: SEISMIC :

GROUND SURVEY REF: ENV 3769 F(I)-1 GEOPHYS DH. REF: ENV 3769 F(I)-3-5

GEOCHEMISTRY REF: ENV 6962 P1668 PETROLOGY REF:

OTHER: SEISMIC REF: SADME ENV 3769 P192 GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: JLC/BJV DATE: 01/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SLT 107**

MAP: 6434 UNIT: 32 . NAME: SLT SEQ. NO: 107 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 582

SPONSOR CODE: AAM SPONSOR: AQUITAINE AUST MINERALS PTY LIMITED

REFERENCE: QTLY REPT APR 1981 SAMREF CNO: 0002108.

OTHER NAME: REF. TYPE: COR ENV No: 3769 .

TARGET COMMODITY: BM TOTAL DEPTH: 1099.00 m COMPLETION DATE: 23/01/1981

DRILLTECH: Dia SAMPLE: TYPE 1: C LENGTH: 1099 TYPE 2: , LENGTH: . LOCATION: G

EASTING: 739790.00 NORTHING: 6476580.00 ZONE: 53 MSG CONV: 1 27' LOCATION ACCURACY: P

*LATITUDE: 31°49'16.0" LONGITUDE: 137°32'00.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTATION SURVY: N

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 45.00 HUNDRED: SECTION: STATUS: CA ST

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3769 P307

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: SEISMIC :

GROUND SURVEY REF: ENV 3769 P200 GEOPHYS DH. REF: ?NOT SUBMITTED

GEOCHEMISTRY REF: ENV 6962 P1670 PETROLOGY REF:

OTHER: SEISMIC REF: SADME GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: JLC/BJV DATE: 01/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SLT 103**

MAP: 6434 UNIT: 37 . NAME: SLT SEQ. NO: 103 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 370

SPONSOR CODE: AAM SPONSOR: AQUITAINE AUSTRALIA MINERALS PTY LIMITED

REFERENCE: QTLY REPTS AUG 1978??? SAMREF CNO: 0002107.

OTHER NAME: REF. TYPE: COR ENV No: 3093 .

TARGET COMMODITY: Cu TOTAL DEPTH: 750.50 m COMPLETION DATE: 01/06/1978

DRILLTECH: RmD SAMPLE: TYPE 1: M LENGTH: 21 TYPE 2: C LENGTH: 729. LOCATION: G

EASTING: 738550.00 NORTHING: 6484690.00 ZONE: 53 MSG CONV: 1 27' LOCATION ACCURACY: P

*LATITUDE: 31°44'54.0" LONGITUDE: 137°31'06.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 36.00 HUNDRED: SECTION: STATUS: CA

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3093 P136

GROUND (Targetting) SURVEYS: PM GEOPHYS.(Down Hole): L GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3093 P24 F(I)-1-6 GEOPHYS DH. REF: ENV 3093 F(III)-5,6

GEOCHEMISTRY REF: ENV 6962 P1666 PETROLOGY REF: ENV 3093 P152

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: JLC/BJV DATE: 01/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SLT 104**

MAP: 6434 UNIT: 39 . NAME: SLT SEQ. NO: 104 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 370

SPONSOR CODE: AAM SPONSOR: AQUITAINE AUSTRALIA MINERALS PTY LTD

REFERENCE: QTLY RPT AUG 1978 SAMREF CNO: 0002107.

OTHER NAME: REF. TYPE: COR ENV No: 3093 3769 .

TARGET COMMODITY: BM TOTAL DEPTH: 836.00 m COMPLETION DATE: 15/01/1981

DRILLTECH: Dia SAMPLE: TYPE 1: C LENGTH: 836 TYPE 2: LENGTH: . LOCATION: G

EASTING: 754800.00 NORTHING: 6466400.00 ZONE: 53 MSG CONV: 1 27' LOCATION ACCURACY: P

*LATITUDE: 31°54'34.7" LONGITUDE:137°41'40.1" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 44.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3093 P144 3769 P346

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3093(I)-1to6 GEOPHYS DH. REF: ENV 3093(III)-7,8

GEOCHEMISTRY REF: PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: SUBSTANTIAL REINTERP OF ORIGINAL LOG (W.COWLEY) SUGGEST RE EXAMINE CORE

CHECKED: BJV DATE: 01/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SLT 101 (BDH 4)**

MAP: 6434 UNIT: 35 . NAME: SLT SEQ. NO: 101 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 370

SPONSOR CODE: AAM SPONSOR: AQUITANE AUSTRALIA MINERALS PTY LIMITED

REFERENCE: QTLY REPTS FEB 1978 OCT 1980 JUL 1981 SAMREF CNO: 0002107.

OTHER NAME: BDH 4 (also DDH4) REF. TYPE: COR ENV No: 3093 3769.

TARGET COMMODITY: Cu BM TOTAL DEPTH: 1405.60 m COMPLETION DATE: ??/03/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 106 TYPE 2: C LENGTH: 1300. LOCATION: G

EASTING: 754270.00 NORTHING: 6484430.00 ZONE: 53 MSG CONV: 1 27' LOCATION ACCURACY: P

*LATITUDE: 31°44'50.0" LONGITUDE: 137°41'03.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: T

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 44.00 HUNDRED: SECTION: STATUS: CA ST

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3093 P47 3769 P172

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: Y OTHER: :

GROUND SURVEY REF: ENV 2643 P41 P50 GEOPHYS DH. REF: ENV 2643(IV) 3769(II)

GEOCHEMISTRY REF: ENV 6962 P1665 PETROLOGY REF: ENV 2643 P98

OTHER: REF: GEOCHRONOLOGY REF: SADME RB 80/6

COMMENTS: FIRST DRILLED TO 600m THEN WEDGED FROM 570-1360 AND 1199 1405.6 SEE P345

CHECKED: JLC/BJV DATE: 01/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SLT 102**

MAP: 6434 UNIT: 36 . NAME: SLT SEQ. NO: 102 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 370

SPONSOR CODE: AAM SPONSOR: AQUITAINE AUSTRALIA MINERALS PTY LIMITED

REFERENCE: QTLY REPT AUG 1978 SAMREF CNO: 0002107.

OTHER NAME: REF. TYPE: COR ENV No: 3093 .

TARGET COMMODITY: Cu BM TOTAL DEPTH: 644.00 m COMPLETION DATE: 08/05/1978

DRILLTECH: RmD SAMPLE: TYPE 1: M LENGTH: 27 TYPE 2: C LENGTH: 617. LOCATION: G

EASTING: 748610.00 NORTHING: 6475760.00 ZONE: 53 MSG CONV: 1 27' LOCATION ACCURACY: P

*LATITUDE: 31°49'36.0" LONGITUDE: 137°37'36.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTATION SURVY:

DIP ANGLE: - 90. AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 31.50 HUNDRED: SECTION: STATUS: CA ST CO

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3093 P130

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): N GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3093 F(1)-1-6 GEOPHYS DH. REF: ENV 3093 P158

GEOCHEMISTRY REF: PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: INITIALLY DRILLED TO 507m THEN WEDGED FROM 495m TO TD 2.5m ERROR

CHECKED: JLC/BJV DATE: 01/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **SAU 1**

MAP: 6433 UNIT: 33. NAME: SAU SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 187

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LTD

REFERENCE: 1ST QTLY RPT JULY 1975 SAMREF CNO: 1007522

OTHER NAME: PUB 3 = PRECOLLAR REF. TYPE: COR ENV No: 2585 .

TARGET COMMODITY: BM TOTAL DEPTH: 275.35 m COMPLETION DATE: 13/03/1975

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 187 TYPE 2: C LENGTH: 88. LOCATION: G

EASTING: 745245. NORTHING: 6415410. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°22'16.5" LONGITUDE: 137°36'23.7" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 43.09 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2585 P22 F-1

GROUND (Targetting) SURVEYS: M? GEOPHYS.(Down Hole): N GEOCHEMISTRY: Y PETROLOGY: N

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2985 P93 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2585 P17,22,53 F-1 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION & ELEV ESTIMATED FROM COMPANY MAP & SADME CONTOUR MAP

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **SAU 3**

MAP: 6432 UNIT: 798. NAME: SAU SEQ. NO: 3 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 187

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LTD

REFERENCE: 1ST QTLY RPT JULY 1975 SAMREF CNO: 1007522

OTHER NAME: PUB 11 = PRECOLLAR REF. TYPE: COR ENV No: 2585 .

TARGET COMMODITY: BM TOTAL DEPTH: 494. m COMPLETION DATE: 18/06/1975

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 162 TYPE 2: C LENGTH: 332. LOCATION: G

EASTING: 750055.00 NORTHING: 6397885.00 ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°31'41.3" LONGITUDE: 137°39'44.3" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY: A

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 35.70 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2585 P9,43 F-3

GROUND (Targetting) SURVEYS: M? GEOPHYS.(Down Hole): N GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2585 P93 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2585 P34,75 F-3 PETROLOGY REF: ENV 2585 P81

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: COLLAR LOCATION FROM W.NEWTON DBASE.

CHECKED: BJV DATE: 07/08/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: BLD 3**

MAP: 6337 UNIT: 59. NAME: BLD SEQ. NO: 3 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1338

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ REPORT OCT 1991 SAMREF CNO: 0005709

OTHER NAME: BILLS LOOKOUT D3 REF. TYPE: COR ENV No: 8482 .

TARGET COMMODITY: BM Au U TOTAL DEPTH: 1024.00 m COMPLETION DATE: 31/07/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 300 TYPE 2: C LENGTH: 724 LOCATION: ?

EASTING: 722190. NORTHING: 6636990. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 30°22'42.7" LONGITUDE: 137°18'44.1" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 32.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 8482 P83,154

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): CL GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 8482 P28 F-2,7 GEOPHYS DH. REF: ENV 8482 P276 F-20,26

GEOCHEMISTRY REF: ENV 8482 P276 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: BLD-4**

MAP: 6337 UNIT: 60. NAME: BLD SEQ. NO: 4 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 1037.00 m COMPLETION DATE: 21/06/1985

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 300 TYPE 2: C LENGTH: 737 LOCATION: G

EASTING: 716440.00 NORTHING: 6644740.00 ZONE: 53 MSG CONV: 1.09 LOCATION ACCURACY:

*LATITUDE: 30°18'34.9" LONGITUDE: 137°15'03.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 50.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P201,407

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: N PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P29 F-22 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 6562 P531 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: BLD 1

MAP: 6337 UNIT: 57. NAME: BLD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1338

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ REPORT OCT 1991 SAMREF CNO: 0005709

OTHER NAME: BILLS LOOKOUT D1 REF. TYPE: COR ENV No: 8482 .

TARGET COMMODITY: BM Au U TOTAL DEPTH: 768. m COMPLETION DATE: 01/05/1979

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 163 TYPE 2: C LENGTH: 605 LOCATION: ?

EASTING: 712645. NORTHING: 6636750. ZONE: 53 ZONE AZ: 1.09 LOCATION ACCURACY: P

*LATITUDE: 30°22'56.7" LONGITUDE: 137°12'46.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 66.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 8482 P55,151

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): CL GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: MAG REMANENCE :

GROUND SURVEY REF: ENV 8482 P28 F-2,7 GEOPHYS DH. REF: ENV 8482 P237 F-18,25

GEOCHEMISTRY REF: ENV 8482 P237 PETROLOGY REF:

OTHER: MAG REMNCE REF: ENV 8482 P584 GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION PLOTTED FROM COMPANY LOCATION DIAGRAM

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: BLD 2

MAP: 6337 UNIT: 58. NAME: BLD SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR GRP LEASE: EL 1338

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ REPORT OCT 1991 SAMREF CNO: 0005709

OTHER NAME: BILLS LOOKOUT D2 REF. TYPE: COR ENV No: 8482 .

TARGET COMMODITY: BM Au U TOTAL DEPTH: 860.25 m COMPLETION DATE: ??/09/1979

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 208 TYPE 2: C LENGTH: 652 LOCATION: G

EASTING: 717002. NORTHING: 6633067. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 30°22'42.7" LONGITUDE: 137°18'44.1" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 48.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 8482 P67,151

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): CL GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 8482 P28 F-2,7 GEOPHYS DH. REF: ENV 8482 P256 F-19

GEOCHEMISTRY REF: ENV 8482 P256 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: SHD-1

MAP: 6337 UNIT: 55. NAME: SHD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: SADDLE HILL D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 965.00 m COMPLETION DATE: 12/05/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 172 TYPE 2: C LENGTH: 793 LOCATION: G

EASTING: 692440.00 NORTHING: 6658960.00 ZONE: 53 MSG CONV: 1.09 LOCATION ACCURACY:

*LATITUDE: 30°11'07.8" LONGITUDE: 136°59'55.7" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 106.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P326 P452

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P40 F-34 GEOPHYS DH. REF: ENV 6562 P671

GEOCHEMISTRY REF: ENV 6562 P327,454,671 PETROLOGY REF: ENV 6562 P454

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: SCYW 1A

MAP: 6337 UNIT: 56. NAME: SCYW SEQ. NO: 1A CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: SSH LEASE: EL 520

SPONSOR CODE: AMA SPONSOR: AMOCO MINERALS AUSTRALIA COMPANY

REFERENCE: SECOND QUARTERLY RPT FEB 1980 SAMREF CNO: 0000276

OTHER NAME: STUART CREEK YARRAWURTA 1A REF. TYPE: COR ENV No: 3637 .

TARGET COMMODITY: BM TOTAL DEPTH: 1450.00 m COMPLETION DATE: 07/07/1981

DRILLTECH: Dia SAMPLE: TYPE 1: C LENGTH: 1450 TYPE 2: LENGTH: . LOCATION: G

EASTING: 707632.87 NORTHING: 6665237.40 ZONE: 53 ZONE AZ: 1.09 LOCATION ACCURACY:

*LATITUDE: 30°07'35. " LONGITUDE: 137°09'19. " GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 59.0 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3637 P22,59,100,F-4,5

GROUND (Targetting) SURVEYS: PM GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY: Y

WATER: N PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: SEISMIC :

GROUND SURVEY REF: ENV 3637 F-1,2,3,5,17 GEOPHYS DH. REF: ENV 3637 P97 F-8,9,10

GEOCHEMISTRY REF: ENV 3637 P22,59,86,100 PETROLOGY REF: ENV 3637 P10,68

OTHER: SEISMIC REF: ENV 3637 P110 F-8A,11-16 GEOCHRONOLOGY REF:

COMMENTS: FIRST 3 PAGES OF ENV 3637 MISSING 21/7/92. ELEV ESTIMATED FROM 1:100000 CONTOUR

CHECKED: BJV DATE: 03/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: WLD 1

MAP: 6336 UNIT: 45. NAME: WLD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: SSH LEASE: EL 1338

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ REPORT OCT 1991 SAMREF CNO: 0005709

OTHER NAME: WILLAROO LAGOON D1 REF. TYPE: COR ENV No: 8482 .

TARGET COMMODITY: BM Au U TOTAL DEPTH: 445.50 m COMPLETION DATE: 22/06/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 252 TYPE 2: C LENGTH: 194. LOCATION: ?

EASTING: 721100. NORTHING: 6605900. ZONE: 53 ZONE AZ: 1.09 LOCATION ACCURACY: P

*LATITUDE: 30°39'32.6" LONGITUDE: 137°18'27.1" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 86.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: LOGGED BY: GEOL GEOLOG REF: ENV 8482 P141,193

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 8482 P20 F-5 GEOPHYS DH. REF: ENV 8482 P347 F ??,??,??

GEOCHEMISTRY REF: ENV 8482 P347 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOCAL COORDS 11500N 99500E. ELEV & AMG ESTIMATED FROM LOCALITY PLAN

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **RED 1**

MAP: 6336 UNIT: 43. NAME: RED SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1338

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ REPORT OCT 1991 SAMREF CNO: 0005709

OTHER NAME: RED DAM 1 REF. TYPE: COR ENV No: 8482 .

TARGET COMMODITY: BM Au U TOTAL DEPTH: 410. m COMPLETION DATE: 06/05/1982

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 294 TYPE 2: C LENGTH: 116. LOCATION: ?

EASTING: 725370. NORTHING: 6612000. ZONE: 53 ZONE AZ: 1.09 LOCATION ACCURACY: P

*LATITUDE: 30°36'11.7" LONGITUDE: 137°21'02.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 51.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: LOGGED BY: GEOL GEOLOG REF: ENV 8482 P101,170

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 8482 P20 F-5 GEOPHYS DH. REF: ENV 8482 P291

GEOCHEMISTRY REF: ENV 8482 P291 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOCAL GRID 18410N 99985E. ELEV & AMG ESTIMATED FROM LOCALITY PLAN

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **RED 2**

MAP: 6336 UNIT: 44. NAME: RED SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1338

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ REPORT OCT 1991 SAMREF CNO: 0005709

OTHER NAME: RED DAM 2 REF. TYPE: COR ENV No: 8482 .

TARGET COMMODITY: BM Au U TOTAL DEPTH: 686.90 m COMPLETION DATE: 10/12/1985

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 290 TYPE 2: C LENGTH: 397. LOCATION: ?

EASTING: 726840. NORTHING: 6614700. ZONE: 53 ZONE AZ: 1.09 LOCATION ACCURACY: P

*LATITUDE: 30°34'43.1" LONGITUDE: 137°21'55.7" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 40. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: LOGGED BY: GEOL GEOLOG REF: ENV 8482 P107

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 8482 P20 F-5 GEOPHYS DH. REF: ENV 8482 P298 F-??,??

GEOCHEMISTRY REF: ENV 8482 P298 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOCAL GRID 21400N 100780E. NO ELEV FOUND. ELEV & AMG ESTMATED FROM CO PLAN

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: DRD-1

MAP: 6336 UNIT: 41. NAME: DRD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR? GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: DROMEDARY DAM D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 1192.00 m COMPLETION DATE: 12/11/1980

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 325 TYPE 2: C LENGTH: 867 LOCATION: G

EASTING: 708160.00 NORTHING: 6591800.00 ZONE: 53 MSG CONV: 1.09 LOCATION ACCURACY:

*LATITUDE: 30°47'18.7" LONGITUDE: 137°10'31.5" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 113.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P229 P415

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P34,415,F(I)-27 GEOPHYS DH. REF: ENV 6562 P22,F(I)-7

GEOCHEMISTRY REF: ENV 6562 P35,416,562 PETROLOGY REF: ENV 6562 P416

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: HWD-1

MAP: 6336 UNIT: 42. NAME: HWD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: HORSE WELL D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 1097.00 m COMPLETION DATE: 16/06/1982

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 284 TYPE 2: C LENGTH: 813 LOCATION: G

EASTING: 695780.00 NORTHING: 6575380.00 ZONE: 53 MSG CONV: 1.09 LOCATION ACCURACY:

*LATITUDE: 30°56'19.3" LONGITUDE: 137°02'57.3" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 116.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 6562 P290 P434

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P20,36 GEOPHYS DH. REF: ENV 6562 P598

GEOCHEMISTRY REF: ENV 6562 P438,598 PETROLOGY REF: ENV 6562 P436

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: EC 50

MAP: 6335 UNIT: 116. NAME: EC SEQ. NO: 50 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 543

SPONSOR CODE: CSR2 SPONSOR: CSR MINERALS DIVISION EXPLORATION GROUP

REFERENCE: 8TH & FINAL QTLY RPT OCT 1981 SAMREF CNO: .

OTHER NAME: ELIZABETH CREEK 50 REF. TYPE: COR ENV No: 3703 .

TARGET COMMODITY: BM TOTAL DEPTH: 256.00 m COMPLETION DATE: 29/10/1981

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 256 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 715974.00 NORTHING: 6538002.00 ZONE: 53 ZONE AZ: 1.10 LOCATION ACCURACY:

*LATITUDE: 31°16'19.8" LONGITUDE: 137°16'06.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 110.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3703 P1427

GROUND (Targetting) SURVEYS: ? GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: N

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3703 F(XI)-7

GEOCHEMISTRY REF: ENV 3703 P1427 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 03/08/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: AD 2 (W1,W2)

MAP: 6335 UNIT: 115 NAME: AD SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: (AD4 EL 232) REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 829.00 m COMPLETION DATE: 18/07/1977

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 93 TYPE 2: C LENGTH: 736 LOCATION: G

EASTING: 702600.00 NORTHING: 6558540.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY:

*LATITUDE: 31°05'21.8" LONGITUDE: 137°07'26.3" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: N

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *'(Lnorth > T):* .

ELEVATION: + 135.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P149

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P30 F(I)-21 GEOPHYS DH. REF: ENV 6562 P472

GEOCHEMISTRY REF: ENV 6562 P31,472 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLED TO 253.2 WEDGED FROM 236 401 AND 341 829m. ORIGINALLY EL232. cf AD1

CHECKED: BJV/JLC DATE: 21/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: PL 32

MAP: 6335 UNIT: 109 NAME: PL SEQ. NO: 32 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 199

SPONSOR CODE: PAC SPONSOR: PACMINEX PTY LTD

REFERENCE: 8TH & FINAL QTLY RPT JULY 1977 SAMREF CNO: 0003424

OTHER NAME: POWERLINE 32 REF. TYPE: COR ENV No: 2627 6635.

TARGET COMMODITY: BM TOTAL DEPTH: 263.80 m COMPLETION DATE: 18/06/1977

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 77 TYPE 2: C LENGTH: 187. LOCATION: G

EASTING: 693550.00 NORTHING: 6517300.00 ZONE: 53 ZONE AZ: 1.10 LOCATION ACCURACY: P

*LATITUDE: 31°27'46.0" LONGITUDE: 137°02'13.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 105.82 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6635 P10 6611 P1322

GROUND (Targetting) SURVEYS: N GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: F6634-1,2

GEOCHEMISTRY REF: ENV 6635 P10 PETROLOGY REF: ENV 6611 P922,P1319

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: AMG CALCULATED FROM LOCALITY DIAGRAM

CHECKED: BJV DATE: 21/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: PRL 22

MAP: 6335 UNIT: 108 NAME: PRL SEQ. NO: 22 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 389

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION (PTY) LTD

REFERENCE: 6TH QTLY REPT AUG 1979 SAMREF CNO: 0001986

OTHER NAME: RED LAKE 22 REF. TYPE: COR ENV No: 3245 .

TARGET COMMODITY: BM TOTAL DEPTH: 276.00 m COMPLETION DATE: 23/07/1979

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 276 TYPE 2: LENGTH: . LOCATION: G

EASTING: 722500.00 NORTHING: 6516500.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: P

*LATITUDE: 31°27'53.2" LONGITUDE: 137°20'30.5" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 79.00 HUNDRED: SECTION: STATUS: CA ST

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3245 P183

GROUND (Targetting) SURVEYS: M? GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3245 P310 SADME?

GEOCHEMISTRY REF: ENV 3245 P183 PETROLOGY REF: ENV 3245 P207 P226

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: `BASEMENT' EXOTIC LITHS CAST DOUBT ON GRANITE INTERPRETATION

CHECKED: JLC/BJV DATE: 21/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: HUD 1

MAP: 6335 UNIT: 110 NAME: HUD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: EL 1316 PARTIAL RELINQ REPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: HUNTER HILL D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 483.00 m COMPLETION DATE: 27/07/1982

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 326 TYPE 2: C LENGTH: 157. LOCATION: G

EASTING: 722650.00 NORTHING: 6548100.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: P

*LATITUDE: 31°10'47.6" LONGITUDE: 137°20'10.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 183.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P279 F6562(I)-29

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P37 F6562(I)-29 GEOPHYS DH. REF: ENV 6562 P22,630 F(I)-9

GEOCHEMISTRY REF: ENV 6962 P630 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV/JLC DATE: 21/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: ASD 1**

MAP: 6335 UNIT: 111 NAME: ASD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: ARCOONA STRUCTURE D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 1118.00 m COMPLETION DATE: 07/07/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 110 TYPE 2: C LENGTH: 1008 LOCATION: G

EASTING: 700600.00 NORTHING: 6564150.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY:

*LATITUDE: 31°02'20.9" LONGITUDE: 137°06'06.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 128.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 6562 P173 P396

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P28?? GEOPHYS DH. REF: ENV 6562 P22,504 F-11,18

GEOCHEMISTRY REF: ENV 6562 P398,504 PETROLOGY REF: ENV 6562 P397

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV/JLC DATE: 21/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: ASD 2 (W1)**

MAP: 6335 UNIT: 112 NAME: ASD SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: ARCOONA STRUCTURE D2 D2W1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 1148.40 m COMPLETION DATE: 04/03/1984

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 250 TYPE 2: C LENGTH: 898 LOCATION: G

EASTING: 692400.00 NORTHING: 6566250.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY:

*LATITUDE: 31°06'42.3" LONGITUDE: 137°01'03.1" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 139.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P188 P402

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 F(I)-21 GEOPHYS DH. REF: ENV 6562 P22,517 F-13,15

GEOCHEMISTRY REF: ENV 6562 P405,517 PETROLOGY REF: ENV 6562 P404

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: ORIGINALLY DRILLED TO 727.6m THEN WEDGED FROM 695.3m

CHECKED: BJV/JLC DATE: 21/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO:AD 8**

MAP: 6335 UNIT: 113 NAME: AD SEQ. NO: 8 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: ARCOONA D8 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 1000.20 m COMPLETION DATE: 14/10/1985

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 304 TYPE 2: C LENGTH: 696 LOCATION: G

EASTING: 702000.00 NORTHING: 6557800.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY:

*LATITUDE: 31°05'43.2" LONGITUDE: 137°07'04.2" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 158.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: LOGGED BY: GEOL GEOLOG REF: ENV 6562 P162 P390 P31

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P30 F(I)-21 GEOPHYS DH. REF: ENV 6562 P492 F-14,16,19

GEOCHEMISTRY REF: ENV 6562 P393,492 PETROLOGY REF: ENV 6562 P393

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: ELEVATION ESTIMATED FROM 1:100,000 CONTOUR MAP

CHECKED: BJV/JLC DATE: 21/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: HUD 2**

MAP: 6335 UNIT: 114 NAME: HUD SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: HUNTER HILL D2 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 396.30 m COMPLETION DATE: 21/04/1982

DRILLTECH: PrC SAMPLE: TYPE 1: M LENGTH: 393 TYPE 2: S LENGTH: 3. LOCATION: G

EASTING: 723250.00 NORTHING: 6544850.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY:

*LATITUDE: 31°12'32.6" LONGITUDE: 137°20'36.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: N

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 220.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P286

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P37,431 F(I)-29 GEOPHYS DH. REF: ENV 6962 P637

GEOCHEMISTRY REF: ENV 6562 P432 PETROLOGY REF: ENV 6562 P431

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV/JLC DATE: 21/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EC 51**

MAP: 6335 UNIT: 98 NAME: EC SEQ. NO: 51 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 543

SPONSOR CODE: CSR2 SPONSOR: CSR LIMITED MINERALS DIVISION EXPLORATION GROUP

REFERENCE: 8TH & FINAL QTLY REPT OCT 1981 SAMREF CNO: .

OTHER NAME: ELIZABETH CREEK 51 REF. TYPE: COR ENV No: 3703 .

TARGET COMMODITY: BM TOTAL DEPTH: 292.00 m COMPLETION DATE: 31/10/1981

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 292 TYPE 2: LENGTH: . LOCATION: W

EASTING: 714385.96 NORTHING: 6531017.04 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: O

*LATITUDE: 31°20'07.6" LONGITUDE: 137°15'12.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 90.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3703 P1440

GROUND (Targetting) SURVEYS: ? GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY:

WATER: A PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3703 F(XI)-2

GEOCHEMISTRY REF: ENV 3703 P1440 6962 P1643 PETROLOGY REF:

OTHER: WATER REF: ENV 3703 P1258 GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: JLC DATE: 21/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EC 35**

MAP: 6335 UNIT: 99 NAME: EC SEQ. NO: 35 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR GRP SSH LEASE: EL 543

SPONSOR CODE: CSR2 SPONSOR: CSR LIMITED MINERALS DIVISION EXPLORATION GROUP

REFERENCE: 5TH & 8TH QTLY REPTS JAN OCT 1981 SAMREF CNO: .

OTHER NAME: ELIZABETH CREEK 35 REF. TYPE: COR ENV No: 3703 6962.

TARGET COMMODITY: BM TOTAL DEPTH: 400.00 m COMPLETION DATE: 13/10/1981

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 400 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 712445.00 NORTHING: 6536690.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: O

*LATITUDE: 31°17'04.7" LONGITUDE: 137°13'54.2" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: N

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 70.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3703 P282 6962 P282

GROUND (Targetting) SURVEYS: ? GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: A PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3703 F(XI)-6

GEOCHEMISTRY REF: ENV 3703 P1314 6962 P1633 PETROLOGY REF: ENV 3703 P1613 6962 P310

OTHER: WATER REF: ENV 3703 P1258 GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: JLC DATE: 21/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT -- DRILLHOLE DATABASE** | HOLE NO: EC 45

MAP: 6335 UNIT: 92. NAME: EC SEQ. NO: 45 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR SSH LEASE: EL 543

SPONSOR CODE: CSR2 SPONSOR: CSR LIMITED MINS. DIVIS. EXPLORATION GROUP

REFERENCE: 8TH & FINAL RPT EL 548 OCT 1981 SAMREF CNO: .

OTHER NAME: ELIZABETH CREEK DDH 45 REF. TYPE: COR ENV No: 3703 .

TARGET COMMODITY: BM TOTAL DEPTH: 128.00 m COMPLETION DATE: 11/10/1981

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 128 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 713191.83 NORTHING: 6534628.44 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: O

*LATITUDE: 31°18'11.2" LONGITUDE: 137°14'24.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: T

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 75.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3703 P1371

GROUND (Targetting) SURVEYS: ? GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: A PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3703 F(XI)-3

GEOCHEMISTRY REF: ENV 3703 P1371 6962 P1638 PETROLOGY REF: ENV 3703 P1615

OTHER: WATER REF: ENV 3703 P1258 GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: JLC DATE: 21/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: EC 43

MAP: 6335 UNIT: 93. NAME: EC SEQ. NO: 43 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR GRP SSH LEASE: EL 543

SPONSOR CODE: CSR2 SPONSOR: CSR LIMITED MINERALS DIVISION EXPLORATION GROUP

REFERENCE: 8TH & FINAL QTLY REPT OCT 1981 SAMREF CNO: .

OTHER NAME: ELIZABETH CREEK 43 REF. TYPE: COR ENV No: 3703 .

TARGET COMMODITY: BM TOTAL DEPTH: 159.00 m COMPLETION DATE: 9/10/1981

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 159 TYPE 2: LENGTH: . LOCATION: W

EASTING: 712942.94 NORTHING: 6533143.23 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: O

*LATITUDE: 31°18'59.5" LONGITUDE: 137°14'15.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: N

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 85.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3703 P1355

GROUND (Targetting) SURVEYS: ? GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: N PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3703 F(XI)-1

GEOCHEMISTRY REF: ENV 3703 P1355 6962 P1637 PETROLOGY REF: ENV 3703 P1614

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: JLC DATE: 21/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EC 48**

MAP: 6335 UNIT: 96. NAME: EC SEQ. NO: 48 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR GRP SSH LEASE: EL 543

SPONSOR CODE: CSR2 SPONSOR: CSR LIMITED MINERALS DIVISION EXPLORATION GROUP

REFERENCE: 8TH & FINAL QTLY REPT OCT 1981 SAMREF CNO: .

OTHER NAME: ELIZABETH CREEK 48 REF. TYPE: COR ENV No: 3703 .

TARGET COMMODITY: BM TOTAL DEPTH: 272.00 m COMPLETION DATE: 27/10/1981

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 272 TYPE 2: C LENGTH: . LOCATION: W

EASTING: 715972.84 NORTHING: 6534820.21 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: O

*LATITUDE: 31°18'03.1" LONGITUDE: 137°16'09.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 75.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: G LOGGED BY: GEOL GEOLOG REF: ENV 3703 P1401

GROUND (Targetting) SURVEYS: ? GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: A PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3703 F(XI)-2

GEOCHEMISTRY REF: ENV 3703 P1401 6962 P1641 PETROLOGY REF: ENV 3703 P1617

OTHER: WATER REF: ENV 3703 P1258 GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: JLC DATE: 21/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EC 49**

MAP: 6335 UNIT: 97 NAME: EC SEQ. NO: 49 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR GRP SSH LEASE: EL 543

SPONSOR CODE: CSR2 SPONSOR: CSR MINERALS DIVISION EXPLORATION GROUP

REFERENCE: 8TH & FINAL QTLY REPT OCT 1981 SAMREF CNO: .

OTHER NAME: ELIZABETH CREEK 49 REF. TYPE: COR ENV No: 3703 .

TARGET COMMODITY: BM TOTAL DEPTH: 240.00 m COMPLETION DATE: 18/10/1981

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 240 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 715236.13 NORTHING: 6536216.14 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: O

*LATITUDE: 31°17'18.3" LONGITUDE: 137°15'40.1" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.00 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 75.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3703 P1415

GROUND (Targetting) SURVEYS: ? GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY: Y

WATER: A PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3703 F(XI)-8

GEOCHEMISTRY REF: ENV 3703 P1415 6962 P1642 PETROLOGY REF: ENV 3703 P1618

OTHER: WATER REF: ENV 3703 P1258 GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: JLC DATE: 21/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EC 40**

MAP: 6335 UNIT: 94 NAME: EC SEQ. NO: 40 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 543

SPONSOR CODE: CSR2 SPONSOR: CSR LIMITED MINERALS DIVISION EXPLORATION GROUP

REFERENCE: 8TH & FINAL QTLY REPT OCT 1981 SAMREF CNO: .

OTHER NAME: ELIZABETH CREEK 40 REF. TYPE: COR ENV No: 3703 .

TARGET COMMODITY: BM TOTAL DEPTH: 596.00 m COMPLETION DATE: 04/12/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 379 TYPE 2: C LENGTH: 217 LOCATION: G

EASTING: 715968.98 NORTHING: 6529543.68 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: O

*LATITUDE: 31°20'54.3" LONGITUDE: 137°16'13.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 80.00 HUNDRED: SECTION: STATUS: OP CA

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3703 P1291 P1323

GROUND (Targetting) SURVEYS: ? GEOPHYS.(Down Hole): CL GEOCHEMISTRY: Y PETROLOGY: Y

WATER: A PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3703 P1555 F(XI)-11

GEOCHEMISTRY REF: ENV 3703 P1291 6962 P1634 PETROLOGY REF: ENV 3703 P1625

OTHER: WATER REF: ENV 3703 P1258 GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: JLC DATE: 21/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EC 47**

MAP: 6335 UNIT: 95 NAME: EC SEQ. NO: 47 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR SSH LEASE: EL 543

SPONSOR CODE: CSR2 SPONSOR: CSR LIMITED MINERALS DIVISION EXPLORATION GROUP

REFERENCE: 8TH & FINAL QTLY REPT OCT 1981 SAMREF CNO: .

OTHER NAME: ELIZABETH CREEK 47 REF. TYPE: COR ENV No: 3703 .

TARGET COMMODITY: BM TOTAL DEPTH: 370.95 m COMPLETION DATE: 08/12/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 200 TYPE 2: C LENGTH: 171. LOCATION: G

EASTING: 714066.48 NORTHING: 6537694.32 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: O

*LATITUDE: 31°16'31.1" LONGITUDE: 137°14'54.7" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 95.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3703 P1298 P1391

GROUND (Targetting) SURVEYS: ? GEOPHYS.(Down Hole): CL GEOCHEMISTRY: PETROLOGY:

WATER: N PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 3703 P1557 F(XI)-5

GEOCHEMISTRY REF: ENV 3703 P1298 6962 P1639 PETROLOGY REF: ENV 3703 P1619

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: MAG SUS ON P1557, SPEC GRAV ON P1564

CHECKED: JLC DATE: 21/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SAR 3 (PRL 4)**

MAP: 6335 UNIT: 106 NAME: SAR SEQ. NO: 3 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 226

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION (PTY) LTD

REFERENCE: 2ND & 4TH QTLY REPTS JUL 1976 JAN 1977 SAMREF CNO: 0001985

OTHER NAME: PRL 4 (RED LAKE 4) REF. TYPE: COR ENV No: 2703 .

TARGET COMMODITY: BM TOTAL DEPTH: 286.44 m COMPLETION DATE: 1/12/1976

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 177 TYPE 2: C LENGTH: 109 LOCATION: G

EASTING: 726500.00 NORTHING: 6539000.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: P

*LATITUDE: 31°15'40.2" LONGITUDE: 137°22'43.5" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: C

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid: . (Lnorth > T):* .

ELEVATION: + 80.40 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2703 P26 F2703-3

GROUND (Targetting) SURVEYS: P? GEOPHYS.(Down Hole): L GEOCHEMISTRY: PETROLOGY:

WATER: H PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ? GEOPHYS DH. REF: ENV 2703 P110

GEOCHEMISTRY REF: ENV 2703 P26 PETROLOGY REF:

OTHER: WATER REF: ENV 2703 P15,26 GEOCHRONOLOGY REF:

COMMENTS: COMPLETED IN PANDURRA FM. LOCATION PLOTTED FROM LOCALITY PLAN +/ 1Km.

CHECKED: BJV/JLC DATE: 21/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SAR 4 (PRL 5)**

MAP: 6335 UNIT: 107 NAME: SAR SEQ. NO: 4 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 226

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION (PTY) LTD

REFERENCE: 2ND &4TH QTLY REPTS JULY 1976 JAN 1977 SAMREF CNO: 0001985

OTHER NAME: PRL 5 (RED LALE 5 REF. TYPE: COR ENV No: 2703 .

TARGET COMMODITY: BM TOTAL DEPTH: 333.40 m COMPLETION DATE: 9/12/1976

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 185 TYPE 2: C LENGTH: 148 LOCATION: G

EASTING: 721200.00 NORTHING: 6532700.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: P

*LATITUDE: 31°19'08.4" LONGITUDE: 137°19'28.3" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: A

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid: . (Lnorth > T):* .

ELEVATION: + 100.3 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2703 P28 F2703-4

GROUND (Targetting) SURVEYS: P? GEOPHYS.(Down Hole): GEOCHEMISTRY: PETROLOGY:

WATER: H PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ? GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2703 P28 PETROLOGY REF:

OTHER: WATER REF: ENV 2703 P15,28 GEOCHRONOLOGY REF:

COMMENTS: COMPLETED IN PANDURRA FM. LOCATION PLOTTED FROM LOCALITY PLAN +/ 1Km.

CHECKED: BJV/JLC DATE: 21/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT -- DRILLHOLE DATABASE** | **HOLE NO: PY 4**

MAP: 6335 UNIT: 104 NAME: PY SEQ. NO: 4 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 951

SPONSOR CODE: CSR4 SPONSOR: CSR LIMITED ALUMINIUM MINERALS & CHEMICALS EXPL. GRP.

REFERENCE: DDH PERNATTY 4 (PY4) COMPLETION REPT. SAMREF CNO: 0005224

OTHER NAME: PERNATTY 4 REF. TYPE: COR ENV No: 6962 .

TARGET COMMODITY: BM TOTAL DEPTH: 1015.00 m COMPLETION DATE: 17/01/1983

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 9 TYPE 2: C LENGTH: 1006 LOCATION: G

EASTING: 711700.00 NORTHING: 6517500.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: O

*LATITUDE: 31°27'28.1" LONGITUDE: 137°13'40.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: T

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 58.00 HUNDRED: SECTION: STATUS: CA ST SH

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 6962 P661

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6962 P660 GEOPHYS DH. REF: ENV 6962 P701

GEOCHEMISTRY REF: ENV 6962 P674 P1659 PETROLOGY REF: ENV 6962 P686

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: JLC/BJV DATE: 21/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SAR 2 (PRL 3)**

MAP: 6335 UNIT: 105 NAME: SAR SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 226

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION (PTY) LTD

REFERENCE: 2ND & 4TH QTLY REPTS JULY 1976 JAN 1977 SAMREF CNO: 0001985

OTHER NAME: PRL 3 (RED LAKE 3) REF. TYPE: COR ENV No: 2703 .

TARGET COMMODITY: BM TOTAL DEPTH: 415.20 m COMPLETION DATE: 13/11/1976

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 155 TYPE 2: C LENGTH: 260. LOCATION: G

EASTING: 724390.00 NORTHING: 6520252.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: P

*LATITUDE: 31°25'50.1" LONGITUDE: 137°21'39.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: C

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 78.9 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2703 P24 F2703-2

GROUND (Targetting) SURVEYS: P? GEOPHYS.(Down Hole): GEOCHEMISTRY: PETROLOGY:

WATER: H PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ? GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2703 P24 F-2 PETROLOGY REF:

OTHER: WATER REF: ENV 2703 P15,24 GEOCHRONOLOGY REF:

COMMENTS: LOG ALSO APPEARS AS F3245(VII) 2 WITH COORDS CONFLICT WITH FIGS IN ENV 2703

CHECKED: BJV/JLC DATE: 21/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: PY 2**

MAP: 6335 UNIT: 102 NAME: PY SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 543

SPONSOR CODE: CSR2 SPONSOR: CSR LIMITED MINERALS DIVISION EXPLORATION GROUP

REFERENCE: DRILL HOLE COMPLETION REPT PY2 FEB 1983 SAMREF CNO: 0005222

OTHER NAME: PERNATTY 2 REF. TYPE: COR ENV No: 6962 .

TARGET COMMODITY: BM TOTAL DEPTH: 926.60 m COMPLETION DATE: 07/06/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 7 TYPE 2: LENGTH: 919 LOCATION: G

EASTING: 710160.00 NORTHING: 6523120.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: S

*LATITUDE: 31°24'26.7" LONGITUDE: 137°12'38.2" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: T

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 97.57 HUNDRED: SECTION: STATUS: CA ST

GEOL LOG EXISTS: G LOGGED BY: GEOL GEOLOG REF: ENV 6962 P318 P477

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3703 P620 6962 P483 GEOPHYS DH. REF: ENV 6962 P492 P451

GEOCHEMISTRY REF: ENV 6962 P496 P1650 PETROLOGY REF: ENV 6962 P508

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DOWN HOLE LOGS F6962 16TO19

CHECKED: JLC/BJV DATE: 21/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: PY 3**

MAP: 6335 UNIT: 103 NAME: PY SEQ. NO: 3 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 951

SPONSOR CODE: CSR2 SPONSOR: CSR LIMITED MINERALS DIVISION EXPLORATION GROUP

REFERENCE: DRILL HOLE COMPLETION REPT PY3 FEB 1983 SAMREF CNO: 0005223

OTHER NAME: PERNATTY 3 REF. TYPE: COR ENV No: 6962 .

TARGET COMMODITY: BM TOTAL DEPTH: 1288.30 m COMPLETION DATE: 29/01/1982

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 493 TYPE 2: C LENGTH: 795 LOCATION: G

EASTING: 708860.00 NORTHING: 6524600.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: S

*LATITUDE: 31°23'39.5" LONGITUDE: 137°11'47.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: T

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 68.20 HUNDRED: SECTION: STATUS: CA ST

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 6962 P550 P570

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY: Y

WATER: A PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: SEISMIC : Y

GROUND SURVEY REF: ENV 3703 P620 6962 P556 GEOPHYS DH. REF: ENV 6962 P20,629 F-20-23

GEOCHEMISTRY REF: ENV 6962 P570 1653 PETROLOGY REF: ENV 6962 P586

OTHER: SEISMIC REF: ENV 3703 P751 GEOCHRONOLOGY REF:

COMMENTS: ENV 3703 P1258=WATER P1545=MAG SUS P1562=SG F(XI)-10,12,14,15=DNHOLE LOGS.

CHECKED: JLC/BJV DATE: 21/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EC 21**

MAP: 6335 UNIT: 100 NAME: EC SEQ. NO: 21 CLASS: MW
CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR GRP SSH LEASE: EL 543
SPONSOR CODE: CSR2 SPONSOR: CSR LIMITED MINERALS DIVISION EXPLORATION GROUP
REFERENCE: 2ND QTLY REPT APR 1980 SAMREF CNO: .
OTHER NAME: ELIZABETH CREEK 21 REF. TYPE: COR ENV No: 3703 .
TARGET COMMODITY: BM TOTAL DEPTH: 1002.00 m COMPLETION DATE: 23/03/1980
DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 385 TYPE 2: C LENGTH: 617 LOCATION: G
EASTING: 709400.00 NORTHING: 6526500.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: S
*LATITUDE: 31°22'37.5" LONGITUDE: 137°12'06.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:
DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .
ELEVATION: + 70.61 HUNDRED: SECTION: STATUS: CA ST CO
GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3703 P355 P432 P453
GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY: Y
WATER: A PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :
GROUND SURVEY REF: ENV 3703 P437 GEOPHYS DH. REF: ENV 3703 P284 F(III)-26
GEOCHEMISTRY REF: ENV 3703 P282 P355 P519 PETROLOGY REF: ENV 3703 P465
OTHER: WATER REF: ENV 3703 P627,282 GEOCHRONOLOGY REF:
COMMENTS: ADDITIONAL GEOCHEM ENV 6962 P1627 BAAS BECKING REPT?,COLLAPSED BELOW 805m
CHECKED: JLC/BJV DATE: 21/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: PY 1**

MAP: 6335 UNIT: 101 NAME: PY SEQ. NO: 1 CLASS: MW
CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 543
SPONSOR CODE: CSR2 SPONSOR: CSR LIMITED MINERALS DIVISION EXPLORATION GROUP
REFERENCE: 6TH QTLY REPT APR 1981 COMPL RPT FEB 83 SAMREF CNO: 0005221
OTHER NAME: PERNATTY 1 REF. TYPE: COR ENV No: 3703 6962.
TARGET COMMODITY: BM TOTAL DEPTH: 1293.30 m COMPLETION DATE: 20/03/1981
DRILLTECH: Dia SAMPLE: TYPE 1: C LENGTH: 1293 TYPE 2: LENGTH: . LOCATION: G
EASTING: 709000.00 NORTHING: 6516000.00 ZONE: 53 MSG CONV: 1 10' LOCATION ACCURACY: S
*LATITUDE: 31°28'18.5" LONGITUDE: 137°11'59.7" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: T
DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .
ELEVATION: + 57.42 HUNDRED: SECTION: STATUS: CA ST
GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3707 P724 6962 P391
GROUND (Targetting) SURVEYS: P? GEOPHYS.(Down Hole): CL GEOCHEMISTRY: Y PETROLOGY: Y
WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: SEISMIC :
GROUND SURVEY REF: ENV 3703 P541 F(IV)-1 GEOPHYS DH. REF: ENV 3703 P727 6962 F-14
GEOCHEMISTRY REF: ENV 3703 P724 6962 P1644 PETROLOGY REF: ENV 6962 P425
OTHER: SEISMIC REF: ENV 3703 P573 GEOCHRONOLOGY REF:
COMMENTS: DOWN HOLE LOGS ENV 6962 F-14,15
CHECKED: JLC/BJV DATE: 21/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE | HOLE NO: SAR 8 (PRL 21)

MAP: 6334 UNIT: 59. NAME: SAR SEQ. NO: 8 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 389

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LIMITED

REFERENCE: QTLY REPTS 6 AUG 79;EL676 4-6 JUL OCT81 SAMREF CNO: 0001986

OTHER NAME: PRL 21 (RED LAKE 21) REF. TYPE: COR ENV No: 3245 .

TARGET COMMODITY: BM TOTAL DEPTH: 1338.00 m COMPLETION DATE: / /1981

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 364 TYPE 2: C LENGTH: 974. LOCATION: G

EASTING: 723420.00 NORTHING: 6502750.00 ZONE: 53 MSG CONV: 1 11' LOCATION ACCURACY: S

*LATITUDE: 31°35'18.8" LONGITUDE: 137°21'16.5" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: C

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 71.00 HUNDRED: SECTION: STATUS: CA ST

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3245 P186 F3245(VIII)

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): CL GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: GPHY LOGGER : Y

GROUND SURVEY REF: ENV 3245 P530 GEOPHYS DH. REF: ENV 3245 P307 P334 P186

GEOCHEMISTRY REF: ENV 3245 P86 F(VII)-1 2 3 PETROLOGY REF: ENV 3245 P206 P210 P463

OTHER: GPHY LOGGER REF: ENV F3245(VII)-4 to 12 GEOCHRONOLOGY REF:

COMMENTS: PRL21=Precollar Commonwealth Catch grid:10880Em 667Nm

CHECKED: BJV/JLC DATE: 17/07/92 UPDATE: DATE: / /

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STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE | HOLE NO: SAR 9 (PRL 23)

MAP: 6334 UNIT: 60. NAME: SAR SEQ. NO: 9 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR GRP SSH LEASE: EL 676

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LIMITED

REFERENCE: 7TH QTLY REPT MARCH 1982 SAMREF CNO: 0001986

OTHER NAME: PRL 23 (RED LAKE 23) REF. TYPE: COR ENV No: 3245 .

TARGET COMMODITY: BM TOTAL DEPTH: 1246.00 m COMPLETION DATE: 01/03/1982

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 303 TYPE 2: C LENGTH: 943. LOCATION: G

EASTING: 722198.00 NORTHING: 6505216.00 ZONE: 53 MSG CONV: 1 11' LOCATION ACCURACY: P

*LATITUDE: 31°33'59.6" LONGITUDE: 137°20'28.2" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: C

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 72.04 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3245 P528 F(IX)-4 5 6

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3245 P532 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV F3245(IX)-4 5 6 PETROLOGY REF: ENV F3245(IX)-4 5 6

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOCATION FROM W.NEWTON DBASE

CHECKED: BJV/JLC DATE: 17/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SAR 6 (PRL 11)**

MAP: 6334 UNIT: 57. NAME: SAR SEQ. NO: 6 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 226

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LIMITED

REFERENCE: 4TH & 6TH QTLY REPTS JAN JULY 1977 SAMREF CNO: 0001985

OTHER NAME: PRL 11 (RED LAKE 11) REF. TYPE: COR ENV No: 2703 .

TARGET COMMODITY: BM TOTAL DEPTH: 243.20 m COMPLETION DATE: 11/02/1977

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 210 TYPE 2: C LENGTH: 33. LOCATION: G

EASTING: 722100.00 NORTHING: 6500300.00 ZONE: 53 MSG CONV: 1 11' LOCATION ACCURACY: P

*LATITUDE: 31°36'39.3" LONGITUDE: 137°20'28.5" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: C

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid: . (Lnorth > T):* .

ELEVATION: + 83.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2703 P67 F2703-6

GROUND (Targetting) SURVEYS: P? GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY:

WATER: N PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 2703 P115

GEOCHEMISTRY REF: ENV 2703 P67 F-6 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV/JLC DATE: 17/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SAR 7 (PRL 19)**

MAP: 6334 UNIT: 58. NAME: SAR SEQ. NO: 7 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 389

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LIMITED

REFERENCE: 2ND & 5TH QTLY REPTS AUG 1978 MAY 1979 SAMREF CNO: 0001986

OTHER NAME: PRL 19 (RED LAKE 19) REF. TYPE: COR ENV No: 3245 .

TARGET COMMODITY: BM TOTAL DEPTH: 665.00 m COMPLETION DATE: 03/06/1979

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 382 TYPE 2: C LENGTH: 283. LOCATION: G

EASTING: 731545.00 NORTHING: 6500270.00 ZONE: 53 MSG CONV: 1 11' LOCATION ACCURACY: S

*LATITUDE: 31°36'33.5" LONGITUDE: 137°26'26.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: C

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid: . (Lnorth > T):* .

ELEVATION: + 80.00 HUNDRED: SECTION: STATUS: CA

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 3245 P41 F3245(VII)-7

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L? GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2703 P102 GEOPHYS DH. REF: SADME

GEOCHEMISTRY REF: ENV 3245 P41 F3245(VII)-7 PETROLOGY REF: ENV 3824 P191

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: PRL19=Precollar Hole sited on Treasure Dam magnetic anomaly-grid "B"

CHECKED: BJV/JLC DATE: 17/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SAR 1 (PRL 1)**

MAP: 6334 UNIT: 55. NAME: SAR SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 226

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LIMITED

REFERENCE: 2ND-4TH QTLY REPTS JUL OCT 1976 JAN 1977 SAMREF CNO: 0001985

OTHER NAME: PRL 1 (RED LAKE 1) REF. TYPE: COR ENV No: 2703 .

TARGET COMMODITY: BM TOTAL DEPTH: 169.07 m COMPLETION DATE: 06/11/1976

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 143 TYPE 2: C LENGTH: 26 . LOCATION: G

EASTING: 729175.00 NORTHING: 6485525.00 ZONE: 53 MSG CONV: 1 11' LOCATION ACCURACY: S

*LATITUDE: 31°44'33.7" LONGITUDE: 137°25'09.2" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: A

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 57.83 HUNDRED: SECTION: STATUS: CA

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 2703 P20 F-1 3245 (7)-1

GROUND (Targetting) SURVEYS: P? GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY:

WATER: H PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 2703 P132

GEOCHEMISTRY REF: ENV 2703 P20 PETROLOGY REF:

OTHER: WATER REF: ENV 2703 P15,20 GEOCHRONOLOGY REF:

COMMENTS: PRL1=Precollar ENV 3703 Geological log is incomplete.

CHECKED: BJV/JLC DATE: 17/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: SAR 5 (PRL 10)**

MAP: 6334 UNIT: 56. NAME: SAR SEQ. NO: 5 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 226

SPONSOR CODE: ASP SPONSOR: AUSTRALIAN SELECTION PTY LIMITED

REFERENCE: 4TH QTLY REPT JAN 1977 SAMREF CNO: 0001985

OTHER NAME: PRL 10 (RED LAKE 10) REF. TYPE: COR ENV No: 2703 .

TARGET COMMODITY: BM TOTAL DEPTH: 199.80 m COMPLETION DATE: 17/12/1976

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 150 TYPE 2: C LENGTH: 50. LOCATION: G

EASTING: 722300.00 NORTHING: 6499400.00 ZONE: 53 MSG CONV: 1 11' LOCATION ACCURACY: P

*LATITUDE: 31°37'08.3" LONGITUDE: 137°20'36.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY: C

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 73.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2703 P65 F2703-5

GROUND (Targetting) SURVEYS: P? GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY:

WATER: N PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2703 P65 F-5 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV/JLC DATE: 17/07/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: EX 162

MAP: 6333 UNIT: 156. NAME: EX SEQ. NO: 162 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 332

SPONSOR CODE: PAC SPONSOR: PACMINEX PTY LIMITED

REFERENCE: FIFTH QTLY RPT SEPT 1978 SAMREF CNO: 0002709

OTHER NAME: REF. TYPE: COR ENV No: 3024 .

TARGET COMMODITY: BM TOTAL DEPTH: 196.00 m COMPLETION DATE: 17/06/1978

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 196 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 725646. NORTHING: 6453339. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°02'00.7" LONGITUDE: 137°23'22.1" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 128. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3024 P229

GROUND (Targetting) SURVEYS: M GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3024 P173-175 GEOPHYS DH. REF: ENV 3024 F(II)-7,8

GEOCHEMISTRY REF: ENV 3024 P229 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: DRILLHOLE LOCATION & ELEV ESTIMATED FROM COMPANY MAP & SADME CONTOUR MAP

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EX 171**

MAP: 6333 UNIT: 154. NAME: EX SEQ. NO: 171 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 534

SPONSOR CODE: CSR SPONSOR: CSR LIMITED

REFERENCE: 1ST QTLY RPT (PART 1) SEPT 1979 SAMREF CNO: 0002709

OTHER NAME: REF. TYPE: COR ENV No: 3552 .

TARGET COMMODITY: BM TOTAL DEPTH: 72.0 m COMPLETION DATE: 09/05/1979

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 72 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 724953. NORTHING: 6417723. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°21'16.9" LONGITUDE: 137°23'25.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 85. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3552 P68

GROUND (Targetting) SURVEYS: PG GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3552 P11,12 GEOPHYS DH. REF: ENV 3552 P22

GEOCHEMISTRY REF: ENV 3552 P68 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMEN S: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EX 182**

MAP: 6333 UNIT: 155. NAME: EX SEQ. NO: 182 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 534

SPONSOR CODE: CSR SPONSOR: CSR LIMITED

REFERENCE: 1ST QTLY RPT (PART 2) DEC 1979 SAMREF CNO: 0002709

OTHER NAME: REF. TYPE: COR ENV No: 3552 .

TARGET COMMODITY: BM TOTAL DEPTH: 120.0 m COMPLETION DATE: 25/10/1979

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 120 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 710916. NORTHING: 6433807. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°12'44.8" LONGITUDE: 137°14'16.4" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 140. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3552 P137

GROUND (Targetting) SURVEYS: PG GEOPHYS.(Down Hole): N GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3552 P11,12, GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 3552 P137 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: BOTTOM HOLE VOLCANICS POSSIBLY "MONOMICT" CONGLOMERATE (JLC)

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EX 114**

MAP: 6333 UNIT: 152. NAME: EX SEQ. NO: 114 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 50

SPONSOR CODE: MGU SPONSOR: MOUNT GUNSON MINES PTY LTD

REFERENCE: QTLY RPT ENDING MARCH 1974 SAMREF CNO: 0002710

OTHER NAME: REF. TYPE: COR ENV No: 2273 .

TARGET COMMODITY: BM TOTAL DEPTH: 18.0 m COMPLETION DATE: 08/06/1974

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 18 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 722780. NORTHING: 6413593. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°23'32.5" LONGITUDE: 137°22'06.3" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 110. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2273 P171 6667 P117

GROUND (Targetting) SURVEYS: M GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2273 P6 F(I)-1 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2273 P171 PETROLOGY REF: ENV 6611 P859

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOG AMENDED AFTER PETROLOGY. HOLE LOCAL & ELEV ESTIMATED FROM CO PLANS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EX 169**

MAP: 6333 UNIT: 153. NAME: EX SEQ. NO: 169 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 534

SPONSOR CODE: CSR SPONSOR: CSR LIMITED

REFERENCE: 1ST QTLY RPT (PART 1) SEPT 1979 SAMREF CNO: 0002709

OTHER NAME: REF. TYPE: COR ENV No: 3552 .

TARGET COMMODITY: BM TOTAL DEPTH: 40.0 m COMPLETION DATE: 08/05/1979

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 40 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 724664. NORTHING: 6412497. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 32°24'06.7" LONGITUDE: 137°23'19.3" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 100. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 3552 P63

GROUND (Targetting) SURVEYS: PG GEOPHYS.(Down Hole): N GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 3552 P11,12 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 3552 P63 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: EX 105

MAP: 6333 UNIT: 150. NAME: EX SEQ. NO: 105 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 50

SPONSOR CODE: MGU SPONSOR: MOUNT GUNSON MINES PTY LTD

REFERENCE: QTLY RPT ENDING MARCH 1974 SAMREF CNO: 0002710

OTHER NAME: REF. TYPE: COR ENV No: 2273 .

TARGET COMMODITY: BM TOTAL DEPTH: 18. m COMPLETION DATE: 27/03/1974

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 18 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 715994. NORTHING: 6409060. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°26'04.4" LONGITUDE: 137°17'50.5" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 139. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2273 P162 6667 P108

GROUND (Targetting) SURVEYS: M GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2273 P6 F(I)-1 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2273 P162 PETROLOGY REF: ENV 6611 P852

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOG AMENDED AFTER PETROLOGY. HOLE LOCAL & ELEV ESTIMATED FROM CO PLANS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: EX 108

MAP: 6333 UNIT: 151. NAME: EX SEQ. NO: 108 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 50

SPONSOR CODE: MGU SPONSOR: MOUNT GUNSON MINES PTY LTD

REFERENCE: QTLY RPT ENDING MARCH 1974 SAMREF CNO: 0002710

OTHER NAME: REF. TYPE: COR ENV No: 2273 .

TARGET COMMODITY: BM TOTAL DEPTH: 33.0 m COMPLETION DATE: 28/03/1974

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 33 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 718279. NORTHING: 6412813. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°24'01.0" LONGITUDE: 137°19'14.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 118. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2273 P165 6667 P111

GROUND (Targetting) SURVEYS: M GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2273 P6 F(I)-1 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2273 P165 PETROLOGY REF: ENV 6611 P858

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOG AMENDED AFTER PETROLOGY. HOLE LOCAL & ELEV ESTIMATED FROM CO PLANS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EX 97**

MAP: 6333 UNIT: 148. NAME: EX SEQ. NO: 97 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 50

SPONSOR CODE: MGU SPONSOR: MOUNT GUNSON MINES PTY LTD

REFERENCE: QTLY RPT ENDING MARCH 1974 SAMREF CNO: 0002710

OTHER NAME: REF. TYPE: COR ENV No: 2273 .

TARGET COMMODITY: BM TOTAL DEPTH: 17.0 m COMPLETION DATE: 23/03/1974

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 17 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 723761. NORTHING: 6406461. ZONE: 53 ZONE AZ: . LOCATION ACCURACY:

*LATITUDE: 32°27'23.2" LONGITUDE: 137°22'49.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 96. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2273 P154 6667 P100

GROUND (Targetting) SURVEYS: M GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2273 P6 F(I)-1 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2273 P154 PETROLOGY REF: ENV 6611 P848

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOG AMENDED AFTER PETROLOGY. HOLE LOCAL & ELEV ESTIMATED FROM CO PLANS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: EX 100**

MAP: 6333 UNIT: 149. NAME: EX SEQ. NO: 100 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 50

SPONSOR CODE: MGU SPONSOR: MOUNT GUNSON MINES PTY LTD

REFERENCE: QTLY RPT ENDING MARCH 1974 SAMREF CNO: 0002710

OTHER NAME: REF. TYPE: COR ENV No: 2273 .

TARGET COMMODITY: BM TOTAL DEPTH: 9.0 m COMPLETION DATE: 26/03/1974

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 9 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 715310. NORTHING: 6404819. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°28'22.5" LONGITUDE: 137°17'27.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 136. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2273 P157 6667 P103

GROUND (Targetting) SURVEYS: M GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2273 P6 F(I)-1 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2273 P157 PETROLOGY REF: ENV 6611 P849

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOG AMENDED AFTER PETROLOGY. HOLE LOCAL & ELEV ESTIMATED FROM CO PLANS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: EX 34

MAP: 6333 UNIT: 56. NAME: EX SEQ. NO: 34 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 50

SPONSOR CODE: MGU SPONSOR: MOUNT GUNSON MINES PTY LTD

REFERENCE: QTLY RPT ENDING MARCH 1974 SAMREF CNO: 0002710

OTHER NAME: REF. TYPE: COR ENV No: 2273 .

TARGET COMMODITY: BM TOTAL DEPTH: 38.1 m COMPLETION DATE: 18/10/1973

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 38 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 723493. NORTHING: 6408843. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°26'06.1" LONGITUDE: 137°22'37.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 101. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2273 P91 6667 P37

GROUND (Targetting) SURVEYS: M GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2273 P6 F(I)-1 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2273 P91 PETROLOGY REF: ENV 6611 P834

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOG AMENDED AFTER PETROLOGY. HOLE LOCAL & ELEV ESTIMATED FROM CO PLANS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: EX 38

MAP: 6333 UNIT: 147. NAME: EX SEQ. NO: 38 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP LEASE: EL 50

SPONSOR CODE: MGU SPONSOR: MOUNT GUNSON MINES PTY LTD

REFERENCE: QTLY RPT ENDING MARCH 1974 SAMREF CNO: 0002710

OTHER NAME: REF. TYPE: COR ENV No: 2273 .

TARGET COMMODITY: BM TOTAL DEPTH: 56.4 m COMPLETION DATE: 01/11/1973

DRILLTECH: RtH SAMPLE: TYPE 1: M LENGTH: 56 TYPE 2: LENGTH: . LOCATION: ?

EASTING: 719543. NORTHING: 6408357. ZONE: 53 ZONE AZ: . LOCATION ACCURACY: P

*LATITUDE: 32°26'24.7" LONGITUDE: 137°20'06.9" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 118. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 2273 P95 6667 P38

GROUND (Targetting) SURVEYS: M GEOPHYS.(Down Hole): GEOCHEMISTRY: Y PETROLOGY: Y

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 2273 P6 F(I)-1 GEOPHYS DH. REF:

GEOCHEMISTRY REF: ENV 2273 P95 PETROLOGY REF: ENV 6611 P838

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOG AMENDED AFTER PETROLOGY. HOLE LOCAL & ELEV ESTIMATED FROM CO PLANS

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **NHD 1**

MAP: 6435 UNIT: 5 NAME: NHD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORP PTY LTD EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ REPT JUNE 1986 SAMREF CNO: 0001473.

OTHER NAME: NOLTENIUS HILL D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM U Au TOTAL DEPTH: 643.20 m COMPLETION DATE: 26/06/1979

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 300 TYPE 2: C LENGTH: 343. LOCATION: G

EASTING: 743700.00 NORTHING: 6537000.00 ZONE: 53 MSG CONV: 1 26' LOCATION ACCURACY: P

*LATITUDE: 31°16'32.6" LONGITUDE: 137°33'35.0" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 140.00 HUNDRED: SECTION: STATUS:

GEOL LOG EXISTS: D LOGGED BY: GEOL GEOLOG REF: ENV 6562 P315 F6562(I)-2

GROUND (Targetting) SURVEYS: N GEOPHYS.(Down Hole): LC GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: GEOPHYS DH. REF: ENV 6562 P660 F6562(I)-3

GEOCHEMISTRY REF: ENV 6562 P654 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV/JLC DATE: 21/07/92 UPDATE: DATE: / /

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**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | HOLE NO: **MRD-1**

MAP: 6436 UNIT: 6 . NAME: MRD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GRP SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ RPT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: MURDIE D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 918.00 m COMPLETION DATE: 18/11/1982

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 104 TYPE 2: C LENGTH: 814 LOCATION: G

EASTING: 764620.00 NORTHING: 6570720.00 ZONE: 53 MSG CONV: 1.24 LOCATION ACCURACY:

*LATITUDE: 30°58'02.2" LONGITUDE: 137°46'13.5" GRID (ANS/CLK): ANS* DNHOLE ORIENTn SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 31.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P304 P442

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 6562 P39 F-32 GEOPHYS DH. REF: ENV 6562 P643

GEOCHEMISTRY REF: ENV 6562 P446 P643 PETROLOGY REF: ENV 6562 P444

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: TD 1**

MAP: 6436 UNIT: 14. NAME: TD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR SSH LEASE: EL 1338

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ REPORT OCT 1991 SAMREF CNO: 0005709

OTHER NAME: TORRENS D1 REF. TYPE: COR ENV No: 8482 .

TARGET COMMODITY: BM Au U TOTAL DEPTH: 498.00 m COMPLETION DATE: 10/02/1977

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 58 TYPE 2: C LENGTH: 440. LOCATION: ?

EASTING: 750800.00 NORTHING: 6589685.00 ZONE: 53 ZONE AZ: 1.24 LOCATION ACCURACY:

*LATITUDE: 30°47'57.6" LONGITUDE: 137°37'16.3" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 32.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: LOGGED BY: GEOL GEOLOG REF: ENV 8482 P116,176

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 8482 F-6 P588 GEOPHYS DH. REF: ENV 8482 P308

GEOCHEMISTRY REF: ENV 8482 P308 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

**********

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: TD 2**

MAP: 6436 UNIT: 15. NAME: TD SEQ. NO: 2 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR SSH LEASE: EL 1338

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ REPORT OCT 1991 SAMREF CNO: 0005709

OTHER NAME: TORRENS D2 REF. TYPE: COR ENV No: 8482 .

TARGET COMMODITY: BM Au U TOTAL DEPTH: 881.00 m COMPLETION DATE: 16/12/1981

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 36 TYPE 2: C LENGTH: 845. LOCATION: ?

EASTING: 753640. NORTHING: 6591090. ZONE: 53 ZONE AZ: 1.24 LOCATION ACCURACY:

*LATITUDE: 30°47'09.9" LONGITUDE: 137°39'01.8" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 31.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: LOGGED BY: GEOL GEOLOG REF: ENV 8482 P122,178

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 8482 F-6 P588 GEOPHYS DH. REF: ENV 8482 P323

GEOCHEMISTRY REF: ENV 8482 P323 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOCAL GRID 95400N 203000E. NO AMG FOUND. ESTIMATED FROM LOCALITY PLAN

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: TD 3**

MAP: 6436 UNIT: 16. NAME: TD SEQ. NO: 3 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: GCR SSH LEASE: EL 1338

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ REPORT OCT 1991 SAMREF CNO: 0005709

OTHER NAME: TORRENS D1 REF. TYPE: COR ENV No: 8482 .

TARGET COMMODITY: BM Au U TOTAL DEPTH: 733.40 m COMPLETION DATE: 15/06/1982

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 34 TYPE 2: C LENGTH: 699. LOCATION: ?

EASTING: 751900. NORTHING: 6594490. ZONE: 53 ZONE AZ: 1.24 LOCATION ACCURACY:

*LATITUDE: 30°45'20.9" LONGITUDE: 137°37'53.4" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 34. HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: LOGGED BY: GEOL GEOLOG REF: ENV 8482 P132,184

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): C GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 8482 F-6 P588 GEOPHYS DH. REF: ENV 8482 P338

GEOCHEMISTRY REF: ENV 8482 P338 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS: LOCAL GRID 99000N,203100E. NO AMG, NO ELEVATION. ESTIMATED FROM CO PLAN

CHECKED: DATE: / / UPDATE: DATE: / /

**********

**STUART SHELF BASEMENT PROJECT — DRILLHOLE DATABASE** | **HOLE NO: WWD 1**

MAP: 6436 UNIT: 11. NAME: WWD SEQ. NO: 1 CLASS: MW

CONFIDENTIAL STATUS (O/C): O PROVINCE CODES: SSH LEASE: EL 1316

SPONSOR CODE: WMC4 SPONSOR: WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

REFERENCE: PARTIAL RELINQ REPORT JUNE 1986 SAMREF CNO: 0001473

OTHER NAME: WEST WELL D1 REF. TYPE: COR ENV No: 6562 .

TARGET COMMODITY: BM TOTAL DEPTH: 762.10 m COMPLETION DATE: 13/06/1978

DRILLTECH: PrD SAMPLE: TYPE 1: M LENGTH: 72 TYPE 2: C LENGTH: 690. LOCATION: G

EASTING: 764650.00 NORTHING: 6621440.00 ZONE: 53 ZONE AZ: 1.24 LOCATION ACCURACY:

*LATITUDE: 30°30'36.4" LONGITUDE: 137°45'27.6" GRID (ANS/CLK): ANS* DNHOLE ORIENTn. SURVY:

DIP ANGLE: - 90.0 AZIMUTH (True): . *Local Grid:* . *(Lnorth > T):* .

ELEVATION: + 32.00 HUNDRED: SECTION: STATUS: UK

GEOL LOG EXISTS: B LOGGED BY: GEOL GEOLOG REF: ENV 6562 P356,458

GROUND (Targetting) SURVEYS: P GEOPHYS.(Down Hole): L GEOCHEMISTRY: Y PETROLOGY:

WATER: PALAEONTOLOGY: METALLURGY: GEOCHRONOLOGY: OTHER: :

GROUND SURVEY REF: ENV 8482 P20,42 F-38 GEOPHYS DH. REF: ENV 8482 F-4

GEOCHEMISTRY REF: ENV 6562 P719 PETROLOGY REF:

OTHER: REF: GEOCHRONOLOGY REF:

COMMENTS:

CHECKED: BJV DATE: 04/09/92 UPDATE: DATE: / /

Double Und. = Bore General DB, Single & Double Und. = GIS DB System. SADME V. MAY 92/G03349.BJC/JLC.

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# A P P E N D I X 3.1

DH_LOG - Field Descriptions

APPENDIX 3.1

DH_LOG - Field Descriptions

The DH_LOG file has 18 fields. A header, listing recommended field size, 10 character dBASE compatible field name and corresponding printout filed names in both column and row format is incuded in both the DH_LOG.WK1 & .TXT files (Appendices 4.1 & 4.2).

Codes for the data in DH_LOG are listed in Appendices 3.2 (SS_STRAT), 3.3 (LIMIN_CD) and 3.4 (DESCP_CD).

The header of the DH_LOG data entry template (Appendix 1.1) is used to generate 5 index fields in the file table (including key fields) for each 13 field row used to specifiy a geological unit. The drillhole name and sequential number fields are included for user convenience since they duplicate information in DH_INDEX.

The fields listed below are presented with the following format:-

NAME: (N,Td)
*tabl_fldnm* Description

where-

NAME: = Field name as used in DH_LOG printout (Appendices 1.2 & 3.5).

(N,Td) = N = field size - Includes spaces, ± signs and decimals.
T = field status - M = Mandatory, O = Optional, R = Recommended
d = data type - c = character, i = integer, r = real number

*tabl_fldnm* = Field name used in DH_LOG file table (10 character, dBASE-compatibile).

Description = Explanatory text.

***Descriptions:-***

MAP NO: (4,Mi)
*map_sheet* 1:100,000 map sheet within which the drillhole is located eg 6335 = Arcoona sheet.

UNIT NO: (6,Mi)
*unit_no* Sequential no. serially issued from the DHDB for drillholes within each 1:100,000 map sheet.

MAPUNO: (9,Ac)
*map_uno* Field generated by :- MAPUNO: = MAP NO: + UNIT NO: to provide a single unique identifier. MAPUNO: is unsuitable for ASCII sorting of data records by map sheet because UNIT NO: is defined without leading zeros.

HOLE: (10,Rc)
*dh_name* Text portion of the drillhole name. This is the name commonly used in literature, eg. "SLT" from drillhole SLT-6.

NUMBER: (4,Mi)
*dh_seqno* The numeric portion of the drillhole name, commonly a sequential number (eg "6" from drillhole SLT-6).

GIS Unit: (11,Mc)

*strat_code* Code for the stratigraphic unit to which the described interval has been assigned. DH_LOG uses SS_STRAT a subset of the recently developed SASTRAT stratigraphic coding system (see Appendix 3.2).

Sub: (1,Mc:1,Mc)

*strat_sub* Field for designating the stratigraphic 'level' of the unit being described. The "Y" flag indicates that the interval is a sub-division of the immediately preceding unit marked with an "N" flag. The "N" flagged intervals are designed to assist the generation of compact summaries.

From: (7,Mr)

*uppr_dpth* This value is the upper-most logged depth of the unit being described (DH_LOG depths are in meters).

To: (7,Mr)

*lowr_dpth* This value is the lower-most recorded depth of the unit being described and may correspond to the drillhole total depth (DH_LOG depths are in meters).

1st Lith: (4,Mc)

*lith_1* A valid upper case lithology/mineral code that best describes the dominant component present in the depth interval (See Appendix 3.3 LIMIN_CD).

2nd Lith: (4,Mc)

*lith_2* A valid upper case lithology/mineral code that best describes the second dominant component present in the depth interval.

Rock Description: (40,Oc)

*descriptn* Field for free-text geological description of the drilled interval. The codes presented in Appendix 3.4 (DESCP_CD) were used in DH_LOG.

Alterat.: (4,Oc)

*alteration* Field for up to four alteration types using single letter codes as provided in Appendix 3.4. (eg QSH = silicified, sericitic and hematitic alteration.)

Texture / Fabric: (4,Oc:4,Oc)

*text_fab_1 text_fab_2* Fields for codes indicating rock texture, structure or fabric. Codes as in Appendix 3.4 DESCP_CD.

Core /_ : (3,Oi)

*core_angle* Average acute angle in whole degrees between the axis of the drill core and any layering, bedding, foliation, or tabular intrusive units according to the nature of the unit that is present.

Formation / Comment: (40,Oc)

*extra_info* A free text field for additional descriptive data. Particularly suited to special aspects such as mineralisation, veining, etc.. Codes as in Appendix 3.4 DESCP_CD.

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# A P P E N D I X 3.2

## SS_STRAT - List of Stratigraphic Codes

Stratigraphic Codes used by the Stuart Shelf Database

These codes are adapted from the SASTRAT database which was still under compilation during this phase of the project. For this reason some codes may differ from the final SASTRAT listing and will be updated in the next phase.

The stratigraphic names are presented with the following typographic hierarchy

AGE
SUPERGROUP
GROUP (*INFORMAL GROUPING*)
Subgroup
Formation
*Member*
*Bed*
*Informal lithological unit*

NB Quotation marks around a stratigraphic name implies that the unit (or group etc) and its code are specific to this project, informal and not used in SASTRAT.

| CODE | Age | Stratigraphic Name |
|---|---|---|
| CAINOZOIC | | |
| Q | Quaternary | UNDIFFERENTIATED QUATERNARY |
| TQ | Tertiary/Quaternary | UNDIFFERENTIATED QUATERNARY-TERTIARY |
| T | Tertiary | UNDIFFERENTIATED TERTIARY |
| MESOZIC | | |
| K | Cretaceous | UNDIFFERENTIATED CRETACEOUS |
| Kmb | Cretaceous | Bulldog Shale |
| Knc | Cretaceous | Cadna-owie Formation |
| Knca | Cretaceous | *Mt Anna Sandstone Member* |
| JK | Jurassic-Cretaceous | UNDIFFERENTIATED JURASSIC-CRETACEOUS |
| JKa | Jurassic-Cretaceous | Algebuckina Sandstone |
| PALAEOZOIC | | |
| Ps | Permian | Stuart Range Formation |
| CP | Carb-Permian | UNDIFFERENTIATED CARBONIFEROUS-PERMIAN |
| CPb | Carb-Permian | Boorthanna Formation |
| E | Cambrian | UNDIFFERENTIATED CAMBRIAN |
| Eh | Cambrian | HAWKER GROUP |
| Eha | Cambrian | Andamooka Limestone |
| Ehp | Cambrian | Parachilna Formation |
| Eoy | Cambrian | Yarrawurta Shale |
| PROTEROZOIC - upper | | |
| PN | Neoproterozoic | UNDIFFERENTIATED NEOPROTEROZOIC |
| PNw | Neoproterozoic | WILPENA GROUP |
| PNwb | Neoproterozoic | Bunyeroo Formation |
| PNwy | Neoproterozoic | Yarloo Shale |
| PNwy1 | Neoproterozoic | *Yarloo Shale "informal facies 1, shale/siltstone"* |
| PNwy2 | Neoproterozoic | *Yarloo Shale "informal facies 2, siltsone/sandstone"* |
| PNs | Neoproterozoic | Sandison Subgroup |
| PNsa | Neoproterozoic | ABC Range Quartzite |
| PNsb | Neoproterozoic | Brachina Formation |
| PNsbb | Neoproterozoic | *Bayley Range Siltstone Member* |
| PNst | Neoproterozoic | Tent Hill Formation |
| PNst1 | Neoproterozoic | *Tent Hill Formation "informal 1, f.g. sandstone"* |
| PNsts | Neoproterozoic | *Simmens (Arcoona) Quartzite Member* |
| PNstc | Neoproterozoic | *Corraberra Sandstone Member* |
| PNstt | Neoproterozoic | *Tregolana (Woomera) Shale Member* |
| PNsn | Neoproterozoic | Nuccaleena Formation |
| PNu | Neoproterozoic | UMBERATANA GROUP |
| PNh | Neoproterozoic | Willochra Subgroup |
| PNhl | Neoproterozoic | Elatina Formation |
| PNhlr | Neoproterozoic | Reynella Siltstone |
| PNhh | Neoproterozoic | Whyalla Sandstone |
| PNhh1 | Neoproterozoic | Whyalla Sandstone *"informal 1, dolomitic"* |

| | | |
|---|---|---|
| PNh1 | Neoproterozoic | *"Yudnapinna Beds"* |
| PNh2 | Neoproterozoic | *"Cattle Grid Breccia"* |
| PNh3 | Neoproterozoic | *"Pandurra Regolith"* |
| PNhw | Neoproterozoic | Wilmington Formation |
| PNha | Neoproterozoic | Angepena Formation |
| PNf | Neoproterozoic | Farina Subgroup |
| PNfh | Neoproterozoic | Brighton Limestone |
| PNft | Neoproterozoic | Tapley Hill Formation |
| PNftw | Neoproterozoic | *Woocalla Dolomite Member* |
| PNft1 | Neoproterozoic | *"Gunson Beds"* |
| PNft2 | Neoproterozoic | *"Mcleay Regolith"* |
| PNft3 | Neoproterozoic | *"Yeltacowie Sandstone"* |
| PNft4 | Neoproterozoic | *"Gunson Beds Breccia"* |
| PNua | Neoproterozoic | Appila Tillite |
| | | |
| PNb | Neoproterozoic | BURRA GROUP |
| | | |
| PROTEROZOIC - middle | | |
| PM | Mesoproterozoic | UNDIFFERENTIATED MESOPROTEROZOIC |
| PM1 | Mesoproterozoic | *"Arcoona Mafic Suite"* |
| PM1f | Mesoproterozoic | *"Arcoona Mafic Suite - anorthosite"* |
| PM1m | Mesoproterozoic | *"Arcoona Mafic Suite - gabbro"* |
| PM1h | Mesoproterozoic | *"Arcoona Mafic Suite - hybrid gabbro"* |
| | | |
| PMy | Mesoproterozoic | *BACKY GROUPING* |
| PMye | Mesoproterozoic | Beda Volcanics |
| PMya | Mesoproterozoic | Backy Point Formation |
| PMyg | Mesoproterozoic | Gairdner Dyke Swarm |
| | | |
| PM-p | Mesoproterozoic | Pandurra Formation |
| PM-p4 | Mesoproterozoic | *"Pandurra Formation Member 4"* |
| PM-p3a | Mesoproterozoic | *"Pandurra Formation Member 3a"* |
| PM-p3 | Mesoproterozoic | *"Pandurra Formation Member 3"* |
| PM-p2 | Mesoproterozoic | *"Pandurra Formation Member 2"* |
| PM-p1a | Mesoproterozoic | *"Pandurra Formation Member 1a - sandstone/shale"* |
| PM-p1b | Mesoproterozoic | *"Pandurra Formation Member 1b - grit/conglomerate"* |
| PM-p1c | Mesoproterozoic | *"Pandurra Formation Member 1c - basal shale/siltstone"* |
| PM-p1 | Mesoproterozoic | *"Pandurra Formation Member 1"* |
| | | |
| PMh | Mesoproterozoic | HILTABA SUITE |
| PMh1 | Mesoproterozoic | *"Arcoona Megacrystic Granite"* |
| PMh2 | Mesoproterozoic | ***** not assigned ***** |
| PMh3 | Mesoproterozoic | *Hiltaba Suite - "pegmatitic phase"* |
| PMh4 | Mesoproterozoic | *"North Torrens Granite - granite breccia"* |
| PMh5 | Mesoproterozoic | *"North Torrens Granite - granite"* |
| PMh6 | Mesoproterozoic | *"North Torrens Granite - microgranite"* |
| PMh7 | Mesoproterozoic | *"North Torrens Granite - aplite"* |
| PMh8 | Mesoproterozoic | *"North Torrens Granite - porphyry"* |
| PMh9 | Mesoproterozoic | *"Willaroo Porphyry"* |
| PMh10 | Mesoproterozoic | *"Acropolis Granite"* |
| PMh11 | Mesoproterozoic | *"Acropolis Syenite"* |
| PMw | Mesoproterozoic | WIRRDA SUB-SUITE |
| PMw1 | Mesoproterozoic | *"Wirrda Breccia Complex"* |
| PMwr | Mesoproterozoic | Roxby Downs Granite |
| PMwro | Mesoproterozoic | *Olympic Dam Breccia Complex* |
| PMwro1 | Mesoproterozoic | *"Olympic Dam Hematite Breccia"* |
| PMwro2 | Mesoproterozoic | *"Olympic Dam Granite Breccia"* |
| PMwro3 | Mesoproterozoic | *"Olympic Dam Hematite/Sulphide Breccia"* |
| PMwr1 | Mesoproterozoic | *Roxby Downs Granite "granite breccia"* |
| PMwr2 | Mesoproterozoic | *Roxby Downs Granite "granite"* |
| PMwr3 | Mesoproterozoic | *Roxby Downs Granite "microgranite"* |
| PMwr4 | Mesoproterozoic | *Roxby Downs Granite "megacrystic granite"* |
| PMwr5 | Mesoproterozoic | *Roxby Downs Granite "biotite granite"* |
| PMwr6 | Mesoproterozoic | *Roxby Downs Granite "leucogranite"* |
| PMwr7 | Mesoproterozoic | *Roxby Downs Granite "granodiorite"* |
| PMwr8 | Mesoproterozoic | *Roxby Downs Granite "diorite"* |
| | | |
| PMa | Mesoproterozoic | GAWLER RANGE VOLCANICS |
| PMa1g | Mesoproterozoic | *Gawler Range Volcanics "Gunson mafic extrusive"* |
| PMa2g | Mesoproterozoic | *Gawler Range Volcanics "Gunson dacite #1"* |
| PMa3g | Mesoproterozoic | *Gawler Range Volcanics "Gunson K-mafic extrusive"* |
| PMa4g | Mesoproterozoic | *Gawler Range Volcanics "Gunson conglomerate"* |
| PMa5g | Mesoproterozoic | *Gawler Range Volcanics "Gunson dacite #2"* |
| PMa6g | Mesoproterozoic | *Gawler Range Volcanics "Gunson felsic extrusive breccia"* |

| | | |
|---|---|---|
| PMa7g | Mesoproterozoic | *Gawler Range Volcanics "Gunson andesite/dacite"* |
| PMa8g | Mesoproterozoic | *Gawler Range Volcanics "Gunson lamproite"* |
| PMa9g | Mesoproterozoic | *Gawler Range Volcanics "Gunson dolerite"* |
| PMa10 | Mesoproterozoic | *"GRV Arcoona Mafic Dyke"* |
| PMa11 | Mesoproterozoic | *"Arcoona Volcanics"* |
| PMa12 | Mesoproterozoic | *"Bills Lookout Dolerite"* |
| PMa13 | Mesoproterozoic | *"Red Dam Monzonite"* |
| PMa14 | Mesoproterozoic | *"Acropolis Feldspar Porphry"* |
| PMa15 | Mesoproterozoic | *"Acropolis hematite/magentite hydrothermal rock"* |
| PMa16 | Mesoproterozoic | *"Acropolis sinter"* |
| PMar | Mesoproterozoic | Roopena Volcanics |
| | | |
| PMc | Mesoproterozoic | *CORUNNA GROUPING* |
| PMc1 | Mesoproterozoic | *"Corunna Conglomerate Correlate"* |
| PMcl | Mesoproterozoic | Labyrinth Formation |
| PMcla* | Mesoproterozoic | *"GRV / Labryinth Fm package"* |
| | | |
| PROTEROZOIC - lower | | |
| PP | Palaeoproterozoic | UNDIFFERENTIATED PALEOPROTEROZOIC |
| PP1 | Palaeoproterozoic | *"Elizabeth Creek granite"* |
| PP2 | Palaeoproterozoic | *"Arcoona Leucogranite"* |
| PP3 | Palaeoproterozoic | *"Arcoona BIF Breccia"* |
| PP4 | Palaeoproterozoic | *"Arcoona chlorite rock"* |
| PP5 | Palaeoproterozoic | *"Arcoona BIF"* |
| PP6 | Palaeoproterozoic | *"Arcoona Arkose"* |
| | | |
| PPw | Palaeoproterozoic | *"WANDEARAH GROUPING"* |
| PPwp1 | Palaeoproterozoic | *"Pernatty Metasiltstone"* |
| PPwp2 | Palaeoproterozoic | *"Upper Pernatty Metasiltstone"* |
| PPwp3 | Palaeoproterozoic | *"Middle Pernatty Metasiltstone Breccia"* |
| PPwp4 | Palaeoproterozoic | *"Lower Pernatty Metasiltstone Breccia"* |
| PPwp5 | Palaeoproterozoic | *"Arcoona Chert"* |
| PPwp6 | Palaeoproterozoic | *"Pernatty Volcanics (basic)"* |
| PPw1 | Palaeoproterozoic | *"Cocky Swamp Skarn"* |
| PPw2 | Palaeoproterozoic | *"Lake Torrens BIF"* |
| PPw3 | Palaeoproterozoic | *"Lake Torrens Calcsilicate/Quartzite"* |
| | | |
| PPl | Palaeoproterozoic | LINCOLN COMPLEX |
| PPl1 | Palaeoproterozoic | *"Dromedary Dam Granite/Microgranite"* |
| PPl2 | Palaeoproterozoic | *"Noltenius Gneiss"* |
| | | |
| PPh | Palaeoproterozoic | HUTCHISON GROUP |
| PPh1 | Palaeoproterozoic | *"Arcoona Schist"* |
| PPh2 | Palaeoproterozoic | *"Arcoona Meta-pegmatites"* |
| PPh3 | Palaeoproterozoic | *"Bopeechee Chlorite Schist"* |
| PPh4 | Palaeoproterozoic | *"Bopeechee Amphibolite"* |
| PPh5 | Palaeoproterozoic | *"Bopeechee Meta-basalt?"* |
| PPh6 | Palaeoproterozoic | *"Bopeechee Meta?-shale"* |
| PPh7 | Palaeoproterozoic | *"Stuart Range Amphibolite"* |
| PPh8 | Palaeoproterozoic | *"Strafford Swamp Schist"* |
| | | |
| ARCHAEAN | | |
| A1 | Archaean | *"Devil's Playground Volcanics"* |

Non Stratigraphic Abbreviations

| CODE | UNIT |
|---|---|
| br1 | Fault Breccia |

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A P P E N D I X 3.3

# LIMIN_CD - List of Lithological & Mineral Codes

| | |
|---|---|
| ADML | adamellite |
| AEOL | aeolinite |
| AGLM | agglomerate |
| AGMT | agmatite |
| AGRN | alkalis granite |
| ALLV | alluviium |
| ALSK | alaskite |
| AMPH | amphibolite |
| AMPH | amphibolite |
| ANDS | andesite |
| ANRT | anorthosite |
| ANTH | anorthosite |
| APLT | aplite |
| ARGL | argillite |
| ARKS | arkose |
| ARNT | arenite |
| ASH | ash |
| BDST | boundstone |
| BIF | banded iron formation |
| BIFO | oxide facies BIF (hematite/geothite) |
| BIFR | reduced facies BIF (sulphides) |
| BITM | bitumen |
| BREC | breccia |
| BSLT | basalt |
| CAAR | calcarenite |
| CACT | calcrete |
| CAEH | calcareous earth |
| CALC | calcrete |
| CALC | caliche |
| CALI | caliche |
| CALU | calcilutite |
| CARU | calcrudite |
| CASI | calcsilicate rock |
| CATA | cataclasite |
| CBSD | chemical/biogenic sed. |
| CBSS | chem/biognc-siliciclastic |
| CGLM | conglomerate |
| CGLT | conglomerate |
| CHRT | chert |
| CLAY | clay |
| CLLV | colluvium |
| CLRD | calcrudite |
| CLST | claystone |
| CNCP | complex (multimin) vein |
| COAL | coal |
| COQN | coquina |
| COQT | coquinite |
| CPXT | clinopyroxenite |
| CRMT | chromitite |
| DACT | dacite |
| DIAT | diatomite |
| DIMC | diamictite |
| DIOR | diorite |
| DLAR | dolarenite |
| DLMC | dolomicrite |
| DLOM | dolomite |
| DOLR | dolerite |
| DUNT | dunite |
| DURI | duricrust |
| ELLV | elluvium |
| ELUV | elluvium |
| EXTR | igneous exrusive |
| FBRC | fault breccia |
| FECT | ferricrete |
| FECT | laterite |
| FERC | laterite |
| FERC | ferricrete |
| FEST | ironstone |
| FEXT | felsic extrusive |
| FINT | felsic intrusive |
| FLIN | flintstone |
| FLST | felsite |
| FPEG | felsic pegmatite |
| FSPO | feldspar porphry |
| GBBR | gabbro |
| GBRO | gabbro |
| GIBB | gibber regolith |
| GLAS | glass |
| GLSS | glass |
| GNPH | granophyre |
| GNSC | greenschist |
| GNSS | gneiss |
| GNST | greenstone |
| GOSS | gossan |
| GOUG | gouge |
| GPCT | gypcrete |
| GPSM | gypsum |
| GPST | grapestone |
| GRAV | gravel |
| GRDI | granodiorite |
| GREI | greisen |
| GRIT | grit-bimodal sand/granule sediment |
| GRNL | granulite |
| GRNP | granophyre |
| GRNT | granite |
| GRST | grainstone |
| GRTD | granitoid |
| GRVL | gravel |
| GSTN | grainstone |
| GYPC | gypcrete |
| GYWK | greywacke |
| HALT | halite |
| HARZ | harzburgite |
| HFLS | hornfels |
| HYBR | hybrid (mixed melt) igneous intrusive |

| | |
|---|---|
| HYRR | hydrothermal replacement rock |
| HYTR | hydrothermal rock |
| IEXT | intermediate extrusive |
| IGNE | unclassified igneous |
| IGNM | ignimbrite |
| IINT | intermediate intrusive |
| IMPC | impactite |
| INTR | igneous intrusive |
| IPEG | intermediate pegmatite |
| IRST | ironstone |
| JASP | jasper |
| JSPT | jasplilite |
| KIMB | kimberlite |
| KIMB | kimberlite |
| KOMT | komatiite |
| KPHR | keratophyre |
| LATR | laterite |
| LAVA | lava |
| LCGR | leucogranite |
| LGNT | lignite |
| LGRT | leucogranitoid |
| LHZT | lherzolite |
| LMST | limestone |
| LOAM | loam |
| LPHY | lamprophyre |
| LPRO | lamphroite |
| LPRO | lamphroite |
| LUTT | lutite |
| MADL | microadamellite |
| MAGN | magnesite |
| MAND | meta-andesite |
| MARB | marble |
| MARB | marble |
| MARK | meta-arkose |
| MARL | marl |
| MARN | meta-arenite |
| MBAS | metabasalt |
| MCDI | microdiorite |
| MCGD | microgranodiorite |
| MCGR | microgranite |
| MCGT | microgranitoid |
| MCHM | chemical metamorphic |
| MCMZ | micromonzonite |
| MCRT | micrite |
| MCSY | microsyenite |
| MDAC | metadacite |
| MDIO | metadiorite |
| MDLR | metadolerite |
| MDOL | metadolerite |
| MDST | mudstone |
| MDYN | dynamic metamorphic rock |
| MEPH | melaphyre (vfg blk intrusive) |
| META | metamorphic rock(s) |
| METO | meteroite |
| MEXT | mafic extrusive |
| MFIG | meta-felsic igneous rock |
| MGBR | metagabbro |
| MGYW | meta-greywacke |
| MIGM | migmatite |
| MIIG | meta-intermediate igneous |
| MINT | mafic intrusive |
| MMIG | meta-mafic igneous rock |
| MONZ | monzonite |
| MPEG | mafic pegmatite |
| MPEL | metapelite |
| MPOR | metaporphry |
| MRBL | marble |
| MRBL | marble |
| MREG | regional metamorphic |
| MRHY | metarhyolite |
| MSED | metasediment |
| MSOM | metasomatite |
| MTHR | Thermal Metamorphic |
| MTUF | metatuff |
| MUD | mud |
| MUIG | meta-ultramafic rock |
| MUIN | mafic/ultramafic intursv |
| MUIN | mafic/ultramafic intursv |
| MVOL | metavolcanic |
| MYLN | mylonite |
| NEPH | nephelinite |
| NORT | norite |
| OBSD | obsidian |
| OISH | oil shale |
| OPXT | orthopyroxenite |
| OQZT | orthoquartzite |
| OREB | orebody |
| PAMP | para-amphibolite |
| PCST | pitchstone |
| PDBR | pebble dyke breccia |
| PEAT | peat |
| PEGD | pegmatoids |
| PEGM | pegmatite |
| PELT | pelite |
| PERL | perlite |
| PHBR | phreatic breccia |
| PHON | phonolite |
| PHOS | phosphorite |
| PHYL | phyllite |
| PKST | packstone |
| PRDT | peridotite |
| PSAM | psammite |
| PSCG | pseudoconglomerate |
| PSEP | psephite |
| PXNT | pyroxenite |
| PYRC | pyroclastic |

| | |
|---|---|
| QDIO | quartz diorite |
| QFPO | quartz feldspar porphry |
| QTZT | quartzite |
| QZPO | quartz porphry |
| RDAC | rhyodacite |
| REGL | regolith |
| REGO | regolith |
| RHLT | rhyolite |
| RHYD | rhyodacite |
| RHYO | rhyolite |
| RUBL | rubble-stoney regolith |
| RUDI | rudite |
| SAND | sand |
| SBRC | sedimentary breccia |
| SCHT | schist |
| SCNT | hydrothermal scinter |
| SCOR | scoria |
| SCRE | scree/talus |
| SDST | sandstone |
| SEDB | biochemical sedimentary rock |
| SEDC | chemical sedimentary rock |
| SEDL | clastic sedimentary rock |
| SEDM | sedimentary rock |
| SERP | serpentinite |
| SERP | serpentinite |
| SGWK | subgreywacke |
| SHLE | shale |
| SIBR | hyrdrothermal scinter breccia |
| SICT | silcrete |
| SILC | silcrete |
| SILT | silt |
| SKRN | skarn |
| SLAT | slate |
| SLST | siltstone |
| SOIL | soil |
| SPIL | spilite |
| SPST | soapstone |
| SSED | siliciclastic sed. |
| SURG | surge (plume) |
| SYEN | syenite |
| TACH | tachelyte |
| TAND | trachyandesite |
| TBAS | trachybasalt |
| TECT | tecktite/australite |
| TEPH | tephra |
| THOL | tholeiite |
| TILL | tillite |
| TLUS | scree/talus |
| TONL | tonalite |
| TRAC | trachyte |
| TRAV | travertine |
| TRCH | trachyte |
| TRON | trondhjemite |
| TUFF | tuff |
| UEXT | ultramafic extrusive |
| UINT | ultramafic intrusive |
| UNKN | unclassified |
| UPEG | ultramafic pegmatite |
| VEIN | hydrothermal vein |
| VNAH | anhydrite vein |
| VNCB | carbonate vein |
| VNQT | quartz vein |
| VNSU | sulphide vein |
| VOLC | volcanics |
| VSND | volcanic sandstone |
| WKST | wackestone |
| WOOD | wood |

SOUTH AUSTRALIAN DEPARTMENT OF MINES AND ENERGY

REGIONAL GEOLOGY BRANCH

STUART SHELF BASEMENT PROJECT

PHASE I REPORT

# A P P E N D I X 3.4

## DESCP_CD - Geological Summary Shorthand Codes

# CODES USED IN ROCK/INTERVAL DESCRIPTION FIELD

## COLOURS

| | |
|---|---|
| bkrd | brick-red |
| blgn | blue-green |
| blgy | blue-grey |
| blk | black |
| blu | blue |
| bn | brown |
| brn | brown |
| buf | buff |
| buff | buff |
| cbrn | chocolate-brown |
| ch | chocolate |
| chbn | chocolate-brown |
| chbrn | chocolate-brown |
| crm | cream |
| gn | green |
| gngy | green-grey |
| grgn | grey-green |
| grn | green |
| gry | grey |
| gwht | grey-white |
| gy | grey |
| gybl | grey-blue |
| gyblk | grey-black |
| gybn | grey-brown |
| gygn | grey-green |
| kki | khaki |
| mar | maroon |
| ogbn | orange-brown |
| olgn | olive-green |
| or | orange |
| orbn | orange-brown |
| org | orange |
| orgy | orange-grey |
| owht | orange-white |
| pk | pink |
| pkbn | pink-brown |
| pnbn | pink-brown |
| pnk | pink |
| ppbn | purple-brown |
| ppl | purple |
| pplbn | purple-brown |
| pplgy | purple-grey |
| pwht | pink-white |
| rbn | red-brown |
| rbrn | red-brown |
| rchbrn | red-chocolate-brown |
| rd | red |
| rdbn | red-brown |
| rdpnk | red-pink |
| red | red |
| wht | white |
| wt | white |
| wtgy | white-grey |
| yel | yellow |
| yl | yellow |
| ylbn | yellow-brown |
| ylgn | yellow-green |
| ylbn | yellow-brown |
| ylgn | yellow-green |
| ylwht | yellow-white |
| ylwt | yellow-white |

## QUALIFIERS

| | |
|---|---|
| d/dk.... | dark.... |
| l/lt.... | light.... |
| p/pl.... | pale.... |
| m/md... | medium.... |
| v/vg.... | variegated.. |
| motl | mottled |

## GRAINSIZE

| | |
|---|---|
| gnsz | grainsize |
| ufg | ultra-fine/clay |
| vfg | very fine |
| fg | fine |
| mg | medium |
| cg | coarse |
| vcg | very coarse |

## SHAPES

| | |
|---|---|
| bld- | bladed shape |
| pro- | prolate shape |
| tab- | tabular shape |
| equ- | equant shape |
| euh- | euhedral |
| suh- | subhedral |
| nod- | nodular shape |
| blby | blebby |

## BRECCIATION

| | |
|---|---|
| brec | breccia-unqal |
| tabr | talus (gravity) breccia |
| inbr | intraformational breccia |
| aubr | autobreccia |
| pdbr | pebble-dyke breccia |
| hybr | hydrothm/phreatic |
| svbr | subvolcanic breccia |
| vtbr | vent breccia |
| flbr | volc flow top breccia |
| vobr | volcanic breccia |
| sebr | sedimentary breccia |
| tebr | tectonic breccia |
| dibr | diatreme breccia |
| jsbr | jigsaw breccia |
| dlbr | dilational breccia |
| vnbr | vein breccia |

## BOUNDARIES

### General

| | |
|---|---|
| cnct | contact-unspecified |
| shct | sharp contact |
| grct | gradational contact |
| irct | irregular contact |
| rgct | regular contact |

### Sedimentary

| | |
|---|---|
| disf | disconformity |
| uncf | unconformity |
| anuf | angular unconformity |
| scfl | scour & fill |
| tran | transition |

### Other

| | |
|---|---|
| inct | intrusive contact |
| ftct | fault contact |
| grct | gradational contact |
| unct | unclassifiable |

## GENERAL TERMS

### Rock Format

| | |
|---|---|
| RK | rock |
| CLS-r1-r2-... | clasts |
| XN-r1-r2-... | xenoliths |
| INC-t1-t2-... | inclusions |
| VN-m1-m2-... | veins |
| PHXT-m1-m2... | phenocryst list |

### Spatial Position

| | |
|---|---|
| loc | local |
| dist | distal |
| bas | basal |
| upr | upper |
| lwr | lower |
| prox | proximal |
| ovly | overlying |
| unly | underlying |
| dpth | depth |

### Spatial Frequency

| | |
|---|---|
| abu | abundant |
| num | numerous |
| sly | slightly |
| occ | occasional |
| sct | scattered |
| rar | rare |
| com | common |
| vrr | very rare |

### Orientation

| | |
|---|---|
| suhz | sub-vertical |
| suvt | sub-horizontal |
| supl | sub-parallel |
| oblq | oblique |
| acut | acute |

## ABUNDANCE

### Relative/qualitative

| | |
|---|---|
| sup | superimposed |
| prim | primary |
| + | with/add |
| - | without/less |
| mnr | minor |
| maj | major |
| max | maximum |
| min | minimum |
| lesr | lesser (comparative) |
| incr | increased (comparative) |
| abun | abundance |
| Tr | trace |
| accs | accessory |

### Quantatative

| | |
|---|---|
| 0 | 0-1% |
| 1 | 1-2% |
| 2 | 2-3% |
| 3 | 3-4% |
| 4 | 4-5% |
| 5 | 5-6% |
| 6 | 6-7% |
| 7 | 7-8% |
| 8 | 8-9% |
| 9 | 9-10% |

## MINERAL FORMS

| | |
|---|---|
| xtl | crystalline |
| rxt | recrystallised |
| mxtl | microcrystalline |
| dru | drusy |
| jasp | jasperoidal |
| cryp | crypto-crystalline |
| orb | orbiculoidal |
| botr | botryoidal |
| piso | pisolitic |
| qey | quartz eye |
| rad | radiating |
| sacc | saccaroidal |
| sphr | spherulitic |
| vug | vug |
| vugy | vughy |

## MINERAL TEXTURES

| | |
|---|---|
| mtx | matrix |
| mes | mesostasis |
| phxt | phenocryst |
| phen | phenocryst |
| mgxt | megacryst |
| xnxt | xenocryst |
| meso | mesostasis |
| gmas | groundmass |
| phbl | porphrablast |
| res | residual |
| relc | relict |
| skl | skeletal |
| otln | outlined |

TEXTURE CODES

GENERIC

| | |
|---|---|
| detr | detrital |
| rewk | reworked |
| frgm | fragmental |
| epcl | epiclastic |
| marn | marine |
| lacu | lacustrine |
| terr | terresrial |
| fluv | fluvial |
| fisfl | fissure fill |

CLASTIC

| | |
|---|---|
| cls | clast(s) |
| bld | boulder |
| cbl | cobble |
| pbl | pebble |
| gnl | granule |
| gra | grain |

Roundness

| | |
|---|---|
| ang | angular |
| sang | sub-angular |
| srnd | sub-rounded |
| rnd | rounded |
| wrnd | well rounded |

Sorting

| | |
|---|---|
| usrt | unsorted |
| rsrt | rough/crude |
| psrt | poorly std |
| wsrt | well sorted |
| bsrt | bimodal srt |
| grty | gritty |

Cementation

| | |
|---|---|
| cmnt | cemented |
| scem | strongly |
| wcem | weakly |
| mcem | moderately |

Coherence

| | |
|---|---|
| fbl | friable |
| fis | fissile |
| ind | indurated |
| hrd | hard |
| sft | soft |
| frm | firm |
| unc | unconsolidated |
| pla | plastic |
| pgy | puggy |
| sec | sectile |
| brt | brittle |
| chy | chalky |

SEDIMENTARY- FEATURES

Biogenic

| | |
|---|---|
| rofd | roofed |
| buro | burrowed |
| biot | bioturbated |
| bord | bored |
| wmtu | worm tubes |
| wmtr | worm trails |
| trtr | trilobite tracks |
| rsmk | rest mark |
| agln | algal laminations |
| onco | oncolites |

Depositional

| | |
|---|---|
| incl | intraclast |
| nod | nodules |
| flu | flutes |
| mcrk | mudcraked |
| culn | current lineations |
| teep | teepes |
| slum | slumps/ing |
| lcst | loadcasts |
| fens | fenestral |

Chemological

| | |
|---|---|
| pelo | pelloids |
| mico | microids |
| piso | pisoids |
| pisl | pisolites |
| ool | oolites |
| gypc | gypsum casts |
| halc | halite casts |
| ctgr | coated grains |

PALAEONTOLOGICAL

GENERAL

| | |
|---|---|
| foss | fossiliferous |
| mfos | micro foss |
| bizn | biostrat zone |
| bima-n1,n2 etc. | biostrat marker |

MARINE

| | |
|---|---|
| marf | marine fossils |
| mfos | mesofossils |
| mifs | microfossils |
| algf | algal fossils |
| srtm | stromatolites |
| corf | coralline fossils |
| echf | echinoid fossils |
| bryf | bryozoan fossils |
| algf | algal fossils |
| forf | foraminiferal fossils |
| molf | molluscan fossils |
| bivf | bivalve fossils |
| gasf | gastropod fossils |
| artf | arthropodal fossils |
| trif | trilobita |
| mivf | marine invertabrates |
| aivf | amphibious |

invertabrattes

TERRESTRIAL

| | |
|---|---|
| tivf | terrestrial invertabrates |
| aivf | amphibious |

invertabrates

| | |
|---|---|
| conif | coniferal |
| plnf | plant fossils |
| paln | palnologic |

STRUCTURE - layering

General

| | |
|---|---|
| BAND | banded-non specific |
| LAYR | layered |
| ILYR | interlayered |

| | |
|---|---|
| CBND | colour banded |
| MBND | mineral banded |
| FBND | finely banded |
| PRFL | profile |
| WPRF | weathering profile |

Sedimentary bedding

| | |
|---|---|
| PBED | plane |
| LAMB | laminar |
| FLAM | finely laminated |
| TBED | thin |
| MBED | massive |
| IBED | interbedded |
| UBED | uniform |
| WBED | wavy |
| FBED | flazer |
| XBED | cross |
| IXBD | imbricate XBED |
| RXBD | ripple XBED |
| UXBD | tabular XBED |
| TXBD | trough XBED |
| FXBD | festoon XBED |
| LBED | lenticular |
| UFBD | upwdfing BED |
| CBED | crude |
| CONV | convoluted |
| GBED | graded |
| RGBD | reverse graded |
| COLF | colloform |

Bedding/sequence qualifiers

structure

| | |
|---|---|
| unif | uniform |
| ufsq | upward fining sequences |
| grd | graded |
| rgrd | reverse graded |
| flbnd | flow banding |
| nodl | nodular |
| dimc | diamictic structure |

composition

| | |
|---|---|
| plmc | polymict |
| poly | polymict |
| mono | monomict |
| hetr | heterolthc |
| hmb | heavy min bnds |

TEXTURE/STRUCTURE - Igneous

| | |
|---|---|
| ignt | igneous texture |
| intt | igneous/intrusive texture |
| volt | volcanic/extrusive texture |
| mass | massive |
| plut | plutonic |
| hyp | hypabyssal |
| porp | porphyryitic |
| opht | ophitic |
| cum | cumulate |
| orbi | orbicular |
| grph | graphic |
| pegt | pegmatitic |
| alli | allitriomorphic |
| ocel | ocelloidal |
| ves | vesicular |
| amyg | amygdaloidal |
| tuff | tuffaceous |
| spur | spherulitic |
| ignm | ignimbritic |
| glsy | glassy |
| aph | aphanitic |
| stel | stellate |
| lflw | lava flows |

INVASIVE TERMS

| | |
|---|---|
| vein | vein |
| dyk | dyke |
| frf | fractfill |
| chm | chilled margin |
| fbm | flow banded mgn |

TEXTURE CODES - Metamorphic

| | |
|---|---|
| gnsc | gneissic |
| schs | schistose |
| foli | foliated |
| hfl | hornfelsic |
| boud | boudinage |

ALTERATION/VEINS

General

UPPER CASE indicates 'primary'

Lower Case indicates 'secondary'

Monmin Types

| | |
|---|---|
| H,h | hematitic |
| L,l | limonitic |
| Q,q | silic |
| S,s | sericitic |
| R,r | chlorite |
| Y,y | clay |
| C,c | carbonate |
| F,f | fluoridated |
| K,k | potassic |
| A,a | anhydrite |
| E,e | epidoitisation |

Multmin Types

| | |
|---|---|
| W,w,(weth) | weathering |
| O,o | oxidation |
| D,d | reduction |
| P,p | propylitic |
| I,i | illic |
| U,u | sulphidation |
| B,b | bleaching |

Other

| | |
|---|---|
| oxid | oxidation |
| redn | reduction |
| lsng | liesegange |
| lsgg | liesegange |

Descriptors

| | |
|---|---|
| perv | pervasive |
| spty | spotty |

| | |
|---|---|
| ptch | patchy |
| irr | irregular |
| bnd/bnds | band/bands |

TECTONIC

Structure

| | |
|---|---|
| fld | fold |
| fldd | folded |
| slmp | slump folds |
| ifld | intraformational folding |
| diap | diapiric |
| cren | crenulation |
| chev | chevron folding |
| myln | mylonite |
| flt | fault |
| shrz | shear zone |
| jnt | joint |
| slsld | slickenslide |

## CODES USED IN ALTERATION FIELD

| | |
|---|---|
| A,a | anhydrite |
| B,b | bleaching |
| C,c | carbonate |
| E,e | epidoitisation |
| F,f | fluoridated |
| G,g | garnetised |
| H,h | hematitic |
| I,i | illic |
| K,k | potassic |
| L,l | limonitic |
| M,m | magnetite |
| O,o | oxidation |
| Q,q | silic |
| R,r | chlorite |
| S,s | sericitic |
| U,u | sulphidation |
| W,w | weathering |
| weth | weathering |

## CODES USED IN TEXTURE/FABRIC FIELDS

| | |
|---|---|
| AGLM | agglomeratic |
| ALLI | allotriomorphic |
| AMYG | amygdaloidal |
| APHN | aphanitic |
| BAND | banded-non specific |
| BED | bedding-unqualified |
| BREC | breccia-unqualified |
| CBND | colour banded |
| CCLV | crenulated cleavage |
| CUBD | current bedded |
| DLBR | dilational breccia |
| DYKE | dyke |
| EPCL | epiclastic |
| FBND | finely banded |
| FLD | folding |
| FOLI | foliated |
| FRAC | fractured |
| FRGM | fragmental |
| GBED | graded |
| GNSC | gneissic |
| IBED | interbedded |
| IGNM | ignimbritic |
| JSBR | jigsaw breccia |
| LAMB | laminar |
| LAYR | layered |
| LFLW | lava flows |
| MASS | massive |
| MBED | massive-bedded |
| MLYR | metamorphic layering |
| NODL | nodular |
| OPHT | ophitic |
| PBED | planar-bedded |
| PEGM | pegmatitic |
| PORP | porphyritic |
| RLBD | relict bedding |
| SEBR | sedimentary breccia |
| SHRD | sheared |
| SHRZ | shear zone |
| SLMP | slump folds |
| SPUR | spherulitic |
| STEL | stellate |
| STRM | stromatilitic |
| STYL | stylolitic |
| TABR | talus (gravity) breccia |
| TBED | thin-bedded |
| TEBR | tectonic breccia |
| TUFF | tuffaceous |
| UBED | uniform bedded |
| VEIN | vein |
| VNBR | vein breccia |
| VUG | vug |
| WBED | wavy-bedded |
| XBED | cross-bedded |

SOUTH AUSTRALIAN DEPARTMENT OF MINES AND ENERGY

REGIONAL GEOLOGY BRANCH

STUART SHELF BASEMENT PROJECT

PHASE I REPORT

# A P P E N D I X 3.5

DH_LOG - Printout of Summary Log Sheets

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY – DRILL CORE

HOLE NUMBER BDH- 1 | MAP No: 5837 | UNIT No: 262

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q? | N | 0.00 | 3.50 | --- | --- | No data | --- | --- | --- | -- | |
| 2 | K | N | 3.50 | 51.50 | SDST | CLAY | Ltbn? sang-rnd cg SDST +wht CLAY mtx | --- | --- | --- | -- | |
| 3 | CP | N | 51.50 | 216.38 | MDST | DIMC | Blk-gry-wht MDST/SLST +loc ibed glacials | --- | --- | --- | 87 | Tr diss Py |
| 4 | Ps | Y | 51.50 | 127.85 | MDST | SLST | Wht-gry-blk plst MDST/SLST +tr vfg Py | --- | --- | --- | 87 | Tr diss py |
| 5 | CPb | Y | 127.85 | 216.38 | SLST | DIMC | Ltgy SLST +loc vrvs & DIMC ibed:pbls<8cm | --- | --- | --- | 87 | Tr diss py |
| 6 | PPw? | N | 216.38 | 219.70 | BIFO | JASP | Blk-pnk-red(mnr) JASP: Brecc mtx-H-Q-R | --- | BREC | LBED | 65 | Vnlts Py; Q-H-R? |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER BDH 2 | MAP No: 5837 | UNIT No: 263

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.45 | REGL | --- | Rdbn recemt piso LATR +SDST mtx | --- | --- | --- | -- | |
| 2 | K | N | 2.45 | 51.65 | SDST | CLAY | Red-ylwt f-cg SDST+CLAY rpup clst & ibed | --- | --- | --- | -- | |
| 3 | CP | N | 51.65 | 210.30 | MDST | --- | Lt/dk gry MDST/SLST & ibed DIMC | --- | --- | --- | -- | |
| 4 | Ps | Y | 51.65 | 57.63 | MDST | SLST | Lt/dkgry crb plst MDST +mnr SLST | --- | --- | --- | -- | Intrpl lwr cnct dpth |
| 5 | Ps? | Y | 57.63 | 127.00 | --- | --- | No sample or other data | --- | --- | --- | -- | Intrpl lwr cnct dpth |
| 6 | CPb | Y | 127.00 | 210.30 | MDST | DIMC | Ltgry MDST +vrvs & ibed DIMC pbls<0.5m | --- | --- | --- | -- | |
| 7 | PM-p? | N | 210.30 | 280.90 | SDST | CGLM | Pnk-crm f?-cg rnd SDST +mnr pbl bnds | --- | --- | --- | 83 | |
| 8 | PM-p1a | Y | 210.30 | 253.72 | SDST | SLST | Pnk-m f?-cg rnd SDST +pbl bnds | --- | --- | --- | -- | Tr Py <221m |
| 9 | PM-p1b | Y | 253.72 | 280.90 | SDST | CGLM | Pnk-crm c-vvcg rnd psrt SDST/CGLM | --- | --- | --- | -- | |
| 10 | PMcla* | N | 280.90 | 361.10 | CGLM | TUFF | Rd-pnk? brec plmc CGLM/FEXT ibed | --- | SBRC | --- | -- | |
| 11 | PMcl | Y | 280.90 | 304.60 | CGLM | BREC | Pnk-rdbn? bldr CGLM/BREC:clst FEXT,OQZT | --- | SBRC | --- | -- | FEXT domnt, mnr BIF |
| 12 | PMa | Y | 304.60 | 306.50 | RHLT | --- | Pnk fg? RHLT | --- | --- | --- | -- | |
| 13 | PMcl | Y | 306.50 | 339.60 | CGLM | BREC | Pnk-rdbn? bldr CGLM/BREC:clst FEXT,OQZT | HS | SBRC | --- | -- | |
| 14 | PMa | Y | 339.60 | 340.00 | MEXT | --- | Grgn? fg? MEXT(BSLT?): snowflake xtlits | --- | --- | --- | -- | Devitrified glass? |
| 15 | PMcl | Y | 340.00 | 361.00 | CGLM | --- | Pnk-rdbn? bldr CGLM/BREC:clst FEXT,OQZT | --- | SBRC | --- | -- | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 14/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | STRATIGRAPHY : | | | | LITHOLOGY | | | HOLE NUMBER BDH-3 | | | | MAP No: 5837 UNIT No: 264 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
| 1 | Q | N | 0.00 | 8.00 | SAND | CACT | Rdbn SAND +CACT zn 2-4m, base limonitic | — | — | — | – | |
| 2 | Kmb | N | 8.00 | 18.00 | CLAY | SAND | Wht-crm CLAY +fg SAND bnd @16m | — | — | — | – | |
| 3 | JKa | N | 18.00 | 68.00 | SDST | MDST | Crm-pnk-ltgry f-cg SDST:CLAY mtx & ibed | — | — | — | – | Mnr pbly inbd |
| 4 | CP | N | 68.00 | 331.22 | MDST | SDST | Dkgy-chbn-crm MDST/SLST ovly SDST/DIMC | — | — | — | – | Infrd cntcts |
| 5 | Ps | Y | 68.00 | 170.00 | MDST | — | Dkgy slt-plstc MDST +mnr SLST | — | — | — | – | Lwr cnct infrd |
| 6 | CPb | Y | 170.00 | 331.22 | MDST | SDST | Chbn-grgn-crm plstc MDST/SDST/DIMC(mnr) | — | LBED | — | 85 | Upr cnct infrd, XBED? |
| 7 | PM-p | N | 331.22 | 374.72 | SDST | — | Pnk-crm/grn motl mass m-cg SDST:clst BIF | H | — | — | 87 | Upr palsol?,Vns PY |
| 8 | PMcla* | N | 374.72 | 500.00 | BREC | RHLT | Ppl-brn SDST mtx sppt BREC ovly varig RHLT | — | — | — | – | Vns/ptchs/frac Py |
| 9 | PMcl | Y | 374.72 | 385.33 | SDST | BREC | Ppl-brn SDST mtx sppt BREC:clst 50%BIF | — | — | — | – | Vns/ptchs Py |
| 10 | PMa | Y | 385.33 | 500.00 | RHLT | — | Orbn-ppbn-grgn porp vfg RHLT:phxt Q <2mm Pnk-m f?-cg rnd SDST +pbl bnds | HSQC | IGNM | FBND | 40 | Frac R-S-Q-Py, Znd-fel |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 14/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

## STRATIGRAPHIC SUMMARY

HOLE NUMBER: BB-1 | MAP No: 5936 | UNIT No: 117

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 8.00 | SAND | CACT | Rdbn f-cg rnd-srnd SAND +CLAY/CACT mtx | — | — | — | – | Latr @9 m |
| 2 | T | N | 8.00 | 40.00 | SDST | CLAY | Orbn-yel-ltgy f-cg SDST + CLAY ibed/mtx | weth | — | — | – | Tr diss Py & pbls > 50 |
| 3 | K | N | 40.00 | 66.00 | SDST | SLST | Plbn-gry psrt srnd-sang SDST +SLST mtx | — | — | — | – | Asst sml-pbls/grnls |
| 4 | PMcla* | N | 66.00 | 94.00 | SLST | RDAC | Orbn sandy SLST ovly rd-orbn vfg RDAC | HS | — | — | – | |
| 5 | PMcl | Y | 66.00 | 72.00 | SLST | SDST | Qrg-dkrdbn SLST +mnr fg SAND grns: mica | S | — | — | – | Tr CHL |
| 6 | PMa | Y | 72.00 | 94.00 | RDAC | — | Dkrdbn-org-gygn vfg DACT? +lath ILMN1% | HS | — | — | – | ILMN prt alt to LEUX |
| 7 | —*— | N | — | — | — | — | "Geology revised W.M. Cowley 2/86" | — | — | — | – | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement

## STRATIGRAPHIC SUMMARY

HOLE NUMBER: BB-2 | MAP No: 5936 | UNIT No: 118

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 11.00 | SAND | CACT | Ogbn clayey f-mg SAND +wht-gry-buf CACT | — | — | — | – | |
| 2 | T | N | 11.00 | 41.00 | CLAY | SAND | Ltgn-plorbn-buf CLAY: +mnr f-cg SAND | — | — | — | – | Mnr Mn:OX |
| 3 | JKa | N | 41.00 | 66.00 | CLAY | SAND | Pnk-brn CLAY +upr/lwr f-cg SDST/GRVL resp | Q | — | — | – | |
| 4 | PMcla* | N | 66.00 | 200.00 | SLST | IEXT | Orgy-grn SLST/CHRT & blk BSLT/org RHLT/T | Hw | — | — | – | |
| 5 | PMcl | Y | 66.00 | 112.00 | SLST | TUFF | Plgn-gry-pnk SLST +vfg SDST ibed:diss Py | weth | — | IBED | – | Fg lth SDSt=subaq TU |
| 6 | PMa | Y | 112.00 | 124.00 | BSLT | ANDS | Blk-gygn vfg amyg(H-<1mm) BSLT +CHL incl | H | — | — | – | Diss Mt, vns DOL |
| 7 | PMa | Y | 124.00 | 138.00 | RHLT | TUFF | Org-pnk vfg porp RHLT: mnr QTZ vns,phxt | H | TUFF | — | – | Diss blk ILMN, tr Py |
| 8 | PMcl | Y | 138.00 | 200.00 | SLST | TUFF | Or/kki-pngy vfg SLST/CHRT:lith SDST ibed | H | TUFF | TBED | – | Org SDST=saqu TUF |
| 9 | —*— | N | — | — | — | — | "Geology revised W.M. Cowley 2/86" | — | — | — | – | ls CHRT=ultr fg TUF |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER BB- 3 | MAP No: 5936 | UNIT No: 119

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 6.00 | SAND | CACT | Brn-ylbn mg SAND +CACT mtx: mnr GRVL | — | — | — | – | |
| 2 | K | N | 6.00 | 55.00 | SDST | CLAY | Ylbn-wht (f-mg)SAND/CLAY: mnr pbls | — | — | — | – | |
| 3 | PMcl | N | 55.00 | 280.00 | SDST | SLST | Rdbn-gry-grn ang-sang f-mg SDST: blk HEM | HS | — | — | – | Tr diss Py, mtx H-S |
| 4 | ——*—— | N | — | — | — | — | "Geology revised W.M. Cowley 2/86" | — | — | — | – | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER BB- 4 | MAP No: 5936 | UNIT No: 120

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 0.50 | SAND | CLAY | Brn SAND & CLAY +CACT & LATR? | — | — | — | – | |
| 2 | K | N | 0.50 | 43.00 | CLAY | SAND | Yel f-cg SAND & buf CLAY: mnr pbls,uncsl | — | — | — | – | Bsl CGLM |
| 3 | PMcla* | N | 43.00 | 304.00 | SDST | RHLT | Org-dkrdbn f-mg SDST/SLST & grbn fg RHLT | HS | — | — | – | |
| 4 | PMcl | Y | 43.00 | 290.00 | SDST | — | Org-dkrdbn f-mg ang-sang SDST;mnr vns Q | HS | — | MBED | – | Weth silic <70m,tr Py |
| 5 | PMcl | Y | 290.00 | 294.00 | SLST | — | Dkgygn-brn vfg silicious SLST, magnetic | — | — | LBED | – | Cls:alt ANDS=maf TU |
| 0 | PMa | Y | 294.00 | 304.00 | RHLT | — | Gry-brn fg porp RHLT:sml QTZ phxt TUFF? | — | TUFF | — | – | Tr diss Py, Blded ILM |
| 7 | ——*—— | N | — | — | — | — | "Geology revised W.M. Cowley 2/86" | — | — | — | – | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EBA- 3 | MAP No: 5937 | UNIT No: 60

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | K | N | 0.00 | 68.00 | SHLE | SAND | Crm-plbrn SHLE +gry SAND ibed >14m | — | — | — | – | |
| 2 | Kmb | Y | 0.00 | 14.00 | SHLE | — | Crm-plbn SHLE | weth | — | — | – | |
| 3 | Knc | Y | 14.00 | 68.00 | SAND | SHLE | Plbrn SHLE & ibed gry SAND/SDST+pbls<3cm | — | — | IBED | – | Cg & grty SDST >56m |
| 4 | PNft? | N | 68.00 | 140.00 | SHLE | — | Blk-gry fiss SHLE carb <96m | — | — | — | – | Lgd=CP |
| 5 | PNft1? | N | 140.00 | 170.00 | SDST | — | Gry m-cg pbly SDST +loc bnds Py mtx/cmnt | — | — | — | – | Lgd=CP |
| 6 | PM-p | N | 170.00 | 400.00 | SDST | — | Ppbn-gry & wht psrt sang-srnd SDST | B | — | — | – | Mica partings |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 24/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SR- 7 | MAP No: 5937 | UNIT No: 10

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | K | N | 0.00 | 35.00 | SHLE | CGLM | Wht-ylbn SHLE ovly brn grty CGLM/SDST | weth | — | — | – | |
| 2 | Kmb | Y | 0.00 | 25.00 | SHLE | — | Wht-yel-brn SHLE part-sandy: strng weth | weth | — | — | – | |
| 3 | Knca? | Y | 25.00 | 35.00 | SDST | CGLM | Brn-plylbn srnd grty SDST/CGLM: pbls<3cm | weth | — | — | – | Mnr SHLE bnds |
| 4 | PPh8 | N | 35.00 | 67.20 | SCHT | — | Dkgn CHL SCHT; vry strng weth 38.8-65.7m | weth | — | FOLI | – | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SR- 9 | MAP No: 5937 | UNIT No: 13

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | K | N | 0.00 | 49.90 | SHLE | GRIT | Rdbn-pnk-wht SHLE/SLST ovly SDST/GRIT | — | — | — | – | |
| 2 | Kmb | Y | 0.00 | 27.00 | SHLE | SLST | Rdbn-pkwt-ylpp SHLE/SLST :silic <27.5m | weth | — | — | – | Sandier to depth |
| 3 | Knca | Y | 27.00 | 49.90 | SDST | GRIT | Plbn-ppl fribl clayey GRIT | — | — | — | – | |
| 4 | CPb? | N | 49.90 | 68.20 | DIMC | SDST | Gry sandy/pbly DIMC? & yel slty SDST | — | — | — | – | DIMC?=marcasite!?? |
| 5 | PMh9 | N | 68.20 | 71.40 | MARK | SCHT | Gry-wht grty-pbly MARK & mnr SCHT ibed | — | — | FOLI | 10 | FOLI @50Dg, Vns Q-P |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 26/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER CD- 1 | MAP No: 6035 | UNIT No: 68

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture / Fabric | | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 21.50 | SAND | CLAY | Rdbn-gngy uncsl m-cg sang SAND/CLAY ibed | --- | --- | --- | -- | |
| 2 | T | N | 21.50 | 22.70 | SAND | LATR | Rdbn SAND/LATR: earthy hem mtx | weth | --- | --- | -- | |
| 3 | PMyg | N | 22.70 | 150.00 | DOLR | --- | Dkgn-blk f-mg DOLR PX rich thol, fg Mt | weth | --- | --- | -- | Vns QTZ <2mm,weth |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER DP- 1 | MAP No: 6037 | UNIT No: 145

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TQ | N | 0.00 | 24.00 | CLAY | SAND | CLAY,SHLE & SDST-Feox-mtx/cmt | — | — | — | – | |
| 2 | Kmb | N | 24.00 | 126.00 | SHLE | MDST | Gngy-brn SHLE/MDST | — | — | — | – | |
| 3 | CPb | N | 126.00 | 166.00 | SDST | SLST | Gybn fg SDST & vfg SLST +bsl CGLM=2m thk | — | LBED | — | – | |
| 4 | A1 | N | 166.00 | 616.60 | MEXT | FEXT | Pnk-gry DACT? and dkcol? MEXT: FOLI-1rrg | QRSC | — | FOLI | – | Frc/dis Py-Cpy-Phy-C- |
| 5 | A1 | Y | 166.00 | 259.20 | ANDS | DACT | Poor data. Porphyritic Tuff ibeds | QSRC | — | — | – | Bhs TUFF-frac PY-C- |
| 6 | A1 | Y | 259.20 | 273.50 | DACT | SCHT | Pkgy porp DACT +inlyr SCHT-QTZ-SER-PLA | RS | FBND | FOLI | 45 | Frac/vn Q-C-Py-Phy-C |
| 7 | A1 | Y | 273.50 | 298.70 | SCHT | DACT | Schistose vfg porp DACT: TUFF?, loc BSLT | — | — | FOLI | 50 | Frac/vn Py-Cpy-Phy |
| 8 | A1 | Y | 298.70 | 318.30 | DACT | MEXT | Pkgy vfg DACT loc amyg MEXT & vfg TUFF | RS | — | FOLI | 40 | Frac/diss Py-Cpy-Phy |
| 9 | A1 | Y | 318.30 | 339.00 | MAND | MDAC | SCHT-QTZ-CHL-SER-CRB: frmntl? +bsl MEX | RSC | — | FOLI | 50 | Irr Py ass Mafcs |
| 10 | A1 | Y | 339.00 | 422.70 | BSLT | DACT | Fg BSLT & inlyr DACT flws: +mnr amyg | Q | BREC | FOLI | – | Frac Py-Cpy-Q-C-R |
| 11 | A1 | Y | 422.70 | 512.90 | SCHT | DACT | SCHT-CHL-SER-CRB +inlyr DACT & mnr BS | RSQ | — | FOLI | 28 | Vns/diss Q-C-Py-Cpy |
| 12 | A1 | Y | 512.90 | 515.70 | DOLR | — | QTZ-DOLR:fgmgns, alt ALBT-TREM-EPDT | — | MASS | — | – | Vns CRB, diss Py |
| 13 | A1 | Y | 515.70 | 590.80 | TRAC | BREC | TRAC flws & TRAC? flwtp? BREC | — | MASS | BREC | – | Vns mnr CRB |
| 14 | A1 | Y | 590.80 | 616.60 | TRAC | DACT | TRAC flws & inlyr DACT flws | — | — | FBND | 45 | Tr diss Py, Vn CRB |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 15/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER DP- 2 | MAP No: 6037 | UNIT No: 146

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TQ | N | 0.00 | 16.00 | CLAY | SHLE | No details | — | — | — | – | |
| 2 | Kmb | N | 16.00 | 204.00 | SHLE | SDST | Gry-brn SHLE+mnr SDST/GRIT:cls GRNT-FE | — | — | — | | Poss Perm DIMC incl? |
| 3 | PM-p | N | 204.00 | 860.00 | SDST | SLST | Rdbn SDST/GRIT +mnr rdbn hem SLST | — | — | — | – | Feldspathic=Sericite? |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 14/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EBA- 1 | MAP No: 6037 | UNIT No: 147

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 4.00 | SILT | CLAY | Rdbn sandy SILT & wht sandy CLAY | — | — | — | – | |
| 2 | T | N | 4.00 | 8.00 | CLAY | SICT | Gry-ylbn sandy CLAY/SICT | — | — | — | – | |
| 3 | JKa | N | 8.00 | 26.00 | SAND | CLAY | Wht-ylbn m-cg srnd SAND +bsl sandy CLAY | — | — | — | – | |
| 4 | PNstt | N | 26.00 | 124.00 | SHLE | — | Chbn-blgy(bnds) mica lam SHLE | — | — | LBED | – | |
| 5 | PM-p | N | 124.00 | 400.00 | SDST | — | Ppl-gry-bn m=cg sang-srnd SDST +mnr pbls | H | — | — | – | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 14/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EBA- 2 | MAP No: 6037 | UNIT No: 148

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | K | N | 0.00 | 140.00 | CLAY | CLST | Crm-wht CLAY & Plbrn-blgy CLST | — | — | — | – | |
| 2 | Kmb | Y | 0.00 | 40.00 | CLAY | CLST | Crm-wht CLAY & Plbrn-blgy CLST | weth | — | — | – | Weth transition @ 30m |
| 3 | Knc | Y | 40.00 | 140.00 | SILT | SAND | Blgy clyy SILT,mg rnd SAND+mnr pbls <3cm | — | — | — | – | Mnr Py in SAND @75 |
| 4 | PNstt | N | 140.00 | 150.00 | SHLE | — | Ppbn-blgy lam SHLE, micaceous partings | — | LBED | — | – | |
| 5 | PM-p | N | 150.00 | 400.00 | SDST | — | Ppbn-gry m-cg ang-srnd SDST +mica laminae | HB | — | — | – | Qtz pbls <1cm, psrtd |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 24/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | STRATIGRAPHY : | | | | LITHOLOGY | | | HOLE NUMBER SR- 1 | | | | MAP No: 6038 UNIT No: 39 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
| 1 | K | N | 0.00 | 143.60 | SLST | SDST | Dkgy carb SLST +gry-wht SDST ibed @60m | weth | — | — | – | weth wht-ylbn <35m |
| 2 | Kmb | Y | 0.00 | 60.00 | SLST | — | Dkgry carb SLST weth wht-pk/ylbn <35m | weth | — | — | – | |
| 3 | Knca? | Y | 60.00 | 90.00 | SDST | — | Gry-wht fg/grty frbl SDST: hrd zns Py | — | — | — | – | |
| 4 | Knc | Y | 90.00 | 143.60 | SLST | SDST | Dkgry carb SLST +SDST bnd 10m @122 | — | — | — | – | |
| 5 | JKa | N | 143.60 | 158.00 | SDST | CGLM | Plgngy psrt pbly SDST/CGLM: marly | — | — | — | – | Diss Py in mtx |
| 6 | PPh7 | N | 158.00 | 171.00 | AMPH | — | Dkylgn f-mg AMPH: weth/alt upr0.8m, EPID | E | — | FOLI | 20 | Vns Q-C/Q-F +Py/Phr |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER KGB- 1 | MAP No: 6134 | UNIT No: 33

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SOIL | — | No description | — | — | — | – | |
| 2 | PM-p | N | 2.00 | 81.00 | SDST | — | Pnk-gry(mnr) fg SDST & ppl-rdbn SLST | — | — | IBED | – | |
| 3 | PM-p3 | Y | 2.00 | 40.00 | SDST | SLST | Pnk-gry(mnr) fg SDST & mnr SLST ibed | — | — | — | – | |
| 4 | PM-p2 | Y | 40.00 | 67.00 | SLST | SDST | Ppl-rdbn mica SLST/SHLE;grn alt spts/bnd | S | — | — | – | Alt=ser? |
| 5 | PM-p1 | Y | 67.00 | 81.50 | SDST | SLST | Ppl-wht cg SDST ibed SLST: loc XBED | — | IBED | XBED | – | |
| 6 | PMa | N | 81.50 | 163.00 | DACT | RHLT | Pnk-org? fg? porp? DACT/RHLT/TRAC | H | — | — | – | Vns QTZ,frac EPID-Q- |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER KGB- 2 | MAP No: 6134 | UNIT No: 34

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | T | N | 0.00 | 16.50 | SICT | — | Wht mass & ndlr SICT | — | — | — | – | |
| 2 | PM-p? | N | 16.50 | 23.00 | SDST | — | Wht-pnk fg SDST | — | — | — | – | |
| 3 | PMa | N | 23.00 | 60.00 | RHLT | TRAC | Pnk vfg RHLT/DACT: SICT alt >50m?-(pet) | Qw | — | — | – | Weth <35m?-(log) |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER KGB- 3 | MAP No: 6134 | UNIT No: 35

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 5.00 | SAND | CLAY | Yel SAND/CLAY | — | — | — | – | |
| 2 | K? | N | 5.00 | 20.00 | SAND | CLAY | Wht-yel SAND?clay | — | — | — | – | |
| 3 | PMyg | N | 20.00 | 37.00 | DOLR | — | Gygn? f-mg? DOLR; stng weth <27md | weth | — | — | – | Loc frac, diss? Mt |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: KGB-4 | MAP No: 6134 | UNIT No: 36

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SAND | — | Aeol SAND | — | — | — | – | |
| 2 | PM-p | N | 2.00 | 199.00 | SDST | SLST | Rdbn SDST & SLST ibed | weth | — | — | – | |
| 3 | PM-p3 | Y | 2.00 | 23.00 | SDST | SLST | Wht-yel/rdbn SDST ibed yel SLST(CLAY) | — | — | — | – | |
| 4 | PM-p2 | Y | 23.00 | 65.00 | SLST | SDST | Rdbn mica SLST ibed rdbn vfg lsr SDST | — | — | — | – | |
| 5 | PM-p1a | Y | 65.00 | 131.00 | SDST | SLST | Rdbn f-vfg SDST & lsr SLST ibed | — | — | — | – | |
| 6 | PM-p1b | Y | 131.00 | 199.00 | SDST | — | Rdbn-gry motl cg grty psrt SDST | H | — | — | – | |
| 7 | PMa | N | 199.00 | 270.00 | RHLT | FSPO | Dkrdbn-yel porp RHLT: Phxt FELD? ,CHL | RC | — | — | – | Vns/frac C-R 45-60Dg |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: MH-1 | MAP No: 6134 | UNIT No: 32

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PM-p | N | 0.00 | 133.00 | SDST | SLST | Rdbn-pplbn SDST(SLT-mtx) & SLST ibed | — | — | — | – | Hematitic |
| 2 | PM-p3 | Y | 0.00 | 63.00 | SDST | SLST | Ppl-brn m-cg SDST +SLST ibed: weth-<15m | weth | — | XBED | – | Weth frble ox frac Py |
| 3 | PM-p2 | Y | 63.00 | 70.50 | SLST | SDST | Rdbn-gry SLST & fg SDST: thin ibed | — | — | IBED | – | |
| 4 | PM-p1 | Y | 70.50 | 133.00 | SDST | SLST | Brn sang c-vcg SDST +SLST mtx & ibed | — | — | MBED | – | Bsl SLST 2.5m@130.05 |
| 5 | PMa | N | 133.00 | 154.55 | RDAC | — | Brn-pplgy vfg amyg porp RDAC:Q rch gmass | HSRC | — | — | – | Lim pseud to diss Py |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER LH- 1 | MAP No: 6135 | UNIT No: 99

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TQ | N | 0.00 | 30.00 | SAND | CLAY | No descriptions | — | — | — | – | |
| 2 | PNwy | N | 30.00 | 48.10 | SLST | SDST | Rdbn-gry(bnds) SLST +loc SDST layr <10cm | — | — | — | – | SDST fg & xbed |
| 3 | PNstc | N | 48.10 | 95.20 | SDST | SHLE | Brn fg arksic SDST +mnr SHLE/SLST ibed | — | MBED | IBED | – | SLST inbd abun 80-90 |
| 4 | PM-p | N | 95.20 | 443.20 | SDST | — | Lt-dkbn c-fg SDST+pbl beds:cls QTZ-FEXT | — | MBED | GBED | – | Prob PM-p3/4, HMB |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER LH- 2 | MAP No: 6135 | UNIT No: 100

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TQ | N | 0.00 | 30.00 | SAND | CLAY | No descriptions | — | — | — | – | |
| 2 | K | N | 30.00 | 37.50 | CLAY | SAND | Wht-ltgry CLAY & sandy CLAY:SAND vf-fg | — | — | — | – | Loc pbls/grnls, Kmb? |
| 3 | PM-p | N | 37.50 | 507.15 | SDST | SLST | Rdbn c-fg psrt SDST +silt/grnl/pbly bnds | weth | — | — | – | Loc weth |
| 4 | PM-p4? | Y | 37.50 | 285.00 | SDST | SLST | Rdbn mass m-fg psrt SDST +loc SLST bnds | weth | MASS | XBED | – | Weth-bleach to <55m |
| 5 | PM-p3? | Y | 285.00 | 428.50 | SDST | SLST | Rdbn mass f-mg msrt SDST +freq SLST bnds | — | MASS | MBED | – | Mnr Py |
| 6 | PM-p1? | Y | 428.50 | 507.15 | SDST | GRIT | Rdbn mass m-cg psrt SDST +grnl/pbly bnds | — | — | MBED | – | Cls sang FEXT-FELD- |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | SSR-1001 | MAP No: | 6136 |
|---|---|---|---|
| | | UNIT No: | 91 |

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 4.00 | GIBR | — | Pbls LATR, CHRT, & OQZT | — | — | — | – | |
| 2 | T | N | 4.00 | 6.00 | CACT | — | Wht ndlr-ethy CACT | — | — | — | – | |
| 3 | PNst | N | 6.00 | 215.71 | SDST | SLST | Wht-brn SDST/SLST ovly chbn SHLE/SLST | — | XBED | LBED | 90 | |
| 4 | PNsts | Y | 6.00 | 43.60 | SDST | SHLE | Wht-plbuf f-mg wsrt SDST +mnr ibed SHLE | — | MASS | MBED | 90 | Wk XBED, poor BED |
| 5 | PNstc | Y | 43.60 | 60.90 | SDST | SLST | Wht vfg mica lam SDST & wht-brd lam SLST | — | — | LBED | 90 | Ripples |
| 6 | PNstt | Y | 60.90 | 215.71 | SHLE | SLST | Chbn-grn/wht(mnr) lam SHLE/SLST | — | — | LBED | 88 | Bsl mtr "grn spheres" -poss PNwn facies? |
| 7 | PNhh | N | 215.71 | 242.39 | SDST | SHLE | Rdbn-wht m-cg SDST & chbn SHLE ibed | — | — | — | 88 | SHLE=PNwtt descp. |
| 8 | PM-p | N | 242.39 | 499.50 | SDST | CGLM | Ppl-rdbn grtty SDST +mnr CGLM:intr-DOLR | — | — | — | 90 | DOLR dykes=15m thk |
| 9 | PM-pl? | Y | 242.39 | 300.00 | CGLM | GRIT | Ppl wsrt bimdl m-vcg CGLM/GRIT:slty HEM | — | — | — | – | Rnd pbls, ang cg GRIT |
| 10 | PMyg | Y | 300.00 | 307.60 | DOLR | — | Dkgrn DOLR, chld mgns-H-R-alt, frac CRB | HR | DYKE | — | 45 | |
| 11 | PM-pl? | Y | 307.60 | 328.40 | GRIT | SDST | Ppl m-fg rnd-sang SDST/GRIT:mnr SHLE cls | — | — | XBED | 90 | Dips to 30Dg, GRIT bn |
| 12 | PMyg | Y | 328.40 | 423.65 | DOLR | MEPH | Dkgrn DOLR:chld mgns-R-slck:frac C-Q-R-H | HR | DYKE | — | 65 | PN-p @330.2, MEPH p |
| 13 | PM-pl? | Y | 423.65 | 432.00 | GRIT | SDST | Ppl m-fg rnd-sang SDST/GRIT:mnr SHLE cls | RH | — | XBED | 90 | Mnr pbl bnds,frac R-H Rev grading-fluviatile! |
| 14 | PMyg | Y | 432.00 | 434.25 | MEPH | — | Blk fg aphan MEPH | — | DYKE | — | – | Late pase of DOLR |
| 15 | PM-pl? | Y | 434.25 | 499.50 | GRIT | SDST | Ppl m-fg rnd-sang SDST/GRIT:mnr SHLE cls | RH | — | XBED | 90 | Mnr pbl bnds,frac R-H |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 31/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER RL- 1 | MAP No: 6137 | UNIT No: 52

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | T? | N | 0.00 | 26.55 | SAND | — | Yel-brn? QTZ SAND +mnr FEOX stain | — | — | — | – | |
| 2 | Eha | N | 26.55 | 69.65 | DLAR | CLRD | Wht-org-gry styl cavit corln clast DLOM | — | — | LBED | – | Mnr rdbn SHLE, Py-st |
| 3 | Ehp? | N | 69.65 | 71.70 | SDST | CGLM | Brn CGLM/GYWK/SDST /SHLE +gygn-olgn S | — | MASS | — | – | |
| 4 | PNstt | N | 71.70 | 236.85 | SHLE | SDST | Rdbn-blgn(bnds) SHLE + lsr mass fg SDST | — | XBED | LBED | – | |
| 5 | PNsn | N | 236.85 | 238.22 | DLOM | — | Pnk-brn-plyel mass DLOM | — | MASS | — | – | |
| 6 | PNft2 | N | 238.22 | 238.80 | CGLM | — | Rdbn plmc regl CGLM | — | — | — | – | |
| 7 | PMya | N | 238.80 | 400.82 | SDST | CGLM | Rdbn hem SDST/CGLM: cls=PM-p; leisg alt | — | — | — | – | Poss fault repit |
| 8 | PM-p3 | N | 400.82 | 616.05 | SDST | SLST | Rdbn-ppl hem SDST: mnr pbly zns, SLST | — | — | — | – | DOLR dyke 5m @595.4 |
| 9 | PM-p3 | Y | 400.82 | 595.40 | SDST | SLST | Rdbn-ppl hem SDST: mnr pbly zns, SLST | — | — | — | – | Ufsq-SLST-tops:upr ox |
| 10 | PMyg | Y | 595.40 | 600.35 | DOLR | — | Grn? DOLR: PLAG laths: fg mgns: <5% Mt | C | OPHT | DYKE | – | Mnr Py, 0.8 SDST @59 |
| 11 | PM-p3 | Y | 600.35 | 616.05 | SDST | — | Rdbn-ppl hem SDST: mnr pbly zns, SLST | C | — | — | – | |
| 12 | PMyg | N | 616.05 | 674.60 | DOLR | MGBR | Grn? DOLR: PLAG laths: fg mgns; <8% Mt | CU | — | DYKE | – | Vns Q-C-KFLD(rd-pn |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER PEE- 1 | MAP No: 6137 | UNIT No: 55

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 9.00 | CLAY | GYPS | Lthn-grn CLAY +abund GYPS ndls,lyrs,blads | — | — | — | – | |
| 2 | CP | N | 9.00 | 81.00 | MDST | DIMC | Blu-gry sandy MDST +rnd-QTZ cls DIMC | — | — | — | – | |
| 3 | Ps | Y | 9.00 | 60.00 | MDST | — | Blu-gry MDST +sandy lyrs -rnd-QTZ | — | — | — | – | |
| 4 | CPb | Y | 60.00 | 81.00 | MDST | DIMC | Blu-gry MDST +rnd-QTZ: frags pbls? | — | — | — | – | Poss DIMC, Py ndls |
| 5 | Eha | N | 81.00 | 121.00 | LMST | MDST | Gry-brn LMST/MDST: algl CAAR, soln vugs | — | — | TBED | – | Intertidal struct? |
| 6 | PNstt? | N | 121.00 | 292.37 | SLST | — | Chbn SLST & FG SDST ibed-ufsq | — | — | XBED | – | Bsl-distl-facies? |
| 7 | PNh1? | N | 292.37 | 324.32 | SLST | CGLM | Rdbn SDST, chbn SLST, gngy CACT pbl CGLM | — | — | TBED | – | PNwn equiv? |
| 8 | PNft1 | N | 324.32 | 346.25 | CGLM | — | Red QTZ pble HEM mtx CGLM: sandy, motl | B | — | — | – | |
| 9 | PM-p3 | N | 346.25 | 655.60 | SDST | — | Rdbn-gry mg SDST +SLST lyrs | B | — | GBED | – | Tr diss Py ass B alt |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 28/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | STRATIGRAPHY: | | | | LITHOLOGY | | | HOLE NUMBER SR- 6 | | | | MAP No: 6138 UNIT No: 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Unit | Sub | From (m) | To (m) | 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
| 1 | Q | N | 0.00 | 2.00 | SAND | CLAY | Superfical deposits. | — | — | — | – | |
| 2 | PNst | N | 2.00 | 455.63 | SDST | SHLE | Plbrn SDST abov chbn lam SHLE/SLST | — | XBED | LBED | – | Fault bndry |
| 3 | PNstc | Y | 2.00 | 146.80 | SDST | SLST | Plbrn-grn SDST +ibed brn-grn SHLE/SLST | — | — | XBED | – | Mnr MARC, silic cmt |
| 4 | PNstt | Y | 146.80 | 455.63 | SHLE | SLST | Chbn-blgy(mnr) SHLE/SLST: fin-lam & fisl | — | — | LBED | – | Upr cnt=fault |
| 5 | PNh | N | 455.63 | 483.10 | GRIT | SLST | Brn-gygn GRIT/CGLM +SLST ibed | — | — | — | – | |
| 6 | PNhh | Y | 455.63 | 464.71 | GRIT | — | Brn? wrnd wsrt arcosic GRIT:cls CRB <3cm | — | — | XBED | – | |
| 7 | PNh ? | Y | 464.71 | 480.40 | SLST | GRIT | Brn-gygn SLST +bnds GRIT | — | — | — | – | Scour features |
| 8 | PNh2? | Y | 480.40 | 483.10 | CGLM | SLST | Gygn CGLM +SLST-CACT mtx: cls no descrp | — | — | — | – | Vns mnr CALC |
| 9 | PNft | N | 483.10 | 616.73 | SLST | DLOM | Gygn mass SLST +algl biohm dec abun | — | — | TBED | – | Vns CALC, diss Py, Cp |
| 10 | PNua | N | 616.73 | 895.55 | DIMC | SDST | Gygn DIMC sand/silt mtx:ibed SDST/SLST | — | MBED | TBED | – | Plym, highfrq lith vars |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | SR-12 | MAP No: | 6139 |
|---|---|---|---|
| | | UNIT No: | 34 |

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q? | N | 0.00 | 40.00 | SHLE | — | Ltgry-blk carb SHLE=MDST/CLAY:weth-GYPS | weth | — | — | – | Weth <16.4, lacust? |
| 2 | T? | N | 40.00 | 82.10 | SAND | GRIT | Gry? pyritic SAND; GRIT + thn pbl ibed | — | — | IBED | – | Py grns <3mm |
| 3 | Kmb? | N | 82.10 | 119.60 | SHLE | SDST | Dkgy? carb SHLE+mnr hrd SDST bnds:bse-Py | — | — | — | – | Coquina? shelly lam? |
| 4 | JKa? | N | 119.60 | 138.80 | SDST | SHLE | Gry mass wsrt c-mg frbl SDST +mnr SHLE | — | — | — | – | SICT @top, bsl-Py |
| 5 | CP | N | 138.80 | 399.00 | MDST | DIMC | Gybl algl MDST & wht wsrt SDST/DIMC | — | — | XBED | – | algl struc <181.15m |
| 6 | Ps | Y | 138.80 | 197.92 | MDST | GRIT | Gybl algl MDST & wht wsrt fg XBED SDST | — | — | XBED | – | algl struc <181.15m |
| 7 | CPb | Y | 197.92 | 399.00 | DIMC | — | Gry sandy DIMC:cls GRNT & META, mtx psrt | — | — | XBED | 20 | SHLE & CGLM inbds |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 28/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | SR-13_2 | MAP No: | 6139 |
|---|---|---|---|
| | | UNIT No: | 35 |

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lit | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 4.00 | SAND | — | Org mrnd psrt SAND | — | — | — | – | |
| 2 | K? | N | 4.00 | 92.00 | SAND | — | Wht-crm/gry s-mrnd p-msrtd uncnsld SAND | — | — | — | – | Probably weak cmt |
| 3 | PNua | N | 92.00 | 670.88 | SDST | DIMC | Blk-gry-brn SDST & DIMC/CGLM +mnr SLST | — | MASS | XBED | 90 | |
| 4 | PNua | Y | 92.00 | 136.00 | SDST | — | Blk-brn SHLE & gry wrnd wsrt SDST | — | — | — | – | |
| 5 | PNua | Y | 136.00 | 208.60 | DIMC | SDST | Rdbn-gry DIMC/CGLM, SDST & SLST-SICTifd | Q | MASS | XBED | 90 | Plym, loc diss Py |
| 6 | PNua | Y | 208.60 | 247.90 | DIMC | — | Rdbn-gry DIMC/CGLM, SDST & SLST | — | MASS | XBED | 85 | |
| 7 | PNua | Y | 247.90 | 282.00 | SLST | SDST | Gry? mass SLST +ibed fg SDST | — | IBED | TBED | – | |
| 8 | PNua | Y | 282.00 | 670.88 | DIMC | GRIT | Gry DIMC/CGLM grty SDST & SLST/SHLE ibe | — | MASS | TBED | 80 | Irreg seq, Tr mtx Py |
| 9 | PNb | N | 670.88 | 900.27 | SDST | SLST | Gry SDST & SLST/SHLE ibed seq | — | IBED | TBED | 80 | Vns CRB, mnr CGLM |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 28/08/92 |

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PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | FH- 1 | MAP No: | 6233 |
|---|---|---|---|
| | | UNIT No: | 14 |

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Estimated depths !!! |
| 1 | Q | N | 0.00 | 3.00 | SAND | REGL | Yel-brn f-mg SAND + clst wht CALC | — | — | — | -- | |
| 2 | T | N | 3.00 | 27.00 | SAND | — | Rdbn-ylwht f-mg SAND & CLAY: upr LATR zn | — | — | — | -- | Palaeosol prfl |
| 3 | T | Y | 3.00 | 7.00 | SAND | LATR | Rdbn-ylbn f-mg lateritic SAND | — | — | — | -- | |
| 4 | T | Y | 7.00 | 27.00 | SAND | CLAY | Rdbn-wht f-mg SAND & CLAY | — | — | — | -- | |
| 5 | PNh1? | N | 27.00 | 60.50 | SDST | CGLM | Yel-gry vf-mg SDST +mnr CLAY:bsl CGLM | — | — | — | -- | |
| 6 | PMa | N | 60.50 | 132.00 | RHLT | RDAC | Rdbn porp RHLT:phxt SANI/PLAG:CHL/EPID | RESF | PORP | — | -- | Vns/frac Mt-Py(mnr) |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 1/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | FH- 2 | MAP No: | 6233 |
|---|---|---|---|
| | | UNIT No: | 15 |

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Estimated depths !!! |
| 1 | Q | N | 0.00 | 3.00 | SAND | CACT | Ylbn clayey f-mg SAND +lge cls CACT | — | — | — | -- | |
| 2 | T | N | 3.00 | 18.00 | SAND | CLAY | Rdbn-yel-wht SAND/CLAY +latr weth prfl | — | — | BED | -- | |
| 3 | T | Y | 3.00 | 5.00 | SAND | CLAY | Rdbn f-mg SAND +sandy CLAY bnds? | — | — | — | -- | |
| 4 | T | Y | 5.00 | 7.00 | LATR | SAND | Rdbn LATR/SAND +MAGT/MAGH? | — | — | — | -- | |
| 5 | T | Y | 7.00 | 15.00 | SAND | CLAY | Red-Yel SAND + sandy CLAY ibed? | — | — | — | -- | |
| 6 | T | Y | 15.00 | 18.00 | CLAY | — | Wht CLAY + sml clst FEXT & MAGT | — | — | — | -- | |
| 7 | PMa | N | 18.00 | 48.00 | RHLT | — | Rdbn porp RHLT: phxt wht-PLAG,CHL, | HRF | — | — | -- | Diss/vns CHL-MAGT |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 31/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | FH- 3 | MAP No: | 6233 |
|---|---|---|---|
| | | UNIT No: | 16 |

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Estimated depths !!! |
| 1 | Q | N | 0.00 | 2.50 | SAND | REGL | Gry-yl f-mg SAND:clayey, clst CACT | — | — | — | -- | Q-soil prfl |
| 2 | T | N | 2.50 | 75.00 | SAND | CLAY | Rdbn-yel-wht SAND/CLAY: mult weth prfls | — | — | — | -- | Wprfls on seds & basmt |
| 3 | T | Y | 2.50 | 4.00 | SAND | CACT | Rd fg SAND & wht? CACT | — | — | — | -- | T-soil prfl |
| 4 | T | Y | 4.00 | 20.00 | SAND | LATR | Rdbn f-mg SAND & LATR+mnr CLAY:cls FEXT | weth | — | — | -- | Palaeo weth prfl |
| 5 | T | Y | 20.00 | 47.00 | SAND | — | Rdbn f-mg SAND+mnr CLAY,MAGT & cls FEXT | — | — | — | -- | "Frsh" T-seds |
| 6 | T | Y | 47.00 | 53.00 | SAND | CLAY | Yel-wht fg SAND & CLAY | — | — | — | -- | Pre Tsed soil prfl |
| 7 | T? | Y | 53.00 | 75.00 | CLAY | — | Wht CLAY | weth | — | — | -- | Weth prfl A/B Horz? |
| 8 | PMyg? | N | 75.00 | 87.00 | DOLR | — | wht CLAY? +cls DOLR? ovly grn? DOLR | weth | — | — | | |
| 9 | PMyg? | Y | 75.00 | 80.00 | DOLR | — | "dolerite cnct zn"=wht CLAY? +cls DOLR? | weth | — | — | -- | C-horiz weth? |
| 10 | PMyg? | Y | 80.00 | 87.00 | DOLR | — | Grn? mass? mg DOLR:meso-KFLD-QTZ:BIOTgrns | — | — | — | -- | MDOL with PMa affinity |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): |

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PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER FH- 4 | MAP No: 6233 | UNIT No: 17

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SAND | — | Rdbn vfg SAND +clst wht CACT | — | — | — | – | Estimated depths !!! |
| 2 | T | N | 2.00 | 13.00 | SAND | — | Rdbn f-mg SAND: lateritic? | — | — | — | – | |
| 3 | PNh1? | N | 13.00 | 70.00 | SDST | — | Gry-pnk vfg SDST | — | — | — | – | |
| 4 | PM-p | N | 70.00 | 150.00 | SDST | SLST | Rdbn-wht/gry(mnr) SDST +mica SLST | B | — | — | – | |
| 5 | PM-p3 | Y | 70.00 | 103.00 | SDST | SLST | Rdbn SDST +mica SLST | B | — | — | – | |
| 6 | PM-p2 | Y | 103.00 | 130.50 | SLST | SDST | Rdbn mica SLST +mnr fg SDST | — | — | — | – | |
| 7 | PM-p1 | Y | 130.50 | 150.00 | SDST | SLST | Rdbn-ylbn fg SDST +loc SLST 3.5m @139.5m | — | — | — | – | |
| 8 | PMa | N | 150.00 | 180.00 | RHLT | — | Rdbn-gry porp RHLT:phxt SANI-CHL . | HRF | PORP | — | – | Vns thn CHL @60Dg-90 |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 2/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER FH- 5 | MAP No: 6233 | UNIT No: 13

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 7.50 | SAND | REGL | Yel vf-mg SAND +cls frbl SDST & SICT | — | — | — | – | Estimated depths !!! FEOX-magnetic |
| 2 | PNh1? | N | 7.50 | 86.00 | SDST | — | Pkgy-gry(wht) ang wsrt m-cg SDST:loc GRT | weth | — | — | – | White bleach alt=weth? |
| 3 | PM-p | N | 86.00 | 167.00 | SDST | SLST | Rdbn-gry ang m-cg SDST & SLST | — | — | — | – | |
| 4 | PM-p3 | Y | 86.00 | 143.50 | SDST | SLST | Rdbn-gry ang vf-cg SDST +SLST ibed:mica | — | — | IBED | – | Loc GRIT & hmb |
| 5 | PM-p2 | Y | 143.50 | 156.50 | SLST | — | Rdbn SLST | — | — | TBED | – | |
| 6 | PM-p1 | Y | 156.50 | 167.00 | SDST | SLST | Rdgy fg SDST & lsr SLST ibed | — | — | IBED | – | SLST-radm/log |
| 7 | PMa | N | 167.00 | 174.00 | RHLT | — | Rdbn porp RHLT:phxt CHL(grn)-FELD(wt/pk) | HRS | — | — | – | Vns undescrb, loc SHRZ |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 2/7/92 |

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PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER PDH- 1 | MAP No: 6233 | UNIT No: 19

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | T | N | 0.00 | 60.00 | SAND | CLAY | Red-wht-gry SAND & CLAY : uncl | HS | — | — | – | |
| 2 | T | Y | 0.00 | 4.00 | SAND | CACT | Rdbn aeol SAND +40% wht CACT | — | — | — | – | |
| 3 | T | Y | 4.00 | 8.00 | SAND | CLAY | Red-org mg QTZ SAND +30% CLAY | — | — | — | – | |
| 4 | T | Y | 8.00 | 18.00 | CLAY | SAND | Red & wht uncl CLAY +m-cg QTZ SAND | — | — | — | – | |
| 5 | T | Y | 18.00 | 36.00 | SAND | CLAY | Red & wht uncl m-cg QTZ SAND & 25% CLAY | — | — | — | – | |
| 6 | T | Y | 36.00 | 60.00 | SAND | CLAY | Red ylwt uncl f-cg QTZ SAND & 20% CLAY | — | — | — | – | Sand ang-srnd+pbl PM- |
| 7 | PM-p1b | N | 60.00 | 68.00 | SDST | GRIT | Mar-grn(mnr) hem SDST +grn SLST & GRIT | HS | — | — | – | Diss? Py <2% fg flms |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 29/7/92 |

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PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER PDH-4 | MAP No: 6233 | UNIT No: 20

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 10.00 | SAND | CACT | Wht-red CACT <2m abv red aeol m-cg SAND | wh | --- | --- | -- | |
| 2 | PNh? | N | 10.00 | 20.00 | SLST | SDST | Wht-yel SLST +lsr f-mg QTZ SDST | weth | --- | --- | -- | No chips-frbl=weth |
| 3 | PNhh | N | 20.00 | 30.00 | SDST | CGLM | Plbrn-yel f-cg SDST, wrnd QTZ, bsl CGLM | weth | --- | --- | -- | |
| 4 | PNft | N | 30.00 | 58.00 | SLST | SDST | Wht-gry-blk SLST +mnr fg SDST, weth<55m | weth | --- | --- | -- | soft, MALC loc @ base |
| 5 | PNft1 | N | 58.00 | 64.00 | SDST | --- | Mar-dkgrn hem fg SDST | SH | --- | --- | -- | loc< 2% Py |
| 6 | PMy? | N | 64.00 | 82.00 | DOLR | --- | Grn-blk opht DOLR: PLAG lath in fg gmas | --- | OPHT | --- | -- | Diss C-H-R & 2% fg Py |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 29/7/92 |

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PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER PDH-6 | MAP No: 6233 | UNIT No: 21

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 8.00 | SAND | CACT | Brn f-mg SAND & rdbn SILT/CLAY +SICTALC | --- | --- | --- | -- | |
| 2 | PNh | N | 8.00 | 32.00 | SDST | REGL | Brn-mar f-cg SDST+bsl REGL=SDST/SDST-cls | --- | --- | --- | -- | |
| 3 | PNhh | Y | 8.00 | 24.00 | SDST | --- | Plbn-plmar f-cg SDST +<15% wht SER | weth | --- | --- | -- | SILC prof <16m: Cret? |
| 4 | PNh3 | Y | 24.00 | 32.00 | SDST | REGL | Ltbn-plmar SDST +clst Fe SDST:paleo REGL | --- | --- | --- | -- | |
| 5 | PM-p | N | 32.00 | 196.00 | SDST | SLST | Brn-mar f-cg SDST & lsr mar SLST/SHLE | HR | --- | --- | -- | Loc blk SHLE ibed @120 |
| 6 | PM-p3 | Y | 32.00 | 110.00 | SDST | --- | Ltbn-plmar f-cg SDST +HEM-SER mtx, mica | --- | --- | TBED | -- | Cls GRNT, Mt,IM,PX, |
| 7 | PM-p2 | Y | 110.00 | 140.00 | SLST | SHLE | Mar SLST/SHLE +mnr fg ang-sang QTZ SDST | HR | --- | LBED | -- | Blk SHLE @ 20%!! @12 |
| 8 | PM-p1a | Y | 140.00 | 196.00 | SDST | SLST | Mar-plbn f-mg SDST & lsr mar SLST/SHLE | --- | --- | IBED | -- | Bed bimdl grnsz |
| 9 | PMa | N | 196.00 | 224.00 | DACT | --- | Brn mass vfg porp FEXT: phxt twnd PLAG | --- | --- | --- | -- | No QTZ, comp inferd |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 29/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ******* Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER PDH-8 | MAP No: 6233 | UNIT No: 22

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SAND | --- | Rdbn? f-cg aeol SAND +CLAY <20% | --- | --- | --- | -- | |
| 2 | T? | N | 2.00 | 8.00 | CACT | SAND | Rdbn f-cg SAND in CRB mtx<20% | --- | --- | --- | -- | |
| 3 | PNft | N | 8.00 | 42.00 | SLST | --- | Wht-gry SHLE/SLST (75/25%) +mnr SAND | weth | --- | --- | -- | Weth=b,Oxd=h,poxd=g |
| 4 | PNft1 | N | 42.00 | 60.00 | SLST | SDST | Dkmar lam SLST & fg ang-sang SDST:transt | O | --- | LBED | -- | Oxd=Hem?, partoxd=gr |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 30/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ******* Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: PDH-12 | MAP No: 6233 | UNIT No: 18

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SAND | CLAY | Brn aeol SAND & CLAY | — | — | — | – | |
| 2 | T? | N | 2.00 | 4.00 | CACT | — | Brn SAND/CLAY & wht CACT 30% | — | — | — | – | |
| 3 | T? | N | 4.00 | 28.00 | SAND | CLAY | Org mg wrnd QTZ SAND & 40% CLAY | — | — | — | – | Very weth PNhh? |
| 4 | PNhh | N | 28.00 | 64.00 | SDST | — | Wht-yel m-cg wrnd lith SDST+20% CLAY mtx | weth | — | — | – | |
| 5 | PM-p | N | 64.00 | 191.00 | SDST | SLST | Mar-pnk-wht m-cg hem SDST & SLST | B | — | — | – | Mox, ANHY, & Py |
| 6 | PM-p3 | Y | 64.00 | 146.00 | SDST | SLST | Mar-pnk-wht m-cg hem SDST +mnr rdbn SLST | B | — | — | – | Mox-Py-ANHY, specHE |
| 7 | PM-p2 | Y | 146.00 | 168.00 | SLST | SDST | Mar-pnk hem SLST +mnr rdbn mg SDST ibed | — | — | — | – | Mox ndls, ANHY, Py |
| 8 | PM-p1a | Y | 168.00 | 191.00 | SDST | SLST | Mar-pnk m-cg hem SDST +mnr rdbn SLST | — | — | — | – | Mox ndls, ANHY |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 30/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: SAD-1 | MAP No: 6233 | UNIT No: 23

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SAND | CACT | Rdbn mg aelo SAND? +wht CACT/SICT? | — | — | — | – | Dpth estim only glg NA |
| 2 | PNhh | N | 2.00 | 142.00 | SDST | — | Brn-wht/gry? f-mg SDST +acc CLAY/SILT? | — | — | — | – | |
| 3 | PNft | N | 142.00 | 229.10 | SLST | DLOM | Gry lam dolm SLST+mnr ibed DLOM lam,SDST | — | XBED | LBED | 90 | Rpl XBED, diss Py-Cpy |
| 4 | PNft1 | N | 229.10 | 236.96 | SLST | CGLM | Dkgry lam SLST +bsl SDST/CGLM & disp pbl | — | — | TBED | 90 | Nrshre facs, Py-Cpy-Ga |
| 5 | PMa | N | 236.96 | 251.25 | RDAC | FSPO | Rdpnk vfg porp AMYG RDAC :phxt FELD<10% | — | PORP | — | – | Vns CRB-QTZ-Py |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 30/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STRATIGRAPHY : | | | | | LITHOLOGY | | | HOLE NUMBER | PIL- 12 | | | | MAP No: 6234 UNIT No: 21 | | |
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation | / Comment | | |
| 1 | Q | N | 0.00 | 2.00 | SAND | CLAY | Rdbn sandy soil | — | — | — | – | | | | |
| 2 | T | N | 2.00 | 26.00 | SAND | CLAY | Yel-pnk SAND +CLAY lyrs clst-SDST-FEXT | — | — | — | – | mnr LIGN | | | |
| 3 | PM-p | N | 26.00 | 35.00 | SDST | DOLR | Buf bmdl SAND & CLAY +PYX-FLD grns | weth | — | — | – | Weth prof orig unrecog | | | |
| 4 | PMyg | N | 35.00 | 102.00 | DOLR | SDST | Grn f-mg DOLR subv dyk SDST-upr DACT-lwr | — | — | — | – | | | | |
| 5 | PMyg | Y | 35.00 | 44.00 | DOLR | SDST | Grn CLAY & buf SAND +PYX-FLD gns | weth | — | — | – | See gchem BMetl levels | | | |
| 6 | PMyg | Y | 44.00 | 54.00 | DOLR | CLAY | Grn CLAY & DLOR clst | weth | — | — | – | | | | |
| 7 | PMyg | Y | 54.00 | 102.00 | DOLR | — | Dkgrn mg LUCX/MAGT1 FELD5 PYX2 QTZ1 | Ch | — | — | – | Py/Cpy Cu,Zn,Ni enrch | | | |
| 8 | PMyg | Y | 102.00 | 107.00 | DOLR | DACT | Brn fg chld mgn rimd FELD: Orbn DACT | H | — | — | – | Inct subv | | | |
| 9 | PMa | N | 107.00 | 156.00 | DACT | DOLR | Orbn DACT: DOLR chld mgn inct subv | HR | — | — | – | | | | |
| 10 | PMa | Y | 107.00 | 122.00 | DACT | DOLR | Dkorbn fg: FELD-phxt1 CHLR1 | RH | — | — | – | | | | |
| 11 | PMa | Y | 122.00 | 156.00 | DACT | FSPO | Brn-grn fg: fg FELD1 FELD-phxt3 CHLR2 | HR | PORP | — | – | Cu,Zn enrch | | | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/8/92 | | | |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ******* Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STRATIGRAPHY : | | | | | LITHOLOGY | | | HOLE NUMBER | PIL- 13 | | | | MAP No: 6234 UNIT No: 22 | | |
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation | / Comment | | |
| 1 | Q | N | 0.00 | 6.00 | SAND | CLAY | Plbrn ang cg usrt clayey sand +SDST clst | — | — | — | – | | | | |
| 2 | PM-p | N | 6.00 | 380.00 | SDST | SLST | Mar-rdbn c-mg SDST +ibed rdbn SLST | — | — | — | – | | | | |
| 3 | PM-p4 | Y | 6.00 | 180.00 | SDST | SLST | Mar c-mg hem SDST +pgrn-wht mott mnr SLST | HS | — | — | – | | | | |
| 4 | PM-p3 | Y | 180.00 | 278.00 | SDST | SLST | Red ibed SDST SHLE/SLST wht-grn mott | HS | — | — | – | Mnr Zn enrich in SHLE | | | |
| 5 | PM-p2 | Y | 278.00 | 310.00 | SLST | SDST | Rdbn fg SLST mnr SHLE & SDST wht-grn spt | S | — | — | – | Mnr Zn enrich | | | |
| 6 | PM-p1b | Y | 310.00 | 380.00 | SDST | SLST | Red-wht f-cg subr SDST mnr SLST | S | — | — | – | | | | |
| 7 | PMa | N | 380.00 | 390.00 | DACT | — | Rdbn fg: euh FELD phxt2-alt ?ocelli | HS | — | — | – | Vmnr Zn enrich | | | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/8/92 | | | |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ******* Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | STRATIGRAPHY : | | | | LITHOLOGY | | | HOLE NUMBER PIL- 14 | | | MAP No: 6234 UNIT No: 23 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
| 1 | Q | N | 0.00 | 2.00 | SAND | CLAY | Brn stiff clayey sand | — | — | — | – | |
| 2 | T | N | 2.00 | 6.00 | SICT | — | Buf cg ang silicified sand | — | — | — | – | |
| 3 | T | N | 6.00 | 32.00 | SAND | SILT | Buf qtz SAND40% SILT20% CLAY30% +clst10% | — | — | — | – | |
| 4 | PM-p | N | 32.00 | 264.00 | SDST | SLST | Mar ibed SDST/SLST +bleached by SERC alt | Hs | — | — | – | |
| 5 | PM-p4 | Y | 32.00 | 126.00 | SDST | — | Plmar-wht f-cg ang-sang +mnr SLST | Hs | — | — | – | |
| 6 | PM-p3 | Y | 126.00 | 191.00 | SDST | SHLE | Mar-wht/grn ibed sang f-cg SDST/SLST/SHLE | Hs | — | — | – | Vmnr Zn enrch-SHLE |
| 7 | PM-p2 | Y | 191.00 | 218.00 | SLST | — | Red-wht varg +vfg srnd QTZ | Hs | — | LBED | – | Vmnr Zn enrch-SHLE |
| 8 | PM-p1 | Y | 218.00 | 264.00 | SDST | — | Buf f-cg sang bimdl srt SDST +SERC mtx | Hs | — | — | – | Mnr Cu,Pb enrch-MNOX |
| 9 | PMa | N | 264.00 | 280.00 | FEXT | — | No log- pet: QTZ-ORTH-PLAG-MUSC-SER-CHLR | — | — | — | – | Strat sub on Zn enrch |
| 10 | PMyg | N | 280.00 | 302.00 | DOLR | — | No log- pet: PLAG-TREM?-CACT chld mgn? | — | STEL | — | – | Strat sub on Zn,Cu,Ni |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | STRATIGRAPHY : | | | | LITHOLOGY | | | HOLE NUMBER PIL- 15 | | | MAP No: 6234 UNIT No: 24 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
| 1 | PM-p | N | 0.00 | 140.00 | SDST | SLST | Mar/gry ibed hem SDST & SLST +SERC alt | Hs | — | — | – | |
| 2 | PM-p3 | Y | 0.00 | 70.00 | SDST | SLST | Mar/gry fg sang SDST +ibed rd/gn SHLE/SLST | Hs | — | — | – | |
| 3 | PM-p2 | Y | 70.00 | 120.00 | SLST | SHLE | Red-grn SLST/SHLE +mnr fg SDST | Hs | — | — | – | |
| 4 | PM-p1 | Y | 120.00 | 140.00 | SDST | SLST | Plmar f-cg QTZ SDST +mnr grn-red SLST | Hs | — | — | – | Mnr Cu,Pb enrch-?SLST |
| 5 | PMa | N | 140.00 | 160.00 | RDAC | — | Brn-grn FEXT FELD-phxt1 QTZ-MICA-FELDmes | S | — | — | – | Mnr Zn enrch |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | STRATIGRAPHY : | | | | LITHOLOGY | | | HOLE NUMBER PIL- 16 | | | MAP No: 6234 UNIT No: 25 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
| 1 | Q | N | 0.00 | 2.00 | SAND | CLAY | Brn stiff clayey sand | — | — | — | – | |
| 2 | PM-p | N | 2.00 | 320.00 | SDST | SLST | Mar-gry/wht/plgrn | — | — | — | – | |
| 3 | PM-p4 | Y | 2.00 | 108.00 | SDST | SLST | Mar-gry/wht/plgrn f-cg SDST +mnr SLST | B | — | — | – | |
| 4 | PM-p3 | Y | 108.00 | 182.00 | SDST | SLST | Gry/mar fg SDST intb red/mar SLST +spty alt | B | — | — | – | |
| 5 | PM-p2 | Y | 182.00 | 232.00 | SLST | SHLE | Red SHLE/SLST & mnr gry SDST ibed | — | — | — | – | Mnr Zn enrch-SHLE |
| 6 | PM-p1 | Y | 232.00 | 320.00 | SDST | SLST | Buf/Rdbn f-mg fbl SDST +mnr SHLE | S | — | — | – | |
| 7 | PMa | N | 320.00 | 324.00 | DACT | — | Brn/grn fg FELD phxt | — | PORP | — | – | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | VG- 1 | MAP No: | 6235 |
|---|---|---|---|
| | | UNIT No: | 77 |

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 1.00 | MUD | — | Saline lake mud | — | — | — | – | |
| 2 | PNstt | N | 1.00 | 104.30 | SHLE | — | Chbn-blgy(bnds) mica SHLE | — | — | TBED | – | SHLE bnds & microfault |
| 3 | PNsn | N | 104.30 | 110.90 | SHLE | DLOM | Chbn SHLE & wht DLOM ibed & nodl | — | — | IBED | – | DLOM mass >110.4 |
| 4 | PNh | N | 110.90 | 219.89 | SDST | DLAR | Gry? mg lith SDST ovly Grn mg DLART/GRIT | — | — | MBED | – | DLAR/GRIT=PNha? |
| 5 | PNhh | Y | 110.90 | 216.75 | SDST | — | Gry? m-cg psrt lith SDST: lam-grn-SLST | — | — | MBED | – | Py cmnt HMB, dolm<11 |
| 6 | PNh1 | Y | 216.75 | 219.89 | DLAR | — | Grn mg DLAR/GRIT: blk SHLE mtx | — | — | — | – | Slump Struc-periglac |
| 7 | PNf | N | 219.89 | 378.70 | SHLE | SDST | Blk-gry SHLE/DLOM & bsl pnk? SDST/CGLM | — | — | — | – | |
| 8 | PNft | Y | 219.89 | 328.25 | SHLE | DLOM | Blk-gry lam SHLE +mnr bnds DLOM & GYPS | — | — | LBED | – | Ripple mks |
| 9 | PNftw | Y | 328.25 | 374.39 | DLOM | SHLE | Gry? DLOM: teepee? BREC +blk SHLE ibed | — | — | IBED | – | Bsl tr Py-Cpy, Zn enrich |
| 10 | PNft1 | Y | 374.39 | 378.70 | CGLM | — | Pnk? para-CGLM: clst QTZ SDST | — | — | — | – | |
| 11 | PM-p | N | 378.70 | 1067.47 | SDST | — | Rdbn hem SDST & lesr SHLE ibed, mnr GRIT | — | — | — | – | |
| 12 | PM-p4 | Y | 378.70 | 795.10 | SDST | — | Rdbn psrt mass grty m-cg SDST: loc blch | BS | — | MBED | – | Mtx-HEM-KAOL |
| 13 | PM-p3 | Y | 795.10 | 991.18 | SDST | SHLE | Rdbn wsrt mg? SDST & mnr SHLE ibed; ufsq | Q | — | IBED | – | Frac QTZ,GYPS,HEMsp |
| 14 | PM-p2 | Y | 991.18 | 1001.20 | SHLE | — | Rdbn-grn motl mica fiss SHLE | — | — | — | – | |
| 15 | PM-p1a | Y | 1001.20 | 1066.00 | SDST | — | Rdbn grty SDST: brec -ripup SLST/SDST? | — | — | — | – | |
| 16 | PM-p1b | Y | 1066.00 | 1067.47 | CGLM | — | Rdbn GRIT: clst ppl-FEXT | — | — | — | – | |
| 17 | PMa2g | N | 1067.47 | 1096.00 | DACT | RHLT | Pnk? RHLT-IGNM & DACT-TUFF intlyr | HRS | — | — | – | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 11/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | STRATIGRAPHY: | | | | LITHOLOGY | | | HOLE NUMBER: WJD-1 | | | MAP No: 6235 UNIT No: 78 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
| 1 | PNst | N | 0.00 | 342.30 | SDST | SHLE | Brn-wht-grgn SDST ovly chbn SHLE/SLST | — | — | — | -- | |
| 2 | PNsts | Y | 0.00 | 158.00 | SDST | SHLE | Lt/mdbrn-grgn SDST +mnr SHLE | — | — | — | -- | |
| 3 | PNstc | Y | 158.00 | 188.00 | SDST | SHLE | Dkbrn fg SDST +mnr SHLE | — | — | — | -- | Mnr GYPS bnds |
| 4 | PNstt | Y | 188.00 | 342.30 | SHLE | SLST | Chbn-grn(mnr-bnds) SHLE/SLST+mnr SDST zn | — | — | TBED | 90 | |
| 5 | PNhh | N | 342.30 | 507.30 | SDST | — | Pnk-plred wk-hem m-cg lith SDST:bsl pbly | — | — | MBED | 90 | |
| 6 | PNf | N | 507.30 | 755.95 | SHLE | SDST | Gry-blk ibed SHLE/DLOM & bsl CGLM | — | — | — | 90 | |
| 7 | PNft | Y | 507.30 | 736.10 | SHLE | DLOM | Blk-gry SHLE +ibed wht-gry DLOM:loc brec | — | — | IBED | 90 | Tr Py |
| 8 | PNft1 | Y | 736.10 | 755.95 | CGLM | SDST | Cg plmc CGLM:cls CHRT-FEXT-LMST-OQZT | Q | — | — | -- | Silic DOLM-CGLM; tr P |
| 9 | PM-p1 | N | 755.95 | 827.20 | SDST | SHLE | Ppl-bkrd mica SDST +mnr SHLE & CGLM bnds | — | — | XBED | 90 | HMB |
| 10 | PMa | N | 827.20 | 861.60 | RHLT | DACT | Pnk-Gry-wht RHLT TUFF/AGLM : TEPH? | HRCS | EPCL | — | -- | Tr Cpy |
| 11 | PMa | Y | 827.20 | 831.50 | RHLT | — | Gry-pnk fg lith RHLT-TUFF | H | TUFF | — | -- | |
| 12 | PMa | Y | 831.50 | 845.50 | AGLM | RHLT | Dkgry-pnk lith TUFF/AGLM: cls-CHRT-FEXT | HR | AGLM | — | -- | Tr Py |
| 13 | PMa | Y | 845.50 | 861.60 | RHLT | — | Wht-ppl mass PORP RHLT-xtl-TUFF | HS | TUFF | — | -- | |
| 14 | PPwp5 | N | 861.60 | 1015.10 | BIF | CHRT | Rdbn-pnk BIF: HEM/MAGT-QTZ-CHL; loc fld | RC | — | LAYR | 75 | Mnr vns Cp-Bn-Py |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | STRATIGRAPHY: | | | | LITHOLOGY | | | HOLE NUMBER: WOOM 1 | | | MAP No: 6235 UNIT No: 42 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
| 1 | PNst | N | 0.00 | 239.00 | SLST | SHLE | ibed slst,shle+fg sdst ovr lamb shle | — | LAMB | — | -- | |
| 2 | PNstc | Y | 0.00 | 72.00 | SLST | SHLE | grn,ppl+pnk xbed ibed slst,shle+fg sdst | — | IBED | — | -- | |
| 3 | PNstt | Y | 72.00 | 239.00 | SHLE | SLST | ppl,brn+grn lamb shle+rar slst,mnr xbed | — | LAMB | — | -- | |
| 4 | PNh | N | 239.00 | 342.00 | SDST | CLST | mg-cg sdst ovr sandy clst+bsl dlom brec | — | — | — | -- | |
| 5 | PNhh | Y | 239.00 | 320.00 | SDST | — | mg-cg fbl sdst + occ clay bands | — | — | — | -- | |
| 6 | PNhh1? | Y | 320.00 | 341.00 | CLST | SDST | sandy clst+occ frags black dlom | — | — | — | -- | org PNhh |
| 7 | PNh2 | Y | 341.00 | 342.00 | DLOM | BREC | PNhh+wht dlom frags in dk gry shle mtx | — | — | — | -- | |
| 8 | PNf | N | 342.00 | 470.00 | SHLE | OQZT | blk lamb dlom shle ovr pnk-gry lamb OQZT | — | LAMB | — | -- | |
| 9 | PNft | Y | 342.00 | 455.00 | SHLE | DLOM | dk gry-blk lamb shle+mnr ibed slst+dlom | — | LAMB | — | -- | cpy |
| 10 | PNft1 | Y | 455.00 | 470.00 | OQZT | — | pnk-gry fg lamb OQZT+sst qtz pbl+?dlom | — | LAMB | — | -- | |
| 11 | PM-p3a | N | 470.00 | 611.00 | OQZT | — | ppl-red ind OQZT | — | — | — | -- | could be any PM-p mem. |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV 30/6/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER TWN-2 | MAP No: 6236 | UNIT No: 69

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 4.00 | SAND | — | Red sand uncsl | — | — | — | – | |
| 2 | Eha | N | 4.00 | 20.00 | LMST | — | No data | — | — | — | – | |
| 3 | PNst | N | 20.00 | 293.00 | SDST | SHLE | Rdbn vmnr grn SHLE data from 282m only | — | — | — | – | |
| 4 | PNstc | Y | 20.00 | 154.00 | SDST | — | Red-wht "quartzite" No other data | — | — | — | 90 | |
| 5 | PNstt | Y | 154.00 | 293.30 | SHLE | — | Rdbn vmnr grn SHLE data from 282m only | — | — | LAMB | 90 | |
| 6 | PNsn | N | 293.30 | 294.50 | DLOM | SHLE | Crm-pnk mott dolomite/mudstone | — | — | TBED | 90 | |
| 7 | PNh2 | N | 294.50 | 303.40 | BREC | — | GRNT clst f-mg brec & hem fg matix suptd | — | — | — | – | Basl bndy @70dg,Vn-CR |
| 8 | PMwr | N | 303.40 | 545.60 | GRNT | LGRT | Pnk mg-mxt GRNT mg LGRT +mnr GRDI & FPEG | SRH | VEIN | MASS | – | |
| 9 | PMwr4 | Y | 303.40 | 383.50 | GRNT | — | Pnk cg mxt QTZ-FELD-BIOT +mafic XENO | SRH | VEIN | MASS | – | Vns-Q-CRB-HEM-Cp-C |
| 10 | PMwr5 | Y | 383.50 | 420.10 | GRNT | — | Pnk mg QTZ-KFLD-BIOT +mafic XENO & FPEG | SRH | — | MASS | – | Diss-Py-Cpy, Vn-HEM-P |
| 11 | PMwr6 | Y | 420.10 | 423.10 | LGRT | — | Pnk mg | H | — | MASS | – | Vns-CHR-Py-Cpy |
| 12 | PMwr5 | Y | 423.10 | 443.10 | GRNT | — | Pnk mg QTZ-KFLD-BIOT +mafic XENO & FPEG | SRH | — | MASS | – | Lyrs BIOT,KFLD,& Py, |
| 13 | PMwr6 | Y | 443.10 | 444.20 | LGRT | — | Pnk mg | H | — | MASS | – | |
| 14 | PMwr4 | Y | 444.20 | 460.30 | GRNT | — | Pnk cg mxt QTZ-FELD-BIOT +mafic XENO | SRH | VEIN | MASS | – | Feldspars alligned |
| 15 | PMwr7 | Y | 460.30 | 461.30 | GRDI | — | Gry? mg? PLAG-BIOT +KFLD-VEIN/CLOT | SR | VEIN | MASS | – | |
| 16 | PMwr4 | Y | 461.30 | 517.40 | GRNT | — | Pnk cg mxt QTZ-FELD-BIOT +mafic XENO | SRH | VEIN | MASS | – | Feld all, Vns Q,hemFLD |
| 17 | PMwr6 | Y | 517.40 | 526.70 | LGRT | GRNT | Gry? mg KFLD-QTZ-mnr PLAG +XENO (.3m mxt) | — | — | MASS | – | |
| 18 | PMwr4 | Y | 526.70 | 532.00 | GRNT | LGRT | Pnk cg mxt QTZ-FELD-BIOT +FPEG, mnr LGRT | SRH | VEIN | MASS | – | Mnr vns-CRB |
| 19 | PMwr5 | Y | 532.00 | 534.90 | GRNT | — | Pnk mg QTZ-KFLD-BIOT | — | — | — | – | Shrzn?, mnr Py |
| 20 | PMwr4 | Y | 534.90 | 545.60 | GRNT | — | Pnk cg mxt QTZ-FELD-BIOT +FPEG, mnr LGRT | SR | — | — | – | Mnr vns-Py-Cpy-CRB |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithocodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | TWN-3 | MAP No: | 6236 |
|---|---|---|---|
| | | UNIT No: | 70 |

| | STRATIGRAPHY: | | | | LITHOLOGY | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
| 1 | Q | N | 0.00 | 2.00 | SAND | — | Red uncsl sand & gypsum | — | — | — | – | |
| 2 | Eha | N | 2.00 | 16.00 | LMST | — | No data | — | — | — | – | |
| 3 | PNst | N | 16.00 | 288.00 | SDST | — | Red-wht "quartzite" | — | — | — | – | |
| 4 | PNstc | N | 16.00 | 148.00 | SDST | — | Red-wht "quartzite" | — | — | — | – | |
| 5 | PNstt | N | 148.00 | 288.00 | SHLE | — | No data | — | — | — | – | |
| 6 | PMwr8 | N | 288.00 | 305.43 | DIOR | — | Pnk mg 75%FLD 25%BIOT(CHL) thin QTZ Vns | HRC | MASS | — | – | Mnr vns-Q-CRB-/HEM |
| 7 | PM1 | N | 305.43 | 318.43 | GBBR | — | Grn mg lwr chld mrgn & FLD laths HC Vns | HCR | — | — | – | Vns-Q-CRB-HEM |
| 8 | PMwr | N | 318.43 | 641.10 | DIOR | LGRT | Gry/Pnk pale LGRT in older GRDI | HCR | MASS | SHRZ | – | PMwr7 may be pre PMh |
| 9 | PMwr8 | Y | 318.43 | 333.06 | DIOR | — | Pnk mg 75%FLD 25%BIOT(CHL) thin QTZ Vns | HRC | MASS | SHRZ | – | Two vnset-Q-CRB-HEM |
| 10 | PMyg | N | 333.06 | 336.00 | DOLR | — | Grn fg | RC | MASS | SHRZ | 60 | Intruded into SHRZ |
| 11 | PMwr8 | Y | 336.00 | 362.55 | DIOR | — | Pnk mg 75%FLD 25%BIOT/PX(CHL) & HC Vns | — | MASS | SHRZ | – | Mnr vns Q-HEM-CRB |
| 12 | PMwr6 | Y | 362.55 | 363.30 | LGRT | — | Plpnk QTZ-KFLD +DIOR Xenos | R | MASS | — | – | DIOR Xenos -> late int |
| 13 | PMwr8 | Y | 363.30 | 367.25 | DIOR | — | Pnk mg 75%FLD 25%BIOT/PX(CHL) & HC Vns | — | MASS | — | – | |
| 14 | PMwr6 | Y | 367.25 | 371.10 | LGRT | — | Plpnk QTZ-KFLD | R | MASS | — | 25 | Xcutt intr T20,B30 dg |
| 15 | PMwr8 | Y | 371.10 | 399.70 | DIOR | LGRT | Pnk mg 75%FLD 25%BIOT/PX(CHL) LGRT bnds | — | — | SHRZ | 60 | Mineral layering |
| 16 | PMwr7? | Y | 399.70 | 425.00 | GRDI | LGRT | Gry-pnk? mg +lyrs LGRT C-Vns | C | GNSC | FOLI | – | Mnr pnk vns- CRB |
| 17 | PMwr8 | Y | 425.00 | 481.50 | DIOR | — | Pnk mg 75%FLD 25%BIOT/PX(CHL) & HF Vns | HRC | — | FOLI | – | Vn-Q-FELD +hem,CHR |
| 18 | PMwr6 | Y | 481.50 | 493.20 | LGRT | — | Pnk f-mg +pnk KFLD phxt | R | — | — | – | CHR in fracs |
| 19 | PMwr8 | Y | 493.20 | 498.00 | DIOR | — | Pnk mg 75%FLD 25%BIOT/PX(CHL) & HF Vns | HRC | — | — | – | |
| 20 | PMwr6 | Y | 498.00 | 499.00 | LGRT | — | Pnk f-mg +pnk KFLD phxt | R | — | — | – | |
| 21 | PMwr8 | Y | 499.00 | 544.30 | DIOR | — | Pnk mg 75%FLD 25%BIOT/PX(CHL) & QC Vns | RC | MASS | VEIN | 65 | CRB in BREC, vn-Q/CH |
| 22 | PMwr7 | Y | 544.30 | 551.30 | GRDI | — | Gry? f-mg 15%mfc(BIOT) mnr QTZ & FLD Pxt | C | GNSC | FOLI | 50 | Vn-CRB |
| 23 | PMwr8 | Y | 551.30 | 560.00 | DIOR | — | Pnk mg 75%FLD 25%BIOT/PX(CHL) & RC Vns | R | MASS | — | – | Frac CHR-CRB |
| 24 | PMwr7 | Y | 560.00 | 562.90 | GRDI | — | Gry? f-mg 15%mfc(BIOT) mnr QTZ & FLD Pxt | — | GNSC | FOLI | 50 | |
| 25 | PMwr8 | Y | 562.90 | 566.50 | DIOR | — | Pnk mg 75%FLD 25%BIOT/PX(CHL) & RH Vns | RH | MASS | — | – | Vns-HEM-CHR |
| 26 | PMwr7 | Y | 566.50 | 569.80 | GRDI | — | Gry? f-mg 15%mfc(BIOT) mnr QTZ & FLD Pxt | — | GNSC | FOLI | 60 | |
| 27 | PMwr8 | Y | 569.80 | 586.90 | DIOR | — | Pnk mg 75%FLD 25%BIOT/PX(CHL) & C Vns | C | — | FOLI | – | Mnr vns-Cp-CRB-BART |
| 28 | PMwr6 | Y | 586.90 | 596.25 | LGRT | — | Pnk/grn f-mg +pnk KFLD/QTZ allgn-Phxt | — | MASS | — | 40 | Flow banding? |
| 29 | PMwr8 | Y | 596.25 | 641.10 | DIOR | — | Pnk mg 75%FLD 25%BIOT/PX(CHL) +LGRT bnds | RC | MASS | FOLI | – | Frac-Cpy,vns Q/CHR-CR |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER ACD-1 | MAP No: 6236 | UNIT No: 73

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | /Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Eha | N | 0.00 | 40.00 | LMST | — | No description available | — | — | — | – | |
| 2 | PNst | N | 40.00 | 411.37 | SDST | SHLE | No description available | — | — | — | – | |
| 3 | PNsts | Y | 40.00 | 172.00 | SDST | — | No description available | — | — | — | – | |
| 4 | PNstc | Y | 172.00 | 200.50 | SDST | — | No description available | — | — | — | – | |
| 5 | PNstt | Y | 200.50 | 411.37 | SHLE | — | No description available | — | — | — | – | |
| 6 | PNsn | N | 411.37 | 412.90 | DLOM | SHLE | No description available | — | — | — | – | |
| 7 | PM-p | N | 412.90 | 717.80 | SDST | CGLM | No description available | — | — | — | – | |
| 8 | PM-p | Y | 412.90 | 715.20 | SDST | — | No description available | — | — | — | – | |
| 9 | PM-p1b | Y | 715.20 | 717.80 | CGLM | — | No description available | — | — | — | – | |
| 10 | PMa | N | 717.80 | 1097.60 | FEXT | EPCL | Felsic volcanics & sediments | HS | — | — | – | Wk Cu min, U @ 818-26 |
| 11 | PMa | Y | 717.80 | 924.00 | EPCL | BREC | Pnk? volcgen sed: cls FEXT, part BREC | HS | — | BREC | – | Dis Py, vugs, Bn@900m |
| 12 | PMa | Y | 924.00 | 1097.60 | FEXT | BREC | Porp FEXT: vns Mt throughout | S | — | BREC | – | Tr Py-Cp, +Bn 940-985m |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 5/11/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER ACD-2 | MAP No: 6236 | UNIT No: 74

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | /Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TQ | N | 0.00 | 2.00 | SAND | CACT | Red SAND, CACT + weth LMST/DLOM | weth | — | — | – | |
| 2 | Eha | N | 2.00 | 27.00 | LMST | — | No description available | — | — | — | – | |
| 3 | PNst | N | 27.00 | 400.00 | SHLE | SDST | No description available | — | — | — | – | |
| 4 | PNsts | Y | 27.00 | 162.00 | SDST | — | No description available | — | — | — | – | |
| 5 | PNstc | Y | 162.00 | 180.00 | SDST | — | No description available | — | — | — | – | |
| 6 | PNstt | Y | 180.00 | 400.00 | SHLE | — | No description available | — | — | — | – | |
| 7 | PNh3? | N | 400.00 | 402.55 | BREC | — | Bedded CGLM & BREC | — | — | BED | – | |
| 8 | PM-p | N | 402.55 | 431.90 | SDST | SHLE | SDST, SHLE +bsl HEM/FEXT-BREC: ibed | — | — | IBED | – | |
| 9 | PMa | N | 431.90 | 915.00 | FEXT | BREC | Porp FEXT/BREC complex | HS | PORP | BREC | – | Vn H-PY-Cp-Bn |
| 10 | PMa15 | Y | 431.90 | 673.60 | FEXT | DLBR | Pnk? porp FEXT: insitu DLBR?: freq H vns | HS | PORP | BREC | – | Vns H, +Bn >655m |
| 11 | PMa14 | Y | 673.60 | 680.00 | FEXT | — | Pnk? wk bnd FEXT/TUFF: vns H-Bn | — | BND | — | – | Vns-H-Bn, scatterd |
| 12 | PMa14 | Y | 680.00 | 773.40 | FEXT | — | Pnk? mass porp FEXT: vns H-Cc-Bn <742m | HS | MASS | — | – | Mnr diss Cp & Py >717 & in H-vns <742m |
| 13 | PMa15 | Y | 773.40 | 873.00 | FEXT | BREC | Pnk? mass porp FEXT: Thin invasive? BREC | HS | MASS | PORP | – | Vns-H, +APAT 831-840 |
| 14 | PMa14 | Y | 873.00 | 915.00 | FEXT | — | Pnk? mass porp FEXT: mnr thin BREC" | HS | MASS | PORP | – | Perv-H ints 831-840m |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 5/11/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER ACD-4 | MAP No: 6236 | UNIT No: 75

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | /Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 6.00 | SAND | — | Dune SAND | — | — | — | – | |
| 2 | T | N | 6.00 | 18.00 | CLST | — | Claystone | — | — | — | – | |
| 3 | Eha | N | 18.00 | 60.00 | LMST | — | No descriptions available | — | — | — | – | |
| 4 | PNst | N | 60.00 | 457.05 | SHLE | SDST | No descriptions available | — | — | — | – | |
| 5 | PNsts | Y | 60.00 | 212.00 | SDST | — | No descriptions available | — | — | — | – | |
| 6 | PNstc | Y | 212.00 | 222.00 | SDST | — | No descriptions available | — | — | — | – | |
| 7 | PNstt | Y | 222.00 | 457.05 | SHLE | — | No descriptions available | — | — | — | – | |
| 8 | PNsn | N | 457.05 | 458.40 | DLOM | SHLE | No descriptions available | — | — | — | – | |
| 9 | PNf | N | 458.40 | 486.10 | SLST | CGLM | Bsl pebble CGLM | — | — | — | – | |
| 10 | PNft | Y | 458.40 | 480.15 | SLST | — | No descriptions available | — | — | — | – | |
| 11 | PNft1 | Y | 480.15 | 486.10 | CGLM | — | Sandy pebble CGLM | — | — | — | – | |
| 12 | PM-p | N | 486.10 | 576.25 | SDST | — | No descriptions available | — | — | — | – | |
| 13 | PMa | N | 576.25 | 848.00 | FEXT | BREC | Mass (porp) FEXT +ibed plmc BREC/CGLM | HSR | MASS | EPCL | – | Phxt var abund. |
| 14 | PMa14 | Y | 576.25 | 834.60 | FEXT | EPCL | Mass (porp) FEXT +ibed plmc BREC/TUFF | HSR | MASS | EPCL | – | Irrg BND @>830m BRE 686,713,749, & 755m |
| 15 | PMa | Y | 834.60 | 837.00 | CGLM | SDST | Granule CGLM/SDST | — | — | — | – | |
| 16 | PMa14 | Y | 837.00 | 848.00 | FEXT | BREC | Mass FEXT +ibed plmc BREC | — | MASS | BREC | – | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 5/11/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER ACD-5 | MAP No: 6236 | UNIT No: 76

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | /Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | T | N | 0.00 | 20.00 | SDST | — | Sandstone-weakly? cemented | — | — | — | – | |
| 2 | Eha | N | 20.00 | 46.00 | LMST | — | No description available | — | — | — | – | |
| 3 | PNst | N | 46.00 | 408.15 | SHLE | SDST | No description available | — | — | — | – | |
| 4 | PNsts | Y | 46.00 | 190.00 | SDST | — | No description available | — | — | — | – | |
| 5 | PNstc | Y | 190.00 | 198.00 | SDST | — | No description available | — | — | — | – | |
| 6 | PNstt | Y | 198.00 | 408.15 | SHLE | — | No description available | — | — | — | – | |
| 7 | PNsn | N | 408.15 | 409.15 | DLOM | SHLE | No description available | — | — | — | – | |
| 8 | PNh3 | N | 409.15 | 410.45 | CGLM | — | Plmc CGLM: cls-GRNT, FEXT, & DLOM | — | — | — | – | PNft pinchout nearby? |
| 9 | PNf | N | 410.45 | 426.40 | SLST | BREC | Bsl hematitic REGL? | — | — | — | – | |
| 10 | PNft | Y | 410.45 | 426.15 | SLST | DLOM | No description available | — | — | — | – | |
| 11 | PNft2? | Y | 426.15 | 426.40 | BREC | — | BREC cls-FEXT: thin basement REGL lag? | — | — | — | – | |
| 12 | PMa14 | N | 426.40 | 687.00 | FEXT | — | Pnk? porp FEXT: Intnse frac zns <559m | HS | — | — | – | Strng alt dimin >636m |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 5/11/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER ACD-7 | MAP No: 6236 | UNIT No: 77

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | /Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 15.00 | SAND | — | Orange and white SAND | — | — | — | – | |
| 2 | Eha | N | 15.00 | 44.00 | LMST | — | No description available | — | — | — | – | |
| 3 | PNst | N | 44.00 | 421.75 | SHLE | SDST | No description available | — | — | — | – | |
| 4 | PNsts | Y | 44.00 | 194.00 | SDST | — | No description available | — | — | — | – | |
| 5 | PNstc | Y | 194.00 | 202.00 | SDST | — | No description available | — | — | — | – | |
| 6 | PNstt | Y | 202.00 | 421.75 | SHLE | — | No description available | — | — | — | – | |
| 7 | PNsn | N | 421.75 | 423.90 | DLOM | SHLE | No description available | — | — | — | – | |
| 8 | PNft | N | 423.90 | 448.90 | SLST | — | No description available | — | — | — | – | |
| 9 | PM-p | N | 448.90 | 464.30 | SDST | BREC | Bsl brec/talus? of local derivation? | — | — | — | – | |
| 10 | PM-p | Y | 448.90 | 463.10 | SDST | — | No description available | — | — | — | – | |
| 11 | PM-plb | Y | 463.10 | 464.30 | BREC | — | Hematite breccia- regolith/talus? | — | — | — | – | |
| 12 | PMh10 | N | 464.30 | 567.30 | AGRN | MCGR | Pnk motl mass f-mg MCGR: mnr phxt-FLD | SH | MASS | — | – | Alk GRNT comp, Q=30 |
| 13 | PMh11 | N | 567.30 | 572.70 | SYEN | — | Fg ALK-QTZ-SYEN: | — | — | — | – | QTZ-low abun |
| 14 | PMh10 | N | 572.70 | 576.30 | AGRN | FSPO | Pnk motl mass f-mg MCGR: <10%-phxt-FLD | — | PORP | — | – | Alk GRNT comp, Q=30 |
| 15 | PMh10 | N | 576.30 | 580.12 | AGRN | MCGR | Pnk motl mass f-mg MCGR: mnr phxt-FLD | SH | MASS | — | – | Alk GRNT comp, Q=30 |
| 16 | PMa14 | N | 580.12 | 589.95 | FSPO | — | Pnk f-mg FSPO: gmas-FLD-QTZ,phxt-FLD | SH | — | — | – | phxt=20-30% |
| 17 | PMh11 | N | 589.95 | 605.70 | SYEN | — | Fg ALK-QTZ-SYEN: phxt abun >595.45m | — | PORP | — | – | |
| 18 | PMa15 | N | 605.70 | 751.06 | MAGT | HYTR | Pnk-brn? mass vfg Mt-HEM-(APAT-QTZ) rlc | R | BREC | MASS | – | Vug/diss Cp-Py |
| 19 | PMyg | N | 751.06 | 751.50 | DOLR | — | Grn? fg DOLR: dyke? | R | — | — | – | only R alt reported |
| 20 | PMa15 | N | 751.50 | 780.62 | MAGT | HYTR | Pnk-brn? mass vfg Mt-HEM-(APAT-QTZ) rlc | R | BREC | MASS | – | Vug/diss Cp-Py |
| 21 | PMh10 | N | 780.62 | 787.24 | AGRN | MCGR | Pnk mass fg MCGR: 25%? phxt-FLD/QTZ | SH | MASS | — | – | Alk GRNT comp |
| 22 | PMa15 | N | 787.24 | 854.73 | NAGT | HYTR | Pnk-brn? mass vfg Mt-HEM-(APAT-QTZ) rlc | RC | — | — | – | FEXT/GRNT rlcts |
| 23 | PMa14 | N | 854.73 | 954.30 | FEXT | FSPO | Pnk fg porp "FEXT":phxt-QTZ<15%: vns@909m | — | — | — | – | Vns/alt-QTZ-Mt-HYTR |
| 24 | PMh11 | N | 954.30 | 956.80 | SYEN | — | Vfg ALK-QTZ-SYEN: dyke? | — | — | — | – | |
| 25 | PMa14 | N | 956.80 | 959.10 | FEXT | FSPO | Porphyritic felsic lithologies | — | — | — | – | |
| 26 | PMa15 | N | 959.10 | 978.80 | MAGT | HYRR | Mt-QTZ-CHL-SER rlc rlct SYEN & FEXT/PORP | RS | — | — | – | Perv rplac alt? |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 5/11/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER ACD- 9 | MAP No: 6236 | UNIT No: 78

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | /Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SAND | --- | Dune sand | --- | --- | --- | -- | |
| 2 | Q | N | 2.00 | 10.00 | CLAY | --- | Grey-white clay | --- | --- | --- | -- | |
| 3 | Eha | N | 10.00 | 41.00 | LMST | --- | No available description | --- | --- | --- | -- | |
| 4 | PNst | N | 41.00 | 642.95 | SHLE | SDST | No available description | --- | --- | --- | -- | |
| 5 | PNsts | Y | 41.00 | 156.00 | SDST | --- | No available description | --- | --- | --- | -- | |
| 6 | PNstc | Y | 156.00 | 196.00 | SDST | --- | No available description | --- | --- | --- | -- | |
| 7 | PNstt | Y | 196.00 | 409.90 | SHLE | --- | No available description | --- | --- | --- | -- | |
| 8 | PNsn | N | 409.90 | 410.20 | DLOM | SHLE | No available description | --- | --- | --- | -- | |
| 9 | PM-p | N | 410.20 | 642.95 | SDST | --- | No available description | --- | --- | --- | -- | |
| 10 | PMa | N | 642.95 | 877.00 | FEXT | HYTR | FEXT-SCINT-SIBR-HYRR-HYTR | BHSR | --- | --- | -- | |
| 11 | PMa16 | Y | 642.95 | 660.50 | SINT | BIFO | Rdbn? mass & cbnd HEM-BIFO: loc brec | --- | BREC | BND | -- | |
| 12 | PMa16 | Y | 660.50 | 663.80 | SIBR | FEXT | Wht DLBR of FEXT +SER mtx: FEXT alt | BQ | DLBR | --- | -- | |
| 13 | PMa16 | Y | 663.80 | 672.65 | HYRR | FEXT | Wht fg mass FEXT-perv? alt | BQ | MASS | --- | -- | |
| 14 | PMa14 | Y | 672.65 | 849.20 | FEXT | FSPO | Pnk-grn? porp FEXT: Mt-vns mod abund | HSR | PORP | --- | -- | |
| 15 | PMa15 | Y | 849.20 | 877.00 | MAGT | HYTR | Pnk-rd? mg mass? Mt-APAT: mnr R-S-Cp-Py | --- | --- | --- | -- | Acc BRAN/RUTL,Ag-U |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 5/11/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER ACD- 10 | MAP No: 6236 | UNIT No: 79

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | /Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SAND | --- | Red SAND | --- | --- | --- | -- | |
| 2 | Eha | N | 2.00 | 44.00 | LMST | --- | No description available | --- | --- | --- | -- | |
| 3 | PNst | N | 44.00 | 430.50 | SHLE | SDST | No description available | --- | --- | --- | -- | |
| 4 | PNsts | Y | 44.00 | 178.00 | SDST | --- | No description available | --- | --- | --- | -- | |
| 5 | PNstc | Y | 178.00 | 196.00 | SDST | --- | No description available | --- | --- | --- | -- | |
| 6 | PNstt | Y | 196.00 | 430.50 | SHLE | --- | No description available | --- | --- | --- | -- | |
| 7 | PM-p | N | 430.50 | 550.60 | SDST | --- | No description available | --- | --- | --- | -- | |
| 8 | PMa | N | 550.60 | 807.50 | FEXT | HYTR | PNK? porp FEXT cut by MASS HEM vns/brec | SQH | PORP | BREC | -- | Var diss H, Cu-Ag min T Tr U,Au,La,CE |
| 9 | PMa14 | Y | 550.60 | 670.50 | FEXT | --- | Pnk? porp FEXT: loc H alt & vns | SQ | PORP | --- | -- | |
| 10 | PMa15 | Y | 670.50 | 627.70 | HYTR | BREC | BREC: cls FEXT in mass HEM mtx | --- | BREC | --- | -- | |
| 11 | PMa14 | Y | 627.70 | 753.80 | FEXT | --- | Pnk? porp FEXT: loc H,Q alt,Vns-H | SQH | PORP | --- | -- | Wk Cu-Ag min, Tr u-Au Vns-H 723.65-735m |
| 12 | PMa15 | Y | 753.80 | 765.50 | HYTR | BREC | MASS HEM: + cls FEXT-(mnr CHL alt) | R | --- | --- | -- | |
| 13 | PMa14 | Y | 765.50 | 807.50 | FEXT | --- | Pnk porp FEXT: perv H +vns-H | H | PORP | --- | -- | Wk Cu-Ag-U min M Mnr La-Ce |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 5/11/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER ACD-18

MAP No: 6236

UNIT No: 80

| | STRATIGRAPHY: | | | | LITHOLOGY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | /Fabric | Core/ | Formation | / Comment |
| 1 | PNst | N | 0.00 | 420.60 | SHLE | SDST | No description available | — | — | — | – | | |
| 2 | PNsts | Y | 0.00 | 180.30 | SDST | — | No description available | — | — | — | – | | |
| 3 | PNstc | Y | 180.30 | 191.80 | SDST | — | No description available | — | — | — | – | | |
| 4 | PNstt | Y | 191.80 | 420.60 | SHLE | — | No description available | — | — | — | – | | |
| 5 | PNhh | Y | 420.60 | 426.95 | SDST | — | Fine grained arenite | — | — | — | – | | |
| 6 | PNft | N | 426.95 | 429.65 | SLST | DLOM | No description available | — | — | — | – | | |
| 7 | PM-p | N | 429.65 | 674.60 | SDST | CGLM | Bsl hematitic CGLM | — | — | — | – | | |
| 8 | PM-p | Y | 429.65 | 659.70 | SDST | — | No description available | — | — | — | – | | |
| 9 | PM-plb | Y | 659.70 | 674.60 | CGLM | — | Hematitic conglomerate | — | — | — | – | | |
| 10 | PMa | N | 674.60 | 851.00 | FEXT | FINT | Pnk porp FEXT & FINT? | HS | — | — | – | | |
| 11 | PMa14 | Y | 674.60 | 846.50 | FEXT | — | Pnk? porp FEXT of intmedt composition | H | PORP | — | – | | |
| 12 | PMa14 | Y | 846.50 | 851.00 | FINT | — | Pnk? mg equ-gran felsic FINT?: QTZ eyes | S | MASS | — | – | Plag lath-S-alt | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 5/11/92 | |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| STRATIGRAPHY : | | | | | LITHOLOGY | | | HOLE NUMBER CRD- 1 | | | MAP No: 6236 UNIT No: 72 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
| 1 | Q | N | 0.00 | 6.00 | SAND | — | yel to rbrn fg sand with gyps+CACT | — | — | — | – | |
| 2 | PNsts | N | 6.00 | 118.00 | SDST | SHLE | pkbn+wht fg-mg wsrt sdst+mnr lamb shle | r | — | — | – | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV 30/6/30 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| STRATIGRAPHY : | | | | | LITHOLOGY | | | HOLE NUMBER CSD- 1 | | | MAP No: 6236 UNIT No: 66 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
| 1 | Q | N | 0.00 | 2.00 | SAND | SOIL | Red-Brown | — | — | — | – | |
| 2 | PNst | N | 2.00 | 340.00 | SHLE | SDST | Rchbrn SHLE & pale to Rbrn SDST units | — | — | — | – | |
| 3 | PNsts | Y | 2.00 | 77.00 | SDST | SHLE | White f-mg, well std. fbl, min grn SHLE | WEAT | — | MBED | – | |
| 4 | PNstc | Y | 77.00 | 132.00 | SDST | SHLE | Rbrn-pwht fg, some SHLE | — | — | IBED | – | |
| 5 | PNstt | Y | 132.00 | 140.00 | SHLE | SLST | Rd-chbrn, min grn bands. | — | — | TBED | – | |
| 6 | PNstc | Y | 140.00 | 142.00 | SDST | SHLE | Rdbrn m-fg SDST/SHLE | — | — | IBED | – | |
| 7 | PNstt | Y | 142.00 | 339.80 | SHLE | SLST | Rd-chbrn, min grn bands, min XBED SLST | — | — | TBED | – | |
| 8 | PNhh | N | 339.80 | 352.80 | SDST | CGLM | Rdbrn-grn, lithic, hvm, pebbly, min SHLE | SIL | — | IBED | 78 | |
| 9 | PNf | N | 352.80 | 403.00 | DLOM | SHLE | dkgyblk & wht, increasing DLOM to base | — | — | TBED | 90 | |
| 10 | PNftw | Y | 352.80 | 399.30 | DLOM | SHLE | dkgyblk & wht, increasing DLOM to base | — | — | TBED | 90 | |
| 11 | PNftl | Y | 399.30 | 403.00 | SDST | CGLM | Rdbrn SDST & CGLM | — | — | — | – | |
| 12 | PM-p | N | 403.00 | 864.95 | SDST | SHLE | Hrdbrn with bleached bands, hmb, ufsq | B | — | — | 90 | Barren |
| 13 | PM-p4 | Y | 403.00 | 718.70 | SDST | CGLM | Hrdbrn m-vcg, CGLM, hmb min cbrn SHLE | — | — | XBED | 87 | |
| 14 | PM-p3 | Y | 718.70 | 840.00 | SDST | SHLE | Hrdbrn micaceous shaley ufsq pebbly hmb | — | — | BED | 90 | |
| 15 | PM-p2 | Y | 840.00 | 860.00 | SHLE | SDST | Rdbrn sandy shales, min grty/pbly SDST | — | — | TBED | 90 | |
| 16 | PM-p1 | Y | 860.00 | 864.95 | SDST | SHLE | Rdbrn min grty/pbly SDST & SHLE | — | — | IBED | – | |
| 17 | PPw1 | N | 864.95 | 994.20 | SKRN | — | Mag (hem)-Garnet-Amph(chlr)-Qtz | HC | — | RLBD | 50 | Vns-Q-MAGT-Py-Cpy |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author: JLC 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER HHD-1 | MAP No: 6236 | UNIT No: 67

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation | / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 4.00 | SAND | — | Org sand ?aeolian | — | — | — | – | | |
| 2 | T | N | 4.00 | 10.00 | SICT | — | Owht laminated siliceous "cherty siltstone" | weth | — | LAMB | – | | |
| 3 | Eoy | N | 10.00 | 22.00 | CLAY | SAND | Pnk-brn clay +/- sand | weth | — | — | – | Mnr Zn,Co enrch-bsl lst | |
| 4 | PNst | N | 22.00 | 354.00 | SDST | SLST | Cbrn-mnr blu/grn SHLE/SLST +mnr-crm-DLOM | — | — | — | – | | |
| 5 | PNsts | Y | 22.00 | 138.00 | SDST | SHLE | Pnk-wht mg wsrt (org weth <40m) red SHLE | H | — | BED | – | | |
| 6 | PNstc | Y | 138.00 | 165.00 | SDST | SHLE | Cbrn/dppl SDST & LAM SHLE | — | — | IBED | – | | |
| 7 | PNstt | Y | 165.00 | 354.70 | SHLE | SLST | Cbrn/rbn min blu/grn hrd | — | — | LAMB | 87 | | |
| 8 | PNsn | N | 354.70 | 360.10 | DLOM | SHLE | Crm DOLM BED/NOD & red LAM SHLE lc grn | — | — | — | 90 | | |
| 9 | PNhh | N | 360.10 | 361.10 | SDST | CGLM | Wht wsrt srnd QTZ SDST mcem +gra/pbl | — | — | — | – | Lwr cnct=disf | |
| 10 | PNft2 | N | 361.10 | 369.70 | CGLM | SDST | Ppl sandy CGLM +HEM mtx, mtx in fracs | weth | — | — | – | Mc Leay Regolith | |
| 11 | PM-p | N | 369.70 | 1132.80 | SDST | SHLE | Rdbn-wht SDST +ibed SHLE & loc CGLM | BH | — | — | – | Barren | |
| 12 | PM-p4 | Y | 369.70 | 510.00 | SDST | CGLM | Red/ppl +wht zns vcg-mg gra/pbl min SHLE | BH | — | XBED | 90 | | |
| 13 | PM-p3 | Y | 510.00 | 947.50 | SDST | SHLE | Lppl m/wsrt hmb inclst-SHLE ufsq | — | — | XBED | 90 | | |
| 14 | PM-p2 | Y | 947.50 | 1012.20 | SHLE | SDST | Rbn SHLE lsr SLTS+mg SDST ufsq | — | — | LAMB | – | | |
| 15 | PM-p1a | Y | 1012.20 | 1118.20 | SDST | SHLE | Lppl/red m/wsrt+bsrt pbl/gnl beds hem-mtx | — | — | PBED | – | | |
| 16 | PM-p1b | Y | 1118.20 | 1132.80 | CGLM | SDST | Pnk/red srnd/sang clst QTZ OQZT HEM-GRNT? | — | — | BED | – | | |
| 17 | PPh? | N | 1132.80 | 1118.20 | GNSS | — | Rdpnk KFLD-phbls mtx-QTZ/SER: sup-H-wprf | Sh | — | FOLI | 50 | Barren | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/08/92 | |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER HHD-2 | MAP No: 6236 | UNIT No: 71

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation | / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 4.00 | SAND | — | org mg to cg dune sand+mnr CACT | — | — | — | – | | |
| 2 | Q? | N | 4.00 | 8.00 | CLST | CACT | wht to buf,yel clst+CACT+mnr gyps | — | — | — | – | Tertiary? | |
| 3 | PNst | N | 8.00 | 328.00 | OQZT | SHLE | wht fg to cg oqzt ovr brn+grn shle+slst | — | — | — | – | | |
| 4 | PNsts | Y | 8.00 | 156.00 | OQZT | — | wht fg to cg wrnd oqzt+mnr shle | — | — | — | – | | |
| 5 | PNstt | Y | 156.00 | 328.00 | SHLE | SLST | brn+grn shle+slst+mnr vfg sdst | — | — | — | – | v rare bedded cpy | |
| 6 | PM-p3a | N | 328.00 | 364.00 | SDST | SHLE | dk rbrn wsrt sang mg qtz hem sdst+shle | — | — | — | – | | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV 30/7/92 | |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | | | | | | | | HOLE NUMBER TWN-1 | | | | MAP No: 6236 UNIT No: 68 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STRATIGRAPHY: | | | | | LITHOLOGY | | | | | | | | |
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation | / Comment |
| 1 | Q | N | 0.00 | 8.00 | SAND | CLAY | Red SAND +mnr CLAY | — | — | — | – | | |
| 2 | Eha | N | 8.00 | 34.00 | DLOM | SHLE | "No description supplied" | — | — | — | – | | |
| 3 | PNst | N | 34.00 | 414.30 | SDST | SHLE | "described from 301.4m only | — | — | BED | – | | |
| 4 | PNstc | y | 34.00 | 198.00 | SDST | SHLE | "No description supplied" | — | — | — | – | | |
| 5 | PNstt | Y | 198.00 | 414.30 | SHLE | SLST | Chbn +mnr gyggn SHLE/SLST, DLOM at base | — | — | LAMB | 90 | | |
| 6 | PMwr | N | 414.30 | 700.80 | GRNT | BREC | Pnk cg intgth PLAG/QTZ, +AFLD, mnr MCGR | HRw | — | TALU | – | | |
| 7 | PMwr1 | Y | 414.30 | 432.80 | GRNT | BREC | Pnk cg +brec bnds, rnd clst-gygn/bn SHLE | HR | PORP | — | – | Megclst?-418.4, 430.1m | |
| 8 | PMwr2 | Y | 432.80 | 545.10 | GRNT | MCGR | Pnk cg intgth PLAG/QTZ, +AFLD, mnr QTZ Vns | R | — | — | – | Poss PNh1 megg CGLM? Fracs-Q-CRB-CHR-FLD | |
| 9 | PMwr3 | Y | 545.10 | 547.10 | MCGR | — | Pnk? fg AFLD-PLAG?-BIOT-QTZ | — | — | DYKE | 60 | | |
| 10 | PMwr2 | Y | 547.10 | 571.50 | GRNT | MCGR | Pnk cg intgth PLAG/QTZ, +AFLD, S-C Vns | R | — | — | – | Fracs/vns-CRB-CHR-SE | |
| 11 | PMwr3 | Y | 571.50 | 572.70 | MCGR | — | Pnk? fg AFLD-PLAG?-BIOT-QTZ | — | — | DYKE | 60 | | |
| 12 | PMwr2 | Y | 572.70 | 676.30 | GRNT | MCGR | Pnk cg intgth PLAG/QTZ, +AFLD, H-R-C Vns | R | — | — | – | Fracs-SER-CRB-CHR-SI FLU-HEM | |
| 13 | PMwr3 | Y | 676.30 | 679.20 | MCGR | — | Pnk? fg AFLD-PLAG?-BIOT-QTZ, +BAR | — | — | DYKE | – | | |
| 14 | PMwr2 | Y | 679.20 | 700.80 | GRNT | MCGR | Pnk cg intgth PLAG/QTZ, +AFLD, H-R-B Vns | R | — | — | – | Fracs-CRB-CHR-BART | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/08/92 | |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER WRD- 1 | MAP No: 6236 | UNIT No: 81

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | /Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PNst | N | 0.00 | 348.43 | — | — | No description available | — | — | — | – | |
| 2 | PNsts | Y | 0.00 | 162.00 | SDST | — | No description available | — | — | — | – | |
| 3 | PNstc | Y | 162.00 | 168.00 | SDST | — | No description available | — | — | — | – | |
| 4 | PNstt | Y | 168.00 | 348.43 | SHLE | — | No description available | — | — | — | – | |
| 5 | PNsn | N | 348.43 | 350.00 | DLOM | SHLE | No description available | — | — | — | – | |
| 6 | PM-p? | N | 350.00 | 355.43 | CGLM | BREC | Low mtx plmc BREC/CGLM | — | — | — | – | |
| 7 | PMa | N | 355.43 | 568.24 | FEXT | — | Pnk-org porp FEXT +mnr BREC | HS | — | — | – | |
| 8 | PMwl | N | 568.24 | 982.80 | BREC | GRNT | GRNT-KFLD-QTZ/GRNT-BREC + FEXT/FINT | — | FOLI | — | – | Vns-H-Cc-Bn-Cp-Py EPCL vent brec? |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 5/11/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER BD- 1 | MAP No: 6237 | UNIT No: 15

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q? | N | 0.00 | 21.00 | --- | --- | No data available. | --- | --- | --- | - | |
| 2 | E | N | 21.00 | 217.40 | SHLE | LMST | Chbn-grn SHLE & wht LMST/DLOM | --- | --- | MASS | 90 | |
| 3 | Eoy | Y | 21.00 | 78.60 | SHLE | --- | Chbn/mar-gngy CACT-SHLE:grn bnds-pyritic | --- | --- | BED | 90 | Wht high CALC zns |
| 4 | Eha | Y | 78.60 | 217.40 | LMST | DLOM | Wht mass LMST/DLOM +ibed chbn SHLE:Tr Py | --- | VUGY | MASS | 90 | Loc abun arcy corals |
| 5 | PNst | N | 217.40 | 607.60 | SDST | SHLE | Wht/Brn SDST & brn SHLE:mnr thin ibed | --- | MASS | IBED | 90 | |
| 6 | PNsts | Y | 217.40 | 389.00 | SDST | SHLE | Wht f?-mg SDST +ibed thn grn-bn SHLE bnds | --- | MASS | IBED | 90 | Loc spherulitic Py |
| 7 | PNstc | Y | 389.00 | 407.60 | SDST | SHLE | Brn fg SDST +ibed thn brn-gn SHLE bnds | --- | MASS | IBED | 90 | |
| 8 | PNstt | Y | 407.60 | 607.60 | SHLE | --- | Brn-gry(grn) fiss bnd SHLE +mnr XBED | --- | XBED | TBED | 90 | |
| 9 | PMa | N | 607.60 | 941.00 | ARKS | FEXT | Pnk m-cg mass ARKS & fg PORP FEXT | SRHC | --- | IBED | 80 | Vn Py-Cpy-Q-Mt-C-BA |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, litheodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER BD- 2 | MAP No: 6237 | UNIT No: 16

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 18.00 | SAND | — | No description | — | — | — | – | |
| 2 | E | N | 18.00 | 434.40 | LMST | SHLE | Buf-gry DLOM & grn-brn SHLE | — | — | — | – | |
| 3 | Eoy | Y | 18.00 | 110.00 | SHLE | — | No description | — | — | — | – | |
| 4 | Eha | Y | 110.00 | 257.95 | DLOM | SHLE | Buf-gry vugy strom cg xtl DLOM +mnr SHLE | — | LBED | TBED | 90 | |
| 5 | PNwy | Y | 257.95 | 434.40 | SHLE | — | Grn-brn SHLE:thn pelgrnst ibed-XBED/ufsq | — | — | TBED | 90 | Dolomitic frm 375m |
| 6 | PNst | N | 434.40 | 649.10 | SDST | SLST | Rdbn-wht SDST & chbn-gn SLST | — | — | — | – | Sharp top cnt |
| 7 | PNstc | Y | 434.40 | 455.35 | SDST | SHLE | Rdbn-wht f-mg QTZ SDST & ppl SHLE >442m | — | — | XBED | 90 | |
| 8 | PNstt | Y | 455.35 | 649.10 | SLST | SDST | Chbn-grn(mnr) SLST: SDST <492m | — | XBED | LBED | 90 | |
| 9 | PNsn | N | 649.10 | 652.50 | DLOM | CGLM | Crm mass rxtl DLOM: CGLM ibed <30cm | — | MASS | IBED | – | |
| 10 | PNh2 | N | 652.50 | 657.40 | BREC | — | Pnk? plmc BREC: clst QTZ-FELD-chlSHST | — | — | — | – | DOLmtx+BART:Frac-P |
| 11 | PPh | N | 657.40 | 929.40 | MEXT | SCHT | Grn MEXT=AMPH+BSLT & SCHT:Vns-CRB-Py-C | KH | MASS | FOLI | – | Metvolc BSLT/xtl-TUFF |
| 12 | PPh3 | Y | 657.40 | 672.00 | SCHT | — | Grn fg FOLI SCHT:CHL-PHLG-AMPH,netvn | — | — | FOLI | 45 | Vns DOL(diss Py),HEM |
| 13 | PPh4 | Y | 672.00 | 755.25 | AMPH | — | Grn f-mg AMPH:CHL-AMPH(<1cm,80%)-MUSC? | KH | — | MASS | – | Vns CALC-HEM-Py, KF |
| 14 | PPh3 | Y | 755.25 | 768.27 | SCHT | — | Grn f-cg PHLG SCHT/PHYL:CHL-BIOT-AMPH | KH | — | FOLI | – | Vns CALC-HEM-Py-Cpy |
| 15 | PPh6 | Y | 768.27 | 771.00 | SHLE | CHRT | Blk silic SHLE:PHLG18%-PLAG29%-QTZ37% | H | — | FOLI | 60 | Vns CALC-Py |
| 16 | PPh3 | Y | 771.00 | 776.80 | SCHT | — | Gygn fg SCHT: MUSC/CHL, diss LUCX | H | — | — | – | Vns CALC-HEM-Py-BA |
| 17 | PPh5 | Y | 776.80 | 791.85 | BSLT | — | Grn fg BSLT?: PLAG(10%)-AMPH(68%) | — | — | MASS | – | Vns CRB-KFLD? |
| 18 | PPh6 | Y | 791.85 | 794.60 | SHLE | CHRT | Blk siliceous SHLE: CHL rch zns | H | — | — | – | Vns CALC-DOL-Py |
| 19 | PPh5 | Y | 794.60 | 801.70 | BSLT | — | Grn fg BSLT?: PLAG-AMPH, alt-patchy | H | — | — | – | Vns CALC-DOL-HEM |
| 20 | PPh3 | Y | 801.70 | 822.50 | SCHT | — | Grn f-mg SCHT: Pnk vfg CHRT zns <0.5m | H | DLBR | — | – | Vn CALC-DOL-BART,P |
| 21 | PPh6 | Y | 822.50 | 823.00 | SHLE | CHRT | Blk carbonaceus CHRT zone | — | — | — | – | |
| 22 | PPh3 | Y | 823.00 | 827.70 | SCHT | — | Grn f-mg SCHT: Pnk vfg CHRT zns <0.5m | H | DLBR | — | – | Vn CALC-DOL-BART,P |
| 23 | PPh6 | Y | 827.70 | 929.40 | SHLE | CHRT | Blk/Pnk CHRT zone: dilat vein brec | H | DLBR | — | – | Diss Py,Cpy |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'BFormat) | (4) | (4) | (4) | (2) | Author(s): JLC 14/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER RD- 16 | MAP No: 6237 | UNIT No: 17

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | /Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Eha | N | 0.00 | 40.00 | LMST | — | No description available | — | — | — | – | |
| 2 | PNst | N | 40.00 | 295.00 | SDST | SHLE | No description available | — | — | — | – | |
| 3 | PNsts | Y | 40.00 | 175.20 | SDST | — | No description available | — | — | — | – | |
| 4 | PNstc | Y | 175.20 | 198.30 | SDST | — | No description available | — | — | — | – | |
| 5 | PNstt | Y | 198.30 | 293.80 | SHLE | — | No description available | — | — | — | – | |
| 6 | PM-p? | N | 293.80 | 300.00 | CGLM | — | Pebble conglomerate | — | — | — | – | |
| 7 | PMa | N | 300.00 | 481.50 | FEXT | BREC | Porp & aphn FEXT +plmc BREC & fg Hem rk | SH | BREC | LAYR | – | Mnr Cc-Bn min |
| 8 | PMwro | N | 481.50 | 1318.90 | BREC | — | Pnk-hrd plmc breccia complex | H | BREC | — | – | H-Py-Cpy-Bn-Cc?? vns |
| 9 | PMwro1 | Y | 481.50 | 726.70 | BREC | — | Hematite rich BREC +lsr bedd zns | H | BREC | — | – | Mnr Cc-Bn min |
| 10 | PMwro2 | Y | 726.70 | 819.10 | BREC | — | Granite BREC +thin hematite brec bnds | H | BREC | — | – | H-Cpy vns |
| 11 | PMwro3 | Y | 819.10 | 868.30 | BREC | — | Hematite-sulphide BREC | H | BREC | — | – | H-Cpy-Py vns |
| 12 | PMwro2 | Y | 868.30 | 1055.40 | BREC | — | Granite BREC +thin hematite brec bnds | H | BREC | — | – | |
| 13 | PMwro3 | Y | 1055.40 | 1066.50 | BREC | — | Hematite-sulphide BREC | H | BREC | — | – | H-Cpy-Py vns |
| 14 | PMwro2 | Y | 1066.50 | 1130.00 | BREC | — | Granite BREC +thin hematite brec bnds | H | BREC | — | – | H-Cpy-Py vns |
| 15 | PMwro3 | Y | 1130.00 | 1153.60 | BREC | — | Hematite-sulphide BREC | H | BREC | — | – | H-Py-Cpy vns |
| 16 | PMwro2 | Y | 1153.60 | 1318.90 | BREC | — | Granite BREC +thin hematite brec bnds | H | BREC | — | – | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 5/11/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ******* Mineral, lithocodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: FHD-1 | MAP No: 6238 | UNIT No: 6

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Kmb | N | 0.00 | 12.00 | SAND | CLAY | usrt yel partly lithified sand+clay+gyps | weth | — | — | – | |
| 2 | PNstt | N | 12.00 | 536.89 | SHLE | SLST | lamb-mbed grgn slst+shle+mnr ebbn slst | — | LAMB | — | 80 | |
| 3 | PNsn | N | 536.89 | 541.49 | DLOM | — | crpk wlbd dlom+bal brec ovr mnr grn slst | — | — | — | 85 | |
| 4 | PNh1? | N | 541.49 | 544.75 | SDST | — | rbrn to wht msrt cg to vcg+sct cl-dlom | — | — | — | – | logged as unnamed sdst |
| 5 | PNf | N | 544.75 | 743.80 | DLOM | SLST | shet pnk-crm dlom ovr gry,brn slst+sdst | — | LAMB | — | 80 | |
| 6 | PNfh | Y | 544.75 | 604.90 | DLOM | — | shet pnk,rbrn to crm ool,strm,algl dlom | — | STY | — | 80 | fenestral |
| 7 | PNft | Y | 604.90 | 743.80 | SLST | SDST | gret lamb gry,brn slst+fg sdst+mnr dlom | — | LAMB | — | 80 | tr py |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV 30/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: SR-17_2 | MAP No: 6238 | UNIT No: 7

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Kmb | N | 0.00 | 40.00 | CLAY | — | Grbn-blk CLAY: mnr oxd-ltgy,4m, GYPS<16m | — | — | — | – | |
| 2 | PNstc | N | 40.00 | 44.00 | SHLE | SDST | Gry SHLE & mnr SDST | — | — | — | – | |
| 3 | PNstt | N | 44.00 | 433.70 | SHLE | — | Brn-blk/grn SHLE grn bnds mnr; "blk">200 | — | — | — | – | Tr Py ass grn bands |
| 4 | PNhh | N | 433.70 | 494.06 | SDST | — | Plrdbn psrt lith grty SDST:GYPS/ANHY spts | — | — | — | – | Tr mnr Py?/Spec, Vns G |
| 5 | PNft | N | 494.06 | 915.50 | SLST | SHLE | Gry-grn lam SLST/SHLE: intrf CGLM | — | — | LBED | 90 | DLOM-spar cmt,Tr Py |
| 6 | PNua | N | 915.50 | 1500.00 | SDST | SLST | Gry-wht-brn f-m-cg SDST/ARKS/DIMC/SLST | — | XBED | GBED | – | |
| 7 | PNua | Y | 915.50 | 1114.60 | ARKS | SDST | Gry-wht-yel m-cg grty SDST/ARKS mnr cls | — | XBED | GBED | 90 | Cls QITE-GNSS-SHLE |
| 8 | PNua | Y | 1114.60 | 1115.41 | CGLM | SDST | Gry? ang CGLM: mtx mg SDST, cls <4cm | — | — | — | – | Palaeregolith? |
| 9 | PNua | Y | 1115.41 | 1238.03 | SDST | — | Plrdbn-gry f-mg SDST: porcell? chrty cmt | HQ | MBED | — | 78 | Silic mtx silt |
| 10 | PNua | Y | 1238.03 | 1246.43 | SLST | SDST | Blgy-ppl SLST +mnr ibed fg SDST | — | — | IBED | – | |
| 11 | PNua | Y | 1246.43 | 1361.65 | DIMC | SDST | Gry DIMC: ang cls ,10cm in cg SDST mtx | — | MBED | — | 82 | Dropstone features |
| 12 | PNua | Y | 1361.65 | 1500.00 | SDST | SLST | Lt-dkgry SDST & SLST ibed, loc DIMC | — | MBED | IBED | – | Diss Py/Cpy in cls |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): 29/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | EX-165 | MAP No: | 6332 |
|---|---|---|---|
| | | UNIT No: | 614 |

| | STRATIGRAPHY: | | | | LITHOLOGY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
| 1 | TQ | N | 0.00 | 8.00 | CLAY | SAND | Org-brn-rdbn CLAY, SAND/GRVL:mnr CACT | — | — | — | – | |
| 2 | PNft | N | 8.00 | 71.50 | CLAY | SLST | Gry-blk CACT SLST/SHLE +mnr DLOM | weth | — | — | – | Weth wht/kki CLAY <31 |
| 3 | PNft1 | N | 71.50 | 82.50 | SDST | SLST | Dkrdbn f-cg SDST +grnl/pbl FEXT,OQZT | — | — | IBED | – | Mnr SLST |
| 4 | PMar | N | 82.50 | 145.00 | BSLT | — | Dkgygn-blk fg amyg/mass BSLT | CRH | — | — | – | Vns C-R-H-Py |
| 5 | PMa | N | 145.00 | 160.00 | DACT | — | Org-rdbn-ppl porp DACT?: phxt FELD(ser) | HS | — | — | – | Phen mnr QTZ,MICA:vn |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 5/8/92 |

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PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX-31 | MAP No: 6333 | UNIT No: 53

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 3.00 | CLAY | --- | Plorg CLAY | --- | --- | --- | -- | |
| 2 | T | N | 3.00 | 6.00 | SICT | --- | Brn-pnk SICT: (PNfh parnt) | --- | --- | --- | -- | |
| 3 | PNh | N | 6.00 | 12.00 | SDST | --- | Wht-ltyel frbl SDST | weth | --- | --- | -- | |
| 4 | PM-p | N | 12.00 | 53.60 | SDST | --- | Ppl-wht wrnd SDST | --- | --- | --- | -- | |
| 5 | PMa | N | 53.60 | 54.90 | RHLT | --- | Rdbn? RHLT:phxt ORTH | HSQ | SPUR | --- | -- | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 3/8/92 |

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PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX-32 | MAP No: 6333 | UNIT No: 54

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 3.00 | SAND | GRVL | Yel-brn? SAND/GRVL/CLAY -REGL | --- | --- | --- | -- | REGL |
| 2 | TQ | N | 3.00 | 6.00 | CLAY | GYPS | Yel-brn? & wht? CLAY & GYPS | --- | --- | --- | -- | SOIL |
| 3 | PNh? | N | 6.00 | 18.00 | SDST | SHLE | Grn-gry/yel clayey SDST +mjr ibed SHLE | weth | --- | --- | -- | SHLE 9-15m |
| 4 | PMa | N | 18.00 | 42.70 | BSLT | --- | Dkppl-brn fg BSLT:QTZ? 3%, SANI & PLAG | SHw | --- | --- | -- | Amyg?-vsml |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 3/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX-33 | MAP No: 6333 | UNIT No: 55

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 3.00 | GRVL | SAND | Yel-brn? GRVL/SOIL | --- | --- | --- | -- | |
| 2 | PNft | N | 3.00 | 21.00 | SLST | SHLE | Kki-grn-pnk-brn-fwn SLST/SHLE | weth | --- | --- | -- | T -oxd of red seds |
| 3 | PNftw | N | 21.00 | 30.00 | LMST | SHLE | Kki-gry hrd SICT CACT SHLE: Vweth LMST? | weth | --- | --- | -- | T -oxd/sil of red seds |
| 4 | PM-p | N | 30.00 | 79.00 | SDST | --- | Ppl-wht ang SDST: hrd indc SICT palweth | q. | --- | --- | -- | |
| 5 | PMa | N | 79.00 | 89.90 | RHLT | RDAC | Ppl fg RHLT/RDAC:phxt +volc GRIT | Q | --- | --- | -- | Sed-FEXT reltns unclr |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 3/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX-34 | MAP No: 6333 | UNIT No: 56

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TQ | N | 0.00 | 3.00 | SOIL | SICT | No data | --- | --- | --- | -- | |
| 2 | PNft? | N | 3.00 | 21.00 | CLAY | SLST | Grn CLAY & fwn-yel SLST | --- | --- | --- | -- | Magazine Hill Clay |
| 3 | PMar | N | 21.00 | 38.10 | TAND | CLAY | Ppl fg TAND with upr weth cap | HRal | --- | --- | -- | |
| 4 | PMar? | Y | 21.00 | 34.00 | CLAY | --- | Kki-grn-brn-rdbn vfg mass CLAY/rock | weth | --- | --- | -- | No fabric/struc recd. |
| 5 | PMar | Y | 34.00 | 38.10 | TAND | --- | Ppl fg TAND +phxt dkgrn SANI & BIOT? | HRQl | --- | --- | -- | Loc AMYG, see RoopD |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 4/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX- 38 | MAP No: 6333 | UNIT No: 147

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 3.00 | SOIL | --- | No data | --- | --- | --- | -- | |
| 2 | T | N | 3.00 | 24.00 | CLAY | SAND | Red(GYPS)-pkrd(CACT)-red(latt)-bnyl CLAY | --- | --- | --- | -- | Access SAND |
| 3 | PMar | N | 24.00 | 56.40 | ANDS | CLAY | Blu fg amyg/porp ANDS +mjr CLAY weth cap | ACQw | --- | --- | -- | |
| 4 | PMar | Y | 24.00 | 49.00 | CLAY | MEXT | Kki-grn-gygn-dkgry CLAY & porp MEXT | weth | --- | --- | -- | |
| 5 | PMar | Y | 49.00 | 56.40 | ANDS | RHLT | Blu porp/amyg ANDS +RHLT phases-vns/xenos | ACQ | PORP | AMYG | -- | Part melt of PMa? |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 4/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX- 97 | MAP No: 6333 | UNIT No: 148

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 3.00 | GRVL | CLAY | SOIL SICT GRVL & CLAY +GYPS | --- | --- | --- | -- | |
| 2 | T | N | 3.00 | 12.00 | CLAY | --- | Yel-grn CLAY: mass-pug-fleckd weth MEXT? | --- | --- | --- | -- | |
| 3 | PMar | N | 12.00 | 17.00 | BSLT | --- | Dkgygn f-mg BSLT: phxt PLAG, alt MAGT | QASl | --- | --- | -- | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 4/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX- 100 | MAP No: 6333 | UNIT No: 149

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 3.00 | SAND | GRVL | SAND, GRVL & SOIL | --- | --- | --- | -- | |
| 2 | PMar | N | 3.00 | 9.00 | ANDS | --- | Ppl-org ANDS PLAG phxt +gmas K-alt | Kl | --- | --- | -- | See RoopD-1 |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 4/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX- 105 | MAP No: 6333 | UNIT No: 150

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 5.00 | GRVL | SOIL | SOIL +wrnd QTZ-pbls | --- | --- | --- | -- | |
| 2 | PMar | N | 5.00 | 18.00 | RHLT | CLAY | Fwn porp RHLT + CLAY weth cap | --- | --- | --- | -- | |
| 3 | PMar | Y | 5.00 | 9.00 | CLAY | --- | CLAY-no data: assumed weth RHLT | weth | --- | --- | -- | |
| 4 | PMar | Y | 9.00 | 18.00 | RHLT | --- | Fwn porp RHLT phxt KFLD,HBLD(chl),TIMT | ASl | --- | --- | -- | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): 4/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX-108 | MAP No: 6333 | UNIT No: 151

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 6.00 | SAND | CLAY | SAND & sandy CLAY, no descrip | --- | --- | --- | -- | |
| 2 | T | N | 6.00 | 7.50 | SICT | --- | SICT No descrip | --- | --- | --- | -- | |
| 3 | PMar | N | 7.50 | 33.00 | RDAC | CLAY | Wht-pnk part weth RDAC +CLAY weth cap | --- | --- | --- | -- | |
| 4 | PMar | Y | 7.50 | 9.00 | CLAY | --- | CLAY no descrip -inferd weth FEXT | --- | --- | --- | -- | |
| 5 | PMar | Y | 9.00 | 33.00 | RDAC | --- | Wht-org-pnk porp RDAC: phxt ORTH, PLAG | Slw | --- | --- | -- | Vugs -mnr-QTZ |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 4/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX-114 | MAP No: 6333 | UNIT No: 152

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 1.00 | SOIL | --- | No data | --- | --- | --- | -- | |
| 2 | T | N | 1.00 | 5.00 | SICT | --- | SICT no descrip | --- | --- | --- | -- | |
| 3 | PNft? | N | 5.00 | 14.00 | CLAY | --- | Plgrn soft/brtl CLAY: sandy upr portn | --- | --- | --- | -- | Mag Hill Clay |
| 4 | PMar | N | 14.00 | 18.00 | ANDS | RHLT | Rdbn fg porp RDAC/ANDS:phxt QTZ-FLD-TIMT | SAl | --- | --- | -- | Diss lim pseud of PY |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX-162 | MAP No: 6333 | UNIT No: 156

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 8.00 | SAND | CLAY | Org? dune SAND & rdbn CLAY +varbl CACT | --- | --- | --- | -- | |
| 2 | PNhh | N | 8.00 | 30.00 | SDST | --- | Wht-yel-pnk frbl wsrt m-fg lith SDST | s | --- | --- | -- | SICT cap <4m thck |
| 3 | PNhl | N | 30.00 | 65.00 | SLST | --- | Ltgy SLST + lsr rdbn f-cg lith grns | --- | --- | --- | -- | Tr diss Py (loc) |
| 4 | PNft | N | 65.00 | 126.50 | SHLE | --- | Blk lam SHLE: prt dolmit, tr diss Py | --- | --- | --- | -- | Vns-CRB |
| 5 | PNftw | N | 126.50 | 128.50 | DLOM | SHLE | Dkgy DLOM +mnr gry SHALE: tr MNOX | --- | --- | --- | -- | |
| 6 | PNftl | N | 128.50 | 129.00 | SDST | --- | Grn lith qtz SDST: pyritic | --- | --- | --- | -- | |
| 7 | PMy | N | 129.00 | 180.50 | BSLT | --- | Ppl-rdbn f-m-cg amyg BSLT: AMYG-C-R-H-Py | HR | --- | --- | -- | |
| 8 | PM-p | N | 180.50 | 196.00 | SDST | --- | Pkrd-plppl grty SDST: alt-silic | s | --- | --- | -- | Silc-to TD |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 6/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX-169 | MAP No: 6333 | UNIT No: 153

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 1.00 | TLUS | --- | TLUS pbl/cls-BIF-JASP-OQZT-(PM-p)-GNS | --- | --- | --- | -- | Interpol depth |
| 2 | T | N | 1.00 | 6.00 | SAND | CACT | Org f-mg SAND/CLAY & orbn-wht sandy CACT | --- | --- | --- | -- | Sml pbls, calc mtx |
| 3 | PNft | N | 6.00 | 26.00 | SLST | CLAY | Rd/ylbn-ltgy SHALE/CLAY: weth throughout | weth | --- | --- | -- | |
| 4 | PNftw | N | 26.00 | 26.50 | DLOM | SLST | Ltgy DLOM & SLST | --- | --- | --- | -- | Interpol depths |
| 5 | PNftl | N | 26.50 | 28.00 | CGLM | SDST | Bkrd pbls in org SDST mtx-mnr -CGLM/SDST | --- | --- | --- | -- | Interpol depths |
| 6 | PMa | N | 28.00 | 40.00 | DACT | --- | Org-red-pkbn-(mnr)grn vfg amyg DACT | HR | --- | --- | -- | Amyg-AGTE,CHL: vns- |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 4/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ******* Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX-171 | MAP No: 6333 | UNIT No: 154

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SAND | CLAY | Org SAND & CLAY +mnr CACT | --- | --- | --- | -- | |
| 2 | T | N | 2.00 | 31.50 | SAND | CLAY | Org SAND, CLAY, & wht CACT ndls | --- | --- | --- | -- | |
| 3 | T | Y | 2.00 | 9.00 | SAND | CLAY | Org SAND +mnr pbls & CLAY | --- | --- | --- | -- | |
| 4 | T | Y | 9.00 | 17.00 | CLAY | SAND | Red latt SAND 1m, ovly ltgry sandy CLAY | --- | --- | --- | -- | |
| 5 | T | Y | 17.00 | 31.50 | CLAY | SDST | Ltgry-yel sandy CLAY & SDST +ylwt SICT | --- | --- | --- | -- | SICT 16-20.5m, mnr pbls |
| 6 | PNft | N | 31.50 | 58.00 | SHLE | CLAY | Dkgry SHLE +mnr DLOM:weth plgrgn-CLAY | --- | --- | --- | -- | Tr diss Py 42-56,54-58 m |
| 7 | PNftw | N | 58.00 | 62.00 | DLOM | SLST | (dk-lt)gry mass DLOM +mnr SHLE prtngs | --- | --- | --- | -- | Diss/frac Py-Cpy-Ga? |
| 8 | PMya? | N | 62.00 | 62.50 | CGLM | --- | Rdbn 'brec':FEXT pbls SICT-mtx-poor-sandy | --- | --- | --- | -- | Strat infr on indurtn |
| 9 | PMa | N | 62.50 | 72.00 | DACT | --- | Bkrd vfg FEXT:sltly porp, phxt FELD/MAFC | --- | PORP | --- | -- | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS F2 dBFmt) | (4) | (4) | (4) | (2) | Author(s): JLC 5/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ******* Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EX-182 | MAP No: 6333 | UNIT No: 155

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TQ | N | 0.00 | 4.50 | SAND | CLAY | Rdbn-orbn f-cg SAND/CLAY +wht CACT | --- | --- | --- | -- | |
| 2 | PM-p3? | N | 4.50 | 73.50 | SDST | --- | Rdbn-pkwt f-mg SDST +ibed rdbn SLST | Bw | --- | --- | -- | |
| 3 | PM-p2? | Y | 4.50 | 66.00 | SDST | SLST | Rdbn-pkwt f-cg QTZ SDST+pkwt SLST(weth) | weth | --- | --- | -- | Silc SDST, blchd SLST to |
| 4 | PM-p1? | Y | 66.00 | 72.50 | SLST | --- | Dkchbn SLST +mnr QTZ SAND grns | --- | MASS | --- | -- | |
| 5 | PM-p | Y | 72.50 | 73.50 | SDST | --- | Plbn-wtpk m-cg SDST: weak cmnt, alt? | B | --- | --- | -- | |
| 6 | PMar? | N | 73.50 | 120.00 | MEXT | CGLM | Blk fg BSLT/AMPH:mass/pbls;QTZ ARNT pbls | HC | --- | --- | -- | Frac Py, xtl GYPS, |

Bottom hole volcanics possibly a "momonmict" conglomerate of MEXT components.

Possible stratigraphic affinities are: Bsl Pandurra Formation/Roopena Volcanics or Corruna Conglomerate (improbable)

| (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 5/8/92 |
|---|---|---|---|---|---|---|---|---|---|---|---|

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER TR-3 | MAP No: 6333 | UNIT No: 52

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | QT | N | 0.00 | 26.00 | SAND | SILT | Brn? fg SAND, SILT & CLAY | --- | --- | --- | -- | |
| 2 | PNstt | N | 26.00 | 70.14 | SLST | SDST | Gngy fg mica SDST & rdbn lam SLST/SHLE | B | --- | IBED | -- | Muderks rpls, slmps, frac |
| 3 | PNh | N | 70.14 | 136.00 | SDST | CGLM | Wht mass grit-pbly SDST:cls FEXT-CHRT-GNS | S | --- | --- | 90 | Mtx SER alt? Frac Py-C |
| 4 | PNft | N | 136.00 | 247.62 | SLST | DLOM | Gry lam SLST +DLOM ibed:(mass-clstc) | | --- | XBED | 90 | Tr diss Py & Cpy |
| 5 | PNftw | N | 247.62 | 249.00 | DLOM | --- | Ltgy? mass DLOM +wvy clk bnds | --- | --- | WBED | -- | Blbs Py-Cpy |
| 6 | PNft1 | N | 249.00 | 249.49 | CGLM | BREC | Rdbn pbls FEXT & frag gry-blk DOLR | C | --- | --- | -- | Vns CRB |
| 7 | PMye | N | 249.49 | 289.70 | BSLT | --- | Dkrdbn mass BSLT +ibed rdbn CGLM/SDST | HRC | --- | IBED | -- | |
| 8 | PMye | Y | 249.49 | 256.63 | BSLT | --- | Dkrdbn mass f-vfg BSLT :accs MAGT | H | --- | --- | -- | Vns CRB-Py(mnr) |
| 9 | PMya | Y | 256.63 | 263.06 | CGLM | SDST | Rdbn plmc CGLM:cls-FEXT-GNS-IRST,SDST mtx | --- | --- | --- | -- | Cls suppt, loc kmb |
| 10 | PMye | Y | 263.06 | 274.80 | BSLT | --- | Dkrdbn fg amyg BSLT: amyg-CRB-CHL-ALBT | HRC | --- | --- | -- | Flwtp |
| 11 | PMya | Y | 274.80 | 275.19 | SDST | --- | Wht mg CACT SDST:GRIT-FEXT-BSLT | --- | --- | --- | -- | |
| 12 | PMye | Y | 275.19 | 289.70 | BSLT | --- | Rdbn f-mg amyg BSLT:amyg-CRB-CHL:mnr Mt | HC | --- | --- | -- | Vns C @0&90Dg,flwtp |
| 13 | PM-p1 | N | 289.70 | 336.82 | SDST | CGLM | Rdbn grit-pbl CGLM/SDST +mnr SLST | --- | --- | --- | -- | |
| 14 | PMa | N | 336.82 | 400.40 | FEXT | --- | Rdbn vf-fg FEXT loc BREC:alt-sptty-ribns | B | --- | --- | -- | Frac fil CHL-CRB |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 3/8/92 |

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SAR- 1 | MAP No: 6334 | UNIT No: 55

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PNh | N | 0.00 | 84.00 | SDST | SLST | Wht-pnk/gry m-fg SDST/SLST +bsl BREC? | — | — | — | – | |
| 2 | PNhh | Y | 0.00 | 48.00 | SDST | SLST | Wht-plpnk/gry m-fg SDST +mnr SLST | — | — | — | – | Mnr diss Py |
| 3 | PNh1 | Y | 48.00 | 80.00 | SLST | SDST | Plmar-gn fg seracitic SLST +mnr SDST | — | — | — | – | |
| 4 | PNh2 | Y | 80.00 | 84.00 | DLOM | BREC | Gry-wht ang DOLM clst in blk SHLE mtx | — | — | — | – | Perig brec? |
| 5 | PNf | N | 84.00 | 151.10 | SLST | DLOM | Gry-blk lam SLST/SHLE +wht bsl DLOM | — | — | LBED | – | Diss Py |
| 6 | PNft | Y | 84.00 | 145.00 | SLST | DLOM | Dkgry fg micaceous SHLE/SLST +wht DLOM | — | — | LBED | – | Diss Py |
| 7 | PNftw | Y | 145.00 | 151.10 | DLOM | SLST | Wht mass & lam DLOM +mnr <5% blk SHLE | — | — | MBED | 90 | Vns/blby CBR+Cpy |
| 8 | PMye | N | 151.10 | 169.07 | BSLT | SDST | Gygn BSLT amyg <10%MAGT +thin SDST ibed | — | — | — | – | |
| 9 | PMye | Y | 151.10 | 153.00 | BSLT | — | Mar/grn f-mg BSLT: 45%FELD,10%MAGT(LUCX) | RC | AMYG | BREC | – | Tr Cpy, fissu to 1m |
| 10 | PMye | Y | 153.00 | 153.70 | SDST | SLST | Mar cg grt SDST clst-OQZT-Q-BIF-FEXT | — | — | — | – | 5% MAGT as sed HMB |
| 11 | PMye | Y | 153.70 | 169.07 | BSLT | — | Grn BSLT +mnr OLIV(CHR): amyg fltops | RQC | — | LFLW | – | 10% Mt(Hem), vns C-R |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SAR- 5 | MAP No: 6334 | UNIT No: 56

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 18.00 | SAND | CLAY | red,brn+wht fg-cg qtz sand + clay | — | — | — | – | |
| 2 | PNstt | N | 18.00 | 50.00 | SHLE | SLST | ibed mrn+grn qtz,chl,mica shle+slst | — | IBED | — | – | |
| 3 | PNh | N | 50.00 | 100.00 | SDST | DLOM | mrn+grn fg-cg dolomitic sdst + bsl CGLM | — | — | — | – | |
| 4 | PNhh | Y | 50.00 | 84.00 | SDST | DLOM | mrn+grn fg-cg wrnd dolomitic sdst | — | — | — | – | |
| 5 | PNh1 | Y | 84.00 | 100.00 | SDST | CGLM | mrn fg bmdl sdst+bsl CGLM cl-GRV-PMp-PNft | — | — | — | – | |
| 6 | PNf | N | 100.00 | 190.00 | SLST | DLOM | lamb ibed slst+dlom + bsl OQZT+CGLM | — | LAMB | — | 90 | cmn py,rar cpy,spl,gal,bn |
| 7 | PNft | Y | 100.00 | 186.66 | SLST | DLOM | lamb ibed dk gry slst+wht dlom | — | LAMB | — | 90 | cmn py,rar cpy,spl,gal |
| 8 | PNft1? | Y | 186.66 | 190.00 | OQZT | CGLM | fg srnd OQZT+ibed CGLM cl-bif-PMp-PMye | Q | — | — | – | Pua?, mnr cpy,bn |
| 9 | PM-p | N | 190.00 | 199.80 | SDST | SLST | mrn hem,qtz,feld rar cl-bif,PMp | — | — | — | 90 | |
| 10 | PM-p3a | Y | 190.00 | 191.70 | SDST | SLST | mrn hem sdst + ibed slst | — | IBED | — | – | |
| 11 | PM-p2 | Y | 191.70 | 195.50 | SLST | SDST | mrn+pl grn slst+fg sdst with fine xbed | HS | XBED | — | 90 | |
| 12 | PM-p1a | Y | 195.50 | 199.80 | SDST | GRIT | usrt grit+rar bif,PMp frags & some xbed | HS | XBED | — | 90 | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV 30/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SAR- 6 | MAP No: 6334 | UNIT No: 57

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 28.00 | SAND | CLAY | gyps brn,ylw+wht fg-mg sand,silt,clay | --- | --- | --- | -- | |
| 2 | PNstt | N | 28.00 | 60.00 | SHLE | --- | ylw-mrn qzt-feld-hem-mica shle | --- | --- | --- | -- | |
| 3 | PNh | N | 60.00 | 106.00 | SDST | SLST | wht-mrn sdst ovr mrn slst+bsl dlom grit | --- | --- | --- | -- | |
| 4 | PNhh | Y | 60.00 | 88.00 | SDST | --- | wht-mrn bmdl mg-cg sdst | --- | --- | --- | -- | |
| 5 | PNhl | Y | 88.00 | 106.00 | SLST | GRIT | mrn slst+mnr mg sdst+bsl grit cl-dlom | --- | --- | --- | -- | |
| 6 | PNft | N | 106.00 | 216.40 | SLST | DLOM | lamb ibed gry slst+wht dlom+sandy base | --- | LAMB | --- | 90 | mnr py,spl rar cpy,gal |
| 7 | PM-p3a | N | 216.40 | 243.20 | SDST | --- | shct pl mrn fg-mg qtz sdst+mnr ibed shle | QSB | --- | --- | 80 | rar py, v rar cpy |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV 30/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SAR- 7 | MAP No: 6334 | UNIT No: 58

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 6.00 | SAND | CLAY | Rdbn SAND +30% CLAY mtx | --- | --- | --- | -- | |
| 2 | T | N | 6.00 | 20.00 | SAND | CLAY | Yel mg wrnd SAND +beds CLAY 6-8,12-14m | --- | --- | --- | -- | Dkr dbn LATR? base |
| 3 | PNstt | N | 20.00 | 76.00 | SHLE | --- | Rdbn-mar SHLE +upr 10m wht motl zone | weth | --- | --- | -- | |
| 4 | PNsn | N | 76.00 | 82.00 | DLOM | SHLE | Rdbn SHLE & wht-buf mass DLOM ibed | --- | --- | --- | -- | |
| 5 | PNh | N | 82.00 | 172.00 | SDST | SLST | Mar SDST/SLST ibed +bsl perg brec | --- | --- | --- | -- | |
| 6 | PNhl | Y | 82.00 | 167.00 | SDST | SLST | Mar SDST/SLST +upr grn SLST/SHLE | --- | --- | --- | -- | |
| 7 | PNh2 | Y | 167.00 | 172.00 | DLOM | BREC | Dkgn mass & slty DLOM clst:fg SHLE mtx | --- | --- | --- | -- | |
| 8 | PNf | N | 172.00 | 306.00 | SLST | DLOM | Dkgy SLST/SHLE +bsl mass DLOM unit | --- | --- | --- | -- | Vnlt CPY,CC |
| 9 | PNft | Y | 172.00 | 190.00 | DLOM | SLST | Dkgry SLST & wht DLOM ibed | --- | --- | IBED | -- | Py <2% MASS DLOM |
| 10 | PNft | Y | 190.00 | 304.00 | SLST | DLOM | Dkgry SLST +mnr wht DLOM ibed | --- | --- | IBED | -- | Tr Sph,Ga,Cpy,Py |
| 11 | PNftw | Y | 304.00 | 306.00 | DLOM | SLST | Ltgry mass DLOM +mnr gry SHLE | --- | --- | IBED | -- | |
| 12 | PMye | N | 306.00 | 498.80 | BSLT | BREC | Gygn f-mg 40%maf, MAGT: 16 org amyg fltp | RKHC | --- | --- | -- | Add EPID, ALBT alter |
| 13 | PM-p1a | N | 498.80 | 499.50 | SDST | CGLM | Wht GRVL plmct, SDST mtx, QTZ-FEXT clst | CB | --- | --- | -- | Vns pnk CBR, frac-SER |
| 14 | PMa | N | 499.50 | 665.00 | DACT | --- | Pnk-gy fg DACT & DACT-AGLM | SHRC | --- | --- | -- | Py @ upr cnt |
| 15 | PMa | Y | 499.50 | 640.00 | DACT | --- | Dkpnk-rd fg porp DACT: strng grn alt | SHR | --- | --- | 45 | Tr frac Py alt selv |
| 16 | PMa | Y | 640.00 | 665.00 | AGLM | DACT | Pnk cg epcl DACT brec dwnwd fin, mult br | QHC | --- | --- | -- | Tr Py, frac alt, ANHY |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 10/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: SAR-8 | MAP No: 6334 | UNIT No: 59

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 18.00 | SAND | --- | Rdbn-plpnk SAND +SHLE clst & GYPS | --- | --- | --- | -- | |
| 2 | PNstt | N | 18.00 | 88.00 | SHLE | --- | Mar SHLE +grn bnds | --- | --- | --- | -- | |
| 3 | PNh | N | 88.00 | 134.00 | SDST | SLST | Plpnk f-cg SDST +brn SLST inbed:mnr GRIT | --- | IBED | --- | -- | |
| 4 | PNhh | Y | 88.00 | 116.00 | SDST | SLST | Plpnk f-cg SDST +brn SLST inbed | --- | IBED | --- | -- | |
| 5 | PNh1 | Y | 116.00 | 134.00 | SLST | SDST | Brn SLST +ibed mg SDST: mnr DLOM | --- | IBED | --- | -- | |
| 6 | PNf | N | 134.00 | 282.00 | SLST | SDST | Dkgry SLST +top/bot mass DLOM & bsl SDST | --- | --- | --- | -- | |
| 7 | PNfh | Y | 134.00 | 140.00 | DLOM | SLST | Wht mass DLOM +gry lam SLST | --- | MASS | LBED | -- | |
| 8 | PNft | Y | 140.00 | 262.00 | SLST | DLOM | Dkgry lam SLST +mnr DLOM ibed | --- | LBED | IBED | -- | |
| 9 | PNftw | Y | 262.00 | 274.00 | DLOM | SHLE | Gry mass DLOM +blk SHLE & mnr SDST ibed | --- | MASS | IBED | -- | Loc ab-Sp:Tr Py,Cpy,Cc |
| 10 | PNft1 | Y | 274.00 | 282.00 | SDST | --- | Buf grty lith f-cg SDST: QTZ & FEXT clst | --- | --- | --- | -- | |
| 11 | PMa | N | 282.00 | 908.00 | DACT | RHLT | Or-pnk DACT/RHLT: porp, IGNM, & CGLM | HRS | IGNM | --- | -- | |
| 12 | PMa | Y | 282.00 | 372.00 | DACT | --- | Orpl vfg porp FEXT:phxt-PLAG-QTZ-MAFC(alt) | HERS | --- | --- | -- | Abun MAGT |
| 13 | PMa | Y | 372.00 | 594.00 | RHLT | --- | Rdbn vfg porp FEXT:phxt-PLAG-QTZ-KFLD | HERS | IGNM | --- | -- | Mtx HEMspec-LIM,vn-C |
| 14 | PMa | Y | 594.00 | 622.00 | CGLM | --- | Orbn rnd-srnd pbl, ufsq, plmc FEXT, OQZT | --- | --- | --- | 90 | |
| 15 | PMa | Y | 622.00 | 712.30 | RHLT | --- | Grn-rd/bf motl fg porp FEXT:phxt Q-PLAG | HERS | IGNM | --- | 90 | |
| 16 | PMa | Y | 712.30 | 753.30 | TUFF | BREC | Org-brn? Epiclst brec: porp & pumi FEXT | --- | --- | --- | -- | |
| 17 | PMa | Y | 753.30 | 908.00 | RHYD | TUFF | Org-brn FEXT +scat exotic clst GNSS | --- | IGNM | --- | -- | DACT clst sugg OLDER FEXT |
| 18 | PMc1 | N | 908.00 | 996.50 | SLST | BREC | Red hem sang clst of SLST: fg mtx | HEA | --- | BREC | -- | Post PMwp but not alt |
| 19 | PPw | N | 996.50 | 1338.00 | CASI | SLST | Rd/pplbn-grn CASI/CHRT & SLST:loc brec | HEG | BREC | TBED | -- | Fld, wk sulpd min |
| 20 | PPwp2 | Y | 996.50 | 1022.00 | CASI | --- | Rdbn & blch fin lam CASI/BREC +GARN-EPID | EG | BREC | TBED | -- | Diss Py,Cpy,Sp,Fl |
| 21 | PPwp1 | Y | 1022.00 | 1163.00 | CASI | --- | Rdbn & fin lam CASI: fld +mnr brec | HEG | FLD | TBED | -- | Diss Py,Cpy,Sp |
| 22 | PPwp1 | Y | 1163.00 | 1189.90 | CASI | --- | Rdbn fin lam & brec CASI/BREC: GARN-EPID | HEG | BREC | TBED | -- | Bnd/diss Py,Cpy,Sp |
| 23 | PPwp1 | Y | 1189.90 | 1198.80 | CASI | --- | Plgn fin bed CASI: pseudo bsltic text | EGA | --- | TBED | -- | Tr diss Py,Cpy,Sp |
| 24 | PPwp1 | Y | 1198.80 | 1208.00 | CASI | --- | Rdbn-grn? CHRT clst in fg CASI mtx | --- | BREC | TBED | -- | Bnd/vns/dis Py,Cpy,Sp,C |
| 25 | PPwp1 | Y | 1208.00 | 1218.40 | CASI | --- | Rdbn fin lam CASI | --- | BREC | TBED | -- | Vns Py,Cpy,Sp |
| 26 | PPwp1 | Y | 1218.40 | 1246.00 | CASI | --- | Brn CHRT clst in fg CASI mtx | --- | BREC | --- | -- | Mnr diss Py.Cpy,SP |
| 27 | PPwp2 | Y | 1246.00 | 1284.00 | SLST | CASI | Pplbn SLST +mnr CASI | --- | --- | LBED | -- | Vns ACT-EPID-CRB-SU |
| 28 | PPwp2 | Y | 1284.00 | 1338.00 | SLST | CASI | Pplbn SLST +30% CASI | --- | SLMP | LBED | -- | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SAR- 9 | MAP No: 6334 | UNIT No: 60

| | STRATIGRAPHY: | | | | LITHOLOGY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation | / Comment |
| 1 | Q | N | 0.00 | 16.00 | SAND | — | Rdbn-wht CACT-kaolinitic SAND | — | — | — | – | | |
| 2 | PNstt | N | 16.00 | 104.00 | SHLE | SLST | Rdbn-mar SLST/SHLE +grn bnds | — | — | — | – | | |
| 3 | PNsn | N | 104.00 | 108.00 | DLOM | SLST | Plbrn? mass DLOM & rdbn SLST | — | — | — | – | | |
| 4 | PNh | N | 108.00 | 172.00 | SDST | — | Pl-dkrdbn lith SDST & SLST | — | — | — | – | | |
| 5 | PNhh | Y | 108.00 | 132.00 | SLST | — | Plbrn f-mg lith SDST: QTZ+FEXT clst | — | — | — | – | | |
| 6 | PNh1 | Y | 132.00 | 156.00 | SLST | — | Rdbn cg SLST + mnr grn bnds | — | — | — | – | | |
| 7 | PNha | Y | 156.00 | 172.00 | SLST | DLOM | lt-dkgry dolomitic SLST +upr grit bnd | — | — | — | – | | |
| 8 | PNf | N | 172.00 | 330.40 | SLST | DLOM | Dkgry SLST & ltgry DLOM: ibed | — | — | — | – | | |
| 9 | PNfh | Y | 172.00 | 182.00 | DLOM | SLST | Lt-gry mass DLOM +gry SLST ibed | — | — | — | – | | |
| 10 | PNft | Y | 182.00 | 305.00 | SLST | DLOM | Dkgry SLST +ltgry DLOM ibed | — | — | — | – | | |
| 11 | PNftw | Y | 305.00 | 327.10 | DLOM | SLST | Ltgry DLOM +SHLE partings | — | — | — | 90 | Mnr Py, Tr Ga,Cpy,SP | |
| 12 | PNft1 | Y | 327.10 | 330.40 | CGLM | SDST | Rdbn? cg plmc CGLM +FEXT-SDST-SLST clst | — | — | — | – | | |
| 13 | PM-p | N | 330.40 | 393.50 | SDST | SLST | Rdbn SDST/CGLM +mnr SLST | HS | — | — | – | | |
| 14 | PM-p1a | Y | 330.40 | 346.70 | SDST | SLST | Rdbn SDST & SLST +mnr CGLM bnds | HS | — | — | – | | |
| 15 | PM-p1b | Y | 346.70 | 393.50 | SDST | CGLM | Rdbn grty CGLM & SDST +mnr SDST:FEXT | HS | — | — | – | | |
| 16 | PMa | N | 393.50 | 858.10 | RHLT | DACT | Rdbrn mass porp RHLT/DACT +CGLM | HREC | — | — | – | Sulphides: diss & frac | |
| 17 | PMa | Y | 393.50 | 563.70 | RHLT | — | Rdbn porp RHLT: phxt 10% QTZ | HR | IGNM | MASS | – | Frac @ 580m MAGT/LE | |
| 18 | PMa | Y | 563.70 | 609.30 | CGLM | — | Pnk-grn? cg pebl CGLM:FEXT rar JASP/OQZT | — | — | — | – | Mnr mtxdiss Py-TOUR | |
| 19 | PMa | Y | 609.30 | 756.50 | RHLT | — | Rdbn-gry porp RHLT: phxt 5% QTZ | HRE | IGNM | LAYR | 90 | Mnr Py-TOUR,Frac tr P | |
| 20 | PMa | Y | 756.50 | 858.10 | DACT | TUFF | Grn-gry lith EPCL; FELD-MAFC +mnr QTZ | HRE | TUFF | — | – | Vn-EPID-QTZ,Clts-TO | |
| 21 | PPw | N | 858.10 | 1246.00 | SLST | CASI | Gry-red grn SLST & CHRT alt to CASI | — | — | — | 50 | Cnt @ 30Dg | |
| 22 | PPwp2 | Y | 858.10 | 875.60 | SLST | — | Gry sfld SLST +mnr CHRT zones | RE | — | — | – | | |
| 23 | PPwp1 | Y | 875.60 | 1076.00 | CASI | CHRT | Red-grn CASI & CHRT bnds +mnr SLST: fold | GRCE | BAND | FLD | 50 | Diss Py,Cpy @ 890m | |
| 24 | PPwp2 | Y | 1076.00 | 1246.00 | CHRT | CASI | Pnk-red CHRT/SLST & CASI(less to dpth) | — | BAND | IBED | 50 | Mnr SDST | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/08/92 | |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | AD- 2 | MAP No: | 6335 |
|---|---|---|---|
| | | UNIT No: | 115 |

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PNst | N | 0.00 | 213.00 | SDST | SHLE | Wht-pnk QTZ SDST & rdbn SHLE/SLST | — | — | — | – | |
| 2 | PNstc | Y | 0.00 | 66.00 | SDST | SHLE | Pnk-wht QTZ SDST +rd/gn SHLE unbd | weth | — | — | – | Rdbn-clay:weth <24m |
| 3 | PNstt | Y | 66.00 | 213.00 | SHLE | SLST | Rdbn SHLE/SLST: slump struc & XBED | — | — | IBED | 85 | |
| 4 | PNsn | N | 213.00 | 213.49 | DLOM | — | Crm-wht mass DLOM +sandy lam | — | — | XBED | – | Slt Cu enrc @40m |
| 5 | PNh | N | 213.49 | 349.50 | SDST | BREC | Rdbn SDST +bsl wht-pnk hem REGL: perigl? | — | — | LBED | 85 | |
| 6 | PNhh | Y | 213.49 | 341.58 | SDST | GRIT | Pnk m-cg psrt lith SDST +mnr bsl CGLM | — | — | MBED | 85 | Micaceous, low coher |
| 7 | PNh2 | Y | 341.58 | 349.50 | BREC | — | Wht-pnk/red vcg clst PM-p in hem mtx | Q | — | — | – | |
| 8 | PM-p | N | 349.50 | 812.52 | SDST | SHLE | Rdbn hem SDST +mnr SHLE & grty bsl CGLM | Q | — | BED | – | Q alt upr sect only |
| 9 | PM-p4 | Y | 349.50 | 610.00 | SDST | — | Rdbn m-cg ang-srnd psrt SDST +vmnr SLST | Q | — | MBED | 80 | Mnr XBED, sec Q mtx |
| 10 | PM-p3 | Y | 610.00 | 776.90 | SDST | SLST | Rdbn-mar ang-rnd vfg SDST +mic SLST:ufsq | — | — | UBED | 80 | |
| 11 | PMyg | N | 776.90 | 779.45 | DOLR | — | Gry-grn fg DOLR: hem-bleached & sheared | HSB | — | SHRD | 10 | |
| 12 | PM-p1a | Y | 779.45 | 781.17 | SDST | — | Rdbn fg mass SDST: PM-p2 faulted out? | — | — | MBED | – | |
| 13 | PMyg | N | 781.17 | 781.34 | DOLR | — | Gry-grn fg DOLR: hem-bleached & sheared | HSB | — | SHRD | 10 | |
| 14 | PM-p1a | Y | 781.34 | 785.30 | SDST | — | Rdbn fg mass SDST | — | — | MBED | – | |
| 15 | PM-p1b | Y | 785.30 | 812.52 | SDST | CGLM | Rdbn SDST +grn SER mtx:CGLM bnds hemclst | — | — | BED | – | Diss Py with SERC |
| 16 | PP5 | N | 812.52 | 826.95 | BIF | — | HEM CHL rock,banded: HEM psudmph MAGT | RH | — | BAND | 45 | Tr Cpy, mnr Bn |
| 17 | PMyg | N | 826.95 | 828.48 | DOLR | — | Grn fg DOLR : part margnetic | — | — | — | – | |
| 18 | PP5 | N | 828.48 | 829.00 | BIF | — | HEM CHL rock,banded: HEM psudmph MAGT | RH | — | BAND | 45 | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 6/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER AD- .8 | MAP No: 6335 | UNIT No: 113

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 4.00 | CLAY | SICT | Wht-brn CLAY & SICT +OQZT clsts:REGL | — | — | — | – | |
| 2 | PNst | N | 4.00 | 246.00 | SDST | SLST | Wht-brn QTZ SDST/mnrSHLE & rdbn SLST/SHLE | — | — | — | – | |
| 3 | PNsts | Y | 4.00 | 64.00 | SDST | SHLE | Wht-brn mg SDST +mnr plgrn SHLE(CLAY) bds | — | — | — | – | |
| 4 | PNstc | Y | 64.00 | 80.00 | SDST | SHLE | Brn-gry specly mica SDST +mnr grgn SHLE | — | — | — | – | |
| 5 | PNstt | Y | 80.00 | 246.00 | SLST | SHLE | Rdbn mica SLST/SHLE +grn bnds | — | — | — | – | |
| 6 | PNsn | N | 246.00 | 248.00 | DLOM | SHLE | Crm fg mass DLOM +mnr grn SHLE | — | — | — | – | |
| 7 | PNh | N | 248.00 | 366.00 | SDST | BREC | Brn grty SDST +bsl insitu REGL-BREC Pergl? | — | — | — | – | |
| 8 | PNhh | Y | 248.00 | 359.00 | SDST | — | Brn mg grit pbly SDST | — | — | MBED | 75 | |
| 9 | PNh2 | Y | 359.00 | 366.00 | BREC | — | Rdbn ang clst-PM-p SAND mtx, grd lwr cnt | — | — | BREC | – | |
| 10 | PM-p | N | 366.00 | 825.50 | SDST | — | Rdbn-plpplbn hem QTZ SDST +SHLE ibed | — | — | BED | – | |
| 11 | PM-p4 | Y | 366.00 | 510.00 | SDST | — | Dkrd-plbrn psrt c-vcg SDST +mnr pbl bds | — | — | XBED | 80 | |
| 12 | PM-p3 | Y | 510.00 | 775.90 | SDST | SHLE | Rdbn m-psrt SDST; loc grty +thin SHLE bds | B | — | UBED | 80 | Mnr XBED |
| 13 | PM-p2 | Y | 775.90 | 785.00 | SHLE | SDST | Rdbn SHLE +sandy zones, grn alt | S | — | TBED | 80 | |
| 14 | PM-p1a | Y | 785.00 | 795.00 | SDST | — | Rdbn m-cg SDST | — | — | BED | – | |
| 15 | PM-p1b | Y | 795.00 | 821.44 | SDST | CGLM | Rdbn grty CGLM: some HEM clst | — | — | BED | – | |
| 16 | PM-p1c | Y | 821.44 | 825.50 | SHLE | — | Rdbn motl fiss SHLE | — | — | TBED | 80 | |
| 17 | PP | N | 825.50 | 1000.20 | BIF | BREC | Grn alt BIF & ARKS +crsct CHL rock-INTR? | HRSC | — | — | – | Descriptive data poor! |
| 18 | PP3 | Y | 825.50 | 837.07 | BREC | — | Rdbn BREC inad desc of clst/mtx: REGL | HRK | — | — | – | |
| 19 | PP4 | Y | 837.07 | 842.12 | BREC | — | Grn motl mass bnd CHL rock/brec +vns-hem | HRC | — | BAND | – | MDLR? in fault?:mnr Py |
| 20 | PP5 | Y | 842.12 | 870.00 | BIF | — | Rdbn-dkgn fg BIF: QTZ-CHL-HEM(MAGT)-ACT | HR | — | TBED | 65 | Vns-HEM(MAGT >858 |
| 21 | PP6 | Y | 870.00 | 872.00 | ARKS | BIF | Pooly described ARKS +mnr BIF bnds | — | — | — | – | |
| 22 | PP5 | Y | 872.00 | 897.00 | BIF | — | Rdbn-dkgn fg BIF: QTZ-CHL-HEM(MAGT)-ACT | — | — | TBED | 65 | Diss >880m Py,CPy,+H |
| 23 | PP4 | Y | 897.00 | 903.35 | BREC | CHL | Grn motl mass bnd CHL/HEM rock: INTR? | H | — | — | 30 | MDLR? in fault?:mnr Py |
| 24 | PP6 | Y | 903.35 | 1000.20 | ARKS | — | Ltbn cg feldspthic GRIT: | RHS | — | MBED | 75 | Detrital Py!, vn-HEM |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 6/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | ASD- 1 | MAP No: | 6335 |
|---|---|---|---|
| | | UNIT No: | 111 |

| | STRATIGRAPHY: | | | | LITHOLOGY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation | / Comment |
| 1 | Q | N | 0.00 | 14.00 | CLAY | — | Wht-brn CLAY REGL: OQZT clst | — | — | — | – | | |
| 2 | PNst | N | 14.00 | 282.80 | SDST | SLST | Wht-gry-mar fg SDST & rdbn SLST | — | — | — | – | | |
| 3 | PNsts | Y | 14.00 | 30.00 | SDST | — | Wht-gry fg SDST Q-cmt +mnr mtx CLAY | — | — | — | – | | |
| 4 | PNstc | Y | 30.00 | 128.00 | SDST | SHLE | Wht-mar fg SDST +MICA SHLE & HMB | — | — | MBED | 90 | | |
| 5 | PNstt | Y | 128.00 | 282.80 | SLST | SHLE | Brn-grn(bnds) SLST loc slmp/wav BED | — | — | TBED | – | | |
| 6 | PNsn | N | 282.80 | 283.68 | DLOM | — | Pnk-crm DLOM: slt sandy text | — | — | — | – | | |
| 7 | PNh | N | 283.68 | 506.46 | SDST | CGLM | Pnk lith SDST +bsl CGLM | — | — | — | – | | |
| 8 | PNhh | Y | 283.68 | 502.85 | SDST | — | Pnk m-cg lith SDST: lw cohr | — | MASS | XBED | – | Ndlr Py @ 305m | |
| 9 | PNh2 | Y | 502.85 | 506.46 | CGLM | — | Gry CGLM: DLOM/SDST clst-gry CLAY mtx | — | — | — | – | Perigl deps? Cpy-mtx | |
| 10 | PNft | N | 506.46 | 522.84 | SHLE | DLOM | Dkgry SHLE & crm DLOM ibed | — | LBED | IBED | 90 | Mnr Cpy in PNh2 mtx | |
| 11 | PM-p | N | 522.84 | 946.56 | SDST | SLST | Rdbn m-cg SDST +grt/pebl:mnr SHLE ibed | — | — | — | – | | |
| 12 | PM-p4 | Y | 522.84 | 550.00 | SDST | — | Rdbn cg psrt SDST +mnr CGLM & fg ibed | — | — | MBED | – | Leis bnds | |
| 13 | PM-p3 | Y | 550.00 | 822.50 | SDST | SLST | Rdbn mot m-cg msrt SDST:upsq +mnr SLST | HB | — | XBED | 85 | | |
| 14 | PMyg | N | 822.50 | 825.50 | MINT | — | Ltyel-grn vfg alt MINT up/lw cnt 30/60dg | SH | — | — | 45 | Felsic comp doubtful! | |
| 15 | PM-p3 | Y | 825.50 | 832.50 | SDST | SLST | Rdbn mot m-cg msrt SDST:upsq +mnr SLST | H | — | XBED | 85 | | |
| 16 | PMyg | N | 832.50 | 835.80 | MINT | — | Ppl-brn-yel porp MINT dyke: irreg cnt | — | PORP | — | – | Felsic comp doubtfull | |
| 17 | PM-p3 | Y | 835.80 | 866.60 | SDST | SLST | Rdbn mot m-cg msrt SDST:upsq +mnr SLST | — | — | XBED | 85 | Rar vns-BART-ANHY | |
| 18 | PM-p2 | Y | 866.60 | 910.00 | SHLE | SLST | Rdbn SHLE/SLST +mnr SAND zones | B | — | MBED | 85 | Vns-BART-ANHY | |
| 19 | PM-p1b | Y | 910.00 | 934.05 | SDST | — | Wht-grn SDST/CGLM & rdbn SLST/SHLE | RS | — | LBED | 85 | Vns-BART-ANHY | |
| 20 | PM-p1c | Y | 934.05 | 946.56 | SLST | — | Rdbn SHLE/SLST +mnr sand granules | — | — | TBED | 90 | Vns-BART | |
| 21 | PMh1 | N | 946.56 | 962.40 | GRNT | — | Pnk-gry mgxt GRNT: rlct KFLD,mnr MAFC | HRS | — | — | – | Alt vstrng | |
| 22 | PP2 | N | 962.40 | 963.75 | LCGR | — | Pnk-lgry f-cg LCGR +pnk KFLD | H | — | — | – | Alkalis GRNT | |
| 23 | PMh1 | N | 963.75 | 968.17 | GRNT | — | Pnk-gry mgxt GRNT: 10-20% KFLD<4cm | QSR | ALLI | MASS | – | Frac-CHL | |
| 24 | PP2 | N | 968.17 | 975.00 | LCGR | — | Pnk-lgry f-cg foli LCGR +pnk KFLD | QH | — | FOLI | ?? | Vns-CHL | |
| 25 | PMyg | N | 975.00 | 986.60 | DOLR | — | Gry-grn porp DOLR +chld/brec upr mgn | RC | — | — | – | | |
| 26 | PMyg | Y | 975.00 | 975.10 | DOLR | BREC | Gry-grn DOLR dilat of brkn GRNT | RC | — | DLBR | – | | |
| 27 | PMyg | Y | 975.10 | 986.60 | DOLR | — | Gry-grn porp DOLR +chld mgn upr cnt | RC | PORP | MASS | 50 | Vns-QTZ-CRB-BART- | |
| 28 | PP2 | N | 986.60 | 996.60 | LCGR | FPEG | Pnk-gry f-mg mdFOLI LCGR +mnr FPEG | R | — | FOLI | 50 | Vns-BART/QTZ, frac-C | |
| 29 | PMh3 | N | 996.60 | 999.50 | FPEG | LCGR | Pnk FPEG +vns QTZ & slivers of LCGR | R | PEGM | — | – | Perv CHL, vns-QTZ-CH | |
| 30 | PP2 | N | 999.50 | 1014.90 | LCGR | FPEG | Pnk-gry f-mg mdFOLI LCGR +cg FPEG | — | MASS | FOLI | – | Frac-CHL, vn-Q, BREC | |
| 31 | br1 | N | 1014.90 | 1018.60 | SYEN | BREC | Pnk-grn? high KFLD UNRK +dila CHLR brec | R | — | DLBR | – | Perv-CHL | |
| 32 | PMyg | N | 1018.60 | 1023.30 | DOLR | — | Grn-rdbn fg hem alt UNRK | HRS | MASS | — | – | Info dirobs-fgINIT | |
| 33 | PMh1 | N | 1023.30 | 1027.42 | GRNT | GBBR | Pnk mgxt GRNT:PLAg/KFLD +GBBR dyk | RS | — | — | – | Vns-QTZ, mnr Py | |
| 34 | PM1 | N | 1027.42 | 1118.00 | GBBR | — | Ltgrn-pnk f-mg GBBR:wht PLAG +chld mgn | HREK | — | — | 40 | Tr Py,vn-Q-R-KFLD_C | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 6/7/92 | |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER ASD- 2 | MAP No: 6335 | UNIT No: 112

| | STRATIGRAPHY : GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 5.00 | SAND | CLAY | Org-brn CLAY-LOAM/REGL +OQZT clst | — | — | — | – | |
| 2 | PNst | N | 5.00 | 395.00 | SDST | SHLE | Wht-brn QTZ/Lith SDST & rdbn SHLE/SLST | — | — | — | – | |
| 3 | PNsts | Y | 5.00 | 173.00 | SDST | SHLE | Wht-brn QTZ-cmt SDST +ibed SHLE-(weth<50m) | weth | — | — | – | |
| 4 | PNstc | Y | 173.00 | 204.00 | SDST | SHLE | Chbn SDST +mnr grn SHLE ibed | — | — | — | – | |
| 5 | PNstt | Y | 204.00 | 395.00 | SHLE | SLST | Rd-chbn SLST/SHLE +grn bnds & CRB lam | — | — | LBED | 90 | Loc slump & ripple |
| 6 | PNhh | N | 395.00 | 567.32 | SDST | — | Pnk-grgn mg psrt lith SDST;bsl grit zone | — | XBED | MBED | 90 | XBED @70Dg, Py @478. |
| 7 | PNf | N | 567.32 | 802.32 | SHLE | SDST | Gry SHLE +DLOM inbed & bsl pnk SDST/GRIT | — | — | — | – | |
| 8 | PNft | Y | 567.32 | 791.34 | SHLE | DLOM | Gry SHLE +ltgry DLOM ibed <10cm | — | — | LBED | 90 | Diss Py, vns ANHY |
| 9 | PNft1 | Y | 791.34 | 802.32 | SDST | GRIT | Gry mica SDST:bsl GRIT +mnr blk SHLE lam | — | — | MBED | 90 | Thin PNft2 poss pres |
| 10 | PM-p | N | 802.32 | 1023.87 | SDST | SHLE | Rdbn hem QTZ SDST +bsl SHLE/SLST mbrs | — | — | TBED | 85 | |
| 11 | PM-p3 | Y | 802.32 | 903.60 | SDST | SHLE | Rdbn-grn psrt SDST +rdbn-grn SHLE ibed | H | — | IBED | 85 | Vns CRB-Py loc @ top |
| 12 | PM-p2 | Y | 903.60 | 945.90 | SHLE | — | Rdbn-grn(spot/zns) SHLE +mnr SDST lam | — | — | LBED | 90 | |
| 13 | PM-p1a | Y | 945.90 | 1020.00 | SDST | SHLE | Ppl-buf-grn(motl) SDST +mnr SHLE ibed | — | — | IBED | 85 | |
| 14 | PM-p1b | Y | 1020.00 | 1023.87 | CGLM | GRIT | Pnk plmc CGLM:GRNT,FEXT,VQTZ,& FEST clst | — | — | — | – | Bsl cnt @70dg |
| 15 | PPh | N | 1023.87 | 1148.40 | SCHT | PEGD | Gry-Grn alt BIOT SCHT +PEGD segr, fld vn QTZ | — | — | — | 35 | |
| 16 | PPh1 | Y | 1023.87 | 1029.55 | SCHT | — | Dkgrn-rdbn mica SCHI +palaeo-weth profl | Rh | CCLV | — | 35 | |
| 17 | PPh2 | Y | 1029.55 | 1030.05 | PEGD | — | Grn m-cg PEGD: QTZ-FELD-CHL col frm alt | R | PEGM | — | 30 | |
| 18 | PPh1 | Y | 1030.05 | 1097.85 | SCHT | — | Grn-gry mica SCHT: BIOT?(CHL)-TOUR, fld | R | CCLV | FLD | 15 | Frac CHL/Py Vns-QTZ-f |
| 19 | PMyg | N | 1097.85 | 1140.60 | DOLR | — | Dkgn f-mg mass DOLR :cilat frac brec | ERC | MASS | DLBR | – | Vns-EPID-CHL-QTZ(br |
| 20 | PPh2 | Y | 1140.60 | 1148.40 | PEGD | — | Gry fg mass PEGD: QTZ-FELD-CHL | R | — | — | – | Frac-CHL, vns-CBR |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 6/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | STRATIGRAPHY: | | | | LITHOLOGY | | | HOLE NUMBER EC- 21 | | | | MAP No: 6335 UNIT No: 100 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub* | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
| 1 | PM-p | N | 0.00 | 521.19 | SDST | SHLE | Rdbn hem QTZ SDST & lesr SHLE ibed | — | — | — | – | |
| 2 | PM-p4 | Y | 0.00 | 314.00 | SDST | — | Gry-pnk-grn hem mass SDST:HMB >216m | q | — | MBED | – | q to 144m |
| 3 | PM-p3 | Y | 314.00 | 415.54 | SDST | SHLE | Mar hem mag SDST +HMB & lsr rd SHLE ibed | — | — | IBED | – | HMB=HEM+MAGT |
| 4 | PM-p2 | Y | 415.54 | 442.59 | SHLE | SDST | Rdbn SHLE-grn ptch +mnr SDST ibed | — | — | IBED | – | Grn alt = SER |
| 5 | PM-p1a | Y | 442.59 | 467.74 | SDST | SHLE | Mar-wht(bnds-ptch) SDST & SHLE ibed | — | — | — | – | Mtx = SER |
| 6 | PM-p1b | Y | 467.74 | 521.19 | GRIT | SHLE | Rdbn ang cg GRIT & SLST/SHLE | — | — | — | – | |
| 7 | PMa | N | 521.19 | 792.28 | DACT | MEXT | Or/pp/bn-gngy cg DACT-TUFF/AGLM & K-MEXT | KE | — | — | – | |
| 8 | PMa6g | Y | 521.19 | 610.00 | DACT | TUFF | or/pp/bn cg amyg-DACT-TUFF/AGLM-BREC | KECS | IGNM | GBED | – | Vn,amyg-C-Q-R-Hspec |
| 9 | PMa1g | Y | 610.00 | 792.28 | MEXT | — | Ltbn-gngy fg? K-MEXT: micr-vesi, xeno-GRNT | KERC | — | BAND | 90 | Tr Py,Cpy Vn-C-R-F,M |
| 10 | PPwp1 | N | 792.28 | 992.25 | MPEL | CASI | Pnk-grn-gry fg bnd meta SLST/SHLE, fld | KE | BED | FLD | ? | Steep dips indicated |
| 11 | PP1 | N | 992.25 | 1002.00 | MCGR | CATA | Gry micr GRNT brec-cataclased | — | — | — | ? | Accm R-BART-H,Tornt |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | STRATIGRAPHY: | | | | LITHOLOGY | | | HOLE NUMBER EC- 35 | | | | MAP No: 6335 UNIT No: 99 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
| 1 | Q | N | 0.00 | 10.80 | CLAY | — | Ylbn-rdbn CLAY | — | — | — | – | Wk Cu & Zn enrch |
| 2 | PNstt | N | 10.80 | 110.00 | SHLE | — | Chbn SHLE +blgn bnds-mnr-py-grns | — | — | — | – | Loc slt Cu enrch |
| 3 | PNsn | N | 110.00 | 119.00 | SHLE | DLOM | Chbn SHLE & ltgybn DLOM | — | — | — | – | |
| 4 | PNst1 | N | 119.00 | 122.40 | SDST | SLST | Brn fg sandy SLST & vfg brn SDST | — | — | — | – | |
| 5 | PNhh | N | 122.40 | 126.00 | SDST | — | f-mg lith SDST +mnr gygn SLST | — | — | — | – | |
| 6 | PM-p | N | 126.00 | 366.00 | SDST | SLST | Rdbn-mar/pplbn QTZ SDST & lesr SLST ibed | — | — | — | – | |
| 7 | PM-p3 | Y | 126.00 | 148.80 | SDST | SLST | Rdbn wht-motl fg SDST +grgn-bn SLST ibed | — | — | — | – | |
| 8 | PM-p2 | Y | 148.80 | 169.00 | SLST | — | Rdbn grn-gry-motl SLST: slt sandy zns | — | — | — | – | |
| 9 | PM-p1a | Y | 169.00 | 250.00 | SDST | SLST | Rdbn wht-motl vf-mg SDST +rdbn-gngy SLST | H | — | — | – | Spec hem wk magn,Tr P |
| 10 | PM-p1b | Y | 250.00 | 366.00 | CGLM | SDST | Red-gry grity CGLM/SDST:poss degrd GRNT? | — | — | — | – | |
| 11 | PP1 | N | 366.00 | 400.00 | ADML | — | Pnk-grn fg ADML: SILL in SHRZ | HRSI | — | — | – | Slt Zn enrch |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 9/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | EC-40 | MAP No: | 6335 |
|---|---|---|---|
| | | UNIT No: | 94 |

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SAND | SILT | Sandy-silty soil & gibber at surface | --- | --- | --- | -- | No log description |
| 2 | PNstt | N | 2.00 | 173.00 | SHLE | --- | Chbn-blgn SHLE | --- | --- | --- | -- | |
| 3 | PNhh | N | 173.00 | 180.00 | SDST | --- | rdbn-gry lith ?g SDST:60% QTZ,40% FEXT | --- | --- | --- | -- | Mnr GYPS |
| 4 | PNf | N | 180.00 | 324.00 | SHLE | DLOM | Blk SHLE & gry DLOM | --- | --- | --- | -- | |
| 5 | PNfh | Y | 180.00 | 192.00 | DLOM | --- | Gry fg? DLOM +blk dolomitic SHLE <10% | --- | --- | --- | -- | Diss Py |
| 6 | PNft | Y | 192.00 | 206.00 | SHLE | DLOM | Blk SHLE +mnr gry DLOM bnds | --- | --- | --- | -- | Diss Py |
| 7 | PNfh | Y | 206.00 | 214.00 | DLOM | --- | Gry fg? DLOM +blk dolomitic SHLE <30% | --- | --- | --- | -- | Diss Py |
| 8 | PNft | Y | 214.00 | 282.00 | SHLE | DLOM | Blk SHLE +mnr gry DLOM bnds | --- | --- | --- | -- | Diss Py; Zn enrh >250m |
| 9 | PNftw | Y | 282.00 | 309.00 | DLOM | SHLE | Gry fg? DLOM +blk dolomitic SHLE <40% | --- | --- | --- | -- | Loc enrh Pb & Zn |
| 10 | PNft1 | Y | 309.00 | 324.00 | SDST | --- | Gry-mar psrt f-mg SDST: 10% FEXT grns | --- | --- | --- | -- | Blk SHLE-Py |
| 11 | PM-p | N | 324.00 | 362.00 | SDST | CGLM | Rdbn hem QTZ SDST & CGLM | --- | --- | --- | -- | |
| 12 | PM-p1a | Y | 324.00 | 334.00 | SDST | SLST | Rdbn mica hem lith SDST: grn INIT grns | --- | --- | --- | -- | Tr diss Py |
| 13 | PM-p1b | Y | 334.00 | 362.00 | CGLM | SDST | Rdbn-grn plmc CGLM: 20-70% grn INIT | --- | --- | --- | -- | |
| 14 | PMa9g | N | 362.00 | 596.00 | DOLR | --- | Dkgrn f-mg DOLR: dyke/sill | --- | --- | --- | -- | |
| 15 | PMa9g | Y | 362.00 | 386.00 | DOLR | --- | Dkgrn-pnk hem mg DOLR: vns & mnr brec | HCU | --- | --- | -- | Diss MAGT,Py |
| 16 | PMa9g | Y | 386.00 | 400.50 | DOLR | ADML | Dkgrn DOLR +slabby xeno ADML @ 30dg | R | --- | --- | 30 | ADML=PM1? |
| 17 | PMa9g | Y | 400.50 | 596.00 | DOLR | --- | Dkgrn-pnk hem mg DOLR: vns pnk hem FELD | HCU | APHN | --- | -- | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 9/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | EC-43 | MAP No: | 6335 |
|---|---|---|---|
| | | UNIT No: | 93 |

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 10.00 | SAND | --- | Rdbn aeol QTZ SAND | --- | --- | --- | -- | |
| 2 | PNstt | N | 10.00 | 122.00 | SHLE | --- | Chbn-grn SHLE | --- | --- | --- | -- | |
| 3 | PNsn? | N | 122.00 | 124.00 | SHLE | DLOM | Chbn SHLE & lsr DLOM bnds | --- | --- | --- | -- | |
| 4 | PNhh | N | 124.00 | 133.00 | SDST | --- | Brn-gry lith ang-wrnd SDST:grn FEXT? gr | --- | --- | --- | -- | Tr Cc,Cpy |
| 5 | PM-p1a | N | 133.00 | 146.00 | CGLM | SDST | Brn plmc srnd CGLM;clst QTZ, grn-fg-lGRK | H | --- | --- | -- | |
| 6 | PP1 | N | 146.00 | 159.00 | ADML | MCGR | Pnk-grn fg ADML: MUSC-BIOT(CHL) | HRSl | --- | --- | -- | Barren! |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 9/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

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Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ******* Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER EC- 51 | MAP No: 6335 | UNIT No: 98

| | STRATIGRAPHY : | | | | LITHOLOGY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation | / Comment |
| 1 | Q | N | 0.00 | 14.00 | SAND | SILT | Brn aeol SAND & SILT +mnr GYPS | --- | --- | --- | -- | | |
| 2 | T . | N | 14.00 | 22.00 | CLAY | SAND | Gry SAND-CLAY & CLAY +mnr SICT | --- | --- | --- | -- | | |
| 3 | PNstt | N | 22.00 | 166.00 | SHLE | --- | Chbn SHLE +blgn bnds: gn-gry weth <35m | weth | --- | --- | -- | | |
| 4 | PNh | N | 166.00 | 176.00 | SDST | SHLE | Brn lith SDST +bsl mixd clst SDST:perigl | --- | --- | --- | -- | | |
| 5 | PNhh | Y | 166.00 | 174.00 | SDST | SLST | Brn psrt lith SDST/SLST +mtx-brn-silt | --- | --- | --- | -- | | More silty than usual |
| 6 | PNh2 | Y | 174.00 | 176.00 | SDST | SHLE | Gygn SDST, brn SHLE & gry SHLE/DLOM | --- | --- | --- | -- | | Mixd lith-perigl env? |
| 7 | PNft | N | 176.00 | 263.00 | SHLE | --- | Blk-rdbn(mnr) SHLE & gry DLOM | --- | --- | LBED | -- | | Loc high Zn & Pb |
| 8 | PM-p1 | N | 263.00 | 285.00 | CGLM | --- | Rdbn QTZ SDST +clst GRNT & grn MINT | --- | --- | --- | -- | | |
| 9 | PMa9g | N | 285.00 | 292.00 | DOLR | --- | Dkgrn fg MINT | --- | --- | --- | -- | | High Zn low Cu |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | | Author(s): JLC 10/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ******* Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | HOLE NUMBER | HUD-1 | MAP No: | 6335 |
|---|---|---|---|---|
| | | | UNIT No: | 110 |

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 3.00 | CLAY | — | Brn CLAY +OQZT pebls: ELLU-REGL | — | — | — | – | |
| 2 | PNst | N | 3.00 | 354.00 | SDST | SLST | Wht-(l-dk)bn SDST & rdbn SHLE/SLST | weth | — | — | – | Weth effects <40m |
| 3 | PNsts | Y | 3.00 | 40.00 | SDST | CLAY | Wht-gry wrnd f-mg SDST:(yel-brn-SICT:weth) | weth | — | — | – | |
| 4 | PNstc | Y | 40.00 | 64.00 | SDST | SLST | Brn-gry/wht(mnr) fg SDST/SLST ibed | — | — | — | – | |
| 5 | PNstt | Y | 64.00 | 354.00 | SHLE | SLST | Dkbrn SHLE/SLST +GYPS bnds: dolmite >326m | — | — | IBED | 90 | DOLM elipsd, Vns-CRB |
| 6 | PNh | N | 354.00 | 379.40 | SDST | BREC | Ltbrn lith SDST +bsl BREC: perigl? REGL | — | — | — | – | |
| 7 | PNhh | Y | 354.00 | 375.60 | SDST | — | Ltbrn cg wrnd gnulr lith SDST: slty mtx | B | — | GBED | 75 | Vug/vns-GYPS-CRB |
| 8 | PNh2 | Y | 375.60 | 379.40 | BREC | — | Brn BREC:QTZ-FEXT clst fg mtx, dlm fisfl | — | — | — | 75 | Brec prob perigl |
| 9 | PMa | N | 379.40 | 483.00 | RHLT | — | Brn fg FEXT: QTZ-FELD-BIOT +lith clst | HSRQ | — | BAND | 40 | Frac-C-S-H-R,diss-H-Py |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 6/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | HOLE NUMBER | HUD-2 | MAP No: | 6335 |
|---|---|---|---|---|
| | | | UNIT No: | 114 |

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 1.00 | CACT | CLAY | Wht-CACT & brn CLAY +OQZT clst: REGL | — | — | — | – | |
| 2 | PNst | N | 1.00 | 352.40 | SDST | SLST | Wht-gry-brn QTZ SDST & chbn SHLE | — | — | — | – | |
| 3 | PNsts | Y | 1.00 | 70.00 | SDST | SHLE | Wht QTZ SDST +mnr brn-grn SHLE, CRB/GYPS | — | — | — | – | |
| 4 | PNstc | Y | 70.00 | 96.00 | SDST | SHLE | Gry-brn QTZ SDST & lesr brn SHLE | — | — | — | – | |
| 5 | PNstt | Y | 96.00 | 352.40 | SLST | SHLE | Chbn SLST/SHLE +mnr grn bnds | — | — | IBED | – | |
| 6 | PNhh | N | 352.40 | 368.00 | SDST | SHLE | Pnk fg SDST & brn SHLE ibed | — | — | IBED | – | |
| 7 | PMa? | N | 368.00 | 396.30 | TUFF | — | Pnk-gry fg FEXT:layr-poss FOLI?/SHRD? | HS | — | LAYR | 45 | Diss MAGT,?MAL @36 |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 6/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: PL-32 | MAP No: 6335 | UNIT No: 109

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 15.00 | SAND | CLAY | orbn dune sand + clay | — | — | — | – | |
| 2 | PNstt | N | 15.00 | 70.00 | CLAY | — | rbrn+gry clay with lt gry+yel "chips" | weth | — | — | – | |
| 3 | PNh | N | 70.00 | 212.25 | SDST | SLST | buf to rbrn sdst+rbrn to grgn slst | — | — | — | – | |
| 4 | PNhh | Y | 70.00 | 163.00 | SDST | — | buf fg to mg wsrt wrnd lithic sdst | Q | — | — | 70 | |
| 5 | PNhl | Y | 163.00 | 212.25 | SDST | SLST | grct rbrn fg wrnd sdst+grgn to rbrn slst | — | IBED | — | – | |
| 6 | PNf | N | 212.25 | 252.62 | SLST | DLOM | dk gry slst ovr lt gry dlom sebr ovr CGLM | — | — | — | – | |
| 7 | PNft | Y | 212.25 | 244.30 | SLST | DLOM | irct dk gry lamb slst+mnr brec dlom | — | LAMB | — | – | |
| 8 | PNftw | Y | 244.30 | 251.05 | SEBR | DLOM | lt gry dlom sebr+slst mtx+rare cl-OQZT | — | SEBR | — | – | tr Spl?,Py,Cpy? |
| 9 | PNft2 | Y | 251.05 | 252.62 | CGLM | SDST | plmc CGLM rsrt ang cl-OQZT-bslt sandy mtx | — | — | — | – | PNft1?, tr diss Py |
| 10 | PM-p3a | N | 252.62 | 263.80 | SDST | SLST | shct pprd cg qtz sdst+kao mtx+mnr slst | — | — | — | – | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV 30/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: PRL-22 | MAP No: 6335 | UNIT No: 108

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 10.00 | SICT | CLAY | buf nodl-mass SICT ovr buf-pwht clay | QW | NODL | — | – | clay = weth PNwtt |
| 2 | PNstt | N | 10.00 | 108.00 | SHLE | SLST | rdbn+gry to maroon shle+slst + bsl dlom | — | — | — | – | |
| 3 | PNh | N | 108.00 | 142.00 | SDST | SLST | shct rdbn,gry,mrn sdst ovr mrn slst | — | — | — | – | |
| 4 | PNhh | Y | 108.00 | 128.00 | SDST | SLST | shct rdbn+gry-mrn shle+sdst + bsl dlom | — | — | — | – | |
| 5 | PNhl | Y | 128.00 | 142.00 | SLST | SDST | mrn qtz,volc sdst becomes siltier to base | — | — | — | – | |
| 6 | PNft | N | 142.00 | 251.00 | SLST | — | dk gry brec-strm-dlom slst+bsl lamb dlom | — | LAMB | — | – | mnr cpy at top |
| 7 | PM-p1a | N | 251.00 | 276.00 | CGLM | — | chips of grnt,bslt,dact - see petrology | RSHL | — | — | – | tr py. ?PMya,PNft1,2,PN |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 30/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER PY- 1. | MAP No: 6335 | UNIT No: 101

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 4.30 | RUBL | --- | Clst DLOM & SDST in SAND-GYPS mtx: REGL | --- | --- | --- | – | |
| 2 | PNftw | N | 4.30 | 39.80 | DLOM | CLAY | Red-grn CLAY: weth strom DLOM/SHLE +GYPS | --- | --- | --- | – | |
| 3 | PM-p | N | 39.80 | 679.65 | SDST | SHLE | Rdbn hem QTZ SDST & lsr SHLE ibed | --- | --- | --- | – | Silic <166m, frac-HEM |
| 4 | PM-p4 | Y | 39.80 | 432.25 | SDST | SHLE | Rdbn psrt m-cg grty SDST +mnr SHLE | B | --- | --- | – | Frac-HEM |
| 5 | PM-p3 | Y | 432.25 | 590.00 | SDST | SHLE | Rdbn msrt ufsq grty-fg SDST +SHLE tops | --- | --- | --- | – | |
| 6 | PM-p2 | Y | 590.00 | 608.40 | SHLE | --- | Rdbn SHLE +grn ptch/bnds | --- | --- | --- | – | |
| 7 | PM-p1a | Y | 608.40 | 631.00 | SDST | SHLE | Rdbn c-mg SDST +mnr SHLE | --- | --- | --- | – | |
| 8 | PM-p1b | Y | 631.00 | 670.18 | SDST | CGLM | Rdbn cg pbly CGLM: clst FEXT-SLST-FELD | --- | --- | --- | – | |
| 9 | PM-p1c | Y | 670.18 | 679.65 | SDST | SLST | Rdbn grty SDST & SLST | --- | --- | --- | – | |
| 10 | PMa | N | 679.65 | 1293.30 | DACT | MEXT | Gry-red/org MEXT/FEXT & EPCL suite | --- | --- | --- | 85 | |
| 11 | PMa5g | Y | 679.65 | 825.56 | RHYD | TUFF | Gry-red m-fg PORP RHYD & FEXT/TUFF ibed | HE | --- | IBED | 85 | Frac-EP, TCGLM @792. |
| 12 | PMa4g | Y | 825.56 | 851.72 | CGLM | SDST | Pnk plmc CGLM:clst FEXT-DACT-GRNT;LAHAR | --- | --- | --- | – | Clst SLST also pres |
| 13 | PMa3g | Y | 851.72 | 993.92 | BSLT | TUFF | Dkgrgn porp BSLT & cg lith TUFF: intly | HRC | --- | --- | – | Vns C-H, Slksld-horz |
| 14 | PMa2g | Y | 993.92 | 1163.08 | DACT | TUFF | Red-org fg lith TUFF & vfg DACT | HRQ | --- | --- | – | Frac spH-GYPS-R, Slksl |
| 15 | PMa1g | Y | 1163.08 | 1293.30 | TRAC | AGLM | Grn-red fg? TRAC/SYEN +bsl AGLM | HRSK | --- | --- | 45 | perv F-Ep-Q,wk Zn enrc |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER PY- 2 | MAP No: 6335 | UNIT No: 102

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 3.00 | SAND | GlBR | Surface OQZT gibber and sand:no log desc | --- | --- | --- | – | |
| 2 | PM-p | N | 3.00 | 565.43 | SDST | SHLE | Rdbn-wht(blch) f-mg QTZ SDST & SHLE/CGLM | B | --- | BED | – | |
| 3 | PM-p4 | Y | 3.00 | 357.70 | SDST | --- | Rdbn m-psrt m-cg grty SDST: rar pbl FEXT | B | --- | --- | – | Silic <211m,fre-drsy-Q |
| 4 | PM-p3 | Y | 357.70 | 461.63 | SDST | SHLE | Rdbn m-wsrt f-mg SDST +ibed red-grn SHLE | --- | --- | MBED | – | Loc XBED |
| 5 | PM-p2 | Y | 461.63 | 495.20 | SHLE | SDST | Red-grn SHLE +mnr SDST ibed | --- | --- | LBED | – | |
| 6 | PM-p1a | Y | 495.20 | 509.16 | SDST | ?? | Wht mg SDST +mnr SLST? ibed | B | --- | IBED | – | |
| 7 | PM-p1b | Y | 509.16 | 565.43 | CGLM | SDST | Wht-psrt plmc CGLM: clst-QTZ-SLST-FEXT | B | --- | MBED | – | |
| 8 | PMa | N | 565.43 | 926.60 | FEXT | TUFF | Red-gry fg FEXT/TUFF: strng alt mnr F.A.T | HRCS | --- | --- | – | Tr Cu enrch @765m |
| 9 | PMa7g | Y | 565.43 | 629.60 | ANDS | TUFF | Red-gry fg ANDS: amyg-H-C, flw struc-brec | HRCS | IGNM | BAND | 20 | Vns C-H, frac-GYPS |
| 10 | PMa6g | Y | 629.60 | 742.00 | TUFF | BREC | Red-grn;buf fg FEXT: vstrng alt | HACF | --- | --- | – | Perv Q alt |
| 11 | PMa5g | Y | 742.00 | 926.60 | TRAC | --- | red-grn? vfg TRAC: phxt EPID/ACTI | HAFT | --- | --- | – | Vns-Q-H-Py-ANHY-B- |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE PY-
NUMBER 3-
MAP No: 6335
UNIT No: 103

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PM-p | N | 0.00 | 663.60 | SDST | SHLE | Rdbn SDST & mnr SHLE, bsl CGLM | --- | --- | --- | -- | |
| 2 | PM-p4 | Y | 0.00 | 296.00 | SDST | --- | Rdbn psrt mg QTZ SDST | --- | --- | --- | -- | |
| 3 | PM-p3 | Y | 296.00 | 591.11 | SDST | SHLE | Rdbn hem msrt m-fg SDST +mnr mica SHLE | --- | XBED | IBED | -- | |
| 4 | PM-p2 | Y | 591.11 | 616.07 | SHLE | SDST | Rdbn lam SHLE +Thin sandy beds @ base | --- | TBED | LBED | -- | |
| 5 | PM-p1a | Y | 616.07 | 641.86 | SDST | SHLE | Red-wht m-cg SDST +mnr SHLE bnds | B | --- | MBED | -- | |
| 6 | PM-p1b | Y | 641.86 | 663.60 | CGLM | --- | Red-wht grnl-pebl CGLM: clst incl SHLE | B | --- | MBED | -- | |
| 7 | PMa | N | 663.60 | 1288.30 | FEXT | MEXT | Ogrd-bn & grn lEXT lavas & tuff/agglom | HRSC | --- | MLYR | -- | Strong alt-all units |
| 8 | PMa6g | Y | 663.60 | 828.25 | TRAC | AGLM | Red/org-grn TRAC-AGLM: amyg-CHL-QTZ | HRSE | --- | --- | -- | Vns KFLD-spec-HEM,T |
| 9 | PMa8g | Y | 828.25 | 914.50 | LPRO | BREC | Pplbn cg PORP LPRO:phxt-PHLO/BIOT,dis-Mt | HRKC | --- | --- | -- | Fra-Py,Vns-ANHY, TO |
| 10 | PMa5g | Y | 914.50 | 958.80 | RHLT | TUFF | Ogrd-bn TUFF:AFLD-QTZ-TOUR-BIOT-RUTL | HSRC | --- | --- | -- | Vns F-C-R-Mt-Py-Cpy,E |
| 11 | PMa1g | Y | 958.80 | 1288.30 | BSLT | BREC | Ogrd-bn? BSLT:amyg-CACT-FL-MAGT, BREC | KR | --- | --- | -- | Diss Mt-Py,Vns C-F, Cu |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE PY-
NUMBER 4
MAP No: 6355
UNIT No: 104

| | STRATIGRAPHY: | | | | LITHOLOGY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation | / Comment |
| 1 | Q | N | 0.00 | 9.00 | MUD | --- | Lake mud - no description | --- | --- | --- | -- | | |
| 2 | PNstt | N | 9.00 | 34.45 | SHLE | DLOM | Chbn-grn dolomitic SHLE | --- | --- | BED | -- | | |
| 3 | PNhh | N | 34.45 | 37.02 | SDST | --- | Grn f-mg dolomitic SDST | --- | --- | BED | -- | | |
| 4 | PNf | N | 37.02 | 84.00 | DLOM | SDST | Gry-wht DLOM & bsl sandy CGLM | --- | --- | --- | -- | | |
| 5 | PNftw | Y | 37.02 | 46.50 | DLOM | --- | Gry-wht strom DLOM | --- | --- | --- | -- | Sooty Cc in base | |
| 6 | PNft2 | Y | 46.50 | 84.00 | CGLM | SDST | Brn? wkbed CGLM/SDST: ang clst SDST | --- | --- | --- | -- | Vns Cc,Cu enrch, Redef | |
| 7 | PM-p | N | 84.00 | 562.58 | SDST | SHLE | Rdbn hem QTZ SDST & lesr SHLE inbed | --- | --- | BED | -- | | |
| 8 | PM-p4 | Y | 84.00 | 283.50 | SDST | SHLE | Rdbn psrt sang-srnd SDST +mnr mica SHLE | --- | --- | MBED | -- | | |
| 9 | PM-p3 | Y | 283.50 | 464.70 | SDST | SHLE | Rdbn fg wsrt SDST & rd-gn motl SLST/SHLE | SB | --- | IBED | -- | HMBs | |
| 10 | PM-p2 | Y | 464.70 | 494.70 | SHLE | SDST | Red-grn motl mica SHLE +bsl SDST inbed | S | --- | IBED | -- | | |
| 11 | PM-p1 | Y | 494.70 | 562.58 | CGLM | SHLE | Red-grn cg lith grit plmc CGLM +mnr SHLE | --- | --- | MBED | -- | | |
| 12 | PMa | N | 562.58 | 1015.00 | BSLT | FEXT | Pnk hem BSLT & FEXT-AGLM +mnr CGLM | HRCE | --- | --- | -- | | |
| 13 | PMa7g | Y | 562.58 | 622.86 | BSLT | --- | Red-grn amyg BSLT/AGGL-BREC: phxt 'HEM' | HRA | --- | --- | -- | Loc Zn ench, | |
| 14 | PMa5g | Y | 622.86 | 790.25 | TRAC | ANDS | Rdbn-wht PORP fg TRAC/ANDS: phxt-PLAG | RSAC | --- | --- | -- | Zn enrch, vns-H-R/C | |
| 15 | PMa4g | Y | 790.25 | 820.52 | CGLM | --- | Pnk-grn? cg bldr CGLM +clst FEXT & DOLR | HRC | --- | --- | -- | Tr Cu enrch | |
| 16 | PMa3g | Y | 820.52 | 831.13 | BSLT | --- | Dkpnk-grn? PORP BSLT: OllV, flwtp brec | HRC | --- | --- | -- | Vns CALC, Bleach | |
| 17 | PMa2g | Y | 831.13 | 932.00 | PYRC | BREC | Pnk-grn? cg TUFF: RHLT,ANDS & GRNT clst | HREA | FRGM | --- | -- | Vns CALC, slt Cu enrch | |
| 18 | PMa1g | Y | 932.00 | 1015.00 | BSLT | --- | Dkgrn-red? fg PORP amyg BSLT:OllV,Diss MAGT | RAQC | --- | --- | -- | Vns-Py,Cpy,Bn,C,BART, | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/7/92 | |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SAR- 2 | MAP No: 6335 | UNIT No: 105

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 24.00 | CLAY | SAND | wht,gry+grn gypseous sandy clay | — | — | — | – | |
| 2 | PNstt | N | 24.00 | 146.00 | SHLE | SLST | mrn+grn dolomitic qtz+chl shle/slst | — | — | — | – | |
| 3 | PNh | N | 146.00 | 186.79 | SDST | SLST | mrn fg-cg bimodal qtz+grv sdst+slst | — | — | — | – | |
| 4 | PNhh | Y | 146.00 | 161.50 | SDST | SLST | mrn fg-cg bimodal qtz+grv sdst | S | — | — | 90 | |
| 5 | PNh1 | Y | 161.50 | 186.79 | SDST | SLST | shct mrn vfgr srnd hmb lith sdst+bsl grit | SB | — | — | 75 | |
| 6 | PNf | N | 186.79 | 405.11 | SLST | DLOM | gry slst+dlom-brec-beds+bsl gygn sdst | — | IBED | — | 87 | mnr cpy,py rar spl |
| 7 | PNft | Y | 186.79 | 343.00 | SLST | DLOM | lt & dk gry slst + dlom brec beds | — | IBED | — | 90 | rar spl,py near base |
| 8 | PNft1 | Y | 343.00 | 405.11 | SDST | DLOM | gygn srnd fg-mg lithic sdst+mnr ibed dlom | — | IBED | — | 85 | mnr cpy,py |
| 9 | PM-p | N | 405.11 | 415.20 | SDST | SLST | shct mrn hem qtz sdst+lamb slst interbed | — | — | — | – | |
| 10 | PM-p3a | Y | 405.11 | 409.70 | SDST | — | shct mrn fg-mg sang hmb qtz-hem sdst | — | — | — | 80 | |
| 11 | PM-p2 | Y | 409.70 | 412.00 | SLST | — | red-mrn lamb cherty mic slst | R | LAMB | — | 90 | |
| 12 | PM-p1a | Y | 412.00 | 415.20 | SDST | — | mrn fg-mg sang hmb qtz-hem sdst | — | — | — | – | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV 30/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SAR- 3 | MAP No: 6335 | UNIT No: 106

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SAND | CLAY | brn clayey sand | — | — | — | – | |
| 2 | PNstt | N | 2.00 | 183.10 | SHLE | SLST | gygn+mrn qtz+hem lamb, xbed shle/slst | — | LAMB | — | 90 | |
| 3 | PNh | N | 183.10 | 191.10 | SDST | CGLM | shct mrn bimodal sdst+bsl dlom CGLM | — | — | — | – | |
| 4 | PNhh | Y | 183.10 | 187.40 | SDST | — | shct mrn mg lith xbed sdst+rar ibed slst | — | XBED | — | 80 | |
| 5 | PNh1 | Y | 187.40 | 191.10 | CGLM | — | CGLM sang cl-wht-dlom in mrn slst mtx | — | — | — | – | |
| 6 | PNf | N | 191.10 | 222.80 | SLST | CGLM | shct gry lamb dlom slst + bsl sdst+CGLM | — | — | — | – | |
| 7 | PNft | Y | 191.10 | 219.50 | SLST | DLOM | shct gry lamb sandy slst+ibed wht dlom | — | LAMB | — | 90 | cmn cpy, mnr py |
| 8 | PNft1 | Y | 219.50 | 222.80 | SDST | CGLM | shct mrn sdst +bsl cl-PMye-PM-p | — | — | — | – | |
| 9 | PM-p | N | 222.80 | 286.44 | SDST | SLST | mrn ibed mg-cg sdst + slst | — | IBED | — | – | |
| 10 | PM-p3a | Y | 222.80 | 271.40 | SDST | — | mrn+grn ibed mg hmb sdst+slst+rar cl-grnt | r | — | — | – | org slst = ?tuff |
| 11 | PM-p2 | Y | 271.40 | 277.10 | SLST | SDST | mrn hem slst + mnr ibed sdst | — | — | — | 90 | |
| 12 | PM-p1a | Y | 277.10 | 286.44 | SDST | — | mrn mg hem sdst | — | — | — | 90 | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: SAR- 4 | MAP No: 6335 | UNIT No: 107

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | /Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 12.00 | SAND | CLAY | wht wrnd mg-cg CACTareous qtz sand | --- | --- | --- | -- | |
| 2 | PNstt | N | 12.00 | 201.30 | SHLE | SLST | mrn+grn lamb shle/slst,sandy toward base | --- | LAMB | --- | -- | |
| 3 | PNh | N | 201.30 | 219.40 | SDST | SLST | grct mrn sdst ovr slst ovr grit+bsl brec | --- | --- | --- | 90 | |
| 4 | PNhh | Y | 201.30 | 211.20 | SDST | SLST | grct mrn mg rnd qtz-grv sdst | --- | --- | --- | 90 | |
| 5 | PNh1 | Y | 211.20 | 219.40 | SLST | BREC | mrn slst ovr mrn+gygn grit ovr dlom brec | --- | --- | --- | 90 | rar cpy in mtx+dlom |
| 6 | PNf | N | 219.40 | 315.80 | SLST | SDST | shct ibed slst+dlom ovr sdst+bsl grit | --- | --- | --- | 90 | diss py, rar cpy |
| 7 | PNft | Y | 219.40 | 295.30 | SLST | DLOM | shct ibed blk+gry slst+wht dlom | --- | LAMB | --- | 90 | diss py, rar cpy |
| 8 | PNft1 | Y | 295.30 | 315.80 | SDST | --- | pl gry fg lithic sdst grades to bsl grit | --- | MASS | --- | -- | |
| 9 | PM-p3a | N | 315.80 | 333.40 | SDST | SLST | mrn hem mg sdst+red+grn slst rar qtz,bif | --- | --- | --- | 85 | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV 30/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: SASC- 4 | MAP No: 6335 | UNIT No: 117

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | /Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PNst | N | 0.00 | 360.60 | SHLE | SDST | No decription available | --- | --- | --- | -- | |
| 2 | PNsts | Y | 0.00 | 3.50 | OQZT | --- | No decription available | --- | --- | --- | -- | |
| 3 | PNstc | Y | 3.50 | 130.00 | SDST | --- | No decription available | --- | --- | --- | -- | |
| 4 | PNstt | Y | 130.00 | 360.60 | SHLE | --- | No decription available | --- | --- | --- | -- | |
| 5 | PM-p | N | 360.60 | 519.50 | SDST | CGLM | No decription available | --- | --- | --- | -- | |
| 6 | PM-p | Y | 360.60 | 508.00 | SDST | --- | No decription available | --- | --- | --- | -- | |
| 7 | PM-p1b | Y | 508.00 | 519.50 | CGLM | --- | Hematitic plmc? CGLM with cg sandy? mtx | --- | --- | --- | -- | Wacke-on briefsheet |
| 8 | PMwr1 | N | 519.50 | 1250.00 | BREC | --- | Pnk? CGLM/BREC:cls FSPO +mnr DOLR & SHLE | H | --- | --- | -- | Infr TLUS, wk Cu-U min ANHY Vns |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 5/11/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE NUMBER | DRD-1 | MAP No: | 6336 |
|---|---|---|---|
| | | UNIT No: | 41 |

| | STRATIGRAPHY : GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SAND | REGL | Sand and weathered quartzite | WETH | --- | --- | -- | |
| 2 | PNst | N | 2.00 | 118.00 | SDST | SHLE | Wht SDST & cbrn SHLE | S | --- | --- | -- | |
| 3 | PNsts | Y | 2.00 | 44.00 | SDST | OQTZ | Wht & hard SICTeous SDST | --- | --- | --- | -- | |
| 4 | PNstc | Y | 44.00 | 54.00 | SDST | SHLE | Hred SDST part micaceous & shaley, frbl | --- | --- | --- | -- | |
| 5 | PNstt | Y | 54.00 | 118.00 | SHLE | --- | Cbrn SHLE +blugry bnds | --- | --- | --- | -- | Mnr Cu,Pb bsl enrch |
| 6 | PM-p | N | 118.00 | 1067.65 | SDST | SHLE | Rdbn SDST loc pbly/grty, HMB, +SHLE ibed | --- | --- | --- | -- | |
| 7 | PM-p4 | Y | 118.00 | 710.00 | SDST | ARKS | Hred qtz SDST lsgn hmb pbly arkosic | SH | --- | XBED | 87 | |
| 8 | PM-p3 | Y | 710.00 | 935.00 | SDST | SHLE | Ppbn-pgybn SDST min SHLE hmb min pbly | SH | --- | BED | 90 | |
| 9 | PM-p2 | Y | 935.00 | 970.00 | SHLE | SDST | Bkrd SHLE, min pprd SDST fine-hmb | --- | --- | TBED | 90 | |
| 10 | PM-p1a | Y | 970.00 | 1044.00 | SDST | SHLE | Brn-Or/PPl SDST: min ppl micaeous SHLE | BLCH | --- | --- | 87 | |
| 11 | PM-p1b | Y | 1044.00 | 1067.65 | SDST | SHLE | Yel SDST pbly grt, cbn SHLE CL-HEM MFQV | --- | --- | --- | 87 | |
| 12 | PPl1? | N | 1067.65 | 1108.40 | MCGR | GRNT | Pnk-grn ign/meta txt Q-R-H-rk, Vns Q-H | HMCS | --- | SHRD | -- | Vns Py-Cpy Tr-Ag MMI |
| 13 | PMa10? | N | 1108.40 | 1110.70 | DOLR | --- | Dgrn hrd CHL(AMP?) rk with rlct opht txt | CR | OPHT | --- | 40 | Shearing ass with dyke dyke margins |
| 14 | PPl1? | N | 1110.70 | 1192.00 | MCGR | GRNT | Pnk-grn ign/meta txt qtz-chl-hem rk, QHV | HMCS | --- | SHRD | -- | Vns-Py-Cpy @40-50dg Tr-Ag-Au Rlct ign txt |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE | HWD- | MAP No: | 6336 |
|---|---|---|---|
| NUMBER | 1 | UNIT No: | 42 |

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SOIL | TLUS | Soil & TLUS | — | — | — | -- | |
| 2 | PNst | N | 2.00 | 439.10 | SDST | SLST | Wht-red/pnkbn SDST +undl chbn SLSt/SHLE | — | — | — | 90 | |
| 3 | PNsts | Y | 2.00 | 20.00 | SDST | — | Wht f-mg quartzite | weth | — | — | -- | |
| 4 | PNstc | Y | 20.00 | 243.00 | SDST | SHLE | Wht-pnk/red fbl mg SDST mnr rdbn-grn SHLE | weth | — | — | -- | |
| 5 | PNstt | Y | 243.00 | 439.10 | SHLE | SLST | Chbn-gy(mnr) SHLE +lbrn SLST-XBED/WBED | — | — | — | 90 | |
| 6 | PNsn | N | 439.10 | 440.50 | DLOM | SHLE | Crm MBED DLOM l/MBED shp bas-cnct | — | — | — | 90 | |
| 7 | PNh | N | 440.50 | 584.30 | SDST | BREC | Gy-pnk SDST bsl Hbn BREC +DLOM-clst | — | — | — | 85 | |
| 8 | PNhh | Y | 440.50 | 577.20 | SDST | — | Gy-pnk(mnr) f-cg(+bnls) SDST | — | — | — | 85 | |
| 9 | PNh2 | Y | 577.20 | 584.30 | SDST | BREC | Hbn f-cg +DOLM fragments | — | — | — | 85 | |
| 10 | PNf | N | 584.30 | 861.20 | SHLE | SDST | Gry-wht dolomitic SHLE & basl pnk SDST seq. | — | — | — | 85 | |
| 11 | PNfh | Y | 584.30 | 592.70 | DLOM | — | Crm/wht +qtz sand mnr-clastic-DLOM | — | — | — | 85 | |
| 12 | PNft | Y | 592.70 | 839.70 | SHLE | SLST | Gy SHLE mnr-SLST, DLOM-bnds | — | — | — | 88 | Subv vns-DOL-Py |
| 13 | PNft1 | Y | 839.70 | 861.20 | SDST | CGLM | Brn mica f-mg QTZ SDST +mnr sebr-hmtx | H | — | — | 90 | |
| 14 | PMa | N | 861.20 | 1097.15 | FEXT | BREC | Pnk-brn FEXT & FEXT-BREC, veined & altered | SH | VTBR | IBED | -- | |
| 15 | PMa11 | Y | 861.20 | 866.40 | BREC | FEXT | Pnk/rdbn bnd int FEXT-BREC(fgmono-vcgplmc) | HCS | VTBR | IBED | 60 | Mnr Vugs/Vnlt-CRB |
| 16 | PMa11 | Y | 866.40 | 887.50 | FEXT | BREC | Pnk v/g bnd FEXT, BREC <1.0mth | HS | SEBR | IBED | 60 | Vn-HEM, frac-Py/Bn |
| 17 | PMa11 | Y | 887.50 | 897.20 | BREC | FEXT | Pnk-brn FEXT +mnr QTZ clst in HEM mtx | HS | SEBR | — | -- | Vn-HEM, diss-Py/Bn |
| 18 | PMa11 | Y | 897.20 | 1023.00 | FEXT | — | Mordbn FSPO-FEXT phxt-KFELD QTZ&HEM-V | SHR | MASS | CBND | 40 | Blebs/Vns-Bn/Cpy |
| 19 | PMa11 | Y | 1023.00 | 1097.15 | FEXT | BREC | Rdbn FEXT +BREC zns<10cm, HEM-VEIN-BREC | SH | frbr | CBND | 40 | Diss/vns-Py |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| HOLE | RED- | MAP No: | 6336 |
|---|---|---|---|
| NUMBER | 1 | UNIT No: | 43 |

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SOIL | CLAY | Brn CLAY-SOIL + wht OQZT pbls: lag-REGL | — | — | — | -- | |
| 2 | PNst | N | 2.00 | 290.00 | SDST | SHLE | Wht-Brn SDST/SHLE & chbn SLST/SHLE | — | — | — | -- | |
| 3 | PNstc | Y | 2.00 | 120.00 | SDST | SHLE | Gry-grn SDST +mnr grn-brn SHLE ibed | — | — | IBED | -- | |
| 4 | PNstt | Y | 120.00 | 290.00 | SLST | SHLE | Chbn SLST/SHLE +mnr gry bnds | — | — | — | -- | Upr grct |
| 5 | PNh2? | N | 290.00 | 296.95 | BREC | — | Pnk-rdbn mtxsup BREC:ang FEXT, rd fg mtx | — | — | — | -- | |
| 6 | PMa | N | 296.95 | 410.00 | DACT | — | Pnk porp DACT: phxt grgn-PLAG & MAFC | SHRQ | PORP | — | -- | Vns Mt-H-C-Py-Cpy-KF |
| 7 | PMa | Y | 296.95 | 341.30 | DACT | — | Pnk porp DACT: phxt grgn-PLAG & MAFC | SHRQ | PORP | — | -- | Vns Mt-H-C-Py-Cpy-KF |
| 8 | PMa12? | Y | 341.30 | 385.00 | DOLR | — | Gygn mass fg DOLR: T&Bchmg FELD-dsty-HEM | H | — | DYKE | 20 | Vns C,R, diss Cpy,Mt |
| 9 | PMa | Y | 385.00 | 410.00 | DACT | — | Pnk porp DACT: phxt grgn-PLAG & MAFC | H | — | — | -- | Vns CRB,frac CHL-HE |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 22/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: RED-2 | MAP No: 6336 | UNIT No: 44

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PNwy2 | N | 0.00 | 52.00 | SLST | SHLE | Gygn-brn SLST +mnr fg OQZT ibed:ox surfce | weth | --- | --- | -- | Weth yel-brn |
| 2 | PNst | N | 52.00 | 326.93 | SDST | SHLE | Wht-brn SDST/SHLE & chbn SHLE/SLST | --- | --- | --- | -- | |
| 3 | PNsts | Y | 52.00 | 106.00 | SDST | SHLE | Wht-gry-grn SDST +mnr brn-grn SHLE | --- | --- | --- | -- | |
| 4 | PNstc | Y | 106.00 | 114.00 | SDST | SHLE | Brn-grn(specl) SDST +grn-brn SHLE | --- | --- | --- | -- | |
| 5 | PNstt | Y | 114.00 | 304.65 | SLST | SHLE | Brn-grn/gry SHLE/SLST | --- | --- | --- | 85 | |
| 6 | PNsn | N | 304.65 | 306.93 | DLOM | SHLE | Crm mass DLOM:bsl sandy fces(rwkd sbstr) | --- | --- | --- | 90 | |
| 7 | PNh2? | N | 306.93 | 310.61 | BREC | DIMC | Pnk-rdbn DIMC/BREC:ang FINT in rd fg mtx | --- | --- | --- | -- | Bsl cntct 70Dg |
| 8 | PMa | N | 310.61 | 686.90 | FINT | FSPO | Pnk/rd f-mg K/Na-Ca FLD subvolc int | --- | PORP | --- | -- | Mnr QTZ |
| 9 | PMa13 | Y | 310.61 | 665.56 | MONZ | FSPO | Pnk/rd-grn KFLD-PLAG(ser) PORP +MAFC(chl) | HRS | PORP | --- | -- | Vn Py-R-C-Hdiss Py/Cp |
| 10 | PMa13 | Y | 665.56 | 666.75 | SYEN | GRNT | Pnk/rd? lowK-highNaFLD-PLAG-QTZ cg FINT | --- | --- | --- | -- | "Syenogranite" |
| 11 | PMa13 | Y | 666.75 | 675.65 | MONZ | FSPO | Pnk/rd-grn m-cg KFLD-PLAG PORP | --- | PORP | --- | -- | Frac/vn Py |
| 12 | PMa13 | Y | 675.65 | 683.13 | SYEN | GRNT | Pnk/rd? lowK-highNaFLD-PLAG-QTZ cg FINT | --- | --- | --- | -- | "Syenogranite" |
| 13 | PMa13 | Y | 683.13 | 686.90 | MONZ | FSPO | Pnk/rd-grn m-cg KFLD-PLAG PORP:loc SYGN? | --- | PORP | --- | -- | Frac/vn Py |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 22/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: WLD-1 | MAP No: 6336 | UNIT No: 45

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PNst | N | 0.00 | 225.00 | SDST | SHLE | Wht-brn SDST & brn-grn SHLE/SLST ibed | --- | --- | --- | -- | |
| 2 | PNsts | Y | 0.00 | 68.00 | SDST | SHLE | Wht-gygn SDST +mnr chbn-grn SHLE | weth | --- | --- | -- | weth <50m SHLE=CLA |
| 3 | PNstt? | Y | 68.00 | 77.50 | SHLE | SDST | Chbn SHLE + wht-grn SDST | --- | --- | --- | -- | |
| 4 | PNsts | Y | 77.50 | 88.00 | SDST | SHLE | Wht-gn SDST +mnr brn-gry SHLE/SLST | --- | --- | --- | -- | |
| 5 | PNstt | Y | 88.00 | 225.00 | SHLE | SLST | Chbn-gygn(mnr) SHLE/SLST | --- | --- | --- | -- | |
| 6 | PMh9 | N | 225.00 | 445.50 | GRNT | FSPO | Pnk porp GRNT ALBT(phxt)-PLAG-QTZ-BIOT | HRS | PORP | --- | -- | Vns/frac Q-R-C-Py-Cpy |
| 7 | PMh9 | Y | 225.00 | 306.40 | GRNT | FSPO | Pnk porp GRNT ALBT-PLAG-QTZ-BIOT:alt-FLD | HR | PORP | SHRD | 5 | Vns C(SIDR)-F-Cpy\|\|S phxt < 8cm |
| 8 | PMh9 | Y | 306.40 | 321.40 | GRNT | FSPO | Pnk porp GRNT ALBT-PLAG-QTZ-BIOT:alt-FLD | HSR | PORP | FRAC | 70 | Vns R-F-C(SIDR)-H dilat brec @313m |
| 9 | PMh9 | Y | 321.40 | 364.90 | GRNT | FSPO | Pnk porp GRNT ALBT-PLAG-QTZ-BIOT:alt-FLD | HSR | PORP | --- | -- | Vns C(SIDR)-H-S-Py-M phxt <8cm |
| 10 | PMh9 | Y | 364.90 | 371.20 | GRNT | FSPO | Pnk porp GRNT ALBT-PLAG-QTZ-BIOT:alt-FLD | --- | --- | SHRD | 45 | Vns mnr CRB \|\| SHRZ Mt-Py-H in FOLI |
| 11 | PMh9 | Y | 371.20 | 391.20 | GRNT | FSPO | Pnk porp GRNT ALBT-PLAG-QTZ-BIOT:alt-FLD | RS | PORP | --- | -- | Vns C-BART-Py-H-Cpy 1.5cm vn @376.2m |
| 12 | PMh9 | Y | 391.20 | 406.00 | GRNT | FSPO | Pnk porp GRNT ALBT-PLAG-QTZ-BIOT:alt-FLD | HR | PORP | SHRD | 10 | Vns Mt-Py GRNT dyke 60 cm @392.3m |
| 13 | PMh9 | Y | 406.00 | 422.90 | GRNT | FSPO | Pnk porp GRNT ALBT-PLAG-QTZ-BIOT:alt-FLD | HR | PORP | --- | -- | Vns H-S: R-FLD-Q rk 10cm @418.2m=dyke? |
| 14 | PMh9 | Y | 422.90 | 445.50 | GRNT | FSPO | Pnk porp GRNT ALBT-PLAG-QTZ-BIOT:alt-FLD | HSR | PORP | --- | -- | Vns Q-H-S-Mt-Py-CRB :phxt <6cm |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 28/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY | HOLE NUMBER: BLD-1 | MAP No: 6337 | UNIT No: 57

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Eha | N | 0.00 | 18.00 | LMST | SLST | Wht-crm/gry silic LMST +tr red SLST | — | — | — | – | Supf ven red dune SAN |
| 2 | PNwy | N | 18.00 | 140.00 | SLST | SDST | Rdbn-grn SHLE/SLST & brn/wht/grn OQZT | — | — | — | – | |
| 3 | PNwy1 | Y | 18.00 | 42.00 | SHLE | SLST | Rdbn-grn SHLE/SLST | — | — | — | – | |
| 4 | PNwy2 | Y | 42.00 | 140.00 | SLST | SDST | Rdbn-grn SHLE/SLST & wht-grn/brn fg OQZT | — | — | IBED | – | QITE-micaceous |
| 5 | PNst | N | 140.00 | 512.28 | SDST | SHLE | Wht-brn SDST/SLST +undly Chbn SHLE/SLST | — | MBED | TBED | – | |
| 6 | PNsts | Y | 140.00 | 294.16 | SDST | SLST | Wht-brn/pnk/grn fg OQZT +mnr brn SLST | — | MASS | XBED | – | SHLE intclst: Py @280m |
| 7 | PNstc | Y | 294.16 | 304.69 | SDST | — | Brn fg mass SDST: loc XBED upr portn | — | MASS | TBED | – | |
| 8 | PNstt | Y | 304.69 | 512.28 | SHLE | SLST | Chbn-gry SHLE:gry bnd less comn to depth | — | — | TBED | 90 | |
| 9 | PNsn | N | 512.28 | 515.25 | DLOM | SHLE | Buf-gry mass DLOM +bsl rd/gn SHLE | — | — | — | – | Py |
| 10 | PNh3? | N | 515.25 | 522.80 | BREC | — | Rdbn-grn? plmc BREC: clst GBBR-QTZ-GRNT? | — | — | — | – | Diss Py in GBBR clst<br>Mobile clsts |
| 11 | PN? | N | 522.80 | 525.22 | BREC | — | Gry-grn fg GBBR: breccia-genesis? | — | — | — | – | Poss indur REGL brec ?<br>Insitu clst? |
| 12 | PM1 | N | 525.22 | 768.00 | GBBR | ANTO | Dkgrn mass intrs GBBR into plgry ANTH | HRCE | — | — | – | Igneous complex |
| 13 | PM1f | Y | 525.22 | 554.00 | ANTO | GBBR | Plgry-grn f-m-cg ANTH/GBBR:Pnk alt-FELD | HR | — | SHRZ | 30 | Alt patchy |
| 14 | PM1m | Y | 554.00 | 584.85 | GBBR | ANTO | Dkgrn mass f-mg GBBR/ANTH:Pnk alt-FELD | H | — | SHRZ | 30 | Vns fgPy @30;cliss LUC |
| 15 | PM1f | Y | 584.85 | 588.10 | ANTO | GBBR | Plgry-grn f-m-cg ANTH/GBBR:Pnk alt-FELD | — | — | — | – | Diss Py 2-3?%,DACT dy |
| 16 | PM1m | Y | 588.10 | 617.00 | GBBR | ANTO | Dkgrn mass f-mg GBBR/ANTH:Pnk alt-FELD | CER | — | — | – | Tr fg Py,Cpy;vns Q-C |
| 17 | PM1f | Y | 617.00 | 659.60 | ANTO | GBBR | Plgry-grn f-m-cg ANTH/GBBR:Pnk alt-FELD | CER | — | SHRZ | – | Vn/frac CRB-QTZ/Cpy |
| 18 | PM1m | Y | 659.60 | 679.33 | GBBR | ANTO | Dkgrn mass f-mg GBBR/ANTH:Chld upr mgn | — | — | — | – | Mnr thn vns CRB |
| 19 | PM1f | Y | 679.33 | 698.42 | ANTO | GBBR | Plgry-grn f-m-cg ANTH/GBBR:Chld? upr mgn | SERH | — | SHRZ | – | Tr dis Py,diss? MAGT10 |
| 20 | PM1m | Y | 698.42 | 701.99 | GBBR | ANTO | Dkgrn mass mg GBBR/ANTH | — | — | — | – | |
| 21 | PMa | Y | 701.99 | 716.48 | DACT | — | Plbrd(gr gn mass vfg DACT:phxt FELD-QTZ | H | PORP | DYKE | 50 | Incnts fract/alt/vned |
| 22 | PM1m | Y | 716.48 | 728.15 | GBBR | ANTO | Dkgrn mass mg GBBR/ANTH:diss? MAGT patch | HR | — | — | – | |
| 23 | PM1f | Y | 728.15 | 736.25 | ANTO | GBBR | Plgry-grn f-m-cg ANTH/GBBR:loc MAGT aggr | SERH | — | — | – | Tr diss? Py |
| 24 | PM1m | Y | 736.25 | 748.00 | GBBR | ANTO | Dkgrn mass mg GBBR/ANTH:loc wht FELD agg | HR | — | — | – | |
| 25 | PM1f | Y | 748.00 | 749.70 | ANTO | GBBR | Plgry-grn f-m-cg ANTH/GBBR: | B | — | — | – | |
| 26 | PM1m | Y | 749.70 | 768.00 | GBBR | ANTO | Dkgrn mg GBBR/ANTH:vns Q-F-R-C, cg MAGT | B | — | SHRZ | – | Frac/shrz-dyke-DACT? |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 17/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER BLD-2 | MAP No: 6337 | UNIT No: 58

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | CLAY | RUBL | Org CLAY & RUBL of silic-LMST +OQZT | — | — | — | – | |
| 2 | Eha | N | 2.00 | 36.00 | LMST | — | Plbn-buf silic LMST: weth <4m | weth | — | — | – | T: Pb enrich |
| 3 | PNwy | N | 36.00 | 152.00 | SLST | SDST | Ppl-plbn-wht/blu fg mica SLST +mnr SDST | — | — | LBED | – | |
| 4 | PNst | N | 152.00 | 637.00 | SDST | SHLE | Brn-wht-grn SDST ovly chbn-gygn SHLE | — | IBED | LBED | – | Mnr SDST inbd in SHLE |
| 5 | PNsts | Y | 152.00 | 362.00 | SDST | SHLE | Brn-wht mass mg SDST: Q-cmt +mnr SHLE | S | MASS | IBED | – | XBED intvl,inbds <5mm |
| 6 | PNstc | Y | 362.00 | 374.30 | SDST | — | Bkrd/pplbn-grn mass SDST: >90% QTZ | — | — | — | – | |
| 7 | PNstt | Y | 374.30 | 637.00 | SHLE | SDST | Ch/pplbn-grygn SHALE + sandy zns <520m | — | LBED | XBED | 85 | |
| 8 | PNsm | N | 637.00 | 646.20 | DLOM | SHLE | Brn-buf-wht lam & mass dolomitic SHLE | — | MASS | LBED | – | |
| 9 | PNh3? | N | 646.20 | 650.85 | CGLM | — | Plgn plmc CGLM:mtx-cg,cls MEXT-FEXT-GRNT | — | DIMC | — | – | Mtx-sandy-hemtic/QTZ: |
| 10 | PM-p? | N | 650.85 | 696.70 | SDST | CGLM | Plgy-grn SDST & CGLM: cls GRNT & IEXT | — | BED | XBED | – | |
| 11 | PM-p1a | Y | 650.85 | 690.30 | SDST | CGLM | Plgry grty SDST + monm CGLM:clst-GRNT | — | BED | XBED | 87 | |
| 12 | PM-p1b | Y | 690.30 | 696.70 | CGLM | SDST | Grn-gry plmc CGLM: clst<0.1m GRNT-IEXT | — | — | — | – | Mtx SAND +mnr SHLE |
| 13 | PMh | N | 696.70 | 860.25 | GRNT | MCGR | Pnk f-cg GRNT/MCGR+f-mg APLT:loc TEBR/alt | HRSC | TEBR | SHRZ | – | APLT=dykes, Meggabre |
| 14 | PMh4 | Y | 696.70 | 767.85 | GRNT | BREC | Pnk? m-cg GRNT & GRNT-BREC QTZ-KFLD-BIO | HRSC | — | SHRZ | 20 | Alt-irr:clst-MEXT-QTZ |
| 15 | PM? | N | 767.85 | 770.28 | TEBR | UNKN | Pnk-grn? UNKN-HEM-CHR rock, iwr grdent | — | — | SHRZ | 70 | |
| 16 | PMh5 | Y | 770.28 | 799.80 | GRNT | APLT | Pnk? c-(m)g GRNT +mnr APLT 1m@791m | RS | — | — | – | |
| 17 | PMh7 | Y | 799.80 | 803.65 | APLT | — | Red mass f-mg APLT: KFLD>>QTZ+CHR: MAGT | — | — | DYKE | 70 | |
| 18 | PMh5 | Y | 803.65 | 840.00 | GRNT | — | Pnk? m-cg GRNT: "dusty" diss HEM/MAGT | HRS | — | — | – | Vns Q-R, diss Py-MAGT |
| 19 | PMh6 | Y | 840.00 | 860.25 | MCGR | BREC | Pnk? f-mg MCGR: mnr KFLD phxt, loc BREC | H | — | BREC | – | Vns Q-R,low mtx brec |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 20/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE . BLD-
NUMBER: 3
MAP No: 6337
UNIT No: 59

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | PAGE 1/2 |
| 1 | Q | N | 0.00 | 4.00 | SAND | MUD | Gry-rdbn? SAND/MUD/CLAY:contemp lake deps | — | — | — | – | Acc GYPS |
| 2 | Eha | N | 4.00 | 82.00 | LMST | DLOM | Brn-wht-grgn silic dlom LMST +mnr OQZT? | — | — | — | – | Tr diss Py |
| 3 | PNwy | N | 82.00 | 172.00 | SHLE | — | Chbn-grn SHLE; grn alt is cross cutting | — | — | LBED | – | |
| 4 | PNwb | N | 172.00 | 300.00 | SHLE | SDST | Chbn-grn SLST/SHLE+mnr thn wht SDST ibed | — | — | IBED | – | SDST usually <30%, <1 |
| 5 | PNst | N | 300.00 | 756.55 | SDST | SHLE | Brn-wht f-mg SDST ovly chbn SHLE/SLST | — | XBED | TBED | 90 | Mnr SHLE ibed in SDST |
| 6 | PNsts | Y | 300.00 | 447.30 | SDST | SHLE | Ltbn-wht f-mg SDST +brn-grn SHLE/SLST | — | XBED | TBED | 90 | loc TBRC-vns ANHY-Py |
| 7 | PNstc | Y | 447.30 | 470.70 | SDST | SHLE | Brn f-mg SDST +mnr SHLE/SLST ibed/laminae | — | XBED | TBED | – | |
| 8 | PNstt | Y | 470.70 | 756.55 | SHLE | SLST | Chbn-gry SHLE/SLST +mnr SDST ibed <510m | — | TBED | LBED | 85 | Loc BART vns, XBEDs |
| 9 | PNsm | N | 756.55 | 759.32 | DLOM | SHLE | Ltbn-crm DLOM + thin rdbn SHLE lamiae | — | — | TBED | – | Irreg bed tops |
| 10 | PNh1? | N | 759.32 | 775.00 | SLST | CGLM | Brn pbbly SLST/SDST & CGLM:QTZ-FEXT-MEXT | — | — | BED | – | Discnf base |
| 11 | PNfh | N | 775.00 | 793.90 | DLOM | SHLE | Rd/ltbn-gry fg xtl strm DLOM: mnr SHLE | — | — | TBED | 90 | Nodls-ANHY, frac-Cpy |
| 12 | PNft | N | 793.90 | 871.67 | SHLE | DLOM | Lt-dkgry fg dolomt SHLE/SLST | — | — | LBED | 90 | Basl DLOM frm 869.3m |
| 13 | PNft1 | N | 871.67 | 872.00 | CGLM | — | Varig? plmc CGLM: clst:-GBBR-GRNT? | — | — | — | – | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 22/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER BLD-3 | MAP No: 6337 | UNIT No: 59

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | PAGE 2/2 |
| 14 | PM1m | N | 872.00 | 875.85 | GBBR | --- | Dkgrn mg GBBR: fg to depth,upr 1.5m alt | --- | MASS | --- | -- | mnr diss vfg Py |
| 15 | PMh5 | N | 875.85 | 877.65 | GRNT | --- | Pnk? mg GRNT QTZ-KFLD(rnd)-PLAG(ser)-CHL | RS | --- | FOLI | 20 | |
| 16 | PM1m | N | 877.65 | 878.77 | GBBR | --- | Dkgrn? mass alt GBBR: AMPH-PLAG-BIOT | ? | --- | --- | -- | |
| 17 | PM1h | N | 878.77 | 881.10 | GRNT | GBBR | Pnk-grn GRNT-GBBR alt & fractd hybrd rk | ? | --- | --- | -- | Mass fg pnk KFLD |
| 18 | PMh5 | N | 881.10 | 884.10 | GRNT | --- | Pnk wk FOLI GRNT:KFLD(hem)-PLAG(ser)-CHL | --- | --- | FOLI | 35 | QTZ-rextl |
| 19 | PMh8 | N | 884.10 | 887.20 | FSPO | --- | Pnk f-mg GRNT-PORP: phxt KFLD(rnd) <2cm | --- | MASS | --- | -- | |
| 20 | PM1m | N | 887.20 | 900.00 | GBBR | --- | Grn m-cg (lyr?<5cm) GBBR: AMPH-FELD | R | --- | LAYR | -- | Vns mnr thin CHL-DOL |
| 21 | PMh5 | N | 900.00 | 902.50 | GRNT | --- | Pnk mg GRNT: QTZ-KFLD(hem)-PLAG-CHL | --- | MASS | --- | -- | Lwr cnt @25Dg |
| 22 | PM1n | N | 902.50 | 907.20 | GBBR | --- | Dkgrn? fg GBBR; AMPH-PLAG +mnr BIOT | HK | MASS | --- | -- | Vns HEM, CRB |
| 23 | PMh5 | N | 907.20 | 910.45 | GRNT | --- | Pnk mg GRNT: QTZ-KFLD(hem-ser)-PLAG-CHL | SH | MASS | --- | -- | Upr CNt @30Dg,tr Cp |
| 24 | PM1h | N | 910.45 | 918.53 | GBBR | HYBR | Pnk fg PORP QTZ-KFLD GBBR diff/hybrd rk? | HS | MASS | FOLI | 40 | Mg zns,vns CRB-Py,TOU |
| 25 | PMa12 | N | 918.53 | 920.40 | DOLR | --- | Pnk-grn mass fg DOLR: pnk KFLD-CHL alt | HKR | MASS | --- | -- | Vns DOL, t&bchm |
| 26 | PM1n | N | 920.40 | 929.10 | GBBR | --- | Dkgrn? mass fg GBBR; CHL alt | R | MASS | --- | -- | Vns QTZ-CRB, KFLD |
| 27 | PM1h | N | 929.10 | 939.45 | GBBR | HYBR | Dkgrn-pnk f-mg GBBR:pnk phxt KFLD,"GRNT" | KRH | MASS | --- | -- | Vns-HEM,KFELD-QTZ |
| 28 | PMa12 | N | 939.45 | 943.50 | DOLR | --- | Dkgrn? vf-fg DOLR: t&bchm | R | MASS | FOLI | 30 | Vns CRB,CRB-HEM |
| 29 | PM1h | N | 943.50 | 954.00 | GBBR | HYBR | Dkgrn-pnk f-mg GBBR:"GRNT" QTZ-CHL-alt | QR | MASS | --- | -- | Vns CRB,QTZ,Cpy |
| 30 | PM1n | N | 954.00 | 956.00 | GBBR | --- | Dkgrn fg GBBR: +KFLD | --- | --- | --- | -- | |
| 31 | PMa12 | N | 956.00 | 959.80 | DOLR | --- | Dkgrn? fg DOLR: t&b vfg mgn | --- | --- | --- | 35 | Vns CRB, Shrd cnts |
| 32 | PM1h | N | 959.80 | 962.10 | GBBR | HYBR | Dkgrn-pnk f-mg GBBR:"GRNT" QTZ-CHL-alt | --- | MASS | --- | -- | Vns CRB,HEM:Phen-KF |
| 33 | PMa12 | N | 962.10 | 962.80 | DOLR | --- | Dkgrn? vf-fg DOLR | R | --- | --- | 30 | Vns CRB, Shrd cnts |
| 34 | PM1h | N | 962.80 | 971.35 | GBBR | HYBR | Dkgrn? fg GBBR:"GRNT" QTZ-CHL-KFLD alt | QRKS | MASS | FOLI | -- | Vns CRB |
| 35 | PMa12 | N | 971.35 | 980.30 | DOLR | --- | Dkgrn? fg DOLR: t&bchm, unalt! | --- | MASS | --- | -- | Vns CRB |
| 36 | PM1h | N | 980.30 | 993.35 | GBBR | HYBR | Dkgrn-pnk mg GBBR:phxt pnk-wht-KFLD,BIOT | K | MASS | --- | -- | Vns QTZ-CRB,Py-HEM |
| 37 | PM1m | N | 993.35 | 1006.30 | GBBR | --- | Dkgrn mg? GBBR +mnr pnk KFLD, BIOT clts | --- | MASS | --- | -- | Vns CRB |
| 38 | PM1h | N | 1006.30 | 1008.63 | GBBR | HYBR | Pnk fg GBBR:"SYEN" KFLD-PLAG- | R | MASS | --- | -- | Vnlts CRB |
| 39 | PMa12 | N | 1008.63 | 1010.20 | DOLR | --- | Dkgrn? vfg DOLR: stng CHR alt, xeno-fels | R | --- | --- | -- | |
| 40 | PM1h | N | 1010.20 | 1018.20 | GBBR | HYBR | Dkgrn f-mg GBBR:meso-KFLD-LEUX | HR | MASS | --- | -- | Vns CRB |
| 41 | PMh5 | N | 1018.20 | 1024.00 | GRNT | --- | Pnk m-cg GRNT QTZ(fldrms)-KFEL(hemrms) | --- | MASS | --- | -- | Vns CRB+CHL selvedge |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 22/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER BLD-4 | MAP No: 6337 | UNIT No: 60

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SAND | CLAY | red loamy sand+mnr brn and grn clay | — | — | — | – | |
| 2 | Eha | N | 2.00 | 100.00 | LMST | — | wht pnk gry+brn fg lmst | — | — | — | – | |
| 3 | PNwy | N | 100.00 | 208.00 | SHLE | SLST | chbn+grgn lamb shle and slst | — | — | — | – | |
| 4 | PNst | N | 208.00 | 806.00 | SDST | SHLE | brn to buf ibed slst+sdst over rbrn shle | — | — | — | – | |
| 5 | PNsts | Y | 208.00 | 480.28 | SLST | SDST | chbn slst+shle ibed buf to brn xbed sdst | — | XBED | — | 75 | |
| 6 | PNstc | Y | 480.28 | 504.49 | SDST | — | brn pcrt sdst xbed-mbed with rare shle | — | XBED | — | 75 | |
| 7 | PNstt | Y | 504.49 | 806.00 | SHLE | SLST | ibed tbed rbrn shle+xbed slst+mnr sdst | — | XBED | — | 85 | |
| 8 | PNh | N | 806.00 | 818.67 | DIMC | ARNT | cl-grnt-vole in silty mtx ovr rbrn arnt | — | — | — | 90 | |
| 9 | PNhlr | Y | 806.00 | 816.30 | DIMC | SLST | dimc rnd-sang pbl cl-grnt-vole in slst | — | — | — | 85 | |
| 10 | PNhw? | Y | 816.30 | 818.67 | ARNT | — | rbrn xbed arnt | — | XBED | — | 90 | PNh? in original log |
| 11 | PNft | N | 818.67 | 957.68 | SHLE | DLOM | gblk slst to shle+thin gwht dlom layers | — | — | — | 90 | mnr fg py |
| 12 | PNua | N | 957.68 | 968.66 | DIMC | SLST | cbl wrnd pcrt cl-grnt-vole ovr gygn slst | — | — | — | – | |
| 13 | PNb | N | 968.66 | 1037.00 | OQZT | MAGN | gyblk oqzt/slst ibed ovly magn/slst ibed | — | IBED | — | 85 | |
| 14 | PNb? | Y | 968.66 | 994.20 | OQZT | SLST | tbed ibed mic OQZT+ibed gblk slst | — | IBED | — | 85 | |
| 15 | PNb? | Y | 994.20 | 1037.00 | MAGN | SLST | ibed nodl Q magn+tbed gblk slst+mnr SEBR | — | IBED | — | – | ? skillogalee dolomite |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV 30/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SCYW-1A - | MAP No: 6337 | UNIT No: 56

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | E | N | 0.00 | 196.20 | SHLE | LMST | Brn-grn shle/slst ovly gywt lmst/dlom | --- | IBED | --- | -- | Carb rks vuggy |
| 2 | Eoy | Y | 0.00 | 28.47 | SHLE | SLST | ibed brn mass-banded shle+grn mbed slst | --- | IBED | --- | -- | |
| 3 | Eha | Y | 28.47 | 196.20 | LMST | SLST | mass-vug gwht lmst+crm dlom slst/shle | --- | --- | --- | -- | tr py in vughs/fracs |
| 4 | PNwy | N | 196.20 | 386.57 | SHLE | SLST | ibed dk brn shle+gygn cubd slst | --- | CUBD | --- | -- | |
| 5 | PNst | N | 386.57 | 1039.30 | SHLE | SDST | gygn shle+sdst ovr brn sdst ovr brn shle | --- | IBED | --- | -- | tr py,cpy |
| 6 | PNsts | Y | 386.57 | 539.45 | SHLE | SDST | ibed gygn+mnr brn silty shle+sdst+slst | --- | IBED | --- | -- | tr py,cpy |
| 7 | PNstc | Y | 539.45 | 732.29 | SDST | SLST | ibed brn+mnr gry slst+cubd-mass sdst | --- | CUBD | --- | -- | tr py |
| 8 | PNstt | Y | 732.29 | 1039.30 | SHLE | SLST | ibed brn+grn shle+mnr xbed slst | --- | XBED | --- | -- | tr py,cpy |
| 9 | PNh | N | 1039.30 | 1143.79 | SDST | SHLE | gnbn cg-fg sdst ovr ibed shle+sdst | --- | --- | --- | -- | |
| 10 | PNhh | Y | 1039.30 | 1077.28 | SDST | GRIT | gry-gnbn cg-fg sang-wrnd lith sdst/grit | --- | XBED | --- | -- | |
| 11 | PNha | Y | 1077.28 | 1143.79 | SHLE | SDST | ibed brn shle+fg grn sdst+bsl clc shle | --- | IBED | --- | -- | |
| 12 | PNf | N | 1143.79 | 1372.95 | SLST | DLOM | gry strm dlom ovr gry slst+mnr bsl dlom | --- | --- | --- | -- | |
| 13 | PNfh | Y | 1143.79 | 1188.63 | DLOM | --- | gry strm dlom+gry fg sdst frf (mcrk?) | --- | STRM | --- | -- | mnr py |
| 14 | PNft | Y | 1188.63 | 1355.00 | SLST | DLOM | dk gry slst mnr xbed + mnr gry strm dlom | --- | --- | --- | -- | mnr bedded+diss py,cpy |
| 15 | PNftw? | Y | 1355.00 | 1372.95 | SLST | DLOM | grct dk gry slst-shle+num ibed thin dlom | --- | IBED | --- | -- | ?diss py |
| 16 | PNua | N | 1372.95 | 1450.00 | TILL | SDST | shct gry mud+sdst+till cl-shle-grnt-ards | --- | MASS | --- | -- | py in cl,spl around cl |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SHD-1 | MAP No: 6337 | UNIT No: 55

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 2.00 | SAND | CACT | Org SAND & CACT +mnrCLAY | — | — | — | – | |
| 2 | K | N | 2.00 | 18.00 | CLAY | SDST | Ylbn-kaki CLAY/MDST & SDST/CLAY | — | — | — | – | |
| 3 | K | Y | 2.00 | 12.00 | CLAY | MDST | Yel-buf CLAY & MDST | — | — | — | – | |
| 4 | K | Y | 12.00 | 18.00 | SDST | CLAY | Tan-brn SDST +CLAY kaki+gnl toward base | — | — | — | – | |
| 5 | E | N | 18.00 | 254.50 | SHLE | DLOM | Ppl-dbn SHLE & dk/plgy-crm DLOM | weth | MASS | LAMB | – | |
| 6 | Eoy | Y | 18.00 | 108.00 | SHLE | CLAY | Ppl-chbn mnr blgn SHLE, weth above 70m | weth | — | — | – | |
| 7 | Eha | Y | 108.00 | 254.50 | DLOM | SDST | Dk/plgy-crm MASS/TLAM xtl DLOM +mnrSHLE | — | STY | WBED | 90 | |
| 8 | PNwy1 | N | 254.50 | 264.90 | SHLE | — | Rdbn mnr grn-bnds, ppbn toward base | — | — | TBED | 90 | |
| 9 | PNst | N | 264.90 | 770.40 | SDST | SHLE | Brn-wht SDST & ppbn SHLE/SLST | — | — | BED | 90 | |
| 10 | PNstc | Y | 264.90 | 534.00 | SDST | SHLE | Brn-wht SDST & rdbn mnr +grn SLST/SHLE | — | — | LAMB | – | |
| 11 | PNstt | Y | 534.00 | 770.40 | SHLE | SLST | Ppbn mnr grh SHLE/SLST & mnr SDST | — | — | IBED | 90 | |
| 12 | PNsn | N | 770.40 | 776.67 | DLOM | SHLE | Crm-Pnk DLOM & rdbn SHLE laminae | — | — | IBED | 90 | |
| 13 | PNf | N | 776.67 | 829.60 | SHLE | SDST | Gry SHLE/DLOM +bsi SDST/BREC | — | — | BED | – | |
| 14 | PNft | Y | 776.67 | 827.40 | SHLE | DLOM | Gry SHLE +lgry DLOM-laminated/nodular | — | — | LAMB | 90 | Mnr diss-Cpy-Py |
| 15 | PNft1 | Y | 827.40 | 829.60 | SDST | BREC | Wht-lbrn SSDST mnr SHLE, sebr GRN/FEXT | — | — | BED | – | |
| 16 | PPh | N | 829.60 | 965.00 | GNSS | SCHT | Pnk/grn Q-FLD-R GNSS BIOT SCHT & Q-F PEGD | — | — | — | – | |
| 17 | PPh1 | Y | 829.60 | 852.05 | GNSS | — | Pnk/grn fg QTZ-FELD-CHL | HSR | FOLI | — | 55 | Mnr TOUR/CHR in shrs |
| 18 | PPh2 | Y | 852.05 | 858.00 | PEGD | — | Pnk mg QTZ-FELD +mnr MUS | H | — | — | – | |
| 19 | PPh1 | Y | 858.00 | 898.10 | GNSS | — | Pnk QTZ-FELD-BIOT-CHL | HRS | FOLI | CBND | – | |
| 20 | PPh1 | Y | 898.10 | 903.00 | SCHT | — | ?? fg BIOT mnr QTZ-FELD ?SILL | — | FOLI | — | 20 | |
| 21 | PPh1 | Y | 903.00 | 965.00 | GNSS | — | Pnk f-mg QTZ-FELD-BIOT-CHL mnr PEGD | HRS | FOLI | — | 25 | BIOT schs bnd 5m@898 |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SAU-1 | MAP No: 6433 | UNIT No: 33

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PNhh | N | 0.00 | 24.00 | SDST | --- | Wht-plbn f-mg SDST, QTZ-FELD-MICA-CLAY | --- | --- | --- | -- | |
| 2 | PNha | N | 24.00 | 80.00 | SLST | SDST | Pnk-brn sandy SLST: bsl plgrn m-cg SDST | --- | --- | --- | -- | |
| 3 | PNft | N | 80.00 | 253.00 | SLST | --- | Gry-pkbn(mnr) SLST: QTZ,FLD,MICA,Mt,AMPH | --- | --- | LBED | -- | Diss Py-tr-Ga-Sph |
| 4 | PNftw | N | 253.00 | 259.40 | DLOM | SLST | Ltgy mg DLOM +blk SHLE lam | --- | --- | LBED | -- | Diss Py |
| 5 | PNft1 | N | 259.40 | 259.60 | SDST | --- | Pnk? SDST?: +2% Py grns & frac | --- | --- | --- | -- | Diss Py |
| 6 | PM-p | N | 259.60 | 260.50 | SDST | --- | Rd cg lith SDST:grns mainly undly MEXT | --- | --- | --- | -- | No Py! |
| 7 | PMar | N | 260.50 | 275.35 | BSLT | --- | Dkrd-pnk-grn amyg f-m?g BSLT:FELD & MAGT | RQh | --- | --- | -- | Weth-h?, QTZ-silc-alt? |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/GLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 6/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SAU- 3 | MAP No: 6432 | UNIT No: 798

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 6.00 | CLAY | SAND | Rdbn SAND +mnr CLAY | --- | --- | --- | -- | |
| 2 | T | N | 6.00 | 10.00 | SAND | CLAY | Yel-brn SAND: latt, mnr GYPS & CLAY | --- | --- | --- | -- | |
| 3 | PNstt | N | 10.00 | 114.00 | SHLE | SLST | Mar-blgn SHLE +SLST ibed, mnr fg SAND | --- | --- | IBED | -- | Bnd Py @40m, weth<11 |
| 4 | PNsn | N | 114.00 | 116.00 | DLOM | SHLE | Wht mass fg DLOM, +SHLE ibed | --- | --- | IBED | -- | |
| 5 | PNh | N | 116.00 | 197.30 | SDST | CGLM | Pnk m-f-cg SDST +lsr CGLM/GRIT/SLST/SHLE | --- | --- | --- | -- | Hmb-Mt |
| 6 | PNhh | Y | 116.00 | 163.30 | SDST | CGLM | Pnk m-fg loc-cg wrnd SDST:QTZ80%,FELD15% | --- | --- | --- | -- | Hmb-Mt,Bsl CGLM@17 |
| 7 | PNh1? | Y | 163.30 | 186.20 | SDST | CGLM | Mar fg lith SDST/GRIT/CGLM: SLST mtx | --- | --- | --- | -- | Clst PMa,PM-p,& BIF |
| 8 | PNha? | Y | 186.20 | 197.30 | SHLE | SDST | Mar SHLE/SLST +bsl GRIT/SDST: ufsq | --- | --- | BED | 90 | |
| 9 | PNf | N | 197.30 | 413.20 | SLST | DLOM | Gry-brn SLST+DLOM ibed & mass bsl DLOM | --- | IBED | LBED | 90 | Diss Py |
| 10 | PNft | Y | 197.30 | 411.00 | SLST | DLOM | Gry-brn SLST +upr zn DLOM/CALA ibed | --- | IBED | LBED | 90 | Diss Py |
| 11 | PNftw | Y | 411.00 | 413.20 | DLOM | SHLE | Ltgy mass DLOM +mnr blk SHLE lam | --- | --- | --- | -- | |
| 12 | PMar | N | 413.20 | 494.00 | TRAC | --- | Pnk?-gry? f-mg amyg TRAC: AMYG-R-Q,<10mm | H | AMYG | --- | -- | Hem? -MAFC=weth<42 |
| | (11) | (1) | (7) | (7) | (4) | (4) | (46) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 7/8/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | STRATIGRAPHY : | | | | LITHOLOGY | | | HOLE NUMBER BDH- 2 | | | MAP No: 6434 UNIT No: 30 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
| 1 | Q | N | 0.00 | 24.40 | SAND | CLAY | brn aeolian qtz with mnr CACTrete | — | — | — | – | |
| 2 | PNstt | N | 24.40 | 25.01 | SHLE | SAND | brn to grn weth silty shle and sand | weth | — | — | – | |
| 3 | PNh' | N | 25.01 | 192.52 | SDST | SHLE | pnk+brn fg to mg grty sdst+grgn shle | — | — | — | – | mnr diss py |
| 4 | PNhh | Y | 25.01 | 89.98 | SDST | — | pnk and gwht grty fg to mg feld | — | — | — | – | mnr diss py |
| 5 | PNh1 | Y | 39.98 | 131.15 | SDST | SHLE | brn grty fg sdst+thin ibed grgn silty shle | — | — | — | – | mnr fg py |
| 6 | PNhh | Y | 131.15 | 152.50 | SDST | — | pnk grty fg to mg feld sdst with qtz cem | — | — | — | – | fg py |
| 7 | PNh1 | Y | 152.50 | 192.52 | SHLE | SLST | brn with gry silty shle + dlom bands | — | — | — | – | PNft top?, tr vfg py |
| 8 | PNf | N | 192.52 | 347.97 | SHLE | DLOM | ?grct dkgy lamb dlom shle+basal bslt brec | — | — | — | – | diss py,cpy |
| 9 | PNft | Y | 192.52 | 347.43 | SHLE | DLOM | ?grct dkgy lamb dolomitic shle | — | — | — | – | diss py,cpy |
| 10 | PNft2 | Y | 347.43 | 347.97 | SEBR | BSLT | shct weth basalt flow top breccia | weth | BREC | — | – | check ?PNft2, abu py |
| 11 | PMye | N | 347.97 | 553.39 | TBAS | SDST | grct rdbn to gn mg bslt to tbas+mnr sdst | — | — | — | – | org PMroop,tr py,cpy,gal |
| 12 | PMye | Y | 347.97 | 383.48 | TBAS | — | grct rdbn to ppl mg chloritic bslt | — | — | — | – | org PMroop,tr py,cpy,gal |
| 13 | PMye | Y | 383.48 | 384.54 | SDST | CAAR | brn+gybn fg to mg lithic sdst+xbed caar | — | — | — | – | |
| 14 | PMye | Y | 384.54 | 553.39 | TBAS | — | gry to grn amyg bslt | — | AMYG | — | – | org PMroop,tr py,cpy,gal |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV 30/08/9 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | STRATIGRAPHY : | | | | LITHOLOGY | | | HOLE NUMBER BDH- 3 | | | MAP No: 6434 UNIT No: 31 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GIS Uni | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
| 1 | Q | N | 0.00 | 25.93 | SAND | — | Brn f-mg SAND, clay/CACT-cmnt | — | — | — | – | |
| 2 | PNstt | N | 25.93 | 161.65 | SHLE | SLST | Chbn SHLE/SLST +mnr grn bnds, mnr SDST | — | — | — | – | |
| 3 | PNh | N | 161.65 | 324.22 | SDST | SHLE | Pnk-plgry SDST ovr brn ibed SHLE+SDST | — | — | — | – | |
| 4 | PNhh | Y | 161.65 | 254.68 | SDST | SLST | Pnk-Plgry f-mg grty SDST +mnr-CRB-GYPS | — | — | — | – | Mnr Py |
| 5 | PNhw | Y | 254.68 | 324.22 | SHLE | SDST | Brn SHLE +Ltbrn? fg SDST ibed | — | — | XBED | – | Mnr diss py |
| 6 | PNf | N | 324.22 | 567.40 | SHLE | DLOM | Upr gry DLOM ovr gry-blk lamb SHLE | — | — | — | – | |
| 7 | PNfh | Y | 324.22 | 333.22 | DLOM | SHLE | Gry mass DLOM +SHLE lamin & Intrafm SEBR | — | BREC | MASS | – | |
| 8 | PNft | Y | 333.22 | 567.20 | SHLE | SLST | Gry-blk pyritic SHLE | — | — | LBED | 90 | Tr diss py |
| 9 | PNftl | Y | 567.20 | 567.40 | SDST | — | Ltgy? lith SDST +CBR cmnt, pyritic | — | — | — | – | Diss py |
| 10 | PMy | N | 567.40 | 1116.20 | BSLT | SDST | Grn-grgn amyd BSLT+rdbn lith SDST ibeds | RCK | AMYG | LFLW | – | Mnr py,gal |
| 11 | PMye | Y | 567.40 | 939.50 | BSLT | — | Grn-grgn, amyd flwtops | RCK | AMYG | LFLW | – | Diss+blby py + euh-gal |
| 12 | PMya | Y | 939.50 | 950.00 | SDST | — | Rdbn lith grty pbly SDST +gry BSLT clst | — | — | — | 80 | |
| 13 | PMye | Y | 950.00 | 1116.20 | BSLT | — | Grn-grgn, amyd flwtops | RCK | AMYG | LFLW | – | Mnr py |
| 14 | PMya | Y | 1116.20 | 1124.80 | SDST | — | Rdbn grty pbly:BSLT-CHRT-VnQTZ-FEXT clst | — | — | — | 80 | Org PM-p,mnr cpy |
| 15 | PMa | N | 1124.80 | 1200.00 | DACT | TUFF | Rdbn IGNM-TUFF-AGLM-PCST | — | — | — | – | rar py,cpy |
| 16 | PMa? | Y | 1124.80 | 1157.00 | PCST | — | Rdbn vfg FEXT +mnr fragmentals | HS | — | — | – | rar py,cpy |
| 17 | PMa? | Y | 1157.00 | 1189.00 | DACT | TUFF | Rdbn-gngy lith-vitric-xtl TUFF | CH | — | LAYR | – | rar cpy,?bn |
| 18 | PMa? | Y | 1189.00 | 1200.00 | DACT | AGLM | Pnk-dkrdbn AGLM, fg clst, some porp | — | — | — | – | v rar cpy |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SLT-101 | MAP No: 6434 | UNIT No: 35

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation | / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 3.00 | SAND | CLAY | Sandy clay +OQZT float | — | — | — | – | | |
| 2 | PNst | N | 3.00 | 306.95 | SDST | SHLE | Wht-brn SDST + grgn to rdbn SHLE | — | — | — | – | | |
| 3 | PNstc | Y | 3.00 | 102.00 | SDST | SHLE | Wht-brn SDST-GLAU-FELD-MICA +grgn SHLE | H | — | — | – | Tr Py | |
| 4 | PNstt | Y | 102.00 | 306.95 | SHLE | SDST | Rdbn SHLE +mnr gngy bnds | — | — | — | 85 | | |
| 5 | PNh | N | 306.95 | 584.50 | SDST | SHLE | Rdbn-wht hem SDST & SHLE | — | — | — | – | | |
| 6 | PNhh | Y | 306.95 | 413.40 | SDST | SHLE | Wht/pnk-rdbn lith SDST +rdbn SHLE, +GYPS | — | — | — | 81 | | |
| 7 | PNh1 | Y | 413.40 | 584.50 | SLST | SDST | Rdbn SLST +ibed grty SDST | — | — | — | 85 | Mnr py | |
| 8 | PNf | N | 584.50 | 914.95 | SHLE | SDST | Gygn SHLE/DLOM seq +bsl SDST & REGL | — | — | — | 87 | | |
| 9 | PNft | Y | 584.50 | 828.00 | SHLE | DLOM | Gygn lam SHLE & dolm-SLST | — | — | — | 87 | Tr py | |
| 10 | PNft1 | Y | 828.00 | 914.30 | SDST | CGLM | Gygn SDST & plmc mtx sup CGLM +mnr SHLE | R | — | — | – | Tr diss py | |
| 11 | PNft4 | Y | 914.30 | 914.95 | BREC | — | pkgy BREC cl-FEXT in sandy mtx = REGL | — | — | — | – | | |
| 12 | PMye | N | 914.95 | 1379.00 | BSLT | — | Dkrbn +amyg flbr | RKHC | VEIN | — | – | crb veins | |
| 13 | PM-p1a | N | 1379.00 | 1391.30 | CGLM | SDST | Pnk-rdbn grty SDST & plmc CGLM | — | — | — | 80 | rar cpy | |
| 14 | PMa | N | 1391.30 | 1405.60 | DACT | BREC | Pnk motl AGLM/TUFF | HC | VEIN | — | – | rar cpy, crb veins | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): | JLC 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SLT-102 | MAP No: 6434 | UNIT No: 36

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation | / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 12.00 | SAND | — | Uncsl sand | — | — | — | – | | |
| 2 | T | N | 12.00 | 27.10 | CLAY | — | Wht CLAY +SICTus blds @ 27m | — | — | — | – | | |
| 3 | PNstt | N | 27.10 | 164.30 | SHLE | SLST | Rdbn-gry/grn bnds | — | — | IBED | 83 | | |
| 4 | PNsn | N | 164.30 | 167.70 | DLOM | SHLE | Buf DLOM & rdbn DOLmitic SHLE | — | — | IBED | – | | |
| 5 | PNh | N | 167.70 | 347.60 | SDST | SHLE | Pnk/wht motl SDST+bsl rdbn SLST/SHLE | — | — | — | 80 | | |
| 6 | PNhh | Y | 167.70 | 223.00 | SDST | ARKS | Pnk/wht motl SDST/ARKS +mnr SLST | — | — | — | 80 | | |
| 7 | PNh1 | Y | 223.00 | 347.60 | SLST | SHLE | Rdbn SLST/SHLE +mnr sandy horizons | — | — | — | – | Tr cpy | |
| 8 | PNf | N | 347.60 | 617.60 | SHLE | DLOM | Upr gry-pnk/brn DLOM+lwr blk-gry SHLE | — | — | LAMB | 80 | Diss + blby py,cpy | |
| 9 | PNfh | Y | 347.60 | 383.20 | DLOM | SHLE | Gry-pnk/brn DLOM | — | — | LAMB | 80 | | |
| 10 | PNft | Y | 383.20 | 617.60 | SHLE | DLOM | Blk-gry SHLE +dlom bnds inc to depth | — | — | LBED | – | Diss + blby py,cpy | |
| 11 | PMye | N | 617.60 | 644.00 | BSLT | — | Gry-grn BSLT +vesc flwtops | RHC | — | LFLW | – | Mnr py | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): | JLC 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: SLT-103 | MAP No: 6434 | UNIT No: 37

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 3.00 | SAND | REGL | SAND +scree-OQZT | — | — | — | – | |
| 2 | T | N | 3.00 | 21.00 | CLAY | SAND | Rdbn CLAY +mnr SAND | — | — | — | – | |
| 3 | PNhh | N | 21.00 | 139.40 | SDST | — | Ltbn-rdbn/pnk grty SDST +LIMT-GYPS-Py | — | — | — | 85 | Tr py,cpy |
| 4 | PNf | N | 139.40 | 298.80 | SLST | DLOM | lbed gy-gybn SLST + wht DLOM | — | — | IBED | | Diss py,cpy |
| 5 | PNft | Y | 139.40 | 269.20 | SLST | DLOM | Ltgy-gybn lamr SLST +ibed DLOM bnds | — | — | LBED | 88 | ?PNfh, mnr py,cpy,?spl |
| 6 | PNftw | Y | 269.20 | 298.80 | DLOM | SDST | Wht DLOM +ibed mnr gry SLTST/SHLE | — | — | IBED | – | com diss py,cpy |
| 7 | PMye | N | 298.80 | 606.10 | BSLT | — | Rdbn/gn vesc BSLT +TUFF & mnr SHLE | HRCZ | — | — | – | mnr py,cpy,gal |
| 8 | PMya | N | 606.10 | 616.40 | SDST | ARKS | Rd-pnbn hem pbly rubl +SAND mtx | H | — | — | 85 | tr cpy |
| 9 | PMa | N | 616.40 | 750.00 | RHLT | TEPH | Pnk/or fg-cg gty FEXT | HRz | — | — | – | |
| 10 | PMa? | Y | 616.40 | 626.90 | RHLT | AGLM | Pnk cg vcor & grit +QTZ-?phxt | HRz | — | — | – | |
| 11 | PMa? | Y | 626.90 | 639.00 | RHLT | TUFF | Pnk/or vfg TUFF +flbr, high QTZ gmas | Hu | — | — | – | Py in fractures |
| 12 | PMa? | Y | 639.00 | 750.00 | RHLT | AGLM | Pnk/or flbnd TUFF +clst-5cm | HFuz | — | FBND | 60 | Accs BART & ZEOL, ?P |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SLT-104 | MAP No: 6434 | UNIT No: 39

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 4.50 | TLUS | SAND | quartzite scree ovr ylbn cg clayey sand | — | — | — | – | |
| 2 | PNst | N | 4.50 | 358.40 | SDST | SHLE | rbrn,grgn+pwht sdst ovr rdbn+grgn shle | — | — | — | 80 | |
| 3 | PNsts | Y | 4.50 | 119.60 | SDST | SHLE | ibed mg to cg pwht+grgn sdst mnr shle | — | CUBD | — | – | |
| 4 | PNstc | Y | 119.60 | 158.30 | SDST | SLST | grct to rbrn fg lithic sdst+slst+mnr shle | — | MBED | — | – | |
| 5 | PNstt | Y | 158.30 | 358.40 | SHLE | SLST | grct to ibed rbrn+grgn shle+mnr slst | — | LAMB | — | 80 | Possible PNwm at base |
| 6 | PNh | N | 358.40 | 582.50 | SDST | SLST | rbrn,pwht+gwht feld sdst,grit,slst+shle | — | IBED | — | – | |
| 7 | PNhh | Y | 358.40 | 368.90 | SDST | — | rbrn to pwht fg feld sdst | — | — | — | 85 | NB 358-463 orig PNhh |
| 8 | PNh1 | Y | 368.90 | 373.90 | SDST | SLST | rbrn silty gf sdst | — | — | — | – | |
| 9 | PNhh | Y | 373.90 | 402.70 | SDST | — | wht to pnk mg to cg arks/sdst+cmn grit | — | CUBD | — | – | |
| 10 | PNh1 | Y | 402.70 | 436.90 | SDST | SHLE | rbrn silty fg sdst+ibed shle+cmn grit | — | — | — | 75 | |
| 11 | PNhh | Y | 436.90 | 463.40 | SDST | — | rbrn to pnk mg to cg gritty feld sdst | — | — | — | 73 | |
| 12 | PNha | Y | 463.40 | 582.50 | SLST | SHLE | sltct to rbrn shle,gwht fg slst+grty sdst | — | IBED | — | 83 | PNh in original log |
| 13 | PNf | N | 582.50 | 783.40 | SHLE | DLOM | ibed grgn to dk gry shle+gwht silty dlom | — | LAMB | — | – | |
| 14 | PNfh | Y | 582.50 | 621.90 | SHLE | DLOM | grgn silty shle+mbed gwht silty dlom | — | LAMB | — | – | Diss py, chk PNft+PNfh |
| 15 | PNft | Y | 621.90 | 770.00 | SHLE | DLOM | lamb gry to dk gry shle+gwht silty dlom | — | IBED | — | 83 | ?Diss py, relog W.Cowley |
| 16 | PNft1 | Y | 770.00 | 783.40 | BREC | OQZT | sltct buf mbed brec OQZT+rare cl-slst-sdst | Q | — | — | – | Diss py,cpy, chk PNft1 |
| 17 | PM-p | N | 783.40 | 836.00 | SDST | SHLE | gwht-rbrn mg sdst ovr shle ?atypical PMya | Q | — | — | – | Org PMye, poss PNb? |
| 18 | PM-p3a | Y | 783.40 | 807.60 | SDST | — | sltct pkor-gwht hmb fg to mg qtz feld sst | Q | TBED | — | 45 | ?Burra gp (org PMye) |
| 19 | PM-p2 | Y | 807.60 | 836.00 | SLST | SHLE | grct to rbrn silty shle+vfg sdst to slst | Q | IBED | — | 90 | Is weakly calc+dlom vns |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV 30/08/9 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ******* Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER SLT-106 | MAP No: 6434 | UNIT No: 38

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Q | N | 0.00 | 7.00 | SAND | CLAY | Unconsl sandy clay REGL +OQZT clsts | --- | --- | --- | -- | |
| 2 | PNst | N | 7.00 | 463.50 | SHLE | SDST | Rdbn-wht ibed SHLE-SDST seq | --- | --- | --- | -- | |
| 3 | PNsts | Y | 7.00 | 159.10 | SDST | SHLE | Wht-buf m-fg SDST +mnr thin SHLE beds | --- | --- | MBED | 83 | |
| 4 | PNstc | Y | 159.10 | 336.60 | SDST | SLST | Gry/wht-brn lith SDST +SHLE/SLST ibed | --- | --- | BED | -- | Org PNwts to 274.8 |
| 5 | PNstt | Y | 336.60 | 463.50 | SHLE | SLST | Rdbrn +mnr grn bnds | --- | --- | TBED | 87 | |
| 6 | PNsn | N | 463.50 | 467.20 | DLOM | CHRT | Buf-gry both MASS & BREC | Q | BREC | --- | -- | Org PNwtt, mnr py,spl+ |
| 7 | PNh | N | 467.20 | 718.60 | SDST | SHLE | Redbed SDST-SHLE seq | --- | --- | --- | -- | |
| 8 | PNhh | Y | 467.20 | 530.10 | SDST | --- | Gry-pnk/brn grty lith SDST | Q | --- | MBED | -- | Silicified top 6m only |
| 9 | PNhw | Y | 530.10 | 574.20 | SDST | SLST | Rdbn-grn mg SDST-mnr-grit +some SLST | --- | --- | BED | 77 | Org PNhh |
| 10 | PNha | Y | 574.20 | 718.60 | SLST | SHLE | Rdbn, +GYPS & mnr SDST-(SHLE-intclst) | --- | --- | BED | 80 | Org PNh |
| 11 | PNf | N | 718.60 | 899.10 | SLST | DLOM | Upr gry DLOM ovr gry lamb SLST+bsl SDST | --- | --- | --- | -- | Diss py |
| 12 | PNfh | Y | 718.60 | 744.70 | DLOM | SLST | Ltgry DLMC/DLAR +SLST partings | --- | --- | LAMB | -- | Diss py |
| 13 | PNft | Y | 744.70 | 863.90 | SLST | DLOM | Gry-wht SLST +mnr DLOM & plmc CGLM/SDST? | --- | --- | LAMB | 87 | Diss Py & Carbonaceus |
| 14 | PNft1 | Y | 863.90 | 899.10 | SDST | CGLM | Gry-wht carb-SDST & plmc-ang-sbang-CGLM | --- | --- | --- | -- | Diss py |
| 15 | PMy | N | 899.10 | 1370.00 | BSLT | TUFF | Gry/grn BSLT and epiclastic volcanics | --- | --- | LFLW | -- | |
| 16 | PMye | Y | 899.10 | 1057.90 | TUFF | SDST | Ang-sang megclst sup grit/sand-pelit mtx | CA | --- | --- | -- | v rar blby py,cpy |
| 17 | PMye | Y | 1057.90 | 1358.00 | BSLT | BREC | Grn-gry fg LFLW +amyg brec flow tops | HKRC | --- | LFLW | -- | BART?, v rar blby py |
| 18 | PMya | Y | 1358.00 | 1370.00 | SHLE | SDST | Gry volc-lith SHLE +SDST in upr sect | --- | --- | BED | 68 | v rar blby py,cpy |
| 19 | PMa | N | 1370.00 | 1449.00 | FEXT | TUFF | Pnk-gry FEXT ?TUFF & ?epiclastics | --- | --- | --- | -- | |
| 20 | PMa | Y | 1370.00 | 1378.40 | FEXT | TUFF | Pnk-rdbn lith TUFF +FELD xtl frag | HQSC | --- | --- | -- | |
| 21 | PMa | Y | 1378.40 | 1449.00 | DACT | TUFF | TEPH/AGLM/FEXT intcal, bsl-brn-gry FEXT | QSC | --- | --- | -- | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: SLT-107 | MAP No: 6434 | UNIT No: 32

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation | / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 20.00 | SAND | — | Rdbn aeolian sand with CACT rhizomes | — | — | — | – | | |
| 2 | PNstt | N | 20.00 | 27.80 | SHLE | SLST | Yel-buf/wht SHLE/SLST | weth | — | LBED | 82 | | |
| 3 | PNsm | N | 27.80 | 29.30 | DLOM | SDST | Buf/wht-pnk mass styl DLOM +mnr SDST | — | — | TBED | 77 | MARC, org PNwtt | |
| 4 | PNh | N | 29.30 | 175.70 | SDST | SLST | Rdbn-gywt SDST-SLST-SHLE +hmb | — | — | — | – | | |
| 5 | PNhh | Y | 29.30 | 156.70 | SDST | — | Rdbn-gywt lith SDST +hmb | S | — | MBED | – | Mnr diss py | |
| 6 | PNhw | Y | 156.70 | 175.70 | SLST | SDST | Rdbn dolmtc SDST/SLST/SHLE +hmb | — | — | IBED | – | Org PNh | |
| 7 | PNf | N | 175.70 | 361.60 | SLST | DLOM | Gry SLST & DLOM | — | — | IBED | 85 | | |
| 8 | PNft | Y | 175.70 | 205.70 | DLOM | SLST | Gybik SLST & gry DLOM-brec-sand-ibed | — | — | IBED | 85 | Org PNfh, mnr diss py | |
| 9 | PNft | Y | 205.70 | 361.60 | SLST | DLOM | Gry SLST +mnr DLOM inbed | — | — | IBED | – | Org PNft, mnr diss py | |
| 10 | PMye | N | 361.60 | 735.80 | BSLT | BREC | Grn BSLT +Hem amyg flwtop brec | HRSE | — | — | – | Tremolite? | |
| 11 | PM-p | N | 735.80 | 809.30 | SDST | — | Mav-buf/gry lith-arkos-grty-SDST +FEXT | — | — | — | 80 | | |
| 12 | PMa | N | 809.30 | 1097.20 | DACT | RHYD | Rd-pnk FEXT:LFLW-AGLM/BREC | HRS | TUFF | BAND | 60 | Mnr diss py | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): | JLC 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: WHD-1 | MAP No: 6434 | UNIT No: 34

| | STRATIGRAPHY: GIS Unit | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 24.00 | SAND | CLAY | Red-org SAND/CLAY +mnr CRB & clst @22m | — | — | — | -- | |
| 2 | T | N | 24.00 | 49.00 | CLAY | SAND | Pnk-crm/gry CLAY & SAND +mnr CRB | — | — | — | -- | |
| 3 | PNs | N | 49.00 | 176.64 | SLST | DLOM | Rdbn SHLE/SLST +bsl DLOM/SHLE | — | — | — | -- | |
| 4 | PNstt | Y | 49.00 | 170.83 | SLST | SDST | Chbn-gry SHLE: soft weth to 90m +mnr SDST | weth | — | LBED | 90 | |
| 5 | PNsn | Y | 170.83 | 176.64 | DLOM | SHLE | Plpnk/brn-grn DLOM & brn-grn SHLE | — | — | IBED | 90 | Py tr in fractures |
| 6 | PNh | N | 176.64 | 278.65 | SDST | SLST | Pnk-rdbn lith SDST ovly rdbn lam SLST/SHLE | — | BED | LBED | 85 | |
| 7 | PNhh | Y | 176.64 | 272.90 | SDST | SLST | Plpnk/red-brn-wht lithic SDST +grty bnds | — | — | BED | 85 | |
| 8 | PNha | Y | 272.90 | 278.65 | SLST | SDST | Rdbn lamb SLST+SDST & grty ibed ?dlom | — | — | LBED | -- | |
| 9 | PNf | N | 278.65 | 433.10 | SHLE | DLOM | Gry-blk SHLE +upr zne-ltgy-DLOM ibed | — | — | — | -- | |
| 10 | PNfh | Y | 278.65 | 295.95 | DLOM | SLST | Ltgy-strm-DLOM +gry-SHLE-lam | — | — | LBED | -- | Mnr blby cpy |
| 11 | PNft | Y | 295.95 | 433.10 | SHLE | DLOM | Gry-blk SLST & wht DLOM-(mnr-brec) | CF | — | LBED | -- | com blby cpy+diss py |
| 12 | PMye | N | 433.10 | 515.87 | BSLT | — | Grn porp? BSLT:amyg flwtop, bsl chld mgn | HRC | — | — | -- | |
| 13 | PM-p | N | 515.87 | 631.80 | SDST | SLST | Rdbn SDST/SLST/CGLM | H | — | BED | 80 | |
| 14 | PM-p3 | Y | 515.87 | 621.14 | SDST | CGLM | Rdbn grty ptly mica SDST +mnr CGLM | H | — | BED | 80 | Usually more shaley! |
| 15 | PM-p2 | Y | 621.14 | 631.98 | SLST | SDST | Rdbn SLST +SHLE & fg SDST bnds | H | — | IBED | -- | |
| 16 | PPw | N | 631.98 | 683.53 | SLST | lEXT | Rdbn-grgn chty SLST +poss amyg *vfg* lEXT | — | — | — | -- | |
| 17 | PPwp1 | Y | 631.98 | 664.00 | SLST | CHRT | Rdbn-grgn motl chty SLST: contorted | HQ | — | BED | -- | Tr cpy |
| 18 | PPwp6 | Y | 664.00 | 683.53 | SLST | lEXT | Pnk-grn chty SLST +vfg meta-lEXT? amyg? | HCE | — | — | ? | ?BART MEXT=MBSL? |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithocdes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER YAD-1 | MAP No: 6434 | UNIT No: 33

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | T? | N | 0.00 | 94.00 | CLAY | SAND | lt to dk gry ?lacustrine+mnr lign clays | --- | --- | --- | -- | Upper clay ?lacustrine |
| 2 | PNstt | N | 94.00 | 258.10 | SHLE | DLOM | lamb ibed chbn+grgn silty shle+mnr dlom | --- | LAMB | --- | 85 | tr native Cu at 178.7 |
| 3 | PNsm? | N | 258.10 | 261.50 | SDST | DLOM | grgn to gybn fg qtz sdst+thin ibed dlom | --- | --- | --- | -- | |
| 4 | PNh | N | 261.50 | 655.60 | SDST | SLST | red,pnk,gry+grn ibed fg sdst,slst+shle | --- | --- | --- | -- | |
| 5 | PNhlr | Y | 261.50 | 302.40 | SLST | SDST | red to rbrn lamb ibed slst+fg sdst+CGLM | --- | ibed | --- | -- | |
| 6 | PNhw | Y | 302.40 | 516.50 | SDST | SHLE | ibed red to pnk to grgn feld sdst+shle | --- | XBED | --- | -- | ?PNhl |
| 7 | PNha | Y | 516.50 | 655.60 | SLST | SDST | grct dk rbrn slst+fg qtz feld sdst | --- | PBED | --- | 85 | Similar to PNhlr |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):BJV 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HOLE NUMBER | | | | | | | NHD-1 | | | | MAP No: | | 6435 | | | |
| STRATIGRAPHY: | | | | | LITHOLOGY | | | | | | UNIT No: | | 5 | | | |
| | GIS Unit | Sub | From (m) | To (m) | 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation | / Comment | | | |
| 1 | PNstt | N | 0.00 | 238.00 | SHLE | — | Rdbn SHLE +gry bnds | — | — | — | – | | | | | |
| 2 | PNsm | N | 238.00 | 240.00 | DLOM | SHLE | Gry mass DLOM +mnr chbn SHLE | — | — | — | – | | | | | |
| 3 | PNh | N | 240.00 | 307.80 | SDST | SLST | Brn-pnk f-vfg SDST & bsl dlom SLST/SHLE | — | — | — | – | | | | | |
| 4 | PNhh | Y | 240.00 | 262.00 | SDST | — | Bn-grn(mnr) fg SDST: slt grity | — | — | — | – | | | | | |
| 5 | PNh1 | Y | 262.00 | 272.00 | SDST | — | Pnk fg SDST | — | — | — | – | | | | | |
| 6 | PNhlr | Y | 272.00 | 280.00 | SLST | — | Brn vfg SDST | — | — | — | – | | | | | |
| 7 | PNha | Y | 280.00 | 307.80 | SHLE | DLOM | Red-ppl SHLE & pnk DLOM ibed | — | WBED | IBED | – | | | | | |
| 8 | PNf | N | 307.80 | 341.00 | SDST | SHLE | Pnk LMST on crm CACT SDST ovly m-cg SDST | — | — | IBED | 90 | | | | | |
| 9 | PNfh | Y | 307.80 | 333.00 | LMST | SHLE | Pnk-crm strom LMST:dolom grnst, mnr SHLE | — | IBED | TBED | 90 | | | | | |
| 10 | PNft1? | Y | 333.00 | 341.00 | SDST | — | Crm m-cg SDST: CACTareous, wk BED | — | — | — | 90 | Orig refr PNft3 | | | | |
| 11 | PNft3 | Y | 341.00 | 475.50 | SDST | — | Pnk-wht m-cg SDST: XBED >369.5m | — | — | XBED | 80 | Diss/vns CPY | | | | |
| 12 | PNua? | N | 475.50 | 503.00 | SDST | DIMC | Brn-gn/wt pbly SDST/DIMC +SLST/SHLE ibed | — | IBED | MBED | 90 | | | | | |
| 13 | PNua? | Y | 475.50 | 483.00 | SDST | SHLE | Ltbrn-wht SDST pbly & SLST ibed | — | GBED | LBED | – | | | | | |
| 14 | PNua? | Y | 483.00 | 497.20 | SLST | SHLE | Brn-grn SLST/SHLE: mnr pbl/sandy ibed | — | — | LBED | 90 | Mnr pbls, intracls | | | | |
| 15 | PNua? | Y | 497.20 | 503.70 | DIMC | BREC | Cg plmc BREC: cls foli-GRNT,QTZ-SDST | — | BREC | — | – | Mtx sandy-hem | | | | |
| 16 | PPl2 | N | 503.70 | 643.20 | GNSS | — | Grn? QTZ-CHL-FELD-SER GNSS | HRS | — | FOLI | 20 | Vns-Q/H | | | | |
| | | | | | | | "Geology amended to reflect observations by Dr. W. Preiss" | | | | | | | | | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): | | | | |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vandersteit SADME Aug '92.

## PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: MRD-1 | MAP No: 6436 | UNIT No: 6

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 28.00 | CLAY | GYPS | Gy-lbrn +GYPS/HAL-xtls :lake sediments | — | — | — | – | |
| 2 | T | N | 28.00 | 104.00 | CLAY | SAND | Gry CLAY/DLMC above infrd SANDS | — | — | — | – | |
| 3 | T | Y | 28.00 | 46.00 | CLAY | DLOM | Gry(grn)-brn | — | — | — | – | |
| 4 | T | Y | 46.00 | 80.00 | DLMC | CLAY | Gy-wht fg DLMC & mnr dkgy CLAY | — | — | — | – | |
| 5 | T | Y | 80.00 | 104.00 | SAND | CLAY | Inferred - nil samples recovered | — | — | — | – | |
| 6 | PNst | N | 104.00 | 662.60 | SDST | SHLE | Wht-brn SDST/SHLE ovly chbn SHLE/SLST | — | — | PBED | – | |
| 7 | PNsts | Y | 104.00 | 281.70 | SDST | SLST | Wht-gy mg SDST +mnr gry/brn SHLE/SLST ibed | — | — | XBED | – | Mnr diss Py some Oxd |
| 8 | PNstc | Y | 281.70 | 363.40 | SDST | SHLE | Brn(Wht-gy) f-mg mica SDST & brn SHLE ibd | — | MASS | PBED | 90 | Mnr XBED |
| 9 | PNstt | Y | 363.40 | 662.60 | SHLE | SLST | Brn(gy) SHLE +mnr SLST ibed | — | — | TBED | 90 | CALC-Vns, ripples |
| 10 | PNsn | N | 662.60 | 663.60 | DLOM | — | Crm-brn fg DLOM | — | — | — | – | |
| 11 | PNh | N | 663.60 | 806.80 | SDST | DLOM | Brn gritty SDST & SLST, dolomitic in part | — | — | PBED | – | |
| 12 | PNhh | Y | 663.60 | 722.10 | SDST | CGLM | Brn lith SDST & bryl SLST +mnr CGLM/GRIT | — | — | PBED | 90 | Fracs-GYPS |
| 13 | PNhh1 | Y | 722.10 | 796.30 | SDST | SLST | Brn m-cg SDST & brn dolom-SLST +mnr GRIT | — | — | PBED | 90 | Rippies |
| 14 | PNh1 | Y | 796.30 | 806.80 | BREC | GRIT | Brn mtx-supp BREC plmc | — | — | LAYR | 80 | |
| 15 | PMa | N | 806.80 | 918.00 | TRAC | — | Pnk massive +pervasive vein system | CRKF | MASS | — | – | mnr seed GYPS |
| 16 | PMa11 | Y | 806.80 | 832.80 | TRAC | — | Pnk fg +gy mott Vns MT-CRB-DIOP-AMPH | — | MASS | — | – | |
| 17 | PMa11 | Y | 832.80 | 881.00 | TRAC | VEIN | Pnk pervasive MT-DIOP-CRB-AMPH-TRAT-APAT | CRK | VEIN | — | 30 | Sec-GYPS, Pri vms-MA |
| 18 | PMa11 | Y | 881.00 | 918.00 | TRAC | — | Pnk(gy) vfg Vns DIOP-AMPH-CRB-FLUR-BAR | CF | MASS | — | – | Sec-GYPS, Pri vms-MA |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s):JLC 30/08/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

## PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: TD-1 | MAP No: 6436 | UNIT No: 14

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY: 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | Fabric | Core/_ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PNst | N | 0.00 | 412.70 | SDST | SHLE | Wht-brn/grn SDST & chbn SHLE/SLST | — | — | TBED | 85 | mnr sed Py |
| 2 | PNsts | Y | 0.00 | 163.70 | SDST | SHLE | Wht-plbn/grn m-fg SDST:mnr SHLE lam | — | — | TBED | 85 | Ripup clst, Py-framb |
| 3 | PNstt | Y | 163.70 | 412.70 | SHLE | SLST | Chbn lam SHLE +SLST bnds & mnr grn bnds | — | — | LBED | 85 | Sandy in upr 20m |
| 4 | PNsn | N | 412.70 | 413.60 | DLOM | SHLE | Crm fg lam DLOM: fracs=vns CRB-(mnr)Cpy | — | — | LBED | – | Log: Crm bleached shle |
| 5 | PNh1? | N | 413.60 | 422.75 | SEBR | GRIT | Pnk/rdbn plmc BREC/GRIT:ang cls Q,Mt,H=> | — | — | — | – | +FEXT & CLAY/CHL |
| 6 | PPwp1 | N | 422.75 | 498.00 | CASI | BREC | Gngy-org/pnk alt fg lay sil sed, sec brc | HRF | BAND | BREC | – | Vn Q-C-R-F,diss Py,Cpy |
| 7 | PPwp3 | Y | 422.75 | 450.00 | CASI | BREC | Gngy-org/pnk bnd fg JASP-QTZ-CHL-MAGT rk | HRF | BAND | BREC | 30 | Vn Q-C-R,frac Py,F,Cpy |
| 8 | PPwp4 | Y | 450.00 | 498.00 | CASI | — | Gngy-org fg QTZ-FELD(red)-CHL-MAGT rk | HRF | BAND | BREC | 30 | Vn F<10cm, diss Py,Cpy |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER TD- 2 | MAP No: 6436 | UNIT No: 15

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 36.00 | CLAY | GYPS | Grbn-dkbn CLAY GYPS & HALT: Lacust seds | — | — | — | – | Bsl DLOM zn |
| 2 | PNwy2 | N | 36.00 | 63.00 | SHLE | SDST | Gry-ylbn SHLE/CLAY +whgy-brn SDST ibed | weth | — | TBED | 90 | |
| 3 | PNst | N | 63.00 | 508.50 | SDST | SHLE | Wht-gry-brn SDST ovly chbn SHLE/SLST | — | — | TBED | 90 | |
| 4 | PNsts | Y | 63.00 | 230.00 | SDST | SHLE | Wtgy-bn SDST & ibed brn SHLE (mnr >100m) | — | — | TBED | 90 | Loc XBED,m-fg,SHLE gr |
| 5 | PNstc | Y | 230.00 | 247.50 | SDST | SHLE | Brn SDST +filam lyrs brn SHLE | — | — | TBED | 90 | |
| 6 | PNstt | Y | 247.50 | 508.50 | SHLE | SLST | Chbn SHLE & gy-bn SLST: mnr SDST<290m | — | — | LBED | 90 | |
| 7 | PNsm | N | 508.50 | 511.30 | DLOM | SHLE | Ltbn mass DLOM +brn SHLE ibed | — | — | TBED | – | |
| 8 | PNh1? | N | 511.30 | 515.60 | CGLM | SDST | Pnk pimc CGLM +SDST mtxcls Mt-HEM-OQZT | — | — | — | – | Pbl brc inst, Py,Cpy |
| 9 | PPw | N | 515.60 | 881.00 | BIF | CASI | Pnk-wht-grn bnd/brc QTZ-FLD-Mt-SID-CHL | RCSF | BAND | BREC | – | Rxtl fld/brc Q-C-Fe rk |
| 10 | PPw2 | Y | 515.60 | 746.00 | BIF | OQZT | Pnk-wht-grn bnd/brc QTZ-Mt-SID-CHL rk | RCSF | BAND | BREC | 50 | Vn/vug C-R-Py-Cpy-F-G Fold 0-80Dg |
| 11 | PPw2 | Y | 746.00 | 801.10 | BIF | OQZT | Pnk-wht bnd/brc QTZ-Mt-SID-CHL-(tr)KFLD | RCSF | BAND | BREC | 30 | Vn/vug C-R-Py-Cpy-F-G |
| 12 | PPw3 | Y | 801.10 | 881.00 | CASI | OQZT | Pnk-wht bnd/brc QTZ-KFLD-Mt-SID-CHL rk | RCSF | BAND | BREC | 45 | Vn/vug C-R-Py-Cpy-F-G |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 28/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER TD- 3 | MAP No: 6436 | UNIT No: 16

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 22.00 | CLAY | — | Org-ltbrn CLAY +GYPS & HALT | — | — | — | – | |
| 2 | Eh | N | 22.00 | 34.10 | CALU | SHLE | Gry-brn-yel/wht CALU & CLAY +HALT/GYPS | weth | — | — | – | |
| 3 | PNst | N | 34.10 | 540.20 | SDST | SHLE | Ltbrn-grgn vfg | — | — | — | – | |
| 4 | PNsts | Y | 34.10 | 252.40 | SDST | SHLE | Gry-ltbrn/grn vfg SDST +SLST bnd/clst | — | XBED | IBED | 90 | SHLE bns uncom >100m |
| 5 | PNstc | Y | 252.40 | 259.80 | SDST | SHLE | Dkbrn SDST +gry/brn SHLE ibed | — | — | IBED | – | |
| 6 | PNstt? | Y | 259.80 | 350.00 | SDST | SLST | Brn-gry f-mg SDST & brn SLST/SHLE ibed | — | TBED | IBED | 90 | Wavy XBED @60Dg, CR |
| 7 | PNstt | Y | 350.00 | 540.20 | SHLE | SLST | Brn-gry(mnr) SHLE/SLST ibed, prt mica | — | TBED | IBED | 90 | Loc XBED |
| 8 | PNsm | N | 540.20 | 551.60 | DLOM | SDST | Wht-pnk fg DLOM, dlmSHLE, & cg lith SDST | — | — | IBED | 90 | Vns/vgs GYPS |
| 9 | PNh1? | N | 551.60 | 559.35 | DIMC | GRIT | Brn DIMC cls FEXT-MCGR-MEXT?-QTZ+cg GRI | — | — | MBED | – | Slt mtx |
| 10 | PPw3 | N | 559.35 | 733.40 | CASI | FEXT | Pkbn-grn bnd fg FELD-QTZ-DIOP-MAGT-CRB | SRCF | BAND | FLD | 45 | Vn/diss C-Mt-S-F-Py-FL |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): JLC 28/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vanderstelt SADME Aug '92.

PROJECT : Stuart Shelf Basement STRATIGRAPHIC SUMMARY

HOLE NUMBER: WWD-1 | MAP No: 6436 | UNIT No: 11

| | STRATIGRAPHY: GIS Uni | Sub | From (m) | To (m) | LITHOLOGY 1st Lith. | 2nd Lith | Rock Description - Diagnostic Features | Alterat. | Texture | / Fabric | Core/ | Formation / Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q | N | 0.00 | 72.20 | CLAY | SAND | wht,brn+grn clay+mnr mg-cg sand | w | ---- | ---- | -- | tr ?py |
| 2 | PNwb | N | 72.20 | 520.77 | SLST | SHLE | rbrn+gygn lamb slst+shle+v mnr pnk dlom | wr | LAMB | ---- | 90 | top 3m weth |
| 3 | PNsa | N | 520.77 | 529.26 | OQZT | SLST | buf+pnk ibed mg-fg OQZT+chbn lamb slst | ---- | IBED | ---- | -- | |
| 4 | PNsrb | N | 529.26 | 762.10 | OQZT | SLST | ibed buf-grn OQZT+gygn slst+bsl chbn shle | ---- | IBED | ---- | -- | |
| | (11) | (1) | (7) | (7) | (4) | (4) | (40) (SADME/JLCEXS Feb'92 Format) | (4) | (4) | (4) | (2) | Author(s): BJV 30/7/92 |

Stratigraphic codes by W.M. Cowley & C.G. Gatehouse '92. ****** Mineral, lithcodes & Stratigraphy Revision by J.L. Curtis & B. Vandersteit SADME Aug '92.

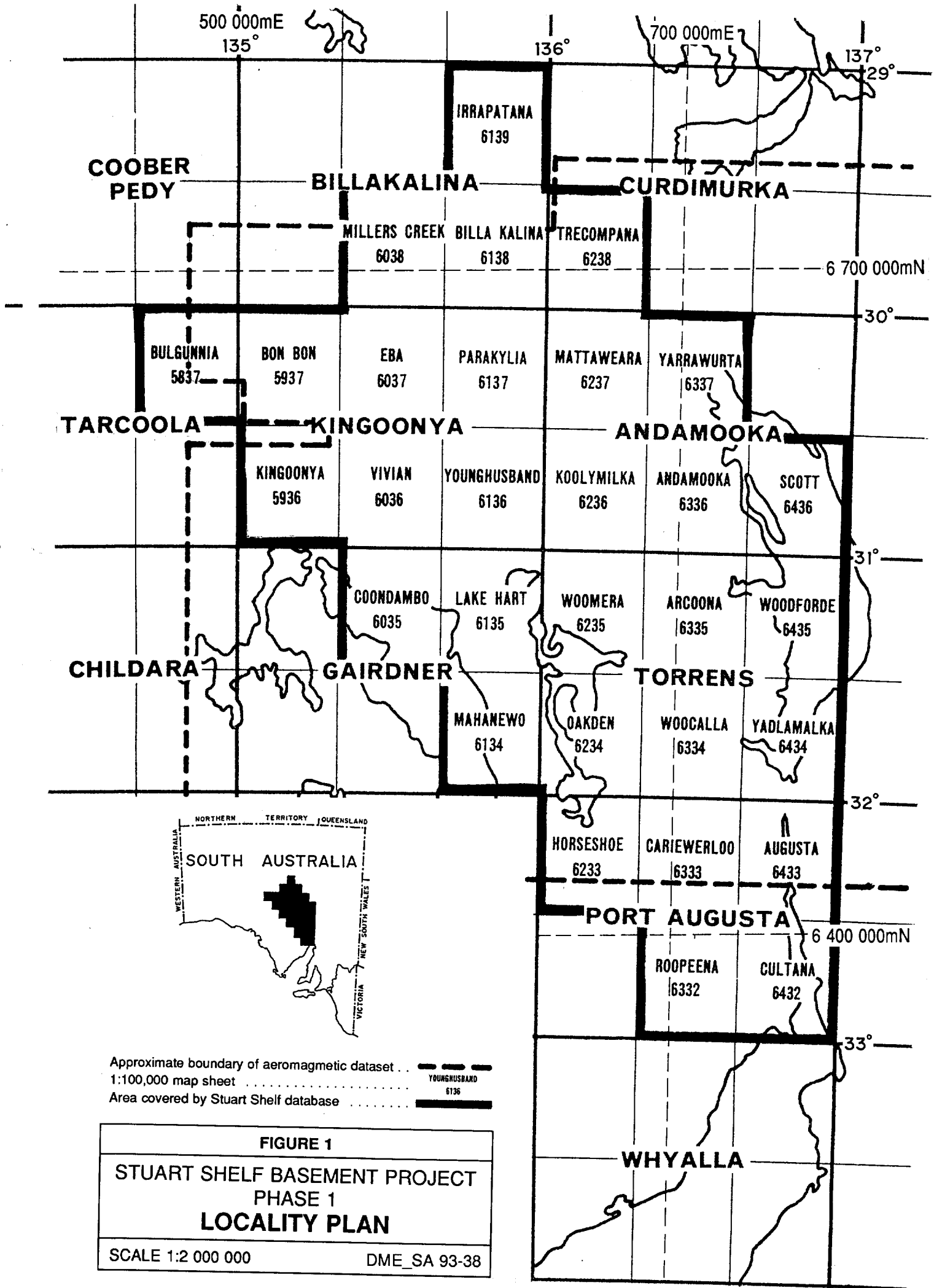


**FIGURE 1**

STUART SHELF BASEMENT PROJECT
PHASE 1

# LOCALITY PLAN

SCALE 1:2 000 000 DME_SA 93-38

500 000mE

600 000mE

700 000mE

6 700 000mN

6 600 000mN

6 500 000mN

6 400 000mN

SR13
SR12
SR1
SR17
SR6
FHD1
SR7
SR9
DP1
DP2
PEE1
EBA3
EBA2
BD2
BD1
SCYW1
SHD1
BDH3
BDH1
BDH2
EBA1
RL1
BLD4
BLD1
BLD3
BLD2
RD18
WWD1
ACD5
TWN1
ACD4
TWN2
TWN3
RED2
ACD10
ACD7
RED1
ACD1
ACD9
ACD2
ACD18
WRD1
WLD1
BB3
BB4
BB2
BB1
HHD2
CRD1
HHD1
DRD1
TD3
TD2
TD1
SSR1001
CSD1
HWD1
MRD1
ASD2
ASD1
WJD1
AD2
AD8
Woomera1
HUD1
SASC4
HUD2
CD1
LH1
LH2
EC47
EC50
SAR3
NHD1
EC35
EC49
EC45
EC48
EC43
SAR4
EC51
EC40
EC21
PY3
PY2
SAR2
VG1
PL32
PY4
PRL22
PY1
KGB4
KGB2
KGB1
KGB3
SAR9
SAR8
SAR6
SAR7
SAR5
WHD1
SLT106
MH1
SAR1
SLT103
SLT101
BDH2
SLT107
SLT102
BDH3
PIL16
PIL12
PIL13
PIL14
YAD1
SLT104
PIL15
EX162
PDH12
SAD1
PDH6
PDH4
PDH8
EX182
FH1
FH3
FH5
FH2
FH4
EX171
PDH1
SAU1
EX31
EX114
EX108
EX169
EX32
EX34
EX105
TR3
EX38
EX97
EX100
SAU3
EX165

**FIGURE 2**

STUART SHELF BASEMENT PROJECT
PHASE 1

# DRILLHOLE LOCATION PLAN

SCALE 1:1 000 000 DME_SA 93-39

500 000mE

600 000mE

700 000mE

6 700 000mN

6 600 000mN

6 500 000mN

6 400 000mN

Lake Acraman

**FIGURE 4**

STUART SHELF BASEMENT PROJECT
PHASE 1

# SURFACE GEOLOGY

*(Extracted from SA_GEOLOGY / State Digital Dataset)*

SCALE 1:1 000 000 DME_SA 93-40

**CAINOZOIC**

**QUATERNARY**

HOLOCENE

Qhe — Stream alluvium; COONAMBIDGAL FORMATION in Murray River Valley. Recent mound spring and other spring deposits.

Qhl — Lacustrine and aeolian sediments associated with playas and lakes; includes YAMBA FORMATION.

Qhe — SEMAPHORE SAND: white coastal calcareous and siliceous dune sand.

Qhk — ST KILDA FORMATION: calcareous, fossiliferous sand and mud of intertidal sand flats, beaches and tidal marshes; organic, gypseous clay of supratidal flats.

PLEISTOCENE

Qs — Aeolian sand of inland dune fields and associated fluviatile sediments; includes SIMPSON SAND, MOLINEAUX SAND.

Qpp — Gravelly and sandy clay of alluvial plains; includes POORAKA FORMATION and calcrete horizons. Gypsified gravels and surfaces in north of state.

Qpm — Fossil mound spring deposits.

Qca — Calcreted colluvium.

Qpb — BRIDGEWATER FORMATION: calcreted aeolianite.

Czl — MANGATITJA LIMESTONE, MOUNT WILLOUGHBY LIMESTONE: chalcedonic dolomitic limestone; limestone of the Alberrie Creek plateau.

**TERTIARY**

MIOCENE-PLIOCENE

Td — ETADUNNA FORMATION, NAMBA FORMATION, CADELGA LIMESTONE (Lake Eyre Basin), GARFORD FORMATION (Eucla Basin palaeodrainage): lacustrine dolomite and clay; MT SARAH SANDSTONE, MIRACKINA CONGLOMERATE: fluviatile sand, often silcreted; lacustrine beach ridges of MIRIKATA FORMATION (Billa Kalina Basin).

Ts — Undifferentiated, colluvial to alluvial, extensively reworked silcreted sand and dolomite of Palaeocene–Eocene to Miocene–Pliocene age; includes thin Pleistocene colluvial deposits. DOONBARA FORMATION: ferruginous, pisolitic and calcareous sand.

PALAEOCENE-EOCENE

Te — EYRE FORMATION: fluviatile sand and conglomerate, usually silcreted (Lake Eyre Basin); HAMPTON SANDSTONE: marine sand (Eucla Basin); MASLIN SANDS: fluviatile to marginal marine siliceous sand (St Vincent Basin); WILLALINCHINA SANDSTONE: fluvial sand (Billa Kalina Basin).

**MESOZOIC**

CRETACEOUS

Kw — WINTON FORMATION, BLANCHEWATER FORMATION: fluvio-lacustrine mudstone and siltstone; MACKUNDA FORMATION: marginal marine sandstone and siltstone.

Ko — OODNADATTA FORMATION: marine mudstone.

Kk — COORIKIANA SANDSTONE: marginal marine sandstone and mudstone.

Kb — BULLDOG SHALE: marine mudstone.

Kc — CADNA-OWIE FORMATION (Kc): transitional, non marine to marine sandstone and siltstone.

JURASSIC

Ja — ALGEBUCKINA SANDSTONE (Ja): fluviatile sandstone.

Jp — POLDA FORMATION (Jp): fluviatile sandstone and conglomerate.

**CARBONIFEROUS -PERMIAN**

C-P — CAPE JERVIS FORMATION (Troubridge Basin); BOORTHANNA FORMATION, STUART RANGE FORMATION, MOUNT TOONDINA FORMATION (Arckaringa Basin): glaciomarine and fluvioglacial sediments, including diamictite. ALPANA FORMATION (near Blinman).

**PALAEOZOIC**

**CAMBRIAN**

Єf — LAKE FROME GROUP, WIRREALPA LIMESTONE, BILLY CREEK FORMATION (Єf): shallow marine to terrestial redbeds, marine limestone.

Pyritic metasiltstone.

Єk — KANMANTOO GROUP (Єk): marine, lithic metasandstone, phyllite, schist, gneiss, minor calcsilicate and marble.

V V V — Mafic to intermediate TRURO VOLCANICS (v).

Єh — HAWKER and NORMANVILLE GROUPS (Єh): marine shelf to basinal carbonate, minor sandstone. Includes marginal marine sandstone of URATANNA FORMATION below HAWKER GROUP.

Єi — KANGAROO ISLAND GROUP (Єi): shallow marine sandstone, quartzite, shale and conglomerate.

**PROTEROZOIC**

**LATE PROTEROZOIC**

**ADELAIDEAN**

Pw — WILPENA GROUP: dominantly marine shale, siltstone, sandstone and limestone.

ABC RANGE QUARTZITE and equivalents: deltaic sandstone.

Pu — UMBERATANA GROUP: marine and marginal marine siltstone and sandstone; oolitic, sandy and stromatolitic limestone. Glaciomarine diamictite and siltstone and aeolian sandstone at top.

Glaciomarine diamictite, sandstone, siltstone, conglomerate and ironstone.

Pb — BURRA GROUP: marine shale and siltstone; deltaic sandstone; lagoonal and lacustrine stromatolitic limestone and sedimentary magnesite.

Pe — EMEROO SUBGROUP: fluvio-deltaic sandstone, conglomerate, siltstone and minor dolomite.

CALLANNA GROUP: evaporitic clastics and carbonates.

V V — WOOLTANA VOLCANICS and equivalent units: basalt (v). Diapiric carbonate-cemented breccia.

Pe — BEDA VOLCANICS: basalt; BACKY POINT FORMATION: fluviatile sandstone and conglomerate.

Pa — PANDURRA FORMATION: fluviatile sandstone, minor shale.

Pyh — HILTABA SUITE: granitoids; includes WIRRIECURRIE GRANITE (Peake and Denison Inliers), BALTA GRANITE (Mt Woods Inlier), CHARLESTON, TICKERA and ARTHURTON GRANITES (eastern Gawler Craton) and equivalents within the Willyama Inlier.

**MIDDLE PROTEROZOIC**

Py — LABYRINTH FORMATION (Py): lithic sandstone, conglomerate, chert; CORUNNA CONGLOMERATE (Pc): sandstone, talus breccia, conglomerate, siltstone; BLUE RANGE BEDS (Pb): sandstone, conglomerate.

Pc

Pb

YARDEA DACITE.

Pa2 — "Younger" GAWLER RANGE VOLCANICS: acid volcanics.

Pa1 — "Older" GAWLER RANGE VOLCANICS, including ROOPENA and older NUYTS VOLCANICS: acid and basic volcanics.

Pt — TARCOOLA FORMATION: quartzite, shale, conglomerate.

**EARLY PROTEROZOIC**

Pl — LINCOLN COMPLEX (southern Gawler Craton) and equivalents in the Mt Painter Inlier and Willyama Inlier: gneiss and migmatite, foliated and non-foliated granitoids. ENGENINA ADAMELLITE (Mt Woods inlier), MUCKANIPPIE DIORITE (northwestern Gawler Craton). WATARU GNEISS (Pw).

Pw

Λ Λ — BOSANQUET FORMATION: rhyodacite, calcsilicate, breccia (v). Iron Formation.

Ph — HUTCHISON GROUP (Gawler Craton); MUSGRAVE-MANN METAMORPHICS (Musgrave Block); PEAKE METAMORPHICS (Peake and Denison Inliers); WILLYAMA SUPERGROUP (Willyama Inlier) and equivalents in the Mt Woods, Mt Painter and Mt Lofty Ranges Inliers: metasediments.

WARROW QUARTZITE: micaceous, feldspathic quartzite.

**ARCHAEAN**

AP — SLEAFORD COMPLEX (southern Gawler Craton) and MULGATHING COMPLEX (northern Gawler Craton): metasedimentary and granitic gneiss, amphibolite (including pillow basalt); granitoids.

Iron formation.

*Note: Not all units shown in this legend appear on the geologocal map, Figure 4.*

**FIGURE 4a**

**GEOLOGICAL REFERENCE TO ACCOMPANY SURFACE GEOLOGICAL MAP (FIGURE 4)**

DME_SA 93-40a

500 000mE

600 000mE

700 000mE

6 700 000mN

6 600 000mN

6 500 000mN

6 400 000mN

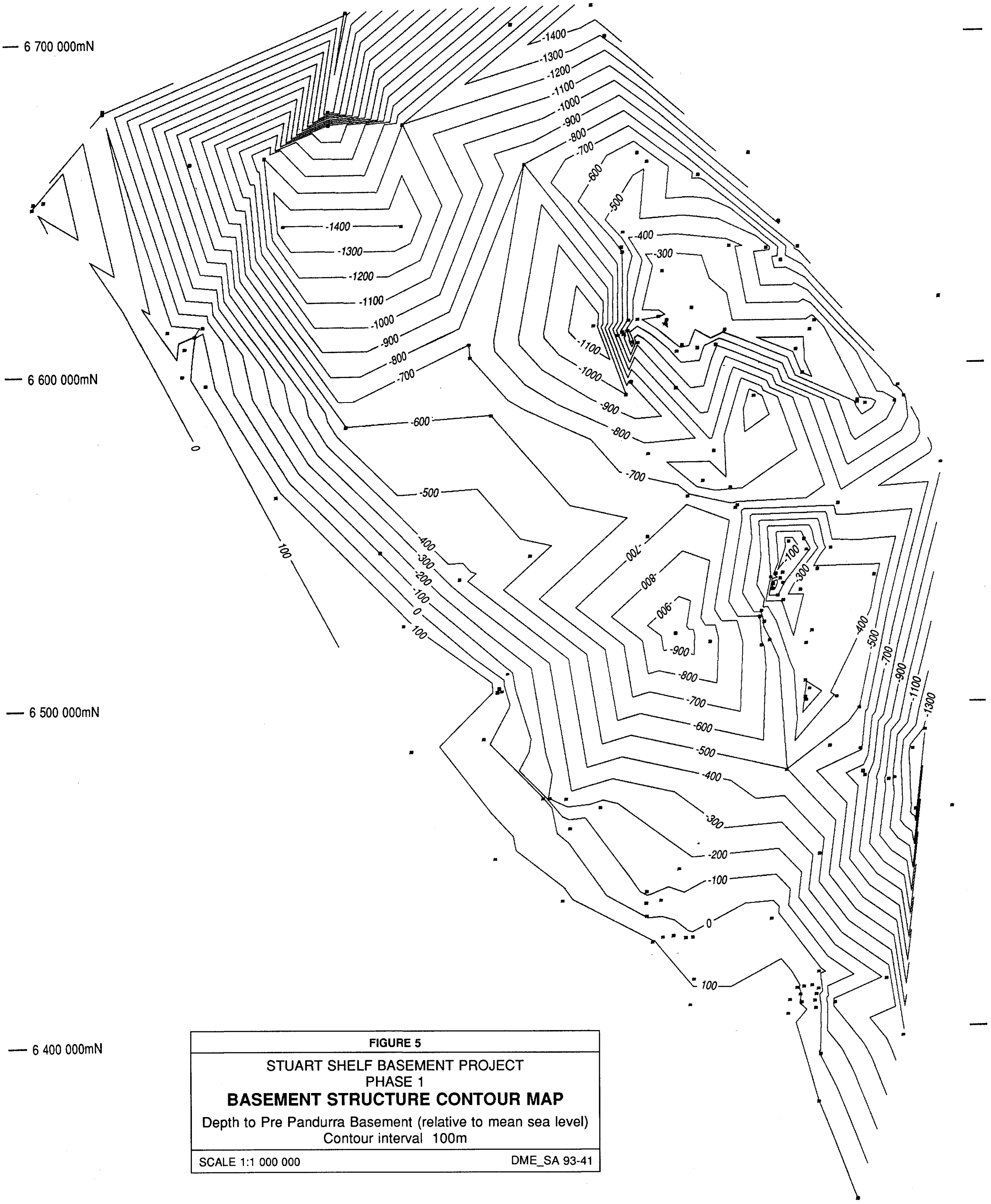


**FIGURE 5**

STUART SHELF BASEMENT PROJECT
PHASE 1

## BASEMENT STRUCTURE CONTOUR MAP

Depth to Pre Pandurra Basement (relative to mean sea level)
Contour interval 100m

SCALE 1:1 000 000 DME_SA 93-41

500 000mE

600 000mE

700 000mE

6 700 000mN

6 600 000mN

6 500 000mN

6 400 000mN

**FIGURE 6**

STUART SHELF BASEMENT PROJECT
PHASE 1

# IMAGE OF BOUGUER GRAVITY

SCALE 1:1 000 000

DME_SA 93-42

Geological province boundary

Fault

Torrens Hinge Zone

| | |
|---|---|
| OD | Olympic Dam Mine |
| A | Acropolis Prospect |
| MG | Mount Gunson Mine |
| G | Glenloth Goldfield |
| LA | Lake Acraman |
| MWI | Mount Woods Inlier |

MWI

ELIZABETH CREEK FAULT

NORTH WEST

NORTH EAST

AGS

NORWEST FAULT

OD

A

G

MG

SOUTH WEST

LA

500 000mE

600 000mE

700 000mE

6 700 000mN

6 600 000mN

6 500 000mN

6 400 000mN

FIGURE 7

STUART SHELF BASEMENT PROJECT
PHASE 1

**IMAGE OF TOTAL MAGNETIC INTENSITY AND MAGNETIC GRADIENT**

SCALE 1:1 000 000

DME_SA 93-43

Geological province boundary

Fault

Torrens Hinge Zone

| | |
|---|---|
| OD | Olympic Dam Mine |
| A | Acropolis Prospect |
| MG | Mount Gunson Mine |
| G | Glenloth Goldfield |
| LA | Lake Acraman |
| MWI | Mount Woods Inlier |

MWI

NORWEST FAULT

AGS

ELIZABETH CREEK FAULT

OLYMPIC DAM

A

NORTH EAST

CENTRAL

G

SOUTH WEST

MT GUNSON

AGS

LA

600 000mE

700 000mE

6 700 000mN

6 400 000mN

**FIGURE 8**

STUART SHELF BASEMENT PROJECT
PHASE 1

# INTERPRETED BASEMENT GEOLOGY

SCALE 1:1 000 000 DME_SA 93-993

MT WOODS INLIER

ADELAIDE GEOSYNCLINE

OLYMPIC DAM

ELIZABETH CREEK FAULT

CR

PANDURRA FORMATION LIMIT

MT GUNSON

ER

GR

AR

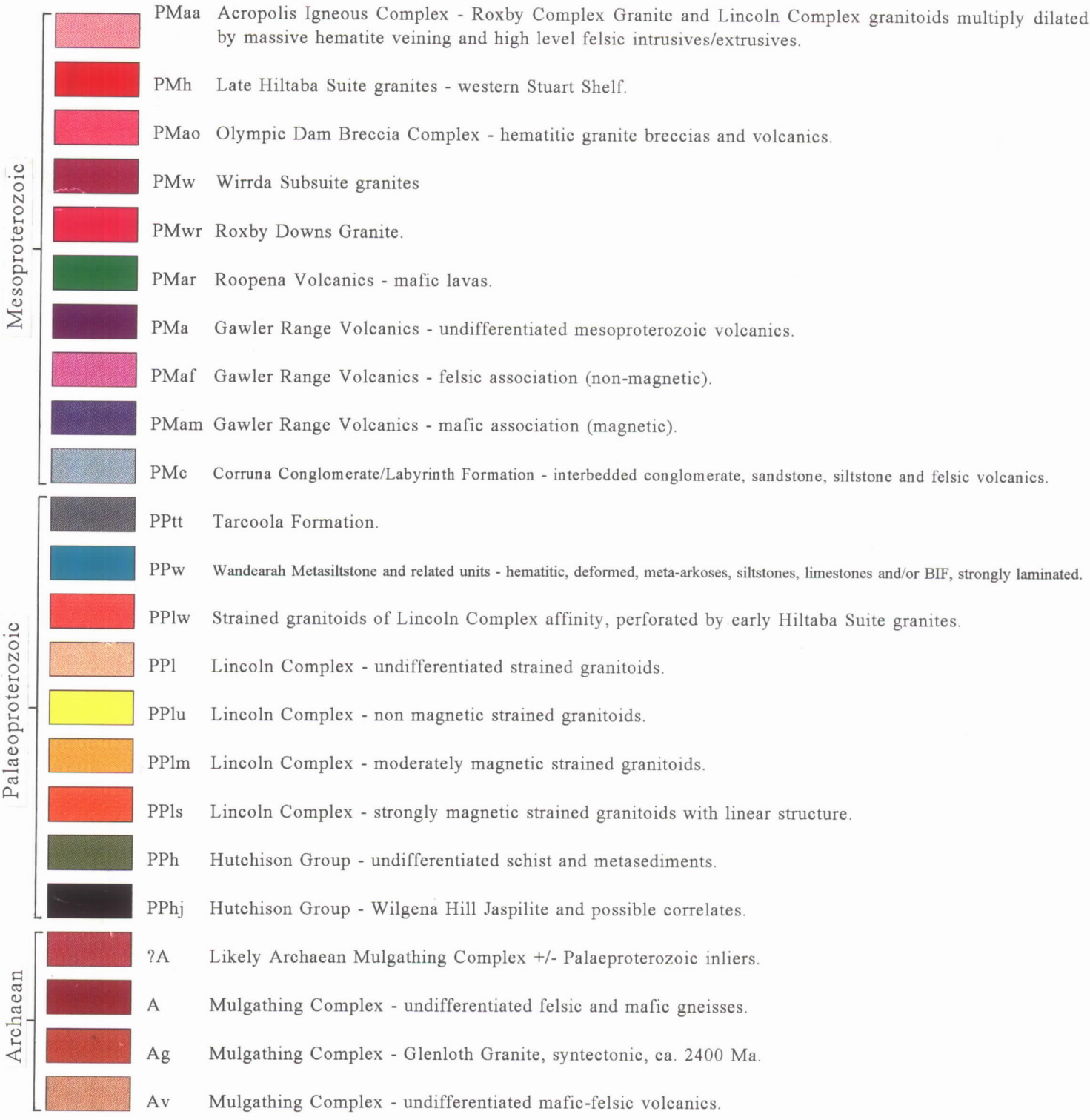


**FIGURE 8a**

**GEOLOGICAL REFERENCE TO ACCOMPANY SURFACE GEOLOGY (FIGURE 8)**

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