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No. 11,181

EL 3113, EL 3114, EL 3124, EL 3127, EL 3212, EL 3213, EL 3223, EL 3230, EL 3231, EL 3514, EL 3588 AND EL 4223

**NORTHERN FLINDERS RANGES
(LEIGH CREEK CORRIDOR PROJECT)**

**JOINT ANNUAL REPORTS TO LICENCES' COMBINED
SURRENDER, FOR THE PERIOD 2/11/2004 TO 1/11/2009**

Submitted by
NRG Flinders Operating Services Pty Ltd and Babcock & Brown Power
2009

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Government of South Australia
Primary Industries and Resources SA

NRG FLINDERS
AMALGAMATED ANNUAL TECHNICAL REPORT
12 MONTH PERIOD TO 1 NOVEMBER 2005

Exploration Licence Areas

EL 3113

EL 3114

EL 3124

EL 3127

EL 3212

EL 3213

EL 3223

EL 3230

EL3231

Robert Williams
Senior Process Engineer
NRG Flinders
5 July 2006

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Report text file:	NRG Amalgamated report.doc
Gravity data file:	NRG Amalgamated data.xls
EL Schedule A maps:	NRG Amalgamated report Sched A's.pdf

1. INTRODUCTION

NRG Flinders is engaged in a coal exploration program through the Northern Flinders Ranges region of South Australia. Following a review of open file information and regional geophysical data NRG engaged Daishsat Geodetic Surveyors to complete a gravity survey program in the period Dec 2004 to March 2005 on a number of prospective target areas.

Following evaluation of the gravity results, portions of a number of the EL areas have been relinquished under a surrender program. Accordingly gravity data pertaining to the areas for which surrender has been initiated was submitted for incorporation into the state database in NRG Surrender Report dated 13 June 2006. That surrender report included a data CD containing gravity data for those areas either surrendered or in the process of surrender as at the date of this annual report.

This amalgamated annual report includes only the remaining gravity data from the program for the existing NRG exploration licence areas. There is no further data remaining from the Dec 04/March 05 gravity program to be submitted. This report provides a total of 1799 measurements which includes 1632 new stations and 167 repeats which, when added to the data provided previously, gives project totals of 2211 measurements of which 2006 are new stations and 205 are repeats.

Included with this data are 7 stations adjacent to the P10/P11 target area which were inadvertently included as a consequence of a navigational error. Since these are not contained within any existing tenement they may be added to the state public database at this time.

Details on the conduct of the survey program and details of the Gravity Base Stations used are provided in the following discussion while project gravity data including GPS survey, and AHD are submitted in Excel file *NRG Amalgamated data.xls*. This Excel file contains four worksheets:

1. Data for this report with the seven points outside NRG tenements at the base of the spreadsheet.
2. Data for this report by NRG target area.
3. Reports data status summary identifying where data was submitted with the surrender report.
4. Station statistics summary.

Since the target areas cross EL boundaries in several instances there has been no attempt to separate the data according to EL boundary.

Gravity stations were nominally on 1km traverses at 500m spacings and located within the prospective target areas identified from the previous phases of the project.

The following discussion simply outlines technical detail on the conduct of the survey and data processing. It has been reproduced from the Daishsat Project Report *Leigh Creek Corridor Gravity Survey 2004/2005* Report No 04012-1 by L Matthews and L Czaban.

2. GPS SURVEYING AND PROCESSING

2.1 Set out of the grid

This was done concurrently with the gravity data acquisition using Garmin navigation GPS receivers. Where possible, the readings were taken as close to the grid coordinates as possible. Some stations were offset or omitted due to the nature of the terrain, e.g. hilly or thickly vegetated areas. As the Garmin GPS receivers were operating in autonomous mode, set out accuracy was usually better than 10m depending on the nature of the terrain.

The GPS antenna was mounted on the roof of the vehicle, with all gravity measurements conducted directly underneath the antenna. Post-processed kinematic surveying was used to obtain centimeter level coordinates for each station. Since the gravity crew concurrently observed GPS data, it was not necessary to leave markers or flagging at the stations. However, at the repeat stations, a washer tied to pink flagging, marked with the station number, was used for identification.

2.2 Survey datum and control

The gravity surveying, and hence any gravity reductions, used the Australian Height Datum (AHD) as the reference datum. All GPS base stations were established using at least one days worth of high quality dual frequency static data, and connections to ITRF stations using AUSLIG's online GPS processing system, AUSPOS. For more information on this system, see <http://www.ga.gov.au/nmd/geodesy/sgc/wwwgps/>.

2.3 Processing of the position and level data

The raw GPS data were recorded on the internal RAM of the GPS receivers. Both types of receiver were downloaded onto computers nightly. All data were then processed using Waypoint GrafNav V6.03. Waypoint combines the processing components, GrafNav and GrafNet, in a complete package.

GrafNav processes data for one baseline (e.g. one base and one remote). GrafNav is normally used for kinematic data which it is extremely well suited for. It can also process single static baselines. Receiver types can be mixed and matched via the use of a common format. This component of Waypoint was used for processing the kinematic data acquired each day.

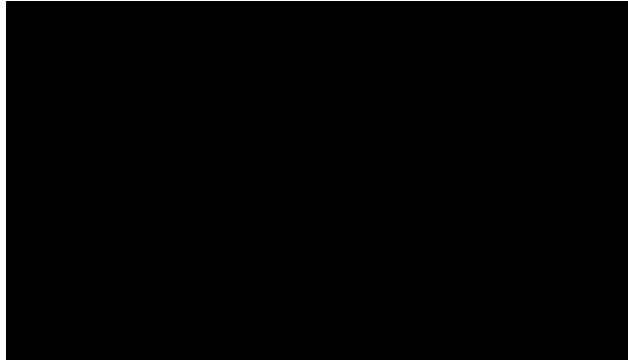
For more information about Waypoint processing software, and in particular, Grafnav, see http://www.waypnt.com/grafnav_d.html.

Simple transformations to MGA and AHD were done using the GPS derived WGS84 positions output from Waypoint Grafnav.

MGA94 coordinates were obtained by simply projecting the GPS-derived WGS84 coordinates using a UTM projection with zone 53S or 54S. For all practicable purposes, the WGS84 geodetic coordinates are equivalent to GDA94 geodetic coordinates, so no transformation is necessary. For more information about GDA94 and MGA94, see <http://www.ga.gov.au/nmd/geodesy/datums/aboutdatums.jsp>.

AHD heights were calculated nightly using Waypoint interpolation algorithms and the latest geoid model for Australia, AUSGEOID98. Information about the geoid, and the modeling process used to extract separations (N values) can be found at

<http://www.ga.gov.au/nmd/geodesy/ausgeoid/index.jsp>. To obtain AHD height, the modeled N value is subtracted from the GPS derived WGS84 ellipsoidal height (Figure 2).



2.4 GPS Performance

Performance from the GPS system was excellent. There was a small amount of downtime due to poor geometry and/or trees, while one GPS receiver failed in the field and had to be replaced with a spare receiver.

3. GRAVITY ACQUISITION AND PROCESSING

3.1 Gravity data acquisition

Gravity observations were made concurrently with the GPS (see Photo 2). Two observations were made for each station. Each observation consisted of a 20-second or greater stacking time. Two observations were made at each station so that any seismic or instrumental noise could be immediately detected. The accepted tolerance between readings was limited to 0.03 milliGals to ensure accuracy. Vertical and horizontal levels were restricted to 10 arc seconds at all times. At each station, the station number, time and two gravity readings (in dial units) were recorded in DAISHSAT carbon-copy gravity field books. The Scintrex CG5u and Scintrex 3M gravity meters automatically record the station, time and readings digitally to allow for downloading to computer.



Photo 2 –Crew member Clinton Withish performing Gravity and GPS Acquisition.

3.2 Gravity base stations

Two existing Geoscience Australia AFGN gravity bases (AFGN Station No. 1964911117 Hawker Area School & AFGN Station No. 1964919117 Hawker Air Strip) were used for calculation of absolute gravity of the field base stations used in the survey. Ties were done to the AFGN stations using an ABA structure with multiple meters over multiple days. Details of the gravity bases utilised are contained in Section 4. When in the field, a base station reading was taken in the morning before observing, at around mid day and then in evening after the last observation. When taking a base station reading, the observed gravity values were stacked over 60 seconds to ensure accuracy. Two observations of 60 seconds were taken at each base reading. Observations were repeated until the readings repeated to 0.01 milliGals or less.

3.3 Gravity data processing

Raw gravity data were processed on a daily basis to check for quality and integrity. This interim process produced a set of Bouguer Gravity values, which were contoured and imaged to provide a check for any anomalous readings that would need repeating. Geosoft GRAVRED software was used for the gravity reduction in the field. Upon conclusion of the job, data were reprocessed using the standard GA formulae using Daishsat proprietary software. Other software used on this project includes: Arcview, ChrisDBF, Waypoint, Leica Geo Office and ERMAPPER. The formulae used are listed below:

Instrument scale factor: This correction was used to correct a gravity reading (in dial units) to a relative gravity unit value based on the meter calibration.

Tidal correction: This correction was used to correct for background variations due to changes in the relative position of the moon and sun. The Scintrex calculated ETC was removed and a new ETC calculated using Geosoft Formulae and the surveyed GPS latitude. The formula is too complex to list here.

Instrument Drift: Since gravity meters are mechanical, they are prone to drift (extension of the spring with heat, obeying Hooke's law). If two base readings are taken one can assume that the drift between the two readings is linear and can therefore be calculated. The drift and tidal corrected value is referred to as the *observed gravity*.

Theoretical Gravity: The theoretical value of gravity was calculated using the 1967 variant of the International Gravity Formula and used to latitude correct the observed gravity.

$$G_t = 9,780,318.456 * (1 + 0.005278895 * \sin^2 \Phi + 0.000023462 * \sin^4 \Phi)$$

where Φ represents degrees of latitude;

Free-Air Correction: Since gravity varies inversely with the square of distance, it is necessary to correct for changes in elevation between stations to reduce field readings to a datum surface (in this case, AHD).

$$(3.08768 - 0.00440 \sin^2 \Phi) * h - 0.000001442 * h^2 \text{ } \mu\text{ms}^{-2} \text{ per metre}$$

Bouguer Correction: This correction accounts for the attraction of material between the station and datum plane that is ignored in the free-air calculation. Values of 2.67, 2.40 and 2.20 gm/cc were used in the correction.

$$0.4191 * \rho \text{ } \mu\text{ms}^{-2} \text{ per metre}$$

where ρ = density 2.67, 2.40, 2.20 gm/cc

Terrain Correction: This correction accounts for the attraction of material above the assumed Bouguer slab and for the over-correction made by the Bouguer correction when in valleys. This correction was not applied as the survey area was relatively flat.

Free Air Gravity: This is obtained by applying the free air correction (FAC) to the observed gravity reading.

$$\text{FAG} = G_{\text{OBSG84}} - G_n + \text{FAC}$$

Bouguer Gravity: This is obtained when all the preceding reductions or corrections have been applied to the observed gravity reading.

$$\text{BG}_{267,240,227} = G_{\text{OBSG84}} - G_t + \text{FAC} - \text{BC}$$

3.4 Gravity meter scale factors

Derived scale factors from these calibrations are shown below:

CG5u	24921(A)	SF = 1.000000
CG3M	9711410(S)	SF = 1.000000
CG3M	9704365(R)	SF = 1.000000

4. GRAVITY STATION DETAILS

4.1 AFGN Gravity Base 1964911117 (Hawker School)

MGA94

EASTING (m) 256812

NORTHING (m) 6468850

ZONE (UTM) 54 South

HEIGHT (AHD, m) 322.06

GDA94

LATITUDE (DMS) 32° 53' 24.7344" S

LONGITUDE (DMS) 138° 25' 43.7160" E

OBSERVED GRAVITY

979380.470 (mGals)

SURVEYED BY GPS – Published Geoscience Australia coordinates. Conversion for MGA coordinates completed using Leica Geo Office Software

Gravity – Published Geoscience Australia absolute gravity value.

MISCELLANEOUS DETAILS

The station is on concrete underneath the verandah of one of the school buildings at the Hawker Area School. Refer to the plate supplied by GA with the AFGN station summary for an approximate position. More buildings have been added to the school since this plate was prepared. A basketball court now lies in the centre of a ring of buildings, and the building adjacent to the station lies on the eastern side of the court. The station is near the western corner of the building in question. Some features on the plate, such as the tank, the flagpole and the school bell still remain, the trough no longer exists. A brass plaque had been placed, but has since been removed or destroyed. The remains of the glue that was used to affix the plaque to the concrete are still evident.



Photos of GPS Gravity Base 1964911117 with distinguishing features in background

4.2 AFGN Gravity Base 1964919117 (Hawker Cricket Pitch)

MGA94

EASTING (m) 256812

NORTHING (m) 6468850

E ZONE (UTM) 54 South

HEIGHT (AHD, m) 321.52

GDA94

LATITUDE (DMS) 31° 53' 24.7344" S

LONGITUDE (DMS) 138° 25' 46.7040" E

OBSERVED GRAVITY

979380.410 (mGals)

SURVEYED BY

GPS – Published Geoscience Australia coordinates. Conversion for MGA coordinates completed using Leica Geo Office Software

Gravity – Published Geoscience Australia absolute gravity value.

MISCELLANEOUS DETAILS

This is an AFGN absolute gravity base. The station is on a disused concrete cricket pitch to the northeast of the Hawker Area School. The brass disc that had been placed has been destroyed. The readings for this station were taken in the middle of the pitch as the description in the description plate describes. Most of the features shown on the plate supplied by Geoscience Australia are now gone.



Photo of GPS Gravity Base 1964919117 with distinguishing features in background

4.3 Base 0048 – GPS Gravity Base 0048 Johnburgh

MGA94

EASTING (m) 281924.080

NORTHING (m) 6396210.276

E ZONE (UTM) 54 South

HEIGHT (AHD, m) 362.010

GDA94

LATITUDE (DMS) 32° 33' 00.2986" S

LONGITUDE (DMS) 138° 40' 39.0821" E

GDAHT (m) 369.261

N (AUSGEOID98, m) 7.249

OBSERVED GRAVITY

979431.871 (mGals)

SURVEYED BY

GPS - Daishsat using multiple static sessions and the AUSPOS online GPS Processing system. Expected accuracy of station coordinates better than 0.005m.

Gravity – ABA tie to Geoscience Australia

AFGN Station 1964911117 (Hawker Area School). Expected accuracy better than 0.03 mGals.

MISCELLANEOUS DETAILS

This is a station placed - it consists of a short star picket driven to about 20mm above ground level and is witnessed by a Daishsat plaque "0048" placed on a large star picket ~ 0.3m to the right. The station is located approx 150m west of the intersection Orroroo - Johnburgh Road and Colliny Road. The road at the intersection is closed by an old gate, but is unlocked. The station is not visible from the main road.



Photo of GPS Gravity Base 0048 with distinguishing features in background

4.4 Base 0049 – GPS Base 0049 Hookina MGA94

EASTING (m) 239888.399

NORTHING (m) 6478048.059

E ZONE (UTM) 54 South

HEIGHT (AHD, m) 155.104

GDA94

LATITUDE (DMS) 31° 48' 12.8659" S

LONGITUDE (DMS) 138° 15' 09.0318" E

GDAHT (m) 161.391

N (AUSGEOID98, m) 6.287

OBSERVED GRAVITY

979405.951 (mGals)

SURVEYED BY

GPS - Daishsat using multiple static sessions and the AUSPOS online GPS Processing system. Expected accuracy of station coordinates better than 0.005m.

Gravity – Average of field observations over four days. Tie to Geoscience Australia AFGN Station 1964911117 (Hawker Area School). Expected accuracy better than 0.02 mGals.

MISCELLANEOUS DETAILS

The station is located approx 400m west of the old Hookina township road intersection. At this point, a track runs off to the north and the station is approx 200m up the track on its western side. This is a station placed - it consists of a short star picket driven to about 20mm above ground level and is witnessed by a Daishsat plaque "0049" placed on a large star picket ~ 0.3m to the right.



Photos of GPS Gravity Base 0049 with distinguishing features in background

4.5 Base 0033 – GPS Gravity Base 0033 Parachilna

MGA94

EASTING (m) 251549.872

S NORTHING (m) 6552406.599

E ZONE (UTM) 54 South

HEIGHT (AHD, m) 138.675

GDA94

LATITUDE (DMS) 31° 08' 09.4879" S

LONGITUDE (DMS) 138° 23' 39.1884" E

GDAHT (m) 147.380

N (AUSGEOID98, m) 8.705

OBSERVED GRAVITY

979370.165 (mGals)

SURVEYED BY

GPS - Daishsat using a 24 hour static session and the AUSPOS online GPS Processing system. Expected accuracy of station coordinates better than 0.005m.

Gravity – ABABA ties to Geoscience Australia AFGN Station 1964911117 (Hawker Area School). Expected accuracy better than 0.01 mGals.

MISCELLANEOUS DETAILS

The station is located approx 100m south of the railway crossing on the southern boundary of the Parachilna township. The road going over the crossing services the Motpena Station. The station is 50m inside an unlocked gate on the western side of the tracks. This is a station placed - it consists of a short star picket driven to about 20mm above ground level and is witnessed by a Daishsat plaque "0033" placed on a large star picket ~ 0.3m to the right.



Photo of GPS Gravity Base 0033 with distinguishing features in background

4.6 Base 0034 – GPS Gravity Base 0034 Leigh Creek MGA94

EASTING (m) 250819.361

S NORTHING (m) 6611497.721

E ZONE (UTM) 54 South

HEIGHT (AHD, m) 247.486

GDA94

LATITUDE (DMS) 30° 36' 11.3903" S

LONGITUDE (DMS) 138° 24' 03.5486" E

GDAHT (m) 257.365

N (AUSGEOID98, m) 9.879

OBSERVED GRAVITY

979308.635 (mGals)

SURVEYED BY

GPS - Daishsat using a 24 hour static session and the AUSPOS online GPS Processing system. Expected accuracy of station coordinates better than 0.005m.

Gravity – ABABA ties to Geoscience Australia AFGN Station 1964911117 (Hawker Area School). Expected accuracy better than 0.01 mGals.

MISCELLANEOUS DETAILS

The mark is located 50m south of the Leigh Creek Water RO plant. This is accessed from the airport, and is the first right after crossing the railway line heading away from town towards the airport. The plant is located 150m south of the intersection, and is set back off the road 50m to the west of the road heading south. A concrete nail has been placed into a concrete pad near some water mains valves for GPS control. The gravity control is located in between the two valves that rise from the pad. A witness plaque has been affixed to the marker post for the valves.



Photo of GPS Gravity Base 0034 with distinguishing features in background

4.7 Base 0035 – GPS Gravity Base 0035 Farina Station

MGA94

EASTING (m) 237293.367

S NORTHING (m) 6670814.175

E ZONE (UTM) 54 South

HEIGHT (AHD, m) 89.890

GDA94

LATITUDE (DMS) 30° 03' 56.1608" S

LONGITUDE (DMS) 138° 16' 29.6252" E

GDAHT (m) 99.115

N (AUSGEOID98, m) 9.225

OBSERVED GRAVITY

979274.870 (mGals)

SURVEYED BY

GPS - Daishsat using a 24 hour static session and the AUSPOS online GPS Processing system. Expected accuracy of station coordinates better than 0.005m.

Gravity – ABABA ties to Daishsat GPS and Gravity Base 0034 (Leigh Creek). Expected accuracy better than 0.01 mGals.

MISCELLANEOUS DETAILS

The mark is located approx. 20m to the east of the house paddock, adjacent to the rear house

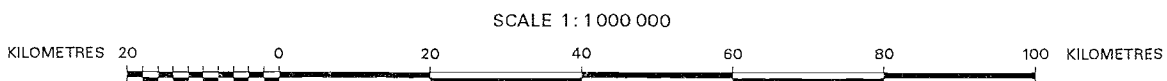
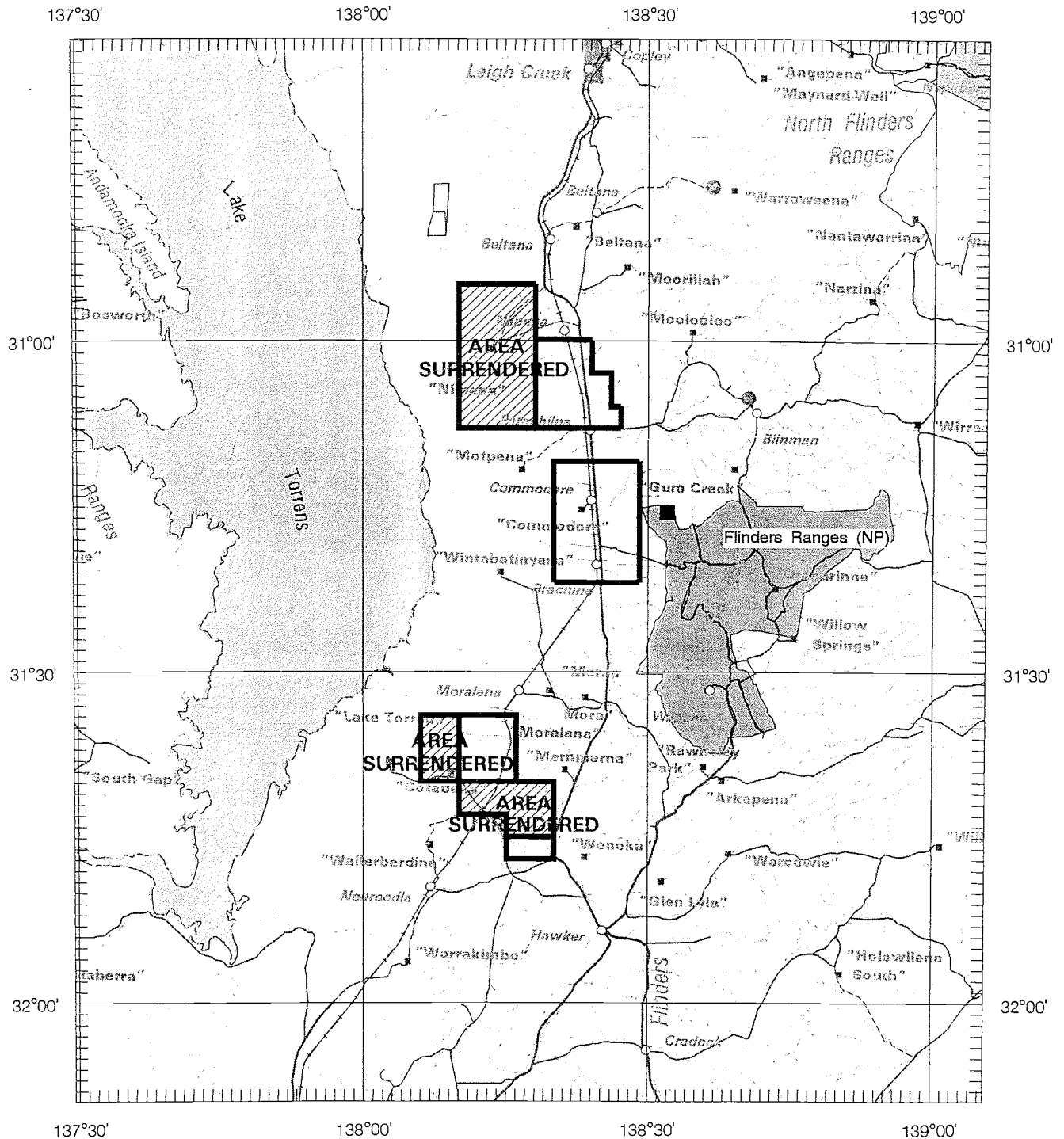
paddock gate and the station workshop. Farina station is 25km north of Lyndhurst on the Lyndhurst- Marree Road, where a turnoff to the old township and homestead is located and marked with directional finger signs. This is a station placed - it consists of two parts. A short star picket driven to about 20mm above ground level and is witnessed by a Daishsat plaque "0035" placed on a large star picket ~ 0.3m to the right for GPS control. The gravity control is located on a concrete pad that is 0.5 m to the east of the star picket.



Photo of GPS Gravity Base 0035 with distinguishing features in background

Amended
12.9.05

SCHEDULE A



LICENCE GRANTED IN : DATUM AGD66



APPLICANT : **FLINDERS POWER PARTNERSHIP**

FILE REF : **29/03**

TYPE : **MINERAL ONLY**

AREA : **602 km² (approx.)**

1:250000 MAPSHEETS : **COPLEY PARACHILNA**

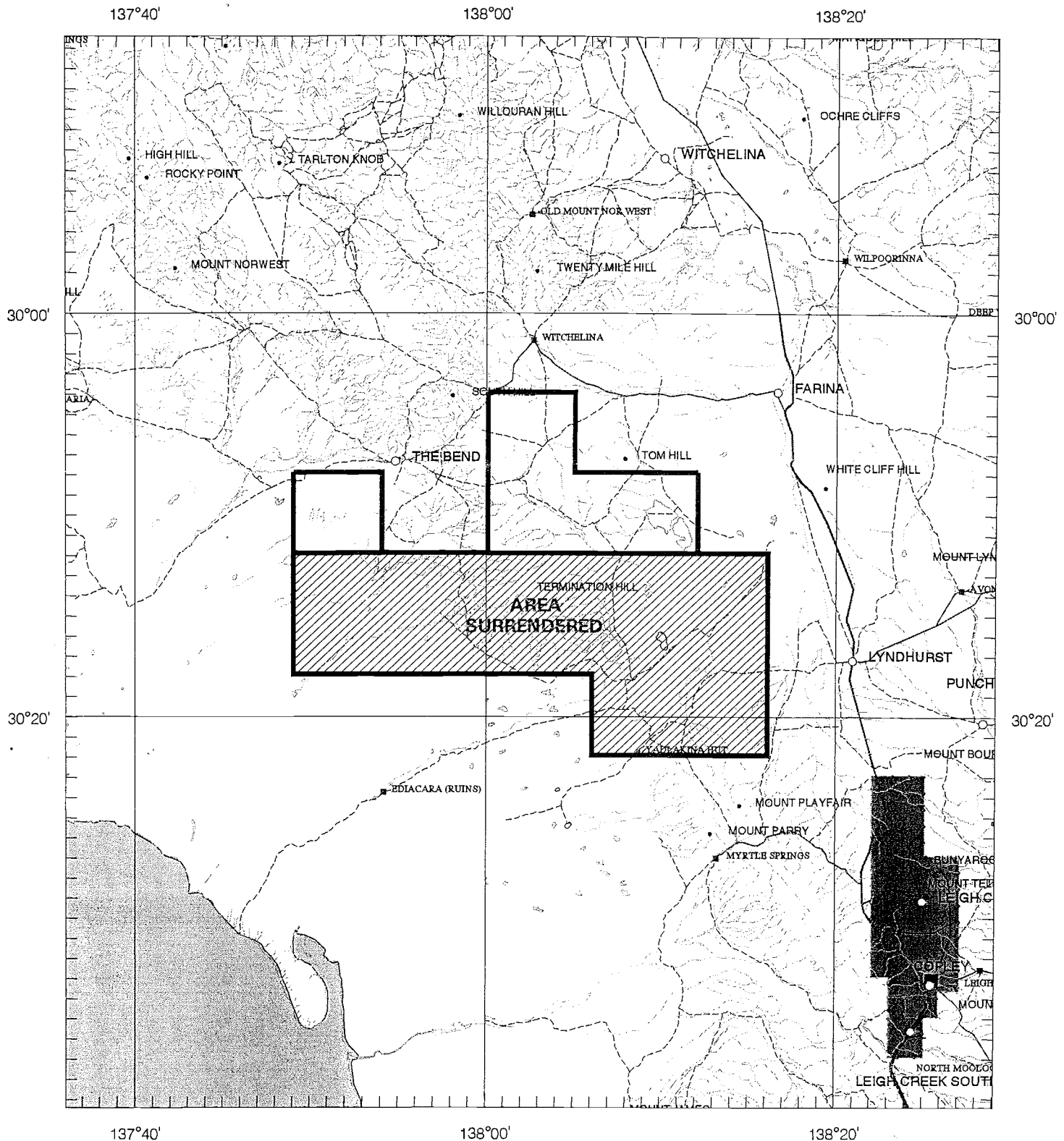
LOCALITY : **PARACHILNA AREA - Approximately 70 km SSW of Leigh Creek**

DATE GRANTED : **04-Aug-2003**

DATE EXPIRED : **03-Aug-2005**

EL NO : **3113**

SCHEDULE A



SCALE 1: 500 000
 KILOMETRES 10 0 10 20 30 40 50 KILOMETRES
 LICENCE GRANTED IN : DATUM AGD66



APPLICANT : **FLINDERS POWER PARTNERSHIP**

FILE REF : **28/03**

TYPE : **MINERAL ONLY**

AREA : **261 km² (approx.)**

1:250000 MAPSHEETS : **ANDAMOOKA COPLEY**

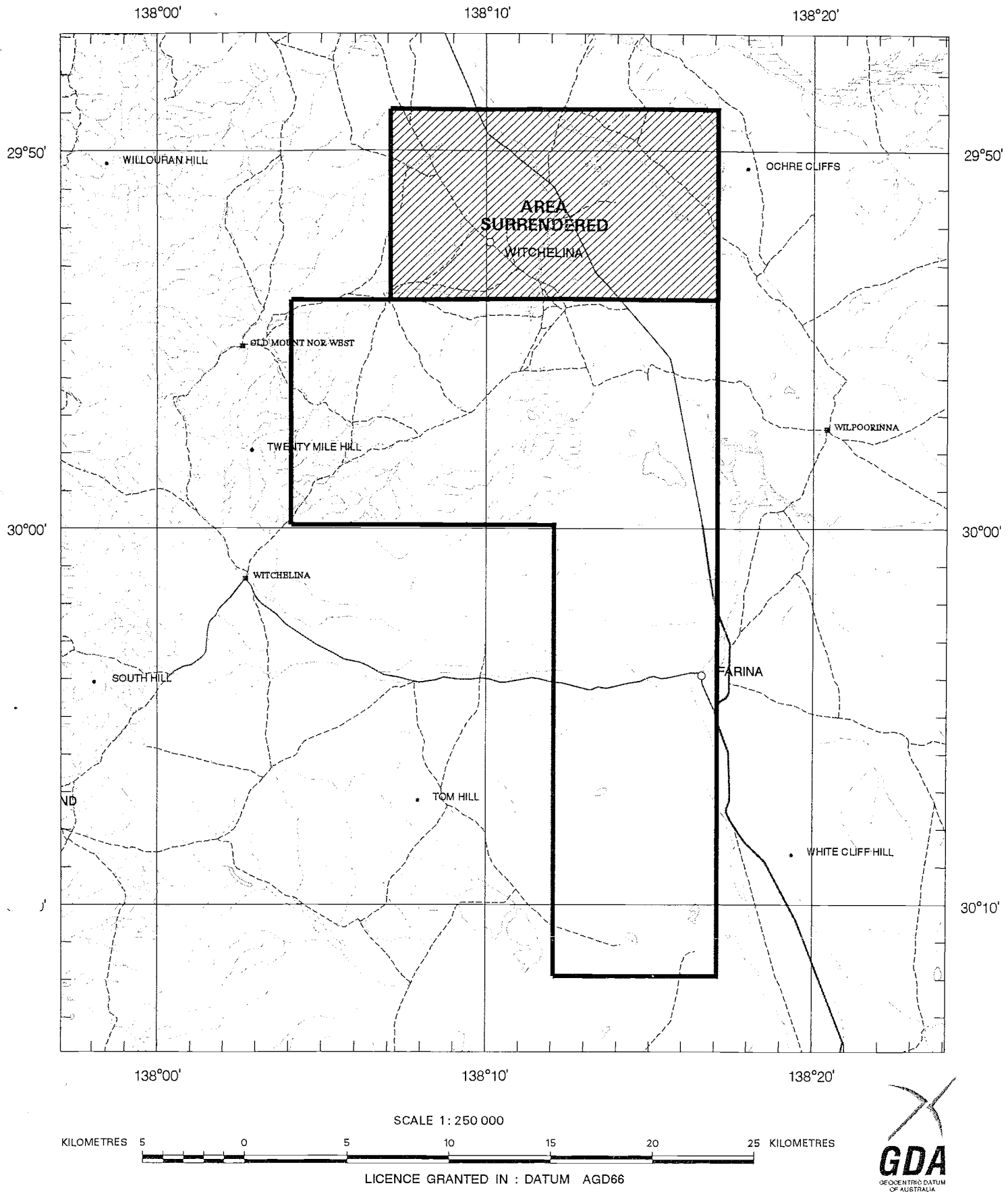
LOCALITY : **MYRTLE SPRINGS AREA - Approximately 40 km northwest of Leigh Creek**

DATE GRANTED : **04-Aug-2003**

DATE EXPIRED : **03-Aug-2005**

EL NO : **3114**

SCHEDULE A



APPLICANT : **FLINDERS POWER PARTNERSHIP**

FILE REF : **41/03**

TYPE : **MINERAL ONLY**

AREA : **410 km²** (approx.)

1:250000 MAPSHEETS : **MARREE COPLEY**

LOCALITY : **FARINA AREA - Approximately 25 km SSE of Marree**

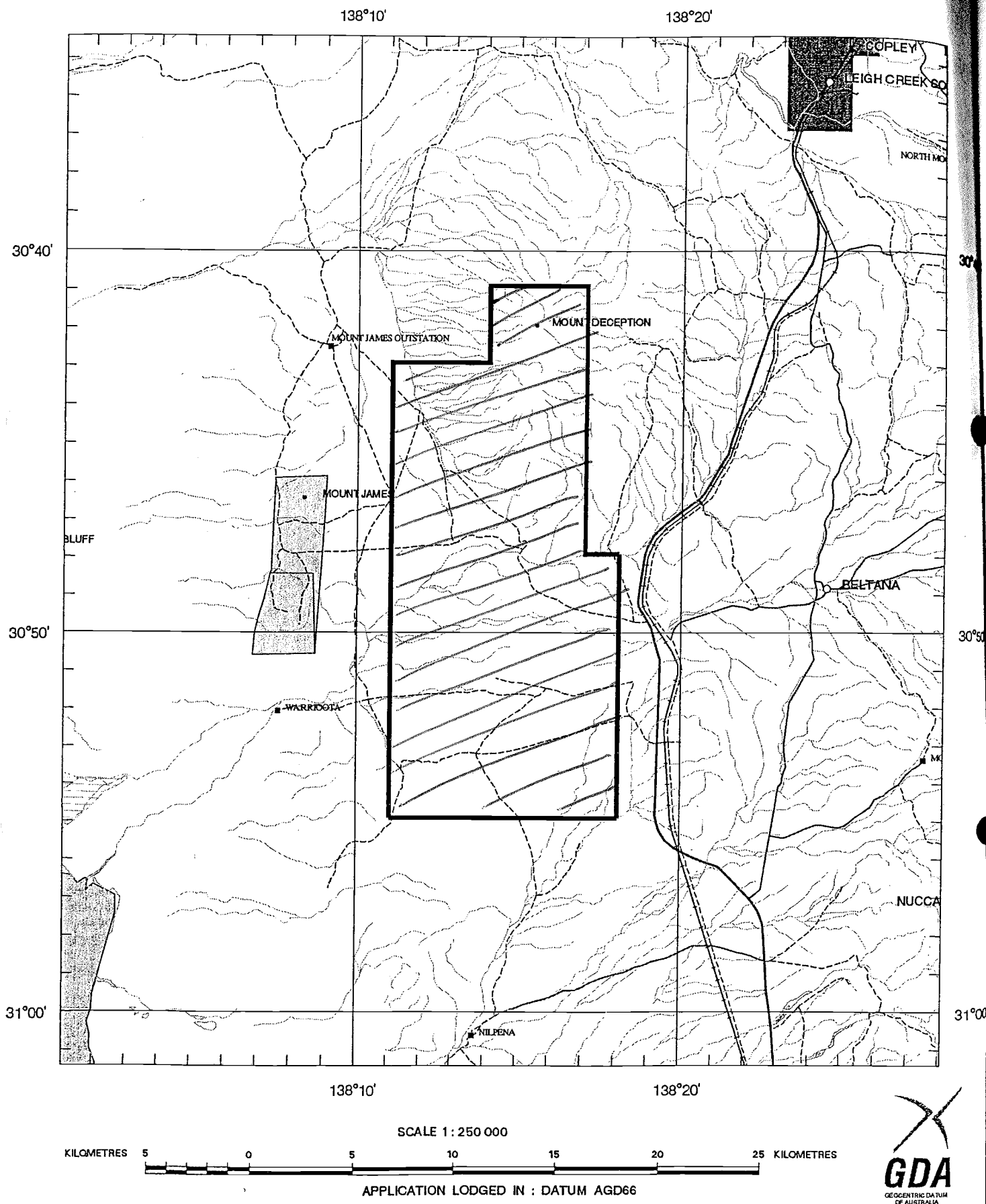
DATE GRANTED : **16-Sep-2003**

DATE EXPIRED : **15-Sep-2005**

EL NO : **3124**

SCHEDULE A

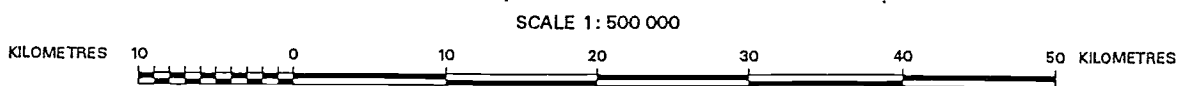
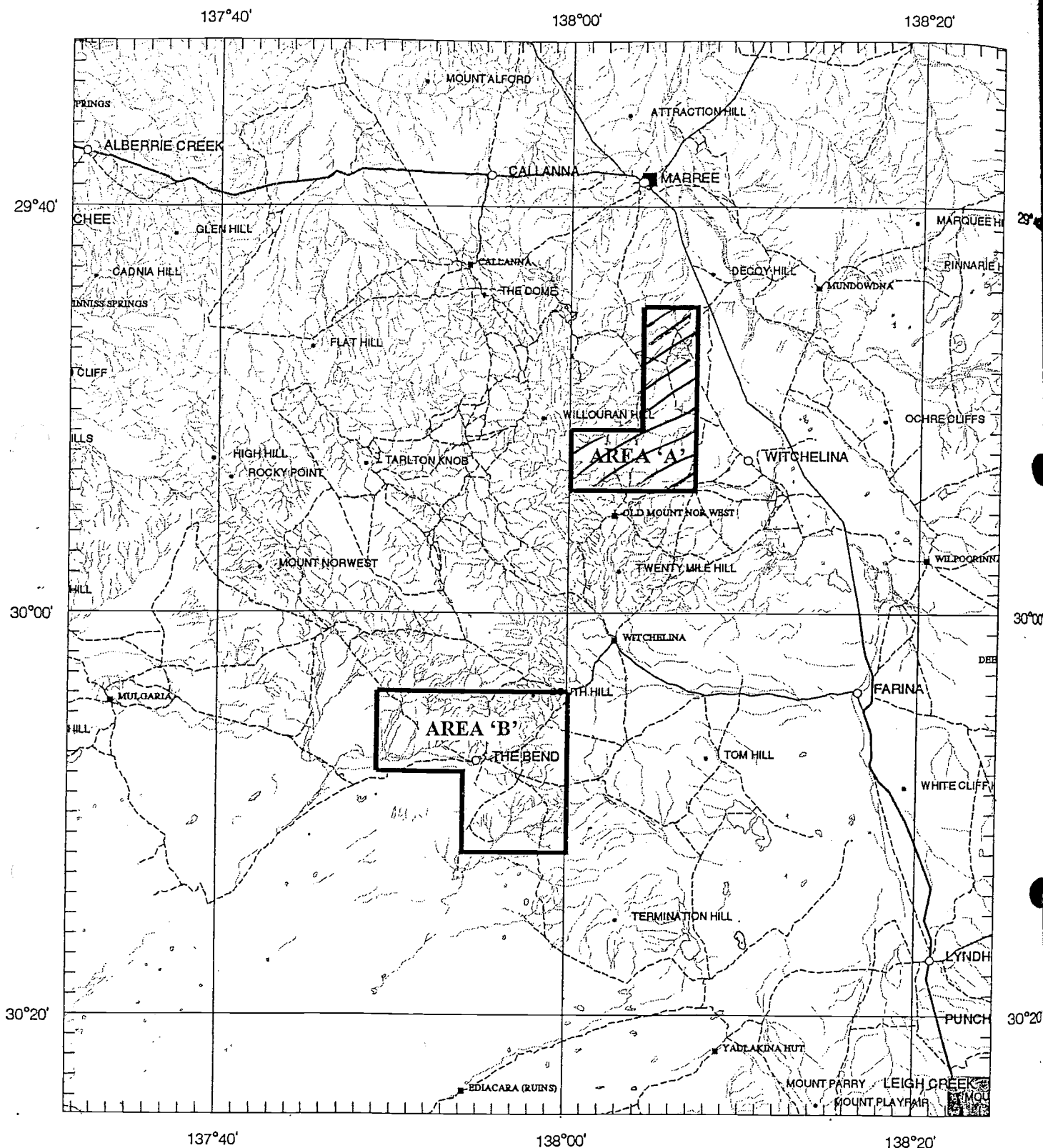
3127



NOTE: There is no warranty that the boundary of this Exploration Licence is correct in relation to the other features on the map. The boundary is to be ascertained by reference to the Australian Geodetic Datum.

SCHEDULE A

3212



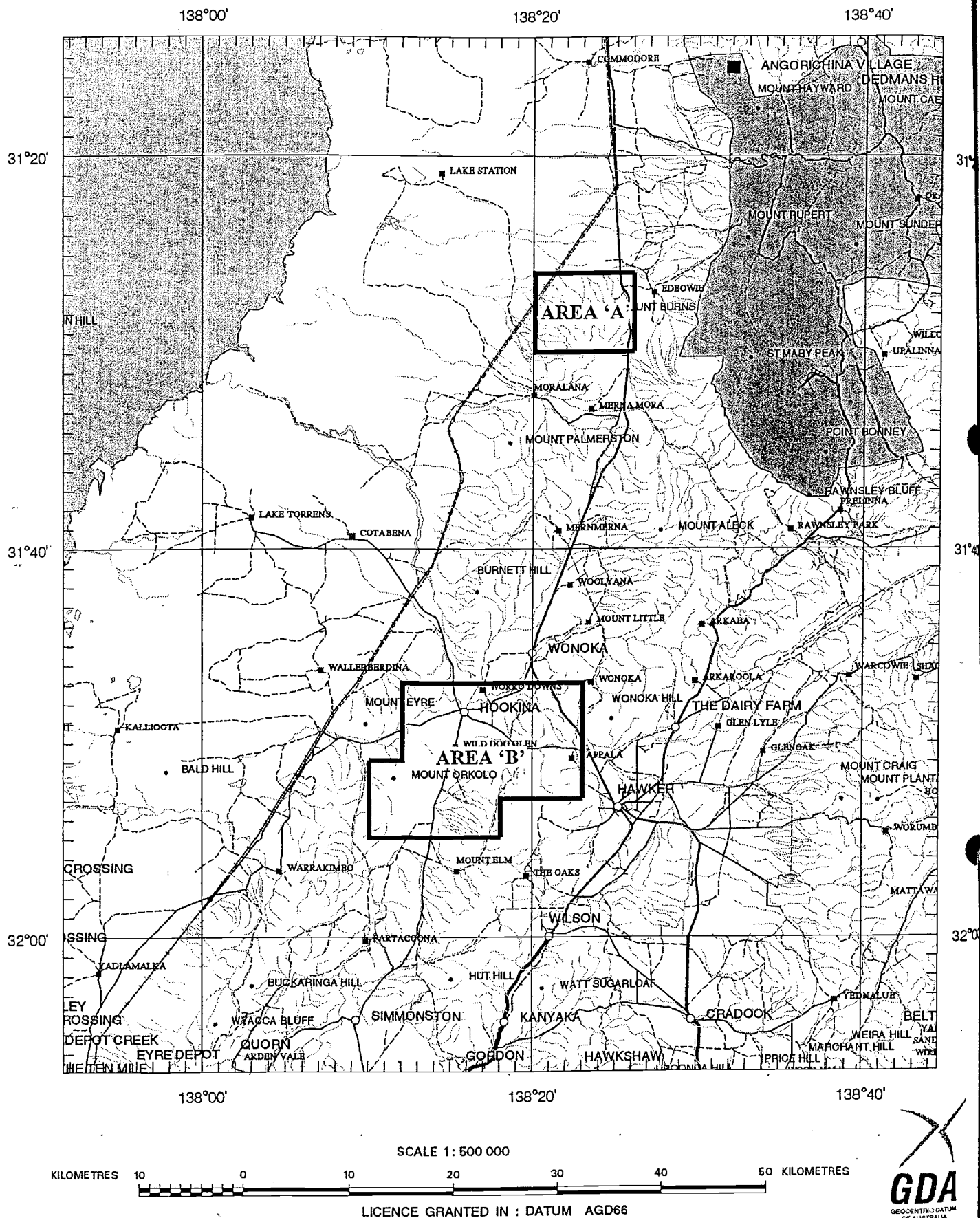
LICENCE GRANTED IN : DATUM AGD66



NOTE: There is no warranty that the boundary of this Exploration Licence is correct in relation to the other features on the map. The boundary is to be ascertained by reference to the Australian Geodetic Datum.

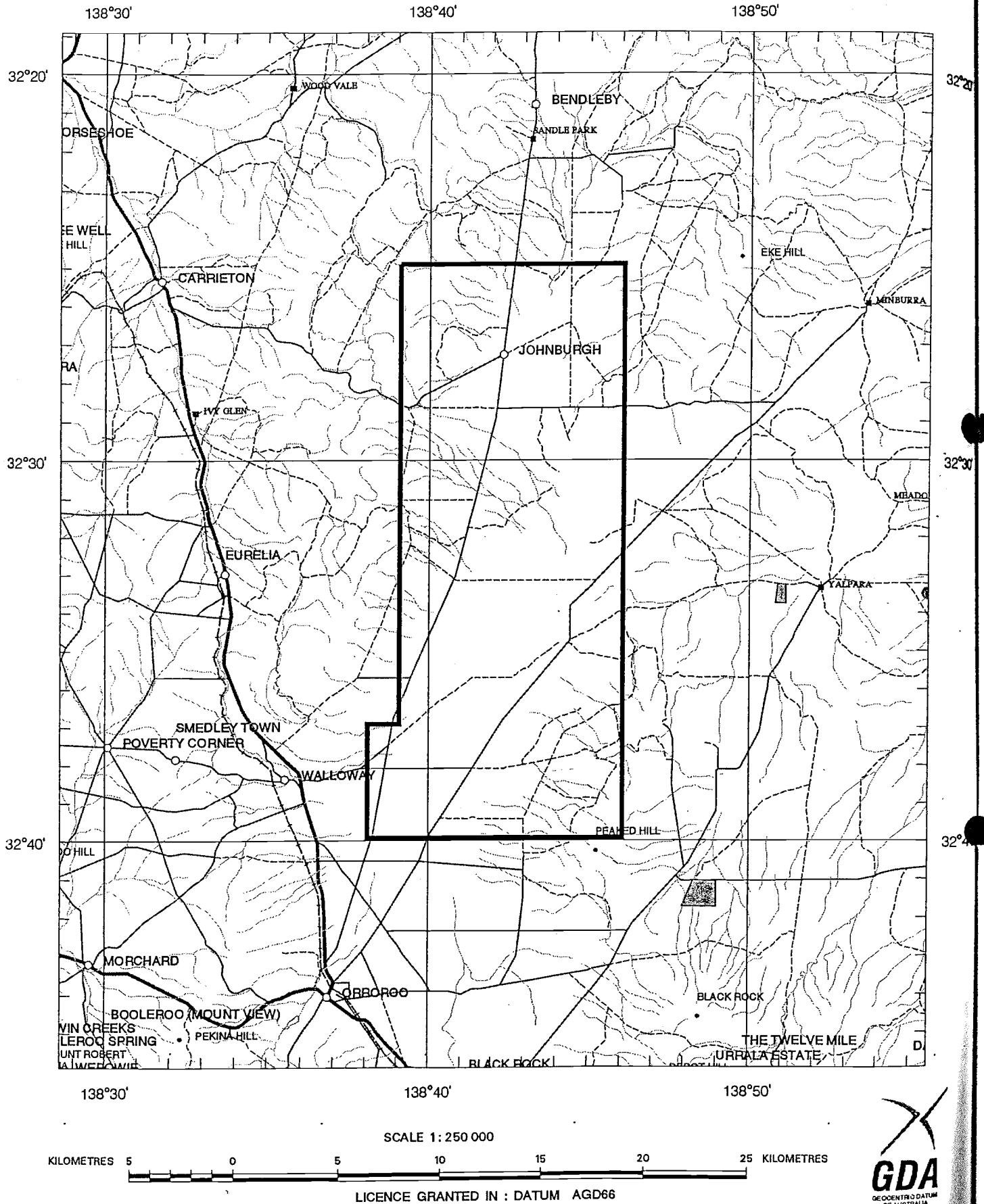
SCHEDULE A

32 13



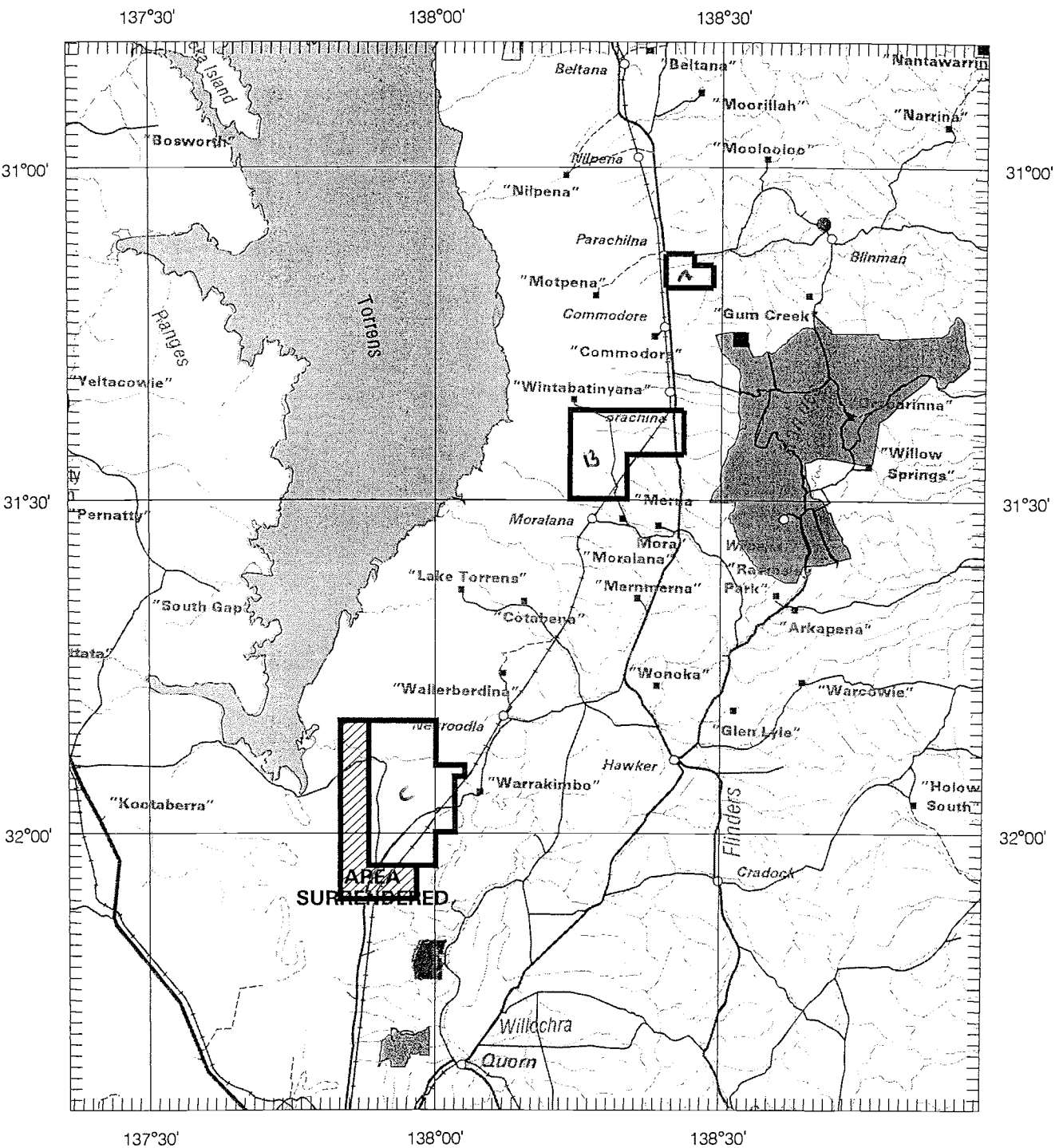
SCHEDULE A

3223

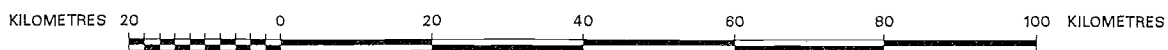


NOTE: There is no warranty that the boundary of this Exploration Licence is correct in relation to the other features on the map. The boundary is to be ascertained by reference to the Australian Geodetic Datum.

SCHEDULE A



SCALE 1:1 000 000



LICENCE GRANTED IN : DATUM AGD66



APPLICANT : FLINDERS POWER PARTNERSHIP

FILE REF : 285/04

TYPE : MINERAL ONLY

AREA : 552 km² (approx.)

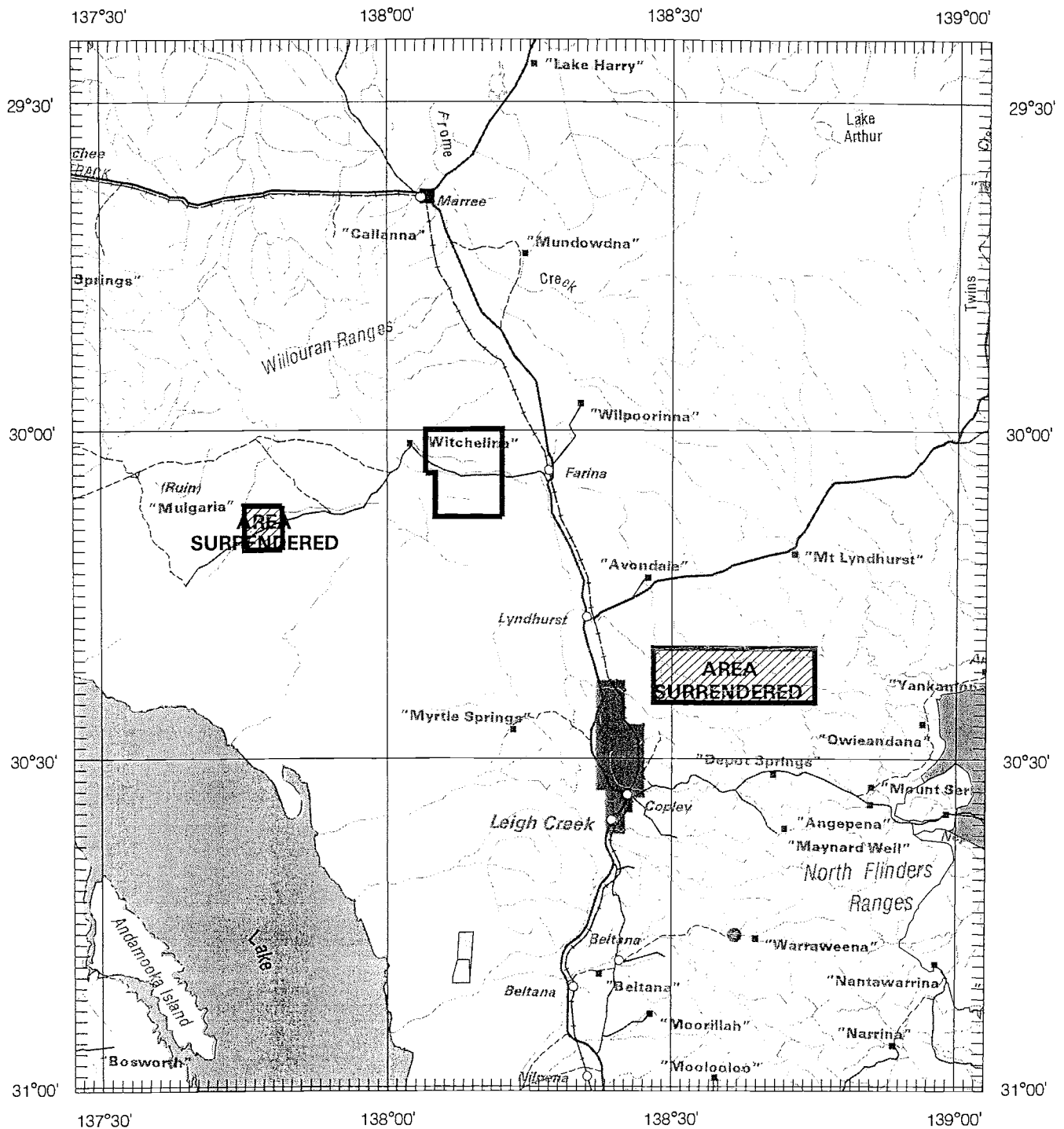
1:250000 MAPSHEETS : TORRENS PARACHILNA PORT AUGUSTA ORROROO

LOCALITY : PARACHILNA AREA - Approximately 130 km northeast of Port Augusta

DATE GRANTED : 26-Aug-2004 DATE EXPIRED : 25-Aug-2005

EL NO : 3230

SCHEDULE A



APPLICANT : FLINDERS POWER PARTNERSHIP

FILE REF : 286/04

TYPE : MINERAL ONLY

AREA : 178 km² (approx.)

1:250000 MAPSHEETS : MARREE ANDAMOOKA COPLEY

LOCALITY : MT OGILVIE AREA - Approximately 260 km NNE of Port Augusta

DATE GRANTED : 26-Aug-2004

DATE EXPIRED : 25-Aug-2005

EL NO : 3231

AMALGAMATED ANNUAL TECHNICAL REPORT
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Robert Williams
Senior Process Engineer
Flinders Power
16 July 2007

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CD Containing:

	Filename	Size(kB)	Type
Report text:	FPR 2006 A 01 ReportBody.pdf	6,071	pdf
Lithological logging data:	FPR 2006 A 02 Lithologs.txt	27	txt
Drill Collar Location data:			
EL 3113	FPR 2006 A 03 DrillCollars.txt	3	txt
EL 3114	FPR 2006 A 04 DrillCollars.txt	2	txt
EL 3124	FPR 2006 A 05 DrillCollars.txt	2	txt

EL 3212	FPR 2006 A 06 DrillCollars.txt	2	txt
EL 3213	FPR 2006 A 07 DrillCollars.txt	2	txt
EL 3223	FPR 2006 A 08 DrillCollars.txt	2	txt
EL 3230 Zone 53	FPR 2006 A 09 DrillCollars.txt	2	txt
EL3230 Zone 54	FPR 2006 A 10 DrillCollars.txt	2	txt
EL 3231	FPR 2006 A 11 DrillCollars.txt	2	txt
Drilling Summary:	FPR 2006 A 12 DrillingSummary.txt	2	txt
Borehole Completion Dates:	FPR 2006 A 13 BoreholeCompletionDates.txt	1	txt
File Verification Listing:	FPR 2006 A 14 FileListing.txt	3	txt

**AMALGAMATED ANNUAL TECHNICAL REPORT
LEIGH CREEK CORRIDOR PROJECT
12 MONTH PERIOD TO 1 NOVEMBER 2006**

1. Introduction and Summary Of Activities

Flinders Power has for some time (as its predecessor NRG Flinders) been engaged in a coal exploration program through the Northern Flinders Ranges region of South Australia. The program has targeted the discovery of a new Triassic coal basin within a region adjacent to the existing Leigh Creek mine and rail transport infrastructure.

Following a review of open file information and regional geophysical data Flinders Power (as NRG) engaged Daishat Geodetic Surveyors to complete a gravity survey program in the period Dec 2004 to March 2005 on a number of prospective target areas.

Following evaluation of the gravity results, portions of a number of the EL areas were relinquished on renewal or expiry under a surrender program with the gravity data for areas relinquished under that surrender program released in NRG Surrender Report dated 13 June 2006. That surrender report included a data CD containing gravity data for those areas either surrendered or in the process of surrender as at the date of the previous annual report.

Subsequent to that surrender program, within the remaining areas a number of prospective drill sites were identified and planning for a rotary mud drilling program commenced.

Planning processes variously included aboriginal heritage clearances on all drill sites, negotiation and registration of Native Title Minging Agreements with the relevant Native Title Claimants, Issue of Notices of Entry (Form 21) and Notification of Use of Declared Equipment Equipment Use (Form 22) to the applicable landholders including claim groups. Exploration Work Approval request and a Declaration of Environmental Factors for those drill sites located within the Flinders Ranges Environmental Area Class B were also submitted to PIRSA for approval and granted. Preparatory to and during the conduct of the drilling program liaison was also maintained with the responsible DWLBC officers with respect to any potential impact of the drilling program on ground water resources.

Within this program a total of 22 drill sites were identified of which 1 was abandoned due to aboriginal heritage concerns raised during the clearance inspection and one was bypassed as two nearby drill sites confirmed that there were no prospects for coal discovery in that drill site.

The drilling program commenced on 20 October 2006 and continued after a mid program break until 30 November 2006. Despite this being subsequent to the nominal reporting date anniversary, all drilling data is incorporated in this report. Following the completion of drilling representative samples from all drill holes have been preserved and supplied to the PIRSA Core library.

Also listed with this report are the relatively recently granted EL's 3514 and 3588 however as at the date of this report no data is reported for these EL's at this time.

A summary of EL's held during the current reporting period following a previous surrender program with respective grant and expiry dates and current areas are as follows:

TABLE 1 Exploration Licence Areas

EL	Grant	Expiry	Area (km2)
3113	4 August 2003	3 August 2007	602
3114	4 August 2003	3 August 2007	261
3124	16 September 2004	15 September 2007	410
3212	24 June 2004	23 June 2007	202
3213	24 June 2004	23 June 2007	321
3223	19 July 2004	18 July 2007	313
3230	26 August 2004	25 August 2007	552
3231	26 August 2004	25 August 2007	178
3514	31 January 2006	30 January 2008	259
3588	21 June 2006	20 June 2007	186
Total			3284

The areas current as at the date of this report are shown in the copies of EL Schedule A's shown in Appendix 1 modified as appropriate as a consequence of the previous surrender program.

2. Drilling Program

Flinders Power has retained Rank Geological Services Pty Ltd geologist Norman Kennedy as a consultant for the whole project up to and including the drilling program.

The drilling program was undertaken by Watson Drilling Services of Deniliquin using a Schramm T3 mud rotary rig. Chip samples were collected at 2 metre intervals and a representative sample preserved in a 250ml plastic container and delivered to the PIRSA Core Library 20 June 2007.

The drilling program was completed in two stages, the first from 20 October to 30 October and the second from 15 November to 30 November 2006.

Following the completion of drilling mud sumps were fenced and allowed to dry. A precollar was installed on one drill hole in the program and this was completely removed at the conclusion of operations. The boreholes were sealed with caps and covered over to prevent hazards to passing stock and personnel and abandoned. Prior to the completion of mud sump rehabilitation many of the drill site locations were inundated as a consequence of heavy thundershowers and flooding through most of the project region. As a consequence mud sump rehabilitation was deferred until March / April of 2007 to ensure that most of the region had dried and access to the drillsites was possible. Even so the sump at one of the drill sites LC4-1 was still full of water but rehabilitation was completed in any event. Rehabilitation of some of the track areas adjacent to several of the drill sites was completed by machine backblading or hand to facilitate rapid regeneration of the most affected traffic areas.

In some instances the rain and flooding have initiated minor erosion on several of the little used access tracks but in consultation with the landowners this has been left pending the progress of natural regeneration. Their status will be reviewed during the final site inspection currently scheduled for October 2007. A photographic record has been maintained on all drill sites and a separate rehabilitation report will be prepared and submitted following the final site inspection.

Drill site rehabilitation varied dependent on the availability of equipment but usually comprised backfilling of the sump and placing top soil on top of the back filled area to facilitate natural revegetation. Dependent on equipment availability loader bucket teeth were used to groove the finished surface to promote water and seed retention.

Drillhole coordinates were all established to an accuracy of 10m using handheld GPS units set to GDA94 Datum. Collar elevations were established from 1:50 or 1:250k mapdata with an estimated accuracy of 5m for those drill sites located on 1:50k charts and 25m for those located from 1:250k charts.

3. Drilling Summary

Drilling operations were completed 30 November 2006 with the drilling of 20 holes yielding a total metreage of 3590 metres at a drilling cost of approximately \$185,000 with total project expenditure in the period of \$450,000.

4. Results

The drill holes in the areas North of Leigh Creek did not yield any indications of carbonaceous material whilst a number of those in the Hawker region did as indicated by the lithological logs. Most notable was drillhole H11-1 which yielded a single continuous 27m seam of brown coal at a depth of 149m.

TABLE 2 Drill hole Summary

Location Designation	Drill Site Designation	EL	Date Commenced	Date Completed	GDA 94 Zone	Mapsheet 100K	Proposed Easting	Proposed Northing	Drillhole Easting	Drillhole Northing	Depth m
O4A	FPR 04-1	3223	20/10/06	21/10/06	54	6633 Carrieton	281,800	6403000	281801	6402976	251
H8C	FPR H8-1	3213	21/10/06	22/10/06	54	6534 Hawker	246130	6479824	246132	6479879	210
H8B	FPR H8-2	3213	23/10/06	23/10/06	54	6534 Hawker	245230	6478150	245253	6478080	182.5
H8A	FPR H8-3	3213	24/10/06	24/10/06	54	6534 Hawker	244400	6476100	244362	6476070	186
H9C	FPR H9-1	3213	24/10/06	24/10/06	54	6534 Hawker	235000	6467000	235000	6467000	42
H9B	FPR H9-2	3213	25/10/06	25/10/06	54	6534 Hawker	236300	6469850	236297	6469853	96
H9A	Deleted					6534 Hawker	Deleted				
H10B	FPR H10-1	3230	25/10/06	26/10/06	53	6434 Yadlamalka	778320	6464620	778292	6464643	224
H10A	FPR H10-2	3230	26/10/06	27/10/06	53	6434 Yadlamalka	777250	6467100	777240	6467106	195
H11A	FPR H11-1	3230	27/10/06	28/10/06	53	6434 Yadlamalka	782050	6456550	782045	6456548	183
H2B	FPR H2-1	3230	28/10/06	29/10/06	54	6535 Parachilna	248550	6521260	248561	6521246	251
H5A	FPR H5-1	3113	16/11/06	17/11/06	54	6534 Hawker	236400	6501000	236380	6500934	276
P11A	FPR P11-1	3113	18/11/06	18/11/06	54	6535 Parachilna	251480	6533700	251489	6533705	204
P11B	Deleted					6535 Parachilna	253580	6540760	Deleted		
H2A	FPR H2-2	3230	19/11/06	20/11/06	54	6535 Parachilna	247000	6518100	247004	6518103	245
P7A	FPR P7-1	3113	21/11/06	22/11/06	54	6535	249500	6559000	249425	6558980	275

						Parachilna					
P7B	FPR P7-2	3113	23/11/06	25/11/06	54	6535 Parachilna	246060	6567240	246065	6567226	275
LC4A	FPR LC4-1	3212	26/11/06	26/11/06	53	6437 Ediacra	780650	6661870	780616	6661830	69
LC3B	FPR LC3-1	3231	27/11/06	27/11/06	54	6537 Leigh Creek	226740	6664184	226720	6664158	81
LC3A	FPR LC3-2	3114	28/11/06	28/11/06	54	6537 Leigh Creek	227750	6661000	227781	6661050	93
LC3D	FPR LC3-3	3231	29/11/06	29/11/06	54	6537 Leigh Creek	226250	6668350	226259	6668337	95
LC1B	FPR LC1-1	3124	29/11/06	30/11/06	54	6538 Marree	228000	6680750	228039	6680788	159

TYPICAL DRILL SITE OPERATIONS PHOTOGRAPHIC RECORD



Photo 1 Drill Site FPR H8-1 prior to mud sump construction



Photo 2 Drill Site FPR H8-1 After mud sump construction



Photo 3 Drill Site FPR H8-1 During Rotary Mud Drilling



Photo 4 Portion of typical sample line and modified core tray containing 250ml samples jars



Photo 5 Drill Site FPR H 8-1 Following Conclusion of Drilling

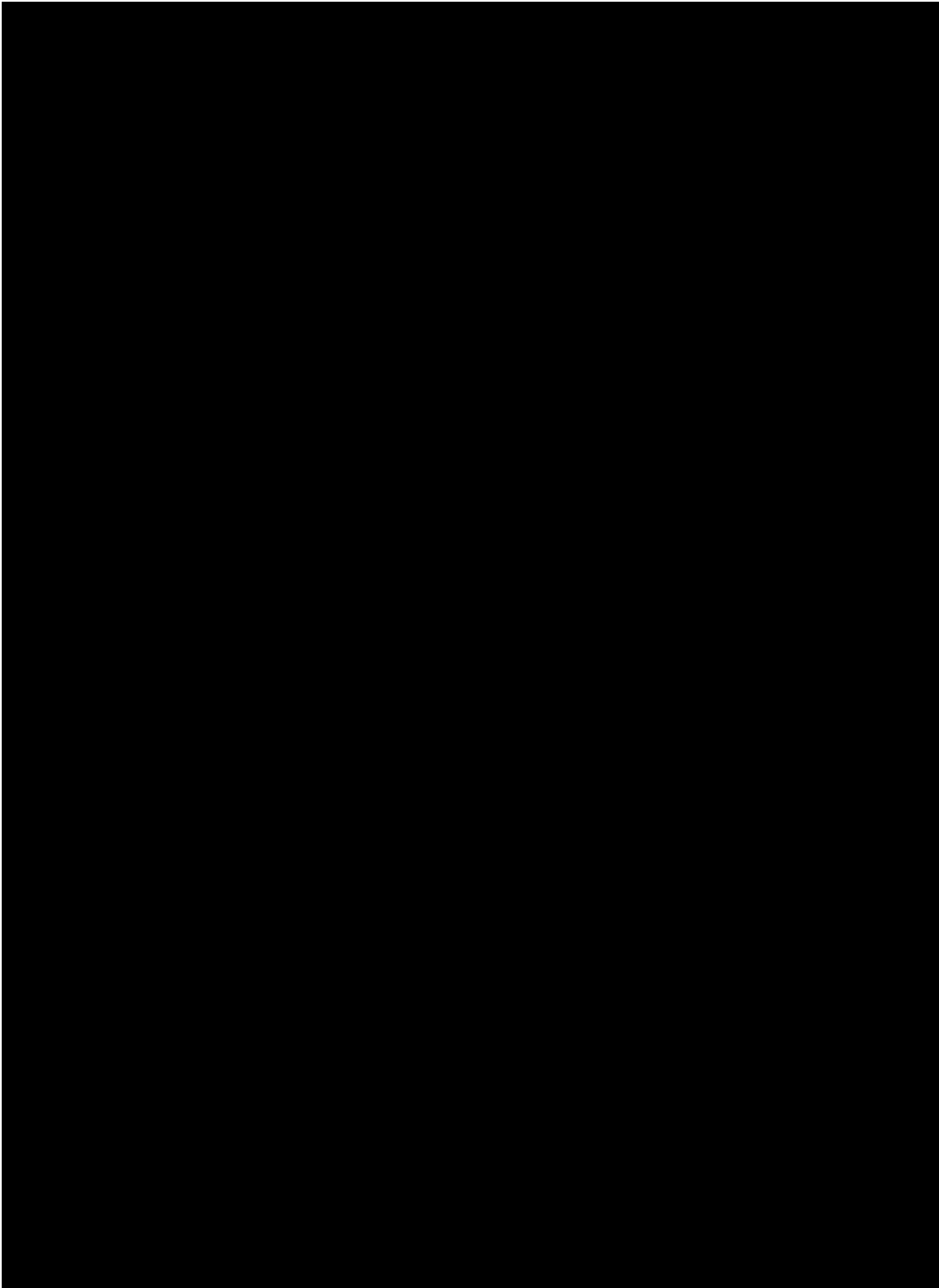


Photo 6 Drill Site FPR H8-1 following rehabilitation

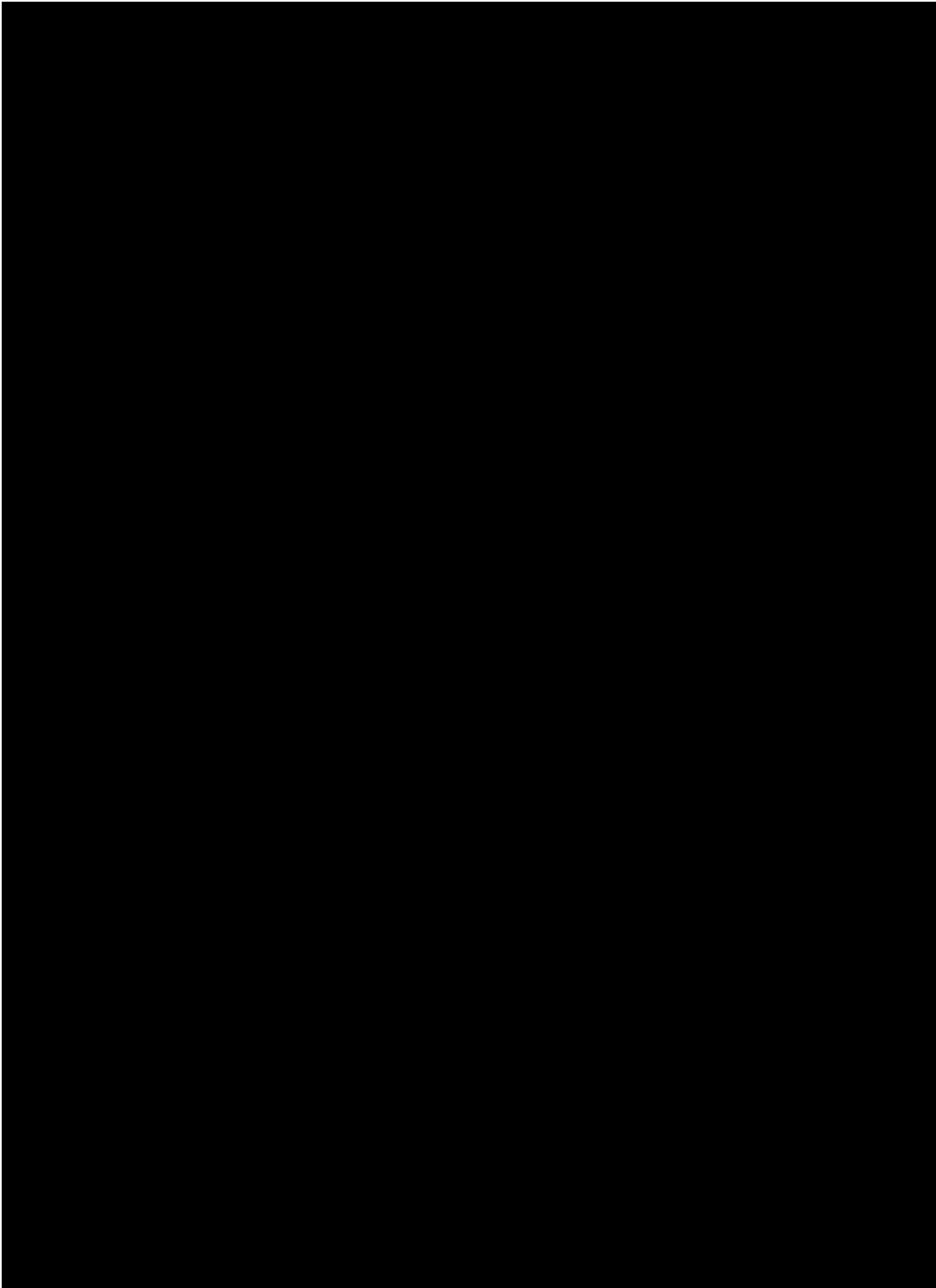
LEIGH CREEK CORRIDOR PROJECT**APPENDIX 1 EXPLORATION LICENCE AREAS
(SCHEDULE A's)**

EL 3113	15
EL 3114	16
EL 3124	17
EL 3212	18
EL 3213	19
EL 3223	20
EL 3230	21
EL 3231	22
EL 3514	23
EL 3588	24

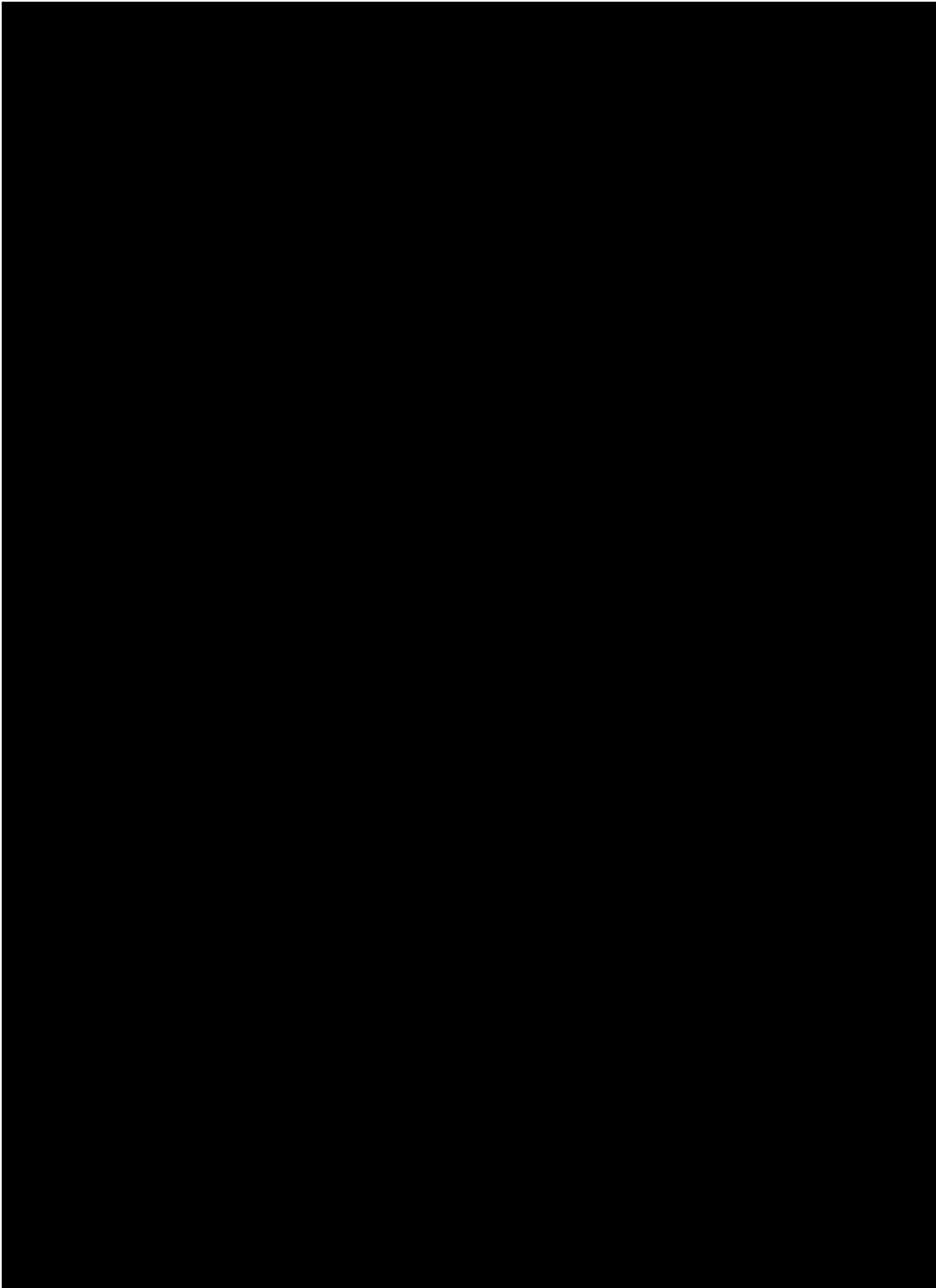
Note that all shaded areas on maps have been subject to prior relinquishment.



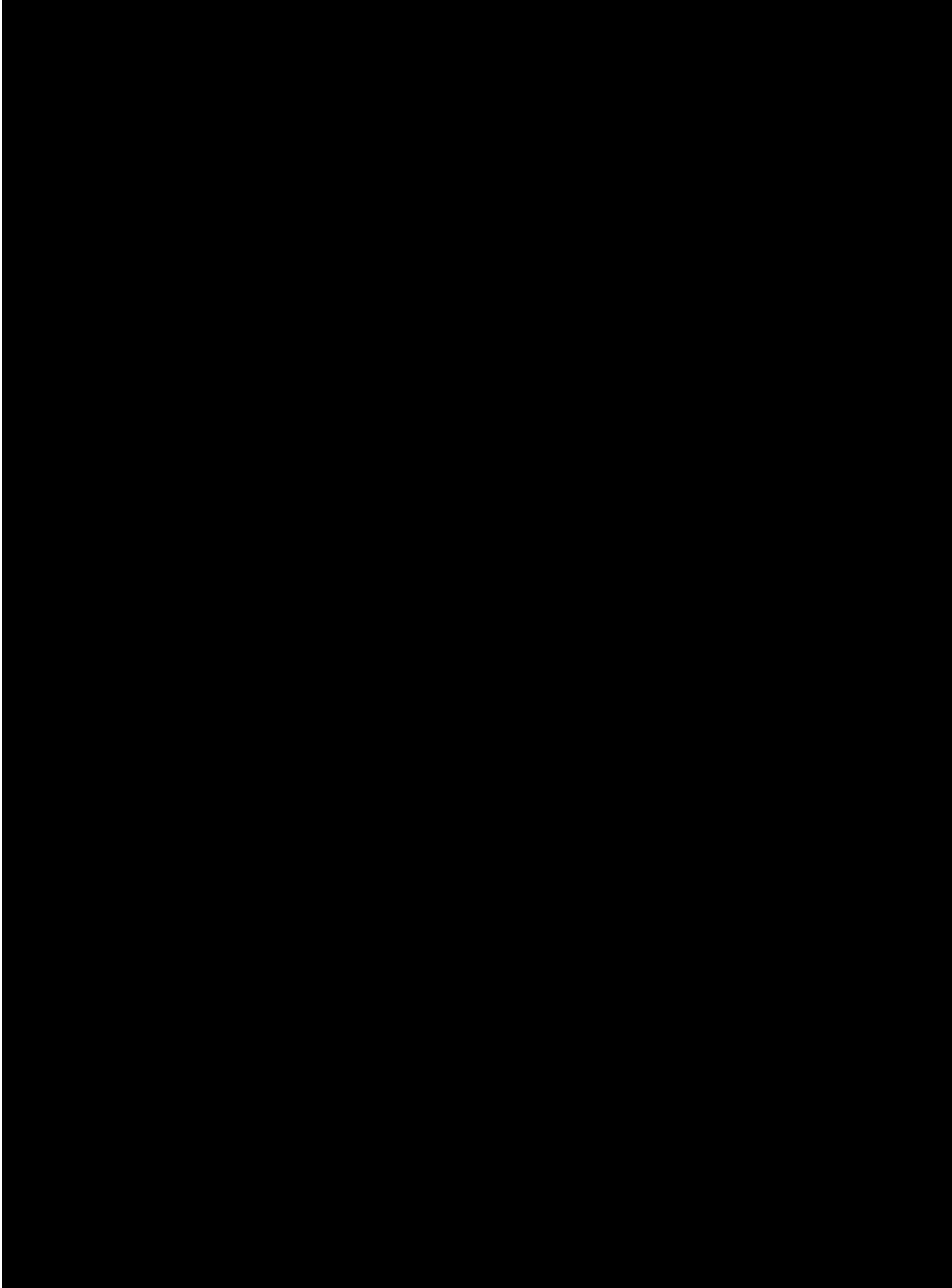
EL 3113



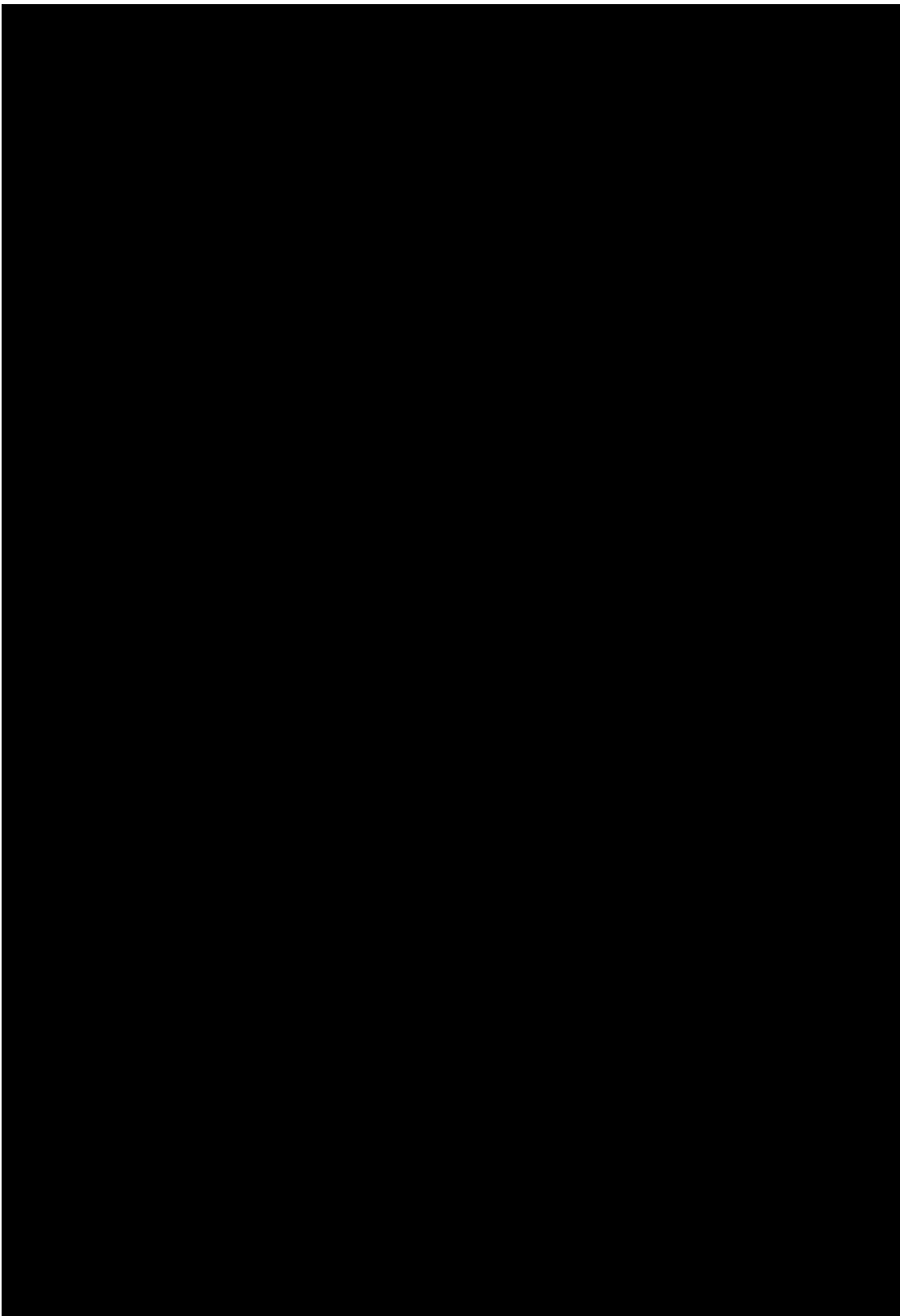
EL 3114



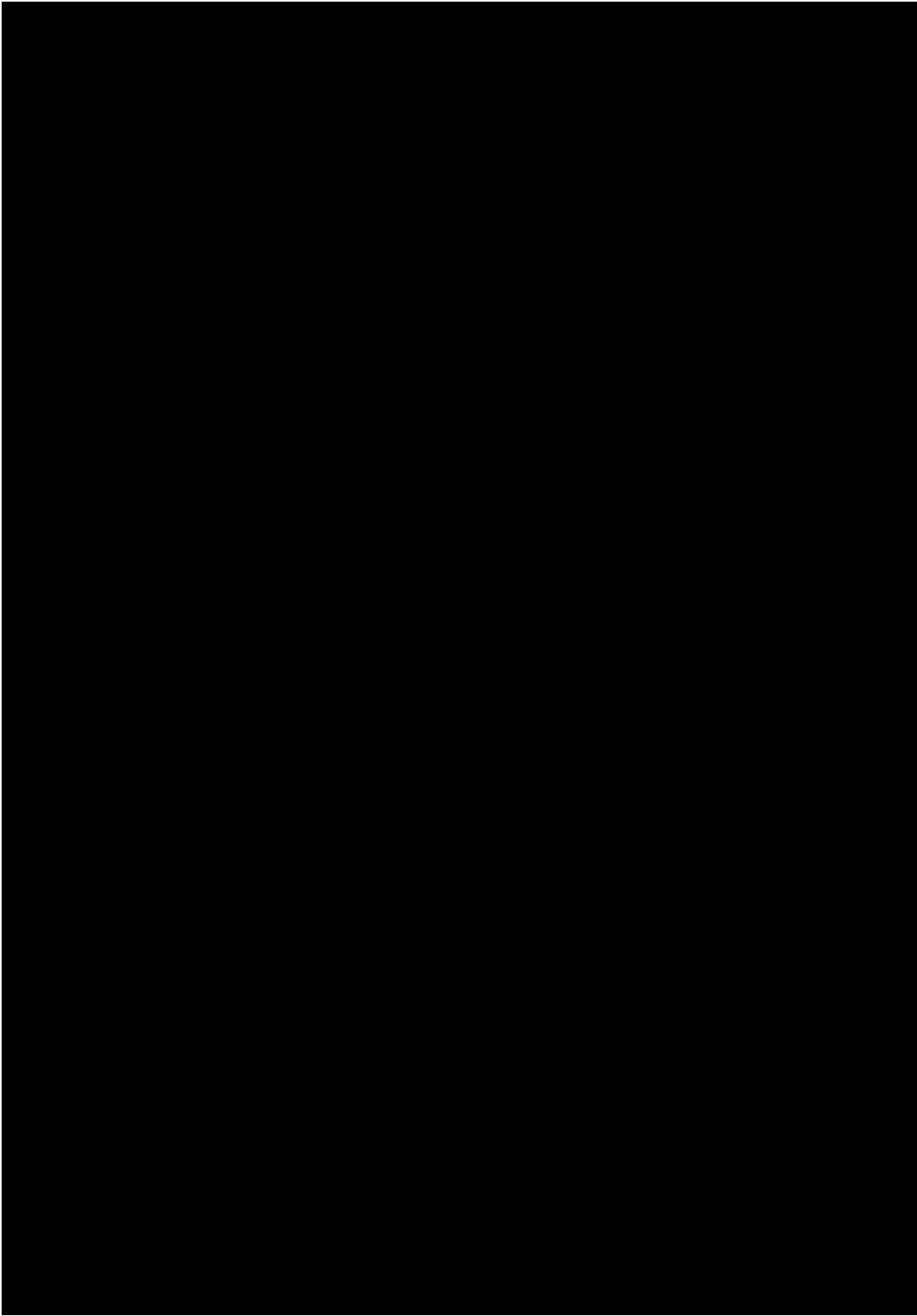
EL 3124



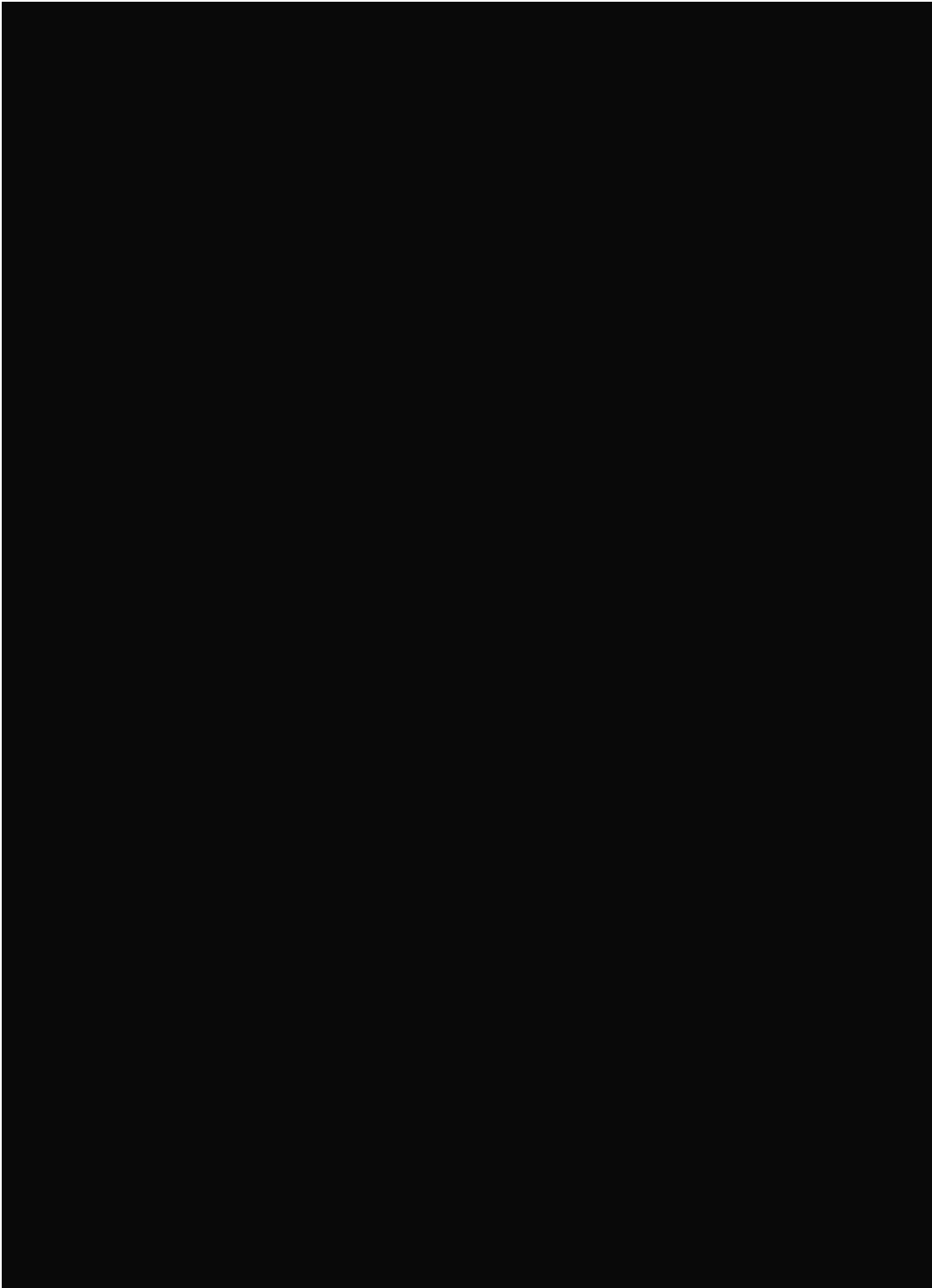
EL 3212



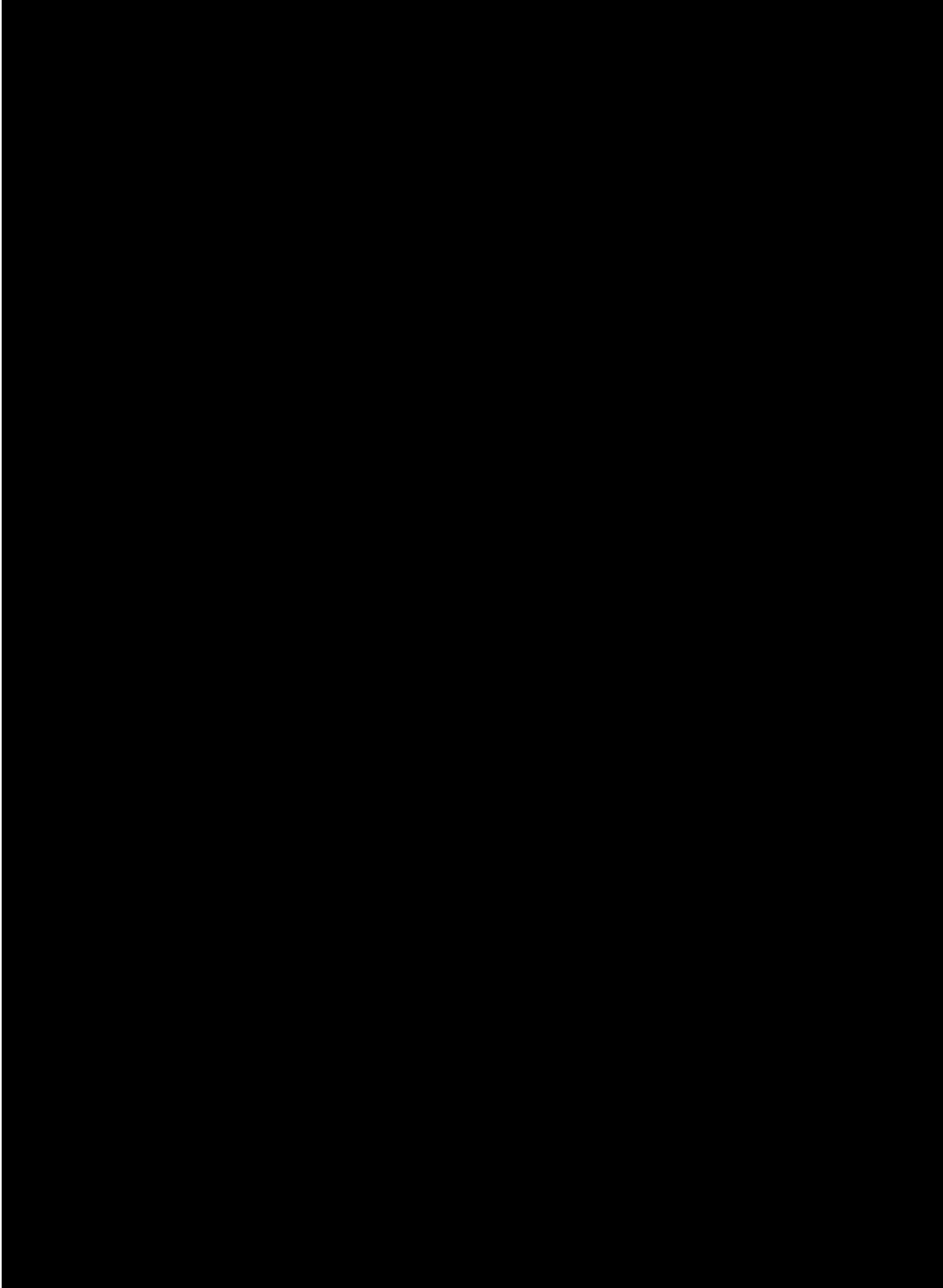
EL 3213



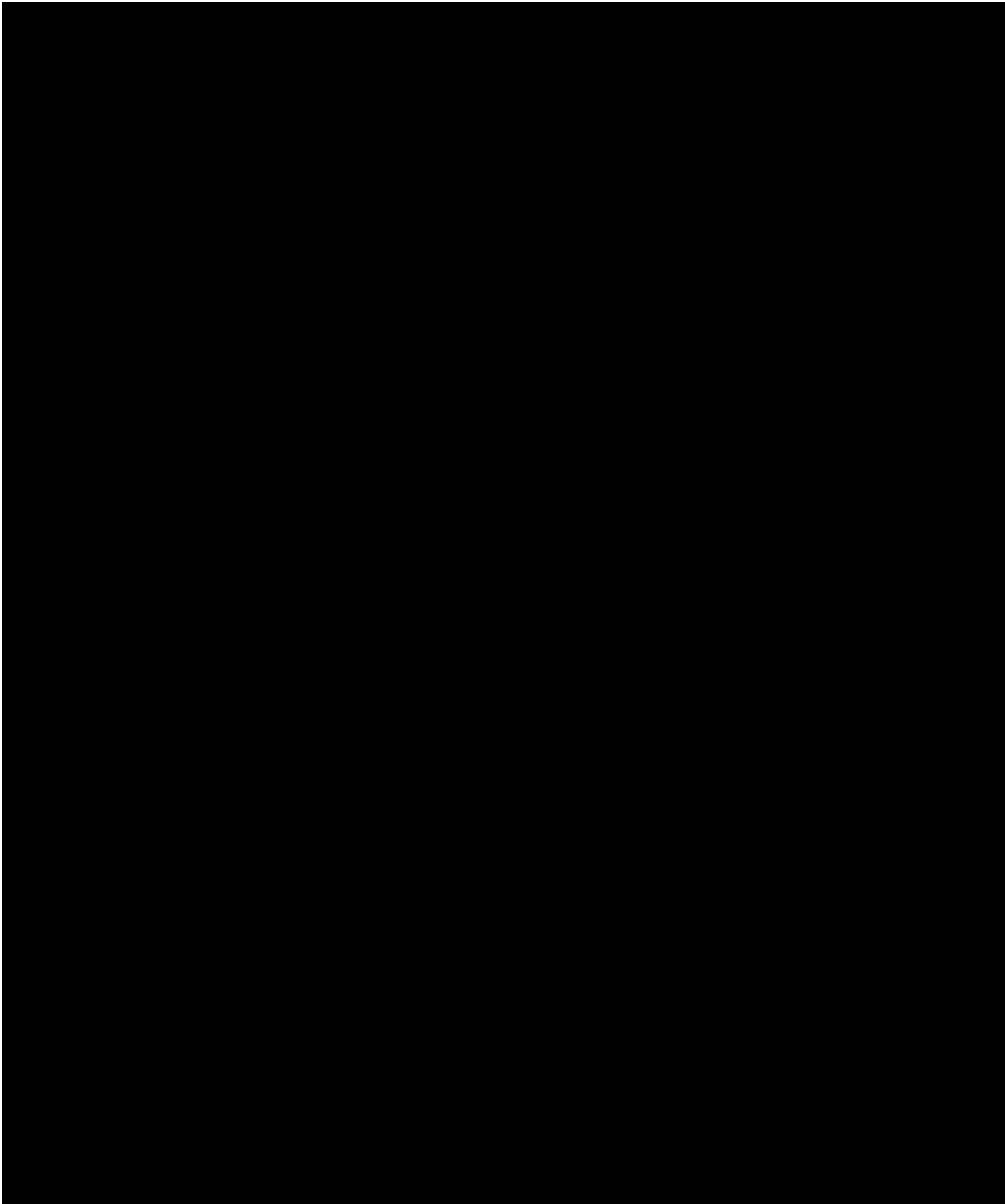
EL 3223



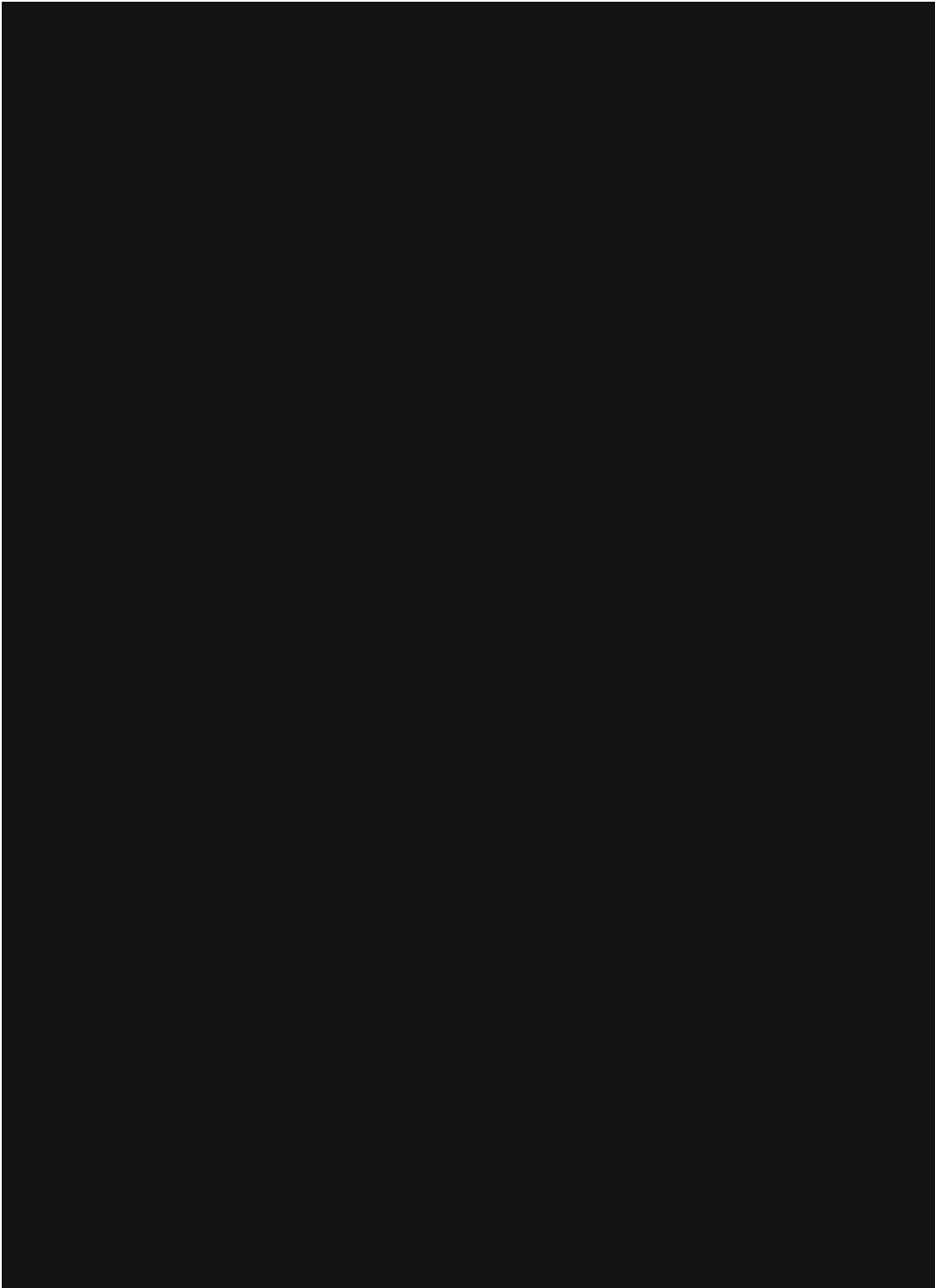
EL 3230



EL 3231



EL 3514



EL 3588

LEIGH CREEK CORRIDOR PROJECT

APPENDIX 2 LITHOLOGICAL LOGS

LOG 1 FPR 04-1	26
LOG 2 FPR H8-1	27
LOG 3 FPR H8-2	28
LOG 4 FPR H8-3	29
LOG 5 FPR H9-1	30
LOG 6 FPR H9-2	31
LOG 7 FPR H10-1	32
LOG 8 FPR H10-2	33
LOG 9 FPR H11-1	34
LOG 10 FPR H2-1	35
LOG 11 FPR H5-1	36
LOG 12 FPR P11-1	37
LOG 13 FPR H2-2	38
LOG 14 FPR P7-1	39
LOG 15 FPR P7-2	40
LOG 16 FPR LC4-1	41
LOG 17 FPR LC3-1	42
LOG 18 FPR LC3-2	43
LOG 19 FPR LC3-3	44
LOG 20 FPR LC1-1	45

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR 04-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1	FPR 04	Qua		0.00	2.00	2.00				Y	Soil & Gravel		mid	brown, red	F to B	Loosely consolidated soil and gravel, fine silt to boulder size rock fragments in silty clay matrix, very poorly sorted, rounded to angular, slight FeOx staining
R2	FPR 04	Qua		2.00	28.00	26.00				Y	Gravel		grey	brown	F to B	Loosely consolidated gravel, Basement rock fragments in a silty clay matrix, predominantly metasediments, quartz and intrusive fragments
R3	FPR 04	Qua		28.00	38.00	10.00				Y	Gravel		red	brown	F to B	Loosely consolidated gravel, Basement rock fragments in a silty clay matrix, predominantly metasediments, quartz and intrusive fragments
R4		Qua		38.00	50.00	12.00				Y	Gravel		grey	brown	F to B	Loosely consolidated gravel, Basement rock fragments in a silty clay matrix, predominantly metasediments, quartz and intrusive fragments, increasing clay matrix, slightly ferruginous
R5		TerA		50.00	122.00	72.00				Y	Silty Clay		light	grey brown		Soft clay, minor gravel bands, increase in FeOx staining 106m to 114m
R6		TerA		122.00	130.00	8.00				Y	Clay		red	grey brown		Silty in part
R7		TerA		130.00	162.00	32.00				Y	Clay		light	grey pink		Minor silty bands
R8		TerA		162.00	222.00	60.00				Y	Clay		light	brown red		Minor silty bands, FeOx staining throughout, hard 20cm band @ 203m
R9		TerB		222.00	224.00	2.00				Y	Clay		light	grey		Carbonaceous in part, lignitic fragments
R10		TerB		224.00	242.00	18.00				Y	Clay		light	grey		Carbonaceous in part, becoming lignitic @ base
R11		TerB		242.00	251.00	9.00	1			Y	Clay/Lignitic Clay/Lignite	40/30/30	light/-/br	grey/brown/black		END OF HOLE 251 metres
R12											Lignitic Clay	30		brown		
R13											Lignite	30	brown	black		
R14																
R15											EOH: 251m					
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																

LOG 1 FPR 04-1

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H8-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	6.00	6.00				Y	Soil & Sand		mid	brown	VF	Loosely consolidated soil, well sorted, minor silty clay matrix
R2		Qua/Ter?		6.00	17.00	11.00				Y	Sandy Gravel		light	brown grey	F to P	Loosely consolidated gravel, poorly sorted, rounded to angular rock fragments, minor silty clay matrix
R3		Qua/Ter?		17.00	37.00	20.00				Y	Clay		red	brown		Sandy in part, minor gravel
R4		Qua/Ter?		37.00	42.00	5.00				Y	Sandy Gravel		grey	brown	F to P	Loosely consolidated, angular to rounded rock fragments, minor silty clay matrix
R5		Qua/Ter?		42.00	47.00	5.00				Y	Clay		red	brown		Silty, angular to rounded rock fragments throughout
R6		Ter		47.00	51.00	4.00				Y	Sandy Gravel		beige	grey	F-C	Loosely consolidated, angular to rounded rock fragments, minor silty clay matrix
R7		Ter		51.00	60.00	9.00				Y	Clay		red	brown		Silty, angular to rounded rock fragments throughout
R8		Ter		60.00	62.00	2.00				Y	Sandy Gravel		beige	grey	F-C	Loosely consolidated, angular to rounded rock fragments, minor silty clay matrix
R9		Ter		62.00	76.00	14.00				Y	Clay		red	brown		Silty, angular to rounded rock fragments throughout
R10		Ter		76.00	102.00	26.00				Y	Clay		beige	yellow brown		minor silty bands, minor FeOx staining
R11		Ter		102.00	120.00	18.00				Y	Clayey Gravel		light	grey	F-P	Silty in part, angular to rounded rock fragments throughout
R12		Ter		120.00	128.00	8.00				Y	Sand		light	grey	F-M	Loosely consolidated, well sorted, clay matrix
R13		Ter		128.00	132.00	4.00				Y	Sandstone		light	grey	F-M	moderately consolidated, well sorted, clay matrix
R14		Ter		132.00	139.00	7.00				Y	Sand		light	grey	F	Loosely consolidated, well sorted, clay matrix
R15		Ter		139.00	140.00	1.00	1			Y	Lignite	60	brown	black		
R16											Sandy Clay	40	mid	grey		
R17		Ter		140.00	152.00	12.00				Y	Sand		light	grey	F	Loosely consolidated, well sorted, clay matrix
R18		Ter		152.00	175.00	23.00				Y	Lignitic Sand		brown	black grey	F	Loosely consolidated, well sorted, minor clay matrix, occasional lignite band
R19		Ter		175.00	191.00	16.00	2			Y	Lignite		brown	black		Soft, sand throughout.
R20		Ter		191.00	208.00	17.00				Y	Sand		light	black brown grey	F-M	Loosely consolidated, well sorted, minor clay matrix, becoming more clayey @ base
R21		Prot?		208.00	210.00	2.00				Y	?Basement?					Very hard, no viable returns. END OF HOLE 210 metres
R22																
R23											EOH: 210m					
R24																

LOG 2 FPR H8-1

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H8-2

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	8.00	8.00				Y	Soil		mid	brown	VF-F	Loosely consolidated soil, minor silty clay matrix
R2		Qua		8.00	19.00	11.00				Y	Gravel		light	brown grey	M to P	Loosely consolidated gravel, moderately sorted, rounded to subangular rock fragments, increasing clay matrix @ base
R3		Ter		19.00	39.00	20.00				Y	Clay		red	brown		Sandy in part, minor gravel
R4		Ter		39.00	54.00	15.00				Y	Clay		beige	light grey		Silty throughout
R5		Ter		54.00	62.00	8.00				Y	Gravel		grey	brown	C-P	Loosely consolidated, subangular to rounded rock fragments, poorly sorted, clayey @ base
R6		Ter		62.00	72.00	10.00				Y	Gravelly Clay		brown	grey	C-P	Moderately consolidated, subangular to rounded rock fragments, poorly sorted
R7		Ter		72.00	79.00	7.00				Y	Clay		red orange	brown purple		Varicoloured, silty, FeOx
R8		Ter		79.00	90.00	11.00				Y	Clay		yellow	grey red		Varicoloured, silty, FeOx
R9		Ter		90.00	92.00	2.00				Y	Sandy Clay		light	grey		Silty, angular to rounded rock fragments throughout
R10		Ter		92.00	102.00	10.00				Y	Clay		yellow	grey red		Varicoloured, silty, FeOx
R11		Ter		102.00	107.00	5.00				Y	Sand		white	light grey	F	Loosely consolidated, well sorted, minor clay matrix
R12		Ter		107.00	121.00	14.00				Y	Sandy Clay		white	light grey		
R13		Ter		121.00	135.00	14.00				Y	Sand		white	light grey	F-M	Loosely consolidated, well sorted, minor clay matrix
R14		Ter		135.00	138.00	3.00				Y	Sand		ochre	light brown	F	Loosely consolidated, well sorted, minor clay matrix
R15		Ter		138.00	146.00	8.00				Y	Sand		dark	brown beige	F	Loosely consolidated, well sorted, minor clay matrix
R16				146.00	150.00	4.00					Lignitic Sand		brown	black grey	F	Loosely consolidated, well sorted, minor clay matrix, occasional lignite band
R17		Ter		150.00	156.00	6.00				Y	Sand		light	grey	F	Loosely consolidated, well sorted, minor clay matrix, occasional lignite band
R18		Ter		156.00	164.00	8.00				Y	Lignitic Sand		brown	black grey	F	Loosely consolidated, well sorted, minor clay matrix, occasional lignite band
R19		Ter		164.00	166.00	2.00				Y	Clay		light	grey		Soft, rock fragments throughout.
R20		Ter		166.00	168.00	2.00	1			Y	Lignite		brown	black		
R21		Ter		168.00	178.00	10.00				Y	Clay		mid	grey		Soft, occasional hard band (<10cms), sandy throughout
R22		Prot?		178.00	182.50	4.50					Basement					Very hard, slow penetration, metasediments. END OF HOLE 182.5 metres
R23																
R24											EOH: 182.5m					

LOG 3 FPR H8-2

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H8-3

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	4.00	4.00				Y	Soil			brown		Silty, gravel throughout
R2		Qua		4.00	20.00	16.00				Y	Gravel		brown	grey	M to B	Loosely consolidated gravel, poorly sorted, subrounded to angular rock fragments
R3		Ter		20.00	38.00	18.00				Y	Clay			brown		Sandy in part, gravel throughout
R4		Ter		38.00	40.00	2.00				Y	Gravel		beige	grey		Loosely consolidated gravel, poorly sorted, subrounded to angular rock fragments
R5		Ter		40.00	43.00	3.00				Y	Clay			brown		Sandy in part, gravel throughout
R6		Ter		43.00	60.00	17.00				Y	Gravelly Clay		brown	grey	C-P	Moderately consolidated, subangular to rounded rock fragments, poorly sorted
R7		Ter		60.00	68.00	8.00				Y	Clay		red	brown grey		Minor gravel, silty in part, FeOx
R8		Ter		68.00	80.00	12.00				Y	Clay		mid	grey		
R9		Ter		80.00	86.00	6.00				Y	Sand		light	grey	F-M	Loosely consolidated, quartzose, well sorted, minor clay matrix
R10		Ter		86.00	97.00	11.00				Y	Sand		light	grey	F	Loosely consolidated, quartzose, well sorted, becoming clayey @ base
R11		Ter		97.00	111.00	14.00				Y	Clay		beige	grey		
R12		Ter		111.00	126.00	15.00				Y	Mudstone		mid	grey		Minor carbonaceous lamellae throughout
R13		Ter		126.00	133.00	7.00				Y	Mudstone		light	grey		
R14		Ter		133.00	148.00	15.00				Y	Mudstone		light	grey		silty throughout
R15		Ter		148.00	185.00	37.00				Y	Sandy Clay		light	grey		fine quartzose sand throughout, sandier @ base, hard bamds from 180m
R16		Prot?		185.00	186.00	1.00					Basement		white	light grey		Very hard, metasediments, refusal. END OF HOLE 186 metres
R17																
R18											EOH: 186m					
R19																
R20																
R21																
R22																
R23																
R24																

LOG 4 FPR H8-3

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H9-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1	H9-1	Qua		0.00	4.00	4.00				Y	Soil			brown		gravel @ base, gypsum fragments throughout
R2	H9-1	Qua		4.00	12.00	8.00				Y	Clay		brown	grey		gravel @ base, gypsum fragments throughout
R3	H9-1	Qua		12.00	16.00	4.00				Y	Clay		beige	brown		gravel @ base, gypsum fragments throughout, base of weathering?
R4	H9-1	Qua		16.00	21.00	5.00				Y	Gravel		white	grey		Loosely consolidated gravel, poorly sorted, subrounded to angular rock fragments, minor clay matrix
R5	H9-1	Ter		21.00	31.00	10.00				Y	Clay		yellow	grey		Silty throughout, Soft, mottled
R6	H9-1	Ter		31.00	36.00	5.00				Y	Clay			grey		Rock fragments throughout, Soft
R7	H9-1	Prot?		36.00	42.00	6.00				Y	Basement		white	light grey		Sandy, calcareous, refusal. END OF HOLE 42 metres
R8																
R9											EOH: 42m					
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																

LOG 5 FPR H9-1

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H9-2

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1	H9-2	Qua		0.00	4.00	4.00				Y	Soil			brown		Silty
R2	H9-2	Ter		4.00	10.00	6.00				Y	Clay		light brown	grey		Soft, minor gravel throughout, depth of weathering?
R3	H9-2	Ter		10.00	24.00	14.00				Y	Clay		beige	grey		Soft, minor gravel throughout
R4	H9-2	Ter		24.00	40.00	16.00				Y	Clay		Yellow beige	brown red		Soft, mottled
R5	H9-2	Ter		40.00	46.00	6.00				Y	Sand			white	F	Loosely consolidated, quartzose, well sorted, minor clay matrix
R6	H9-2	Ter		46.00	82.00	36.00				Y	Clay		light	grey		Minor silty bands
R7	H9-2	Prot?		82.00	96.00	14.00				Y	Basement		white	light grey		Sandy, calcareous, very hard @ base, refusal. END OF HOLE 96 metres
R8																
R9											EOH: 96m					
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																

LOG 6 FPR H9-2

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H10-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	4.00	4.00				Y	Soil			brown		Silty
R2		Qua		4.00	18.00	14.00				Y	Gravel		red	brown	M-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix
R3		Qua		18.00	23.00	5.00				Y	Gravel		beige	grey	M-C	Loosely consolidated, poorly sorted, subrounded to angular rock fragments
R4		Ter		23.00	58.00	35.00				Y	Clay		red	brown		Soft, mottled, minor gravel
R5		Ter		58.00	70.00	12.00				Y	Clay		light	grey		Silty in part
R6		Ter		70.00	78.00	8.00				Y	Clay		light	grey		
R7		Ter		78.00	84.00	6.00				Y	Clay		mid	grey		
R8		Ter		84.00	90.00	6.00				Y	Clay		light	grey		
R9		Ter		90.00	97.00	7.00				Y	Sand		light	grey	F-M	Loosely consolidated, quartzose, well sorted, minor grey clay matrix
R10		Ter		97.00	108.00	11.00				Y	Clay		mid	grey		
R11		Ter		108.00	122.00	14.00				Y	Clay		light	grey		
R12		Ter		122.00	126.00	4.00				Y	Sand		beige	grey	F-M	Loosely consolidated, quartzose, well sorted, minor white clay matrix
R13		Ter		126.00	131.00	5.00				Y	Clay		light	grey		
R14		Ter		131.00	132.00	1.00				Y	Sand		dark	grey beige	F-M	Loosely consolidated, quartzose, well sorted, lignite fragments throughout
R15		Ter		132.00	138.00	6.00	1			Y	Lignite	50	brown	black		
R16		Ter								Y	Clay	50	dark	grey		
R17		Ter		138.00	152.00	14.00				Y	Clay		mid	grey		Minor carbonaceous bands
R18		Ter		152.00	164.00	12.00				Y	Clay		light	grey		
R19		Ter		164.00	184.00	20.00				Y	Clay		mid	grey		
R20		Ter		184.00	186.00	2.00				Y	Sand		light dark	grey	F	Loosely consolidated, quartzose, well sorted, minor white clay matrix
R21		Ter		186.00	192.00	6.00	2			Y	Lignitic Clay		dark grey	brown		
R22		Ter		192.00	197.00	5.00	2			Y	Lignite		brown	black		Clay laminae throughout
R23		Ter		197.00	214.00	17.00	2			Y	Clay	60	dark	grey		
R24		Ter					2				Lignite	40	brown	black		
R25		Ter		214.00	222.00	8.00				Y	Sand		mid	grey	F	Quartzose, well sorted, calcareous matrix, hard bands @ base
R26		Prot?		222.00	224.00	2.00				Y	Basement		white	light grey		Sandy, calcareous, very hard @ base, refusal. END OF HOLE 224 metres
R27																

LOG 7 FPR H10-1

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H10-2

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	7.00	7.00				Y	Soil			brown		Silty
R2		Qua		7.00	42.00	35.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix
R3		Qua		42.00	44.00	2.00				Y	Gravel		beige	grey	M-C	Loosely consolidated, poorly sorted, subrounded to angular rock fragments
R4		Ter		44.00	58.00	14.00				Y	Clay		red	brown		Soft, mottled, minor gravel
R5		Ter		58.00	66.00	8.00				Y	Clay		grey	brown red		Soft, mottled
R6		Ter		66.00	74.00	8.00				Y	Clay		brown	red		Soft, mottled
R7		Ter		74.00	82.00	8.00				Y	Clay		light	grey		
R8		Ter		82.00	108.00	26.00				Y	Clay		mid	grey		
R9		Ter		108.00	123.00	15.00				Y	Sand		light	grey	F-C	Loosely consolidated, quartzose, well sorted, minor grey clay matrix, coarser @ base
R10		Ter		123.00	128.00	5.00	1			Y	Lignitic Sand		grey	black		Fine quartzose lignitic sand
R11		Ter		128.00	132.00	4.00	1			Y	Lignite	50	brown	black		
R12		Ter								Y	Clay	50	dark	grey		
R13		Ter		132.00	140.00	8.00				Y	Clay		mid	grey		
R14		Ter		140.00	144.00	4.00				Y	Carbonaceous Clay		dark	grey		lignite fragments throughout
R15		Ter		144.00	148.00	4.00	2			Y	Lignite		brown	black		
R16		Ter		148.00	152.00	4.00				Y	Clay	60	dark	grey		
R17		Ter								Y	Lignite	40	brown	black		
R18		Ter		152.00	156.00	4.00				Y	Clay		light	grey		
R19		Ter		156.00	164.00	8.00				Y	Sand		mid	grey	F-M	Loosely consolidated, quartzose, well sorted, minor grey clay matrix
R20		Ter		164.00	168.00	4.00				Y	Carbonaceous Clay		dark	grey		lignite fragments throughout
R21		Ter		168.00	176.00	8.00				Y	Sand		mid	grey	F-P	Loosely consolidated, quartzose, moderately sorted, minor grey clay matrix, gravel throughout
R22		Ter		176.00	182.00	6.00	2			Y	Clay	50	dark	grey		Clay laminae throughout
R23		Ter					2			Y	Sand	40	mid	grey	F	
R24		Ter					2				Lignite	10	brown	black		
R25		Ter		182.00	186.00	4.00				Y	Sand		mid	grey	F	Quartzose, well sorted, calcareous? matrix
R26		Prot?		186.00	195.00	9.00				Y	Basement		white	light grey		Sandy, calcareous, increasingly hard towards base, refusal. END OF HOLE 195 metres
R27																

LOG 8 FPR H10-2

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H11-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	6.00	6.00				Y	Soil			brown		Loosely consolidated, silty matrix
R2		Qua		6.00	14.00	8.00				Y	Soil	60		brown		Loosely consolidated, poorly sorted, subrounded to subangular rock fragments, silty clay matrix
R3		Qua								Y	Clayey gravel	40	beige	grey	M-P	
R4		Qua		14.00	18.00	4.00				Y	Gravel		red	grey		Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix, Hard Fe band @ 16m
R5		Ter		18.00	36.00	18.00				Y	Clayey gravel		grey	brown	F-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix
R6		Ter		36.00	42.00	6.00				Y	Clayey gravel			brown	F-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix
R7		Ter		42.00	54.00	12.00				Y	Clayey gravel		grey	brown	F-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix
R8		Ter		54.00	60.00	6.00				Y	Clay		brown	red		Soft, mottled, silty
R9		Ter		60.00	79.00	19.00				Y	Clay		light grey	orange red		Soft, mottled, becoming sandy @ base
R10		Ter		79.00	88.00	9.00				Y	Sandy clay		light grey	orange red		Soft, mottled
R11		Ter?Jur?		88.00	98.00	10.00				Y	Sand		light	grey	F-C	Moderately consolidated, quartzose, well sorted, minor white clay matrix
R12		Ter?Jur?		98.00	113.00	15.00				Y	Clay			white		
R13		Ter?Jur?		113.00	126.00	13.00				Y	Sand		light	grey	F-M	Moderately consolidated, quartzose, well sorted, minor white clay matrix
R14		?		126.00	149.00	23.00				Y	Sand		mid	grey	F-C	Moderately consolidated, quartzose, well sorted, minor white clay matrix, carbonaceous 133m-140m
R15		?		149.00	176.00	27.00	1			Y	Lignite(Coal?)		brown	black		
R16		?		176.00	180.00	4.00				Y	Sand		light	grey	F-M	Moderately consolidated, quartzose, well sorted, minor white clay matrix
R17		Prot?		180.00	183.00	3.00				Y	Basement?					Hard, no viable cuttings, refusal. END OF HOLE 183 metres
R18																
R19											EOH: 183m					
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																

LOG 9 FPR H11-1

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H2-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	8.00	8.00				Y	Soil			brown		Minor gravel @ base
R2		Qua		8.00	14.00	6.00				Y	Clayey gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R3		Qua		14.00	18.00	4.00				Y	Gravel			grey	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R4		Qua		18.00	22.00	4.00				Y	Clayey gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R5		Qua		22.00	25.00	3.00				Y	Gravel			grey	C-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R6		Qua		25.00	36.00	11.00				Y	Clayey gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R7		Qua		36.00	38.00	2.00				Y	Gravel			grey	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R8		Qua		38.00	51.00	13.00				Y	Clayey gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R9		Ter		51.00	78.00	27.00				Y	Clay			brown		Soft, gravelly in part
R10		Ter		78.00	146.00	68.00				Y	Clay		light grey	brown red		Soft, mottled, minor gravel bands
R11		Ter		146.00	168.00	22.00				Y	Clay		light orange	brown red		Soft, mottled, minor gravel bands
R12		Ter		168.00	190.00	22.00				Y	Clay		light grey	brown white		Soft, mottled
R13		Ter		190.00	192.00	2.00				Y	Sand		light grey	red	F-M	Loosely consolidated, quartzose, well sorted, minor clay matrix
R14		Ter		192.00	234.00	42.00				Y	Clay		light	grey	F-C	Soft, sandy in part
R15		Ter		234.00	251.00	17.00				Y	Sand		light	grey beige	F	Loosely consolidated, quartzose, well sorted, clay matrix, poor recovery after 242m, rig capacity 251m. END OF HOLE 251 metres
R16																
R17																
R18											EOH: 251m					
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																

LOG 10 FPR H2-1

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H5-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	1.00	1.00				Y	Soil			brown		
R2		Qua		1.00	16.00	15.00				Y	Gravel		grey	brown white	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R3		Ter		16.00	24.00	8.00				Y	Silty Gravel		red	brown		Soft, minor gravel throughout
R4		Ter		24.00	36.00	12.00				Y	Silty Gravel		light	brown		Hard silcrete band @ top
R5		Ter		36.00	42.00	6.00				Y	Clay		light	grey brown		Silty in part
R6		Ter		42.00	44.00	2.00				Y	Clay		red	brown		
R7		Ter		44.00	60.00	16.00				Y	Silty Clay		mid	brown		
R8		Ter		60.00	117.00	57.00				Y	Silty Clay		brown grey	red yellow		Mottled in part, sandy between 74m and 78m
R9		Ter		117.00	147.00	30.00				Y	Clay		beige yellow	grey red		Mottled, varicoloured
R10		Ter		147.00	156.00	9.00				Y	Clay		mid	grey		Mottled brown in part, minor carbonaceous fragments throughout
R11		Ter		156.00	169.00	13.00				Y	Clay		light	grey		Mottled brown in part
R12		Ter		169.00	174.00	5.00				Y	Carbonaceous Clay		grey	black		
R13		Ter		174.00	180.00	6.00				Y	Clay		beige grey	brown red		Mottled, carbonaceous fragments throughout
R14		Ter		180.00	200.00	20.00				Y	Clay		green	grey		Uniform, occasional carbonaceous band @ top
R15		Ter		200.00	217.00	17.00				Y	Sand			beige	VF	Loosely consolidated, quartzose, well sorted, minor clay matrix, coal fragments @ 210m, poor recovery @ base
R16		Ter		217.00	220.00	3.00				Y	Lignite (coal?)			black		
R17		Ter		220.00	234.00	14.00				Y	Sand		grey	beige	VF	Loosely consolidated, quartzose, well sorted, minor clay matrix, poor sample recovery
R18		Ter		234.00	240.00	6.00				Y	Clay		green	grey		Mottled in part
R19		Ter		240.00	262.00	22.00				Y	Carbonaceous Clay		grey	black		Uniform, coal fragments @ base
R20		Ter		262.00	266.00	4.00				Y	Sand	70%	grey	beige	VF	Loosely consolidated, quartzose, well sorted, minor clay matrix, poor sample recovery
R21											Lignite (coal?) fragments	30%		black		
R22		Ter		266.00	276.00					Y	Sand		grey	beige	VF	Loosely consolidated, quartzose, well sorted, minor clay matrix, carbonaceous staining and fragments throughout, End of Hole 276 metres
R23																
R24											EOH: 276m					
R25																
R26																
R27																

LOG 11 FPR H5-1

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR P11-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	14.00	14.00				Y	Soil			brown		Silty
R2		Qua		14.00	16.00	2.00				Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, clayey in part
R3		Qua		16.00	26.00	10.00				Y	Soil			brown		Silty, minor gravel throughout
R4		Qua		26.00	30.00	4.00				Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, blue/grey clay in part
R5		Qua		30.00	34.00	4.00				Y	Clay			brown		Silty, minor gravel throughout
R6		Qua		34.00	61.00	27.00				Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, blue/grey clay in part
R7		Qua		61.00	96.00	35.00				Y	Clay		light	brown		Silty, minor gravel throughout
R8		Qua		96.00	107.00	11.00				Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix, hard bands between 98m and 100m
R9		Ter		107.00	120.00	13.00				Y	Sand			beige	F	Loosely consolidated, quartzose, well sorted, minor silty matrix, gravelly @ base
R10		Ter		120.00	152.00	32.00				Y	Clay		red brown	grey yellow		Mottled
R11		Ter		152.00	192.00	40.00				Y	Clay		beige brown	grey yellow		Mottled in part
R12		Ter		192.00	204.00	12.00				Y	Clay		grey	brown		Poor sample return, pressure in hole, END OF HOLE 204m
R13																
R14											EOH: 204m					
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																

LOG 12 FPR P11-1

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H2-2

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	8.00	8.00				Y	Soil		light	brown		Silty matrix, loosely consolidated
R2		Qua		8.00	11.00	3.00				Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments
R3		Qua		11.00	16.00	5.00				Y	Silty Clay		light	brown		Minor gravel throughout
R4		Qua		16.00	18.00	2.00				Y	Gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments
R5		Ter		18.00	26.00	8.00				Y	Silty Clay		light	brown		Minor gravel throughout
R6		Ter		26.00	30.00	4.00				Y	Clay		red	brown		
R7		Ter		30.00	36.00	6.00				Y	Sandy Clay		red	beige		
R8		Ter		36.00	44.00	8.00				Y	Clay		red	brown		
R9		Ter		44.00	48.00	4.00				Y	Clay			grey brown		mottled red @ base
R10		Ter		48.00	130.00	82.00				Y	Clay		grey	red		Mottled, minor gravel bands
R11		Ter		130.00	160.00	30.00				Y	Clay		red	brown		Mottled, silty in part
R12		Ter		160.00	182.00	22.00				Y	Clay		grey	brown		Mottled, sandy @ base
R13				182.00	245.00	63.00				Y	Clay		light	grey		Minor red mottling, minor silty bands, END OF HOLE 245m
R14																
R15											EOH: 245m					
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																

LOG 13 FPR H2-2

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR P7-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	13.00	13.00				Y	Soil		light	brown		Silty, minor gravel
R2		Qua		13.00	22.00	9.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R3		Qua		22.00	31.00	9.00				Y	Gravelly Clay		grey	brown		
R4		Qua		31.00	32.00	1.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R5		Qua		32.00	51.00	19.00				Y	Gravelly Clay		grey	brown		Minor gravel throughout
R6		Ter?		51.00	66.00	15.00				Y	Clay			brown		Gravel band @ 60m
R7		Ter?		66.00	74.00	8.00				Y	Clay		red	brown white		mottled
R8		Ter?		74.00	78.00	4.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R9		Ter		78.00	92.00	14.00				Y	Clay		red	brown white		mottled in part, silty in part
R10		Ter		92.00	95.00	3.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R11		Ter		95.00	100.00	5.00				Y	Clay		red	brown white		mottled
R12		Ter		100.00	110.00	10.00				Y	Sand		beige	brown	F-C	Loosely consolidated, quartz lithic, moderately sorted, minor silty matrix, gravel throughout
R13		Ter		110.00	114.00	4.00				Y	Clay		red	brown white		mottled
R14		Ter		114.00	116.00	2.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R15		Ter		116.00	132.00	16.00				Y	Clay		red	brown white		mottled
R16		Ter		132.00	186.00	54.00				Y	Clay		beige red	brown purple		mottled, silty in part
R17		Ter		186.00	240.00	54.00				Y	Sand		white	grey	F-C	Moderately consolidated, quartzose, well sorted, white clay (calcareous?) matrix, coarser @ top
R18		Ter		240.00	266.00	26.00				Y	Clay		beige grey	white yellow		mottled in part
R19		Ter		266.00	275.00	9.00				Y	Sand		white	beige	F-M	Poor sample return, white clay (calcareous?) matrix, END OF HOLE 275m
R20																
R21											EOH: 275m					
R22																
R23																
R24																
R25																
R26																
R27																

LOG 14 FPR P7-1

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR P7-2

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	78.00	78.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, minor silty/clay matrix, mottled red/brown clay @ 70m to 72m
R2		Ter		78.00	128.00	50.00				Y	Clay		light red	grey brown		mottled in part, sandy in part, minor gravel
R3		Ter		128.00	140.00	12.00				Y	Clay		light red	grey beige		varicoloured, minor coal fragments @ 134m, minor carbonaceous bands between 134m and 140m
R4		Ter		140.00	160.00	20.00				Y	Clay		light red	grey brown		mottled
R5		Ter		160.00	189.00	29.00				Y	Clay		white red	purple brown		mottled
R6		Ter		189.00	275.00	86.00				Y	Not logged					No carbonaceous material, END OF HOLE 275m
R7																
R8																
R9											EOH: 275m					
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																

LOG 15 FPR P7-2

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR LC4-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	2.00	2.00				Y	Soil		red	brown		Silty
R2		Qua		2.00	6.00	4.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, subrounded to subangular rock fragments, silty matrix
R3		Prot?		6.00	18.00	12.00				Y	Clay		grey brown red	grey yellow		mottled, weathered basement
R4		Prot?		18.00	22.00	4.00				Y	Quartzite?/Dolomite?		light	grey		
R5		Prot?		22.00	38.00	16.00				Y	Clay		yellow	beige		
R6		Prot?		38.00	58.00	20.00				Y	Clay		pink	grey		
R7		Prot?		58.00	69.00	11.00				Y	Clay		blue	grey		Hard @ base, rig refusal, END OF HOLE 69m
R8																
R9											EOH: 69m					
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																

LOG 16 FPR LC4-1

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR LC3-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	1.00	1.00				Y	Soil			brown		Silty
R2		Qua		1.00	4.00	3.00				Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R3		Prot?		4.00	10.00	6.00				Y	Siltstone		light	grey		
R4		Prot?		10.00	16.00	6.00				Y	Siltstone		brown grey	purple yellow		Limonitic @ top, Fe staining towards base, ironstone band @ base
R5		Prot?		16.00	81.00	65.00				Y	Siltstone		brown light	purple grey		Minor limonitic staining, hard @ base, rig refusal, END OF HOLE 81m
R6																
R7											EOH: 81m					
R8																
R9																
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																

LOG 17 FPR LC3-1

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR LC3-2

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	2.00	2.00				Y	Silty soil		white	beige		gypsum throughout
R2		Prot?		2.00	4.00	2.00				Y	Siltstone		grey	brown		
R3		Prot?		4.00	9.00	5.00				Y	Siltstone		red	brown		Fe staining, pink mottling in part
R4		Prot?		9.00	26.00	17.00				Y	Siltstone		light	grey		
R5		Prot?		26.00	52.00	26.00				Y	Siltstone		mid	grey		
R6		Prot?		52.00	56.00	4.00				Y	Siltstone		mid	grey beige		clayey
R7		Prot?		56.00	70.00	14.00				Y	Siltstone		light	grey		pink mottling throughout
R8		Prot?		70.00	74.00	4.00				Y	Siltstone		light	grey pink		
R9		Prot?		74.00	88.00	14.00				Y	Siltstone		light	grey beige		limonitic staining increasing to base
R10		Prot?		88.00	93.00	5.00				Y	Siltstone		blue	grey		Hard @ base, rig refusal, END OF HOLE 93m
R11																
R12											EOH: 93m					
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																

LOG 18 FPR LC3-2

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR LC3-3

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	1.00	1.00				Y	Soil			brown		Silty
R2		Qua		1.00	6.00	5.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix, calcrete @ top
R3		Prot?		6.00	25.00	19.00				Y	Siltstone		light	grey beige		Minor gravel, mottled in part, Fe staining @ 20m, limonitic staining throughout
R4		Prot?		25.00	42.00	17.00				Y	Siltstone		red	grey brown		mottled in part
R5		Prot?		42.00	51.00	9.00				Y	Siltstone		beige	grey		
R6		Prot?		51.00	90.00	39.00				Y	Siltstone			grey		clayey @ 64m to 70m
R7		Prot?		90.00	95.00	5.00				Y	Siltstone		blue	grey		Hard @ base, rig refusal, END OF HOLE 95m
R8																
R9											EOH: 95m					
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																

LOG 19 FPR LC3-3

RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR LC1-1

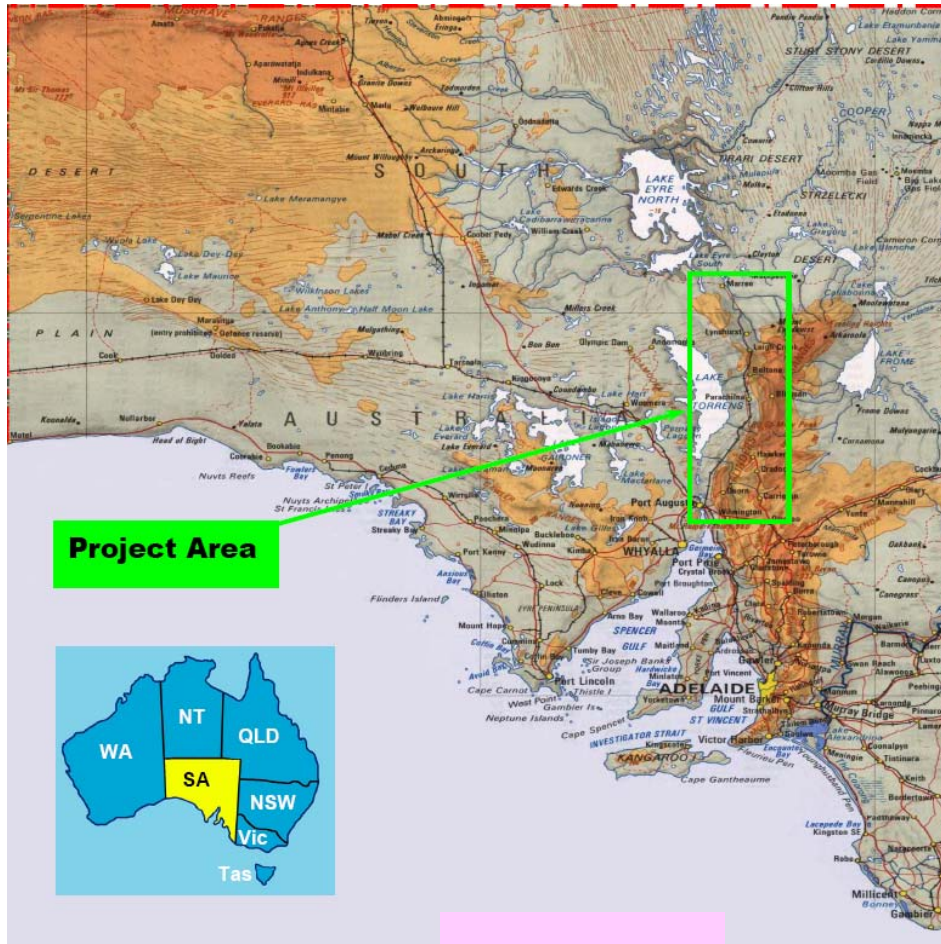
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R1		Qua		0.00	5.00	5.00				Y	Soil	50%		brown		Silty, ferruginous
R2											Gravel	50%	grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R3		Prot?		5.00	36.00	31.00				Y	Siltstone		light	grey		
R4		Prot?		36.00	159.00	123.00				Y	Siltstone/(metasediment?)		light	blue grey		Uniform, sandy @ base, rig refusal, END OF HOLE 159m
R5																
R6											EOH: 159m					
R7																
R8																
R9																
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																

LOG 20 FPR LC1-1

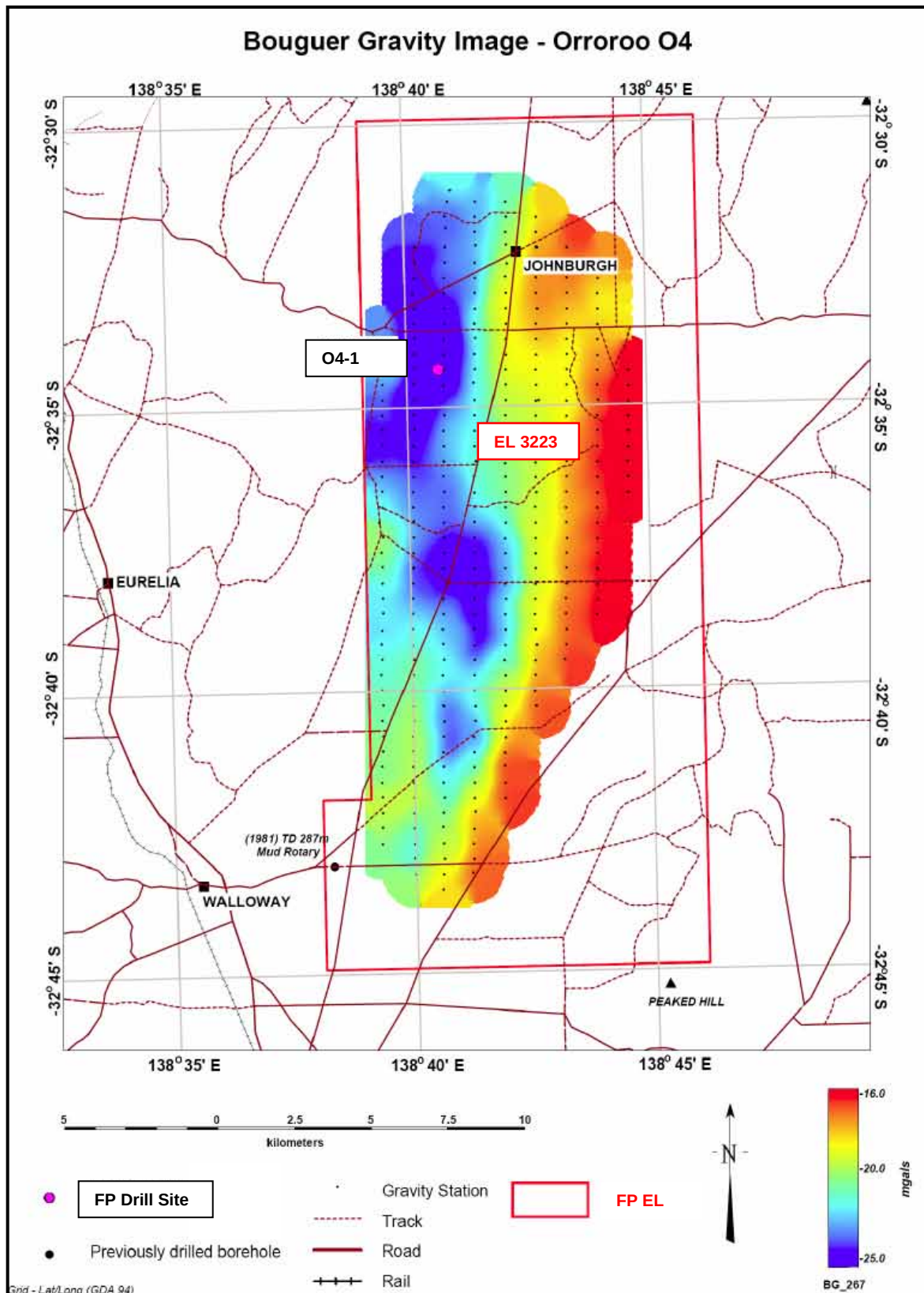
LEIGH CREEK CORRIDOR PROJECT
APPENDIX 3 DRILL SITE MAPS

Map 1 Project Work Area	47
Map 2 O4 Drill Site Area	48
Map 3 H8 and H9 Drill Site Areas	49
Map 4 H10 and H11 Drill Site Areas	50
Map 5 H1 and H2 Drill Site Areas	51
Map 6 H5 Drill Site Area	52
Map 7 P10 and P11 Drill Site Areas	53
Map 8 P5 and P7 Drill Site Areas	54
Map 9 LC1 and LC3 Drill Site Areas	55
Map 10 LC4 Drill Site Area	56

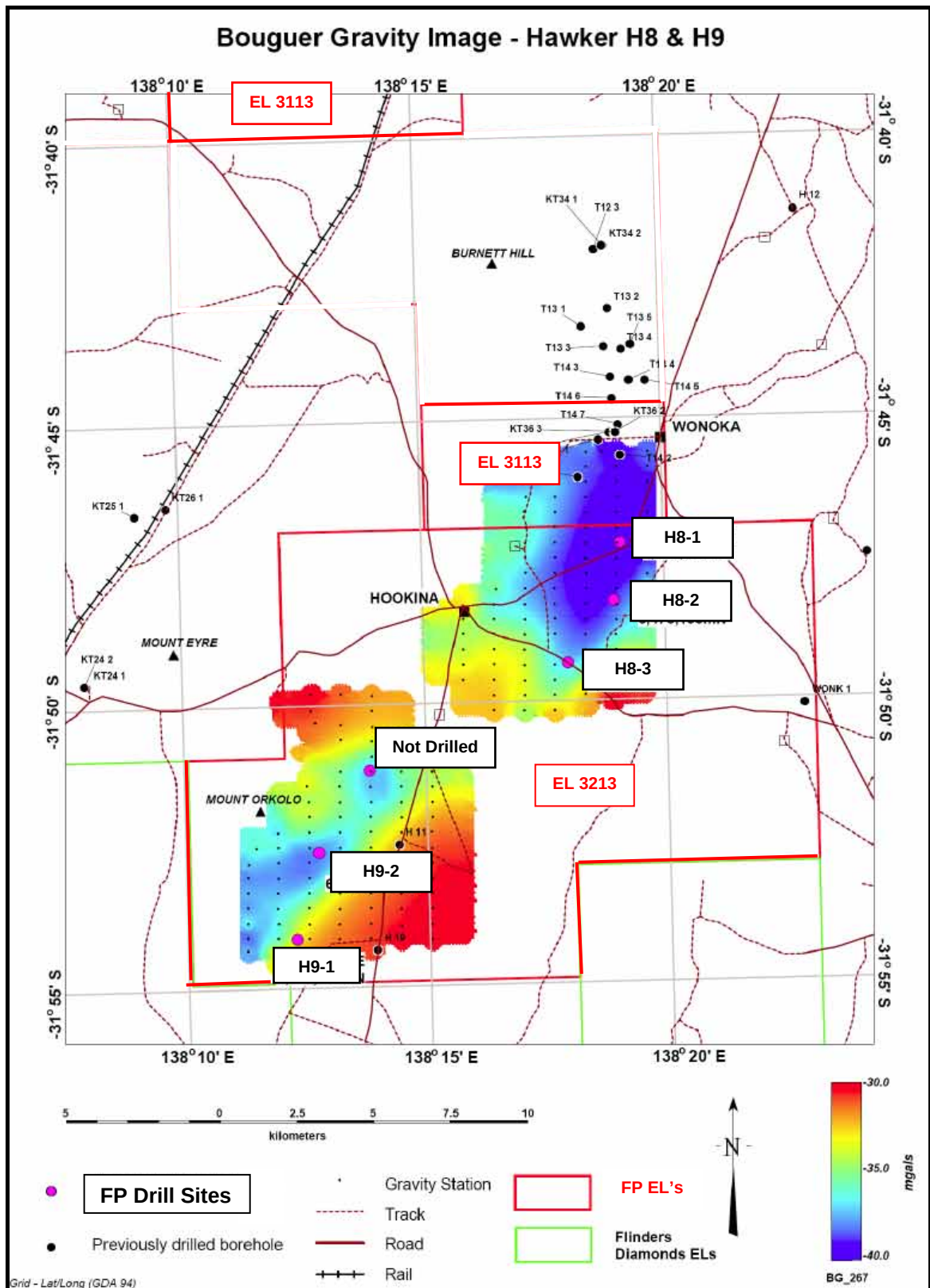
Norman Kennedy
Rank Geological Services Pty Ltd
Updated 16 July 2007
Robert Williams
Flinders Power



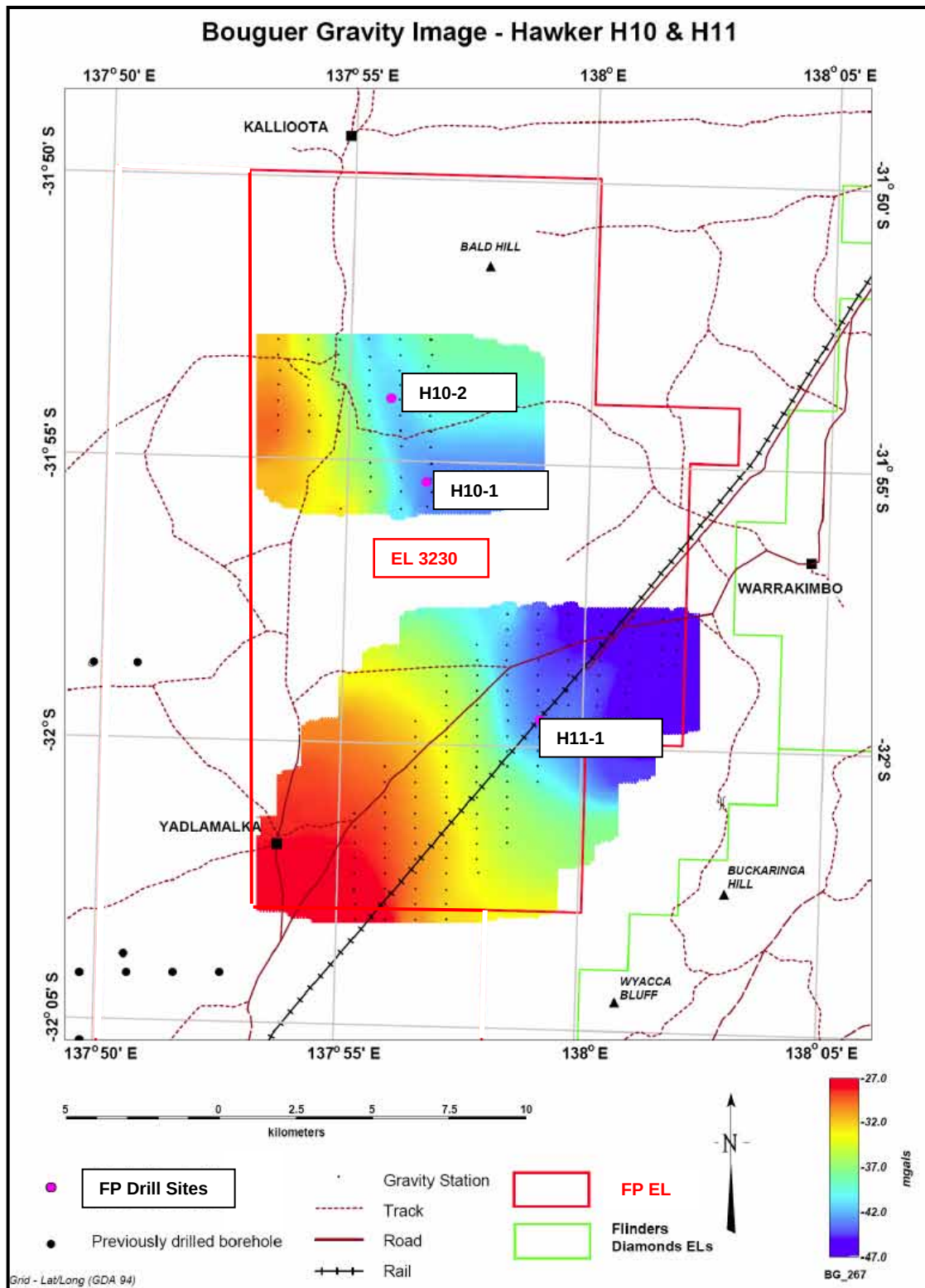
Map 1 Project Work Area



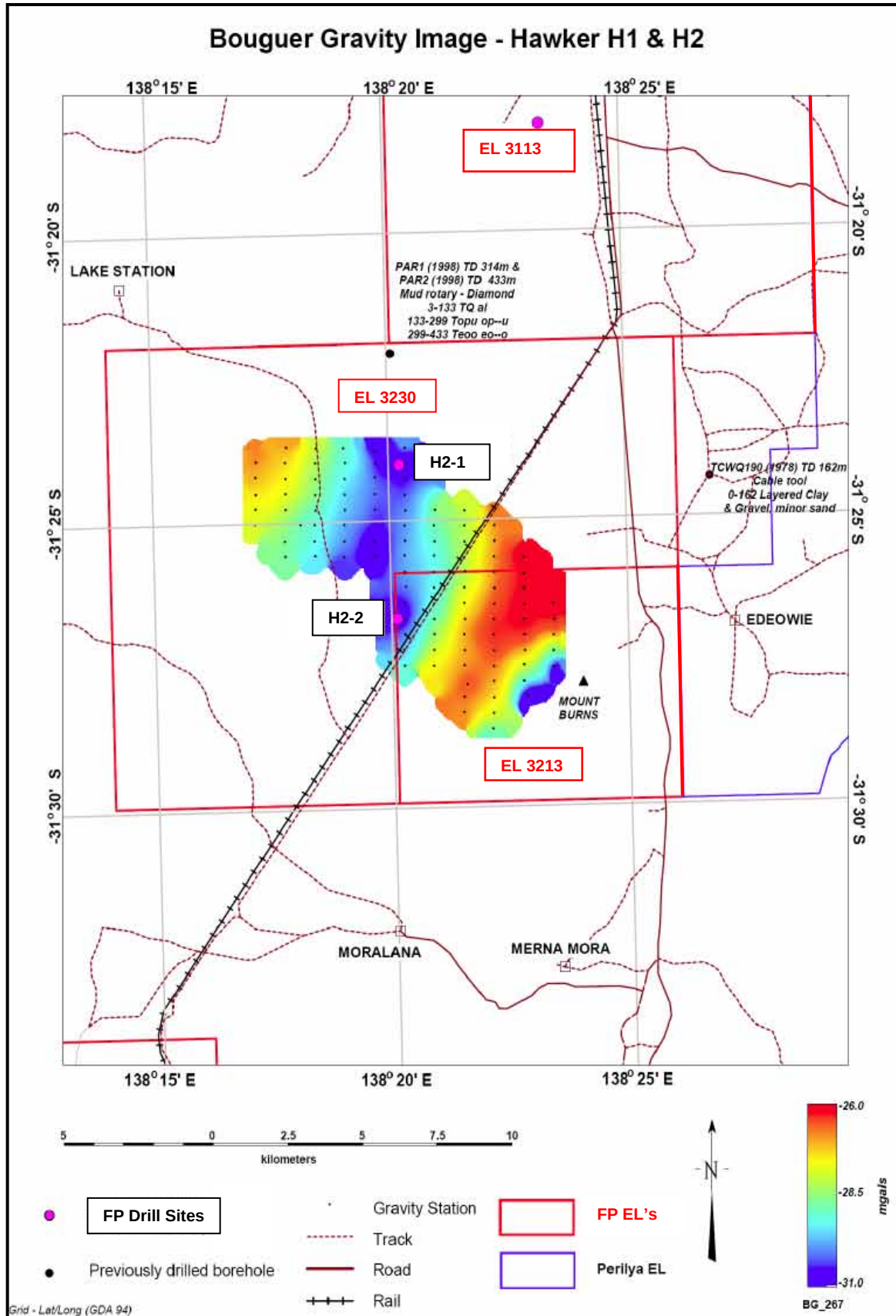
Map 2 O4 Drill Site Area



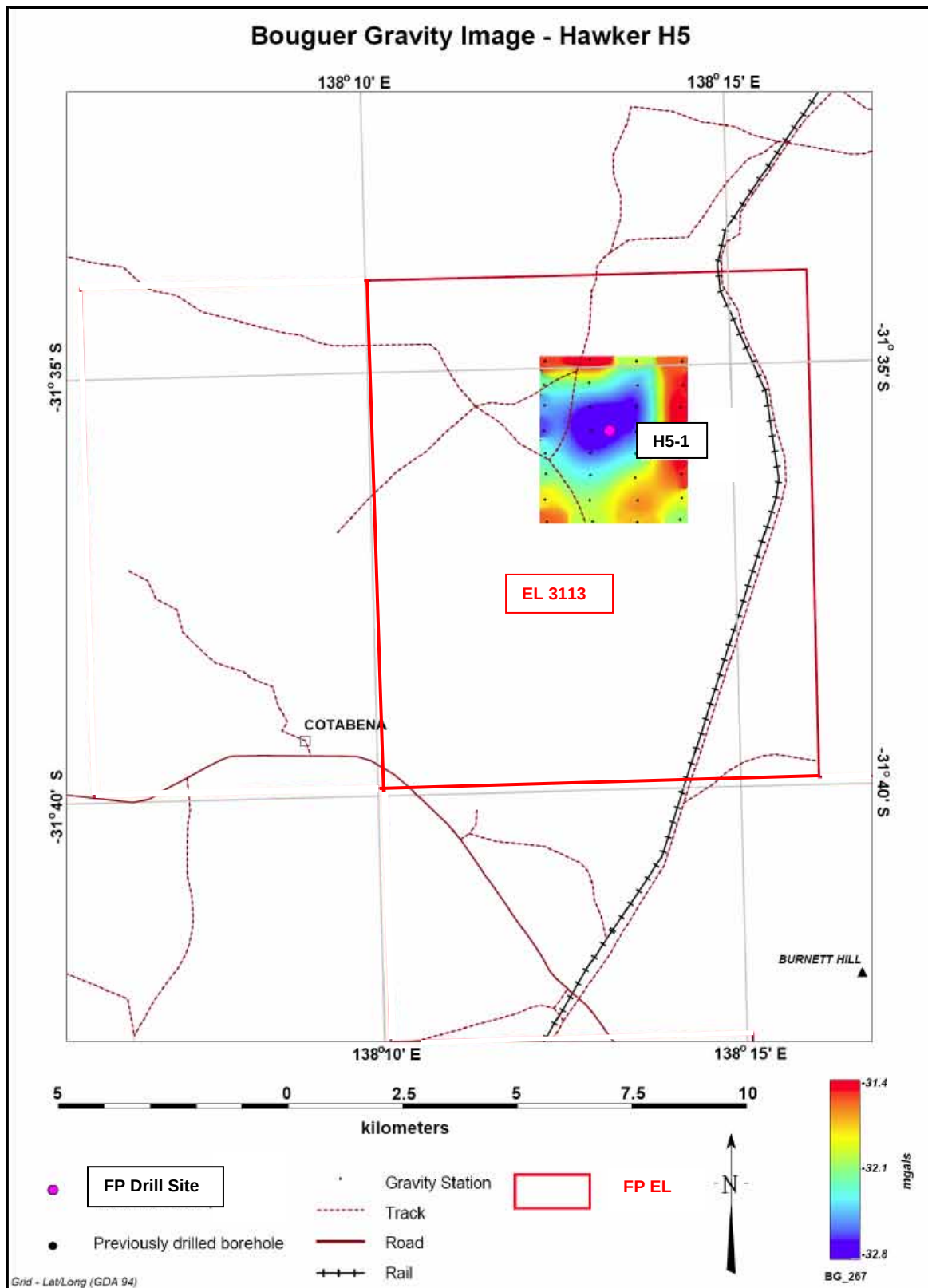
Map 3 H8 and H9 Drill Site Areas



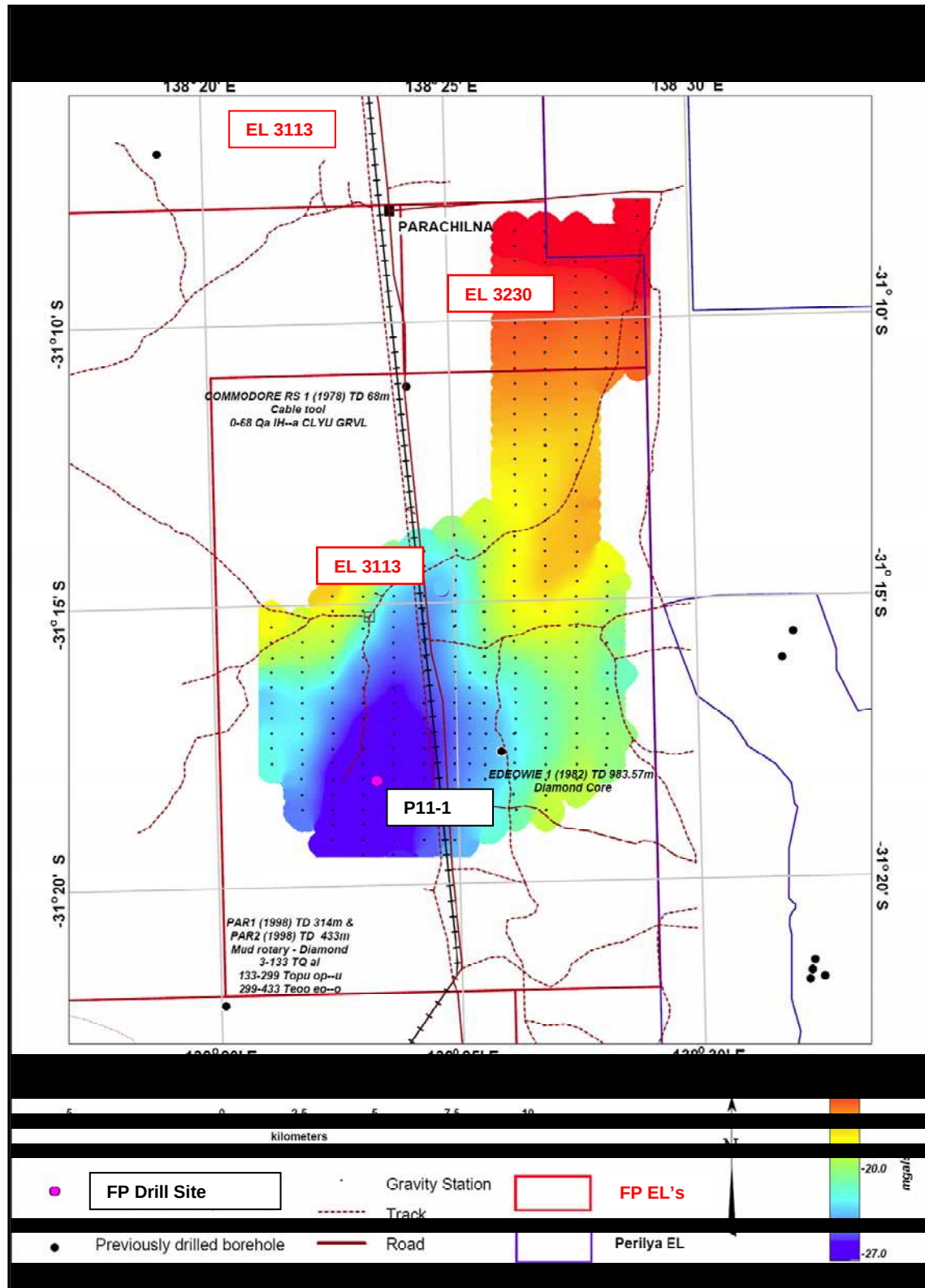
Map 4 H10 and H11 Drill Site Areas



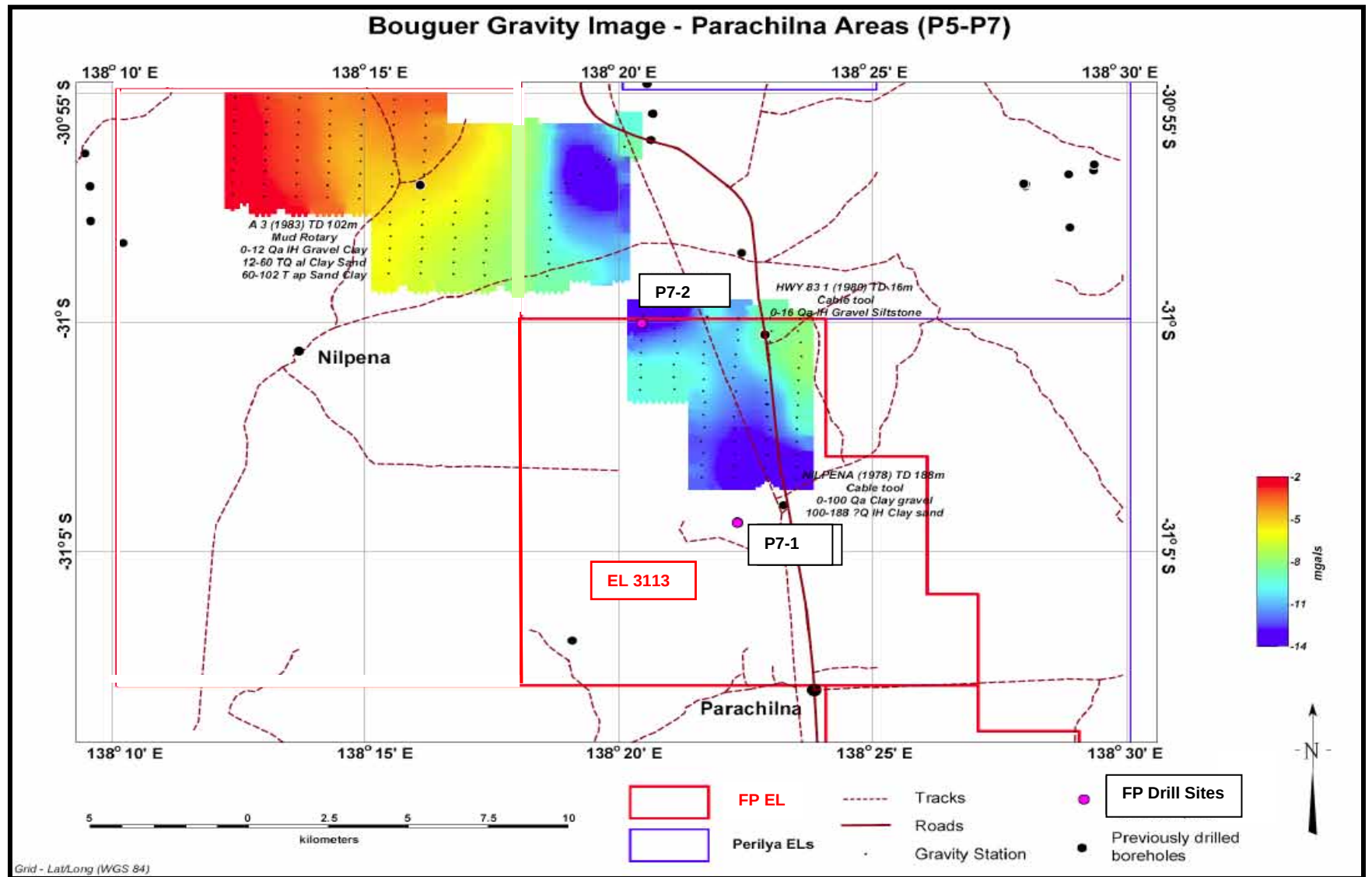
Map 5 H1 and H2 Drill Site Areas



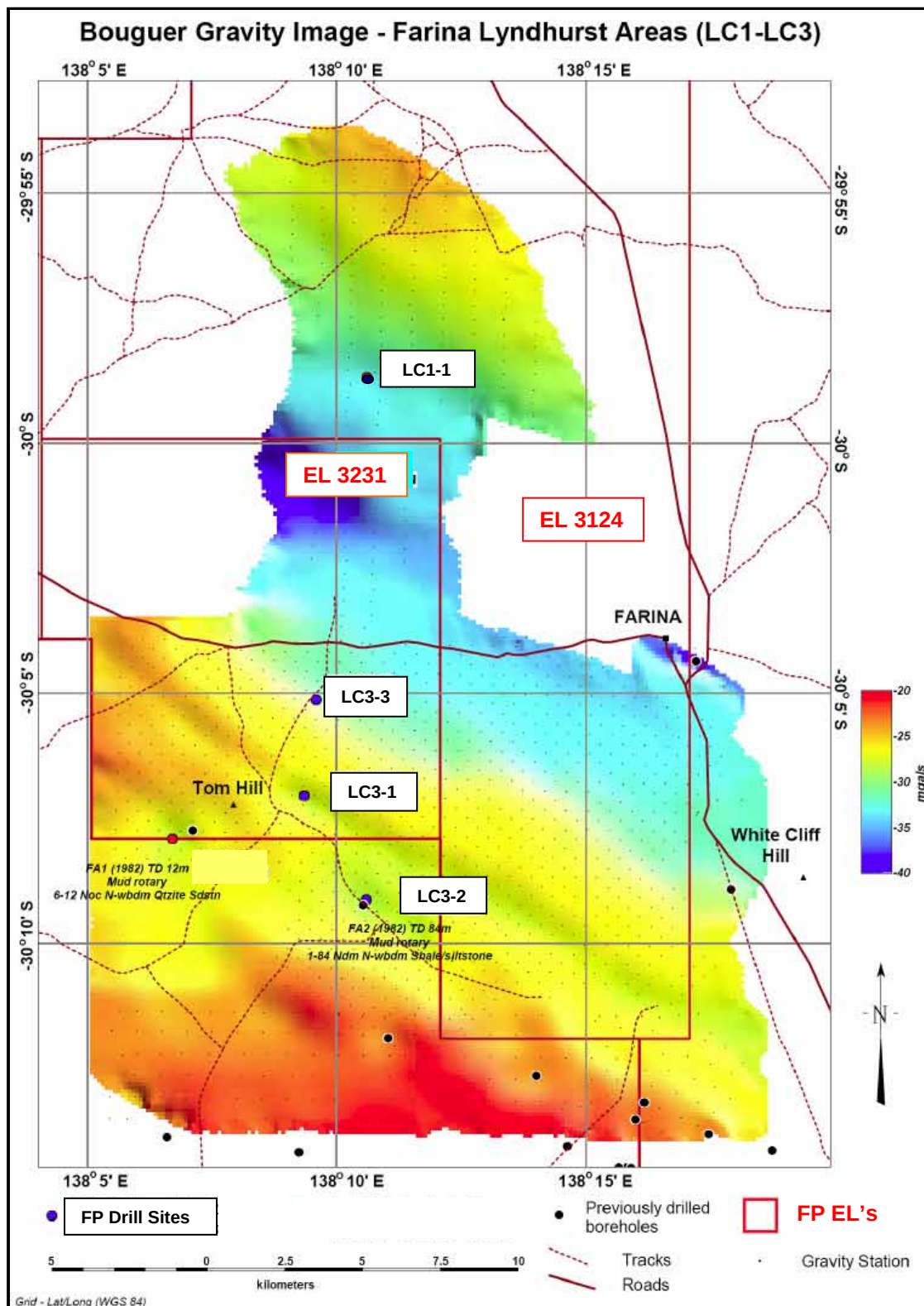
Map 6 H5 Drill Site Area



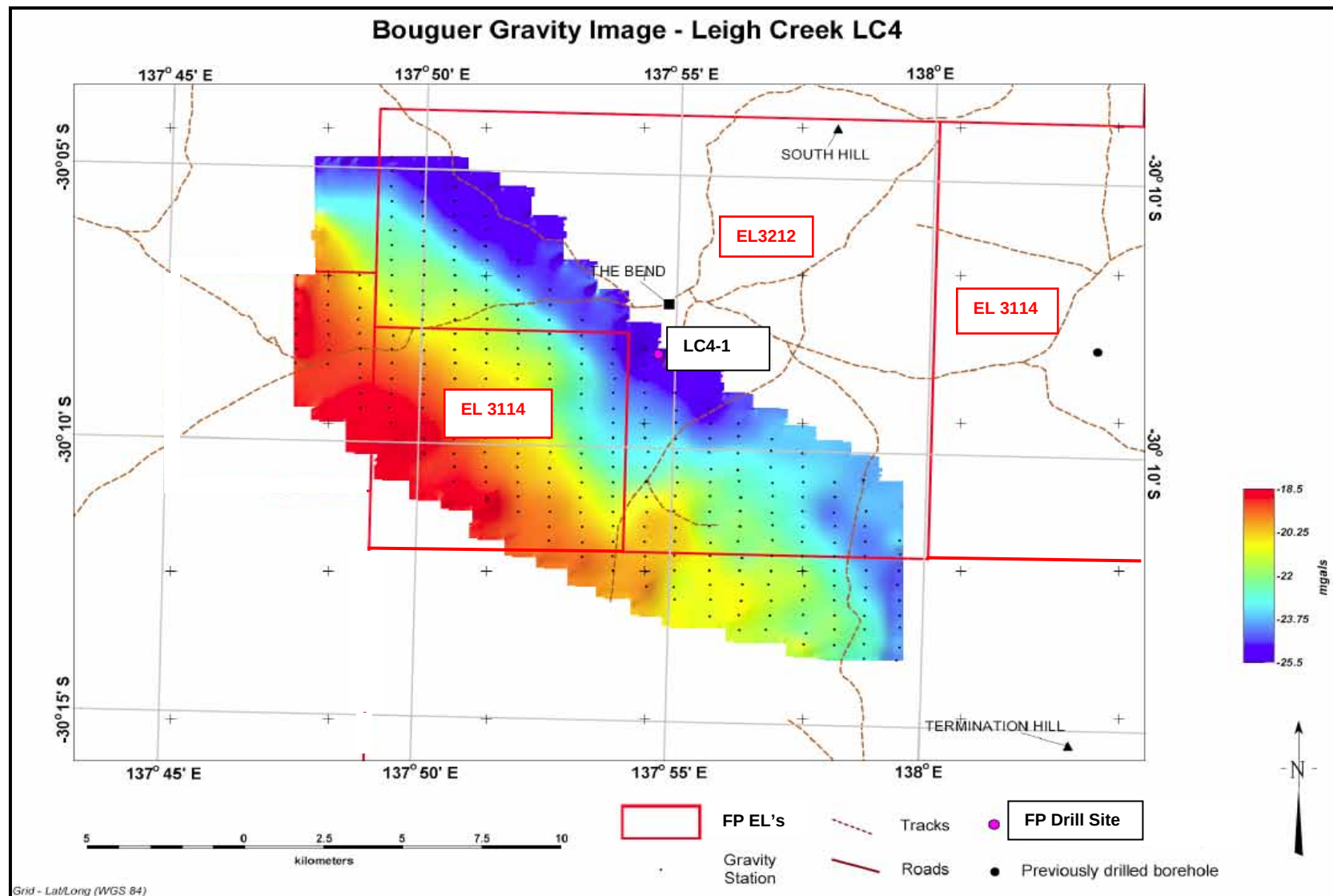
Map 7 P10 and P11 Drill Site Areas



Map 8 P5 and P7 Drill Site Areas



Map 9 LC1 and LC2 Drill Site Areas



LEIGH CREEK CORRIDOR PROJECT

APPENDIX 4 DATA AND VERIFICATION FILES

LISTING

FPR 2006 A 02 Lithologs.txt	58
FPR 2006 A 03 DrillCollars.txt	73
FPR 2006 A 04 DrillCollars.txt	74
FPR 2006 A 05 DrillCollars.txt	75
FPR 2006 A 06 DrillCollars.txt	76
FPR 2006 A 07 DrillCollars.txt	77
FPR 2006 A 08 DrillCollars.txt	78
FPR 2006 A 09 DrillCollars.txt	79
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FPR 2006 A 11 DrillCollars.txt	81
FPR 2006 A 12 DrillingSummary.txt	82
FPR 2006 A 13 BoreHoleCompletionDates.xls	83
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FPR 2006 A 02 Lithologs.txt

0002 Version 3
 H0003 Date_generated 29-Jun-2007
 H0004 Reporting_period_end_date
 H0005 State SA
 H0100 Tenement_no/Combined_rept_no. 3113 3114 3124 3212 3213 3223 3230
 3231 3514 3588
 H0101 Tenement_holder FLINDERS POWER PARTNERSHIP
 H0102 Project_name LEIGH CREEK CORRIDOR
 H0106 Tenement_operator FLINDERS POWER
 H0150 250K_map_sheet_number SH5312 SH5316 SH5405
 SH5409 SH5413 SI5401
 H0151 100K_map_sheet_number 6434 6437 6534 6535 6537 6538
 6633
 H0152 50K_map_sheet_number
 H0153 25K_map_sheet_number
 H0200 Start_date_of_data_acquisition 20-Oct-2006
 H0201 End_date_of_data_acquisition 30-Nov-2006
 H0202 Data_format DL1
 H0203 Number_of_data_records 270
 H0204 Date_of_metadata_update 29-Jun-2007
 H0303 lithology_data_file FPR 2006 A 02 Lithologs.txt
 H0306 location_data_file FPR 2006 A 03 DrillCollars.txt
 H0308 other_data_file_name? Report body file
 FPR_2006_A_01_ReportBody.pdf
 H0400 Drill_code RTM
 H0401 Drill_contractor WATSON DRILLING
 H0402 Description Rotary - Mud
 H0502 Vertical_datum AHD
 H0532 Surveying_instrument Downhole depth
 H0533 Surveying_company
 H0900 Remarks

H1000	Hole_id	Stratigraphy	Depthfrom	Depthto	Thick	Seam #	Chip	Lithology	Interbed	Shade	Colour	Grainsize	Comments
H1001			metres	metres	metres				%				
H1004			0.5	0.5	0.5								
D	FPR 04-1	Qua	0.00	2.00	2.00		Y	Soil & Gravel		mid	brown, red	F to B	Loosely consolidated soil and gravel, fine silt to boulder size rock fragments in silty clay matrix, very poorly sorted, rounded to angular, slight FeOx staining
D	FPR 04-1	Qua	2.00	28.00	26.00		Y	Gravel		grey	brown	F to B	Loosely consolidated gravel, Basement rock fragments in a silty clay matrix, predominantly metasediments, quartz and intrusive fragments
D	FPR 04-1	Qua	28.00	38.00	10.00		Y	Gravel		red	brown	F to B	Loosely consolidated gravel, Basement rock fragments in a silty clay matrix, predominantly metasediments, quartz and intrusive fragments
D	FPR 04-1	Qua	38.00	50.00	12.00		Y	Gravel		grey	brown	F to B	Loosely consolidated gravel, Basement rock fragments in a silty clay matrix, predominantly metasediments, quartz and intrusive fragments, increasing clay matrix, slightly ferruginous
D	FPR 04-1	TerA	50.00	122.00	72.00		Y	Silty Clay		light light	grey brown		Soft clay, minor gravel bands, increase in FeOx staining 106m to 114m
D	FPR 04-1	TerA	122.00	130.00	8.00		Y	Clay		red	grey brown		Silty in part
D	FPR 04-1	TerA	130.00	162.00	32.00		Y	Clay		light	grey pink		Minor silty bands
D	FPR 04-1	TerA	162.00	222.00	60.00		Y	Clay		light	brown red		Minor silty bands, FeOx staining throughout, hard 20cm band @ 203m
D	FPR 04-1	TerB	222.00	224.00	2.00		Y	Clay		light	grey		Carbonaceous in part, lignitic fragments
D	FPR 04-1	TerB	224.00	242.00	18.00		Y	Clay		light	grey		Carbonaceous in part, becoming lignitic @ base
D	FPR 04-1	TerB	242.00	251.00	9.00	1	Y	Clay	40	light	grey		END OF HOLE 251 metres
D								Lignitic Clay	30	-	brown		
D								Lignite	30	brown	black		

D	FPR H8-1	Qua	0	6	6		Y	Soil & Sand		mid	brown	VF	Loosely consolidated soil, well sorted, minor silty clay matrix
D	FPR H8-1	Qua/Ter ?	6	17	11		Y	Sandy Gravel		light	brown grey	F to P	Loosely consolidated gravel, poorly sorted, rounded to angular rock fragments, minor silty clay matrix
D	FPR H8-1	Qua/Ter ?	17	37	20		Y	Clay		red	brown		Sandy in part, minor gravel
D	FPR H8-1	Qua/Ter ?	37	42	5		Y	Sandy Gravel		grey	brown	F to P	Loosely consolidated, angular to rounded rock fragments, minor silty clay matrix
D	FPR H8-1	Qua/Ter ?	42	47	5		Y	Clay		red	brown		Silty, angular to rounded rock fragments throughout
D	FPR H8-1	Ter	47	51	4		Y	Sandy Gravel		beige	grey	F-C	Loosely consolidated, angular to rounded rock fragments, minor silty clay matrix
D	FPR H8-1	Ter	51	60	9		Y	Clay		red	brown		Silty, angular to rounded rock fragments throughout
D	FPR H8-1	Ter	60	62	2		Y	Sandy Gravel		beige	grey	F-C	Loosely consolidated, angular to rounded rock fragments, minor silty clay matrix
D	FPR H8-1	Ter	62	76	14		Y	Clay		red	brown		Silty, angular to rounded rock fragments throughout
D	FPR H8-1	Ter	76	102	26		Y	Clay		beige	yellow		minor silty bands, minor FeOx staining
D	FPR H8-1	Ter	102	120	18		Y	Clayey Gravel		light	brown grey	F-P	Silty in part, angular to rounded rock fragments throughout
D	FPR H8-1	Ter	120	128	8		Y	Sand		light	grey	F-M	Loosely consolidated, well sorted, clay matrix
D	FPR H8-1	Ter	128	132	4		Y	Sandstone		light	grey	F-M	moderately consolidated, well sorted, clay matrix
D	FPR H8-1	Ter	132	139	7		Y	Sand		light	grey	F	Loosely consolidated, well sorted, clay matrix
D	FPR H8-1	Ter	139	140	1	1	Y	Lignite	60	brown	black		
D	FPR H8-1							Sandy Clay	40	mid	grey		
D	FPR H8-1	Ter	140	152	12		Y	Sand		light	grey	F	Loosely consolidated, well sorted, clay matrix
D	FPR H8-1	Ter	152	175	23		Y	Lignitic Sand		brown	black grey	F	Loosely consolidated, well sorted, minor clay matrix, occasional lignite band
D	FPR H8-1	Ter	175	191	16	2	Y	Lignite		brown	black		Soft, sand throughout.
D	FPR H8-1	Ter	191	208	17		Y	Sand		light	brown grey	F-M	Loosely consolidated, well sorted, minor clay matrix, becoming more clayey @ base

D	FPR H8-1	Prot?	208	210	2		Y	?Basement ?					Very hard, no viable returns. END OF HOLE 210 metres
D	FPR H8-2	Qua	0	8	8		Y	Soil		mid	brown	VF-F	Loosely consolidated soil, minor silty clay matrix
D	FPR H8-2	Qua	8	19	11		Y	Gravel		light	brown grey	M to P	Loosely consolidated gravel, moderately sorted, rounded to subangular rock fragments, increasing clay matrix @ base
D	FPR H8-2	Ter	19	39	20		Y	Clay		red	brown		Sandy in part, minor gravel
D	FPR H8-2	Ter	39	54	15		Y	Clay		beige	light grey		Silty throughout
D	FPR H8-2	Ter	54	62	8		Y	Gravel		grey	brown	C-P	Loosely consolidated, subangular to rounded rock fragments, poorly sorted, clayey @ base
D	FPR H8-2	Ter	62	72	10		Y	Gravelly Clay		brown	grey	C-P	Moderately consolidated, subangular to rounded rock fragments, poorly sorted
D	FPR H8-2	Ter	72	79	7		Y	Clay		red orange	brown purple		Varicoloured, silty, FeOx
D	FPR H8-2	Ter	79	90	11		Y	Clay		yellow	grey red		Varicoloured, silty, FeOx
D	FPR H8-2	Ter	90	92	2		Y	Sandy Clay		light	grey		Silty, angular to rounded rock fragments throughout
D	FPR H8-2	Ter	92	102	10		Y	Clay		yellow	grey red		Varicoloured, silty, FeOx
D	FPR H8-2	Ter	102	107	5		Y	Sand		white	light grey	F	Loosely consolidated, well sorted, minor clay matrix
D	FPR H8-2	Ter	107	121	14		Y	Sandy Clay		white	light grey		
D	FPR H8-2	Ter	121	135	14		Y	Sand		white	light grey	F-M	Loosely consolidated, well sorted, minor clay matrix
D	FPR H8-2	Ter	135	138	3		Y	Sand		ochre	light brown	F	Loosely consolidated, well sorted, minor clay matrix
D	FPR H8-2	Ter	138	146	8		Y	Sand		dark	brown beige	F	Loosely consolidated, well sorted, minor clay matrix
D	FPR H8-2		146	150	4			Lignitic Sand		brown	black grey	F	Loosely consolidated, well sorted, minor clay matrix, occasional lignite band
D	FPR H8-2	Ter	150	156	6		Y	Sand		light	grey	F	Loosely consolidated, well sorted, minor clay matrix, occasional lignite band
D	FPR H8-2	Ter	156	164	8		Y	Lignitic Sand		brown	black grey	F	Loosely consolidated, well sorted, minor clay matrix, occasional lignite band
D	FPR H8-2	Ter	164	166	2		Y	Clay		light	grey		Soft, rock fragments throughout.

D	FPR H8-2	Ter	166	168	2	1	Y	Lignite		brown	black		
D	FPR H8-2	Ter	168	178	10		Y	Clay		mid	grey		Soft, occasional hard band (<10cms), sandy throughout
D	FPR H8-2	Prot?	178	182.5	4.5			Basement					Very hard, slow penetration, metasediments. END OF HOLE 182.5 metres
D	FPR H8-3	Qua	0	4	4		Y	Soil			brown		Silty, gravel throughout
D	FPR H8-3	Qua	4	20	16		Y	Gravel		brown	grey	M to B	Loosely consolidated gravel, poorly sorted, subrounded to angular rock fragments
D	FPR H8-3	Ter	20	38	18		Y	Clay			brown		Sandy in part, gravel throughout
D	FPR H8-3	Ter	38	40	2		Y	Gravel		beige	grey		Loosely consolidated gravel, poorly sorted, subrounded to angular rock fragments
D	FPR H8-3	Ter	40	43	3		Y	Clay			brown		Sandy in part, gravel throughout
D	FPR H8-3	Ter	43	60	17		Y	Gravelly Clay		brown	grey	C-P	Moderately consolidated, subangular to rounded rock fragments, poorly sorted
D	FPR H8-3	Ter	60	68	8		Y	Clay		red	brown grey		Minor gravel, silty in part, FeOx
D	FPR H8-3	Ter	68	80	12		Y	Clay		mid	grey		
D	FPR H8-3	Ter	80	86	6		Y	Sand		light	grey	F-M	Loosely consolidated, quartzose, well sorted, minor clay matrix
D	FPR H8-3	Ter	86	97	11		Y	Sand		light	grey	F	Loosely consolidated, quartzose, well sorted, becoming clayey @ base
D	FPR H8-3	Ter	97	111	14		Y	Clay		beige	grey		
D	FPR H8-3	Ter	111	126	15		Y	Mudstone		mid	grey		Minor carbonaceous lamellae throughout
D	FPR H8-3	Ter	126	133	7		Y	Mudstone		light	grey		
D	FPR H8-3	Ter	133	148	15		Y	Mudstone		light	grey		silty throughout
D	FPR H8-3	Ter	148	185	37		Y	Sandy Clay		light	grey		fine quartzose sand throughout, sandier @ base, hard bamds from 180m
D	FPR H8-3	Prot?	185	186	1			Basement		white	light grey		Very hard, metasediments, refusal. END OF HOLE 186 metres
D	FPR H9-1	Qua	0	4	4		Y	Soil			brown		gravel @ base, gypsum fragments throughout
D	FPR H9-1	Qua	4	12	8		Y	Clay		brown	grey		gravel @ base, gypsum fragments throughout
D	FPR H9-1	Qua	12	16	4		Y	Clay		beige	brown		gravel @ base, gypsum fragments throughout, base of weathering?
D	FPR H9-1	Qua	16	21	5		Y	Gravel		white	grey		Loosely consolidated gravel, poorly

													sorted, subrounded to angular rock fragments, minor clay matrix
D	FPR H9-1	Ter	21	31	10		Y	Clay		yellow	grey		Silty throughout, Soft, mottled
D	FPR H9-1	Ter	31	36	5		Y	Clay			grey		Rock fragments throughout, Soft
D	FPR H9-1	Prot?	36	42	6		Y	Basement		white	light grey		Sandy, calcareous, refusal. END OF HOLE 42 metres
D	FPR H9-2	Qua	0	4	4		Y	Soil			brown		Silty
D	FPR H9-2	Ter	4	10	6		Y	Clay		light brown	grey		Soft, minor gravel throughout, depth of weathering?
D	FPR H9-2	Ter	10	24	14		Y	Clay		beige	grey		Soft, minor gravel throughout
D	FPR H9-2	Ter	24	40	16		Y	Clay		Yellow beige	brown red		Soft, mottled
D	FPR H9-2	Ter	40	46	6		Y	Sand			white	F	Loosely consolidated, quartzose, well sorted, minor clay matrix
D	FPR H9-2	Ter	46	82	36		Y	Clay		light	grey		Minor silty bands
D	FPR H9-2	Prot?	82	96	14		Y	Basement		white	light grey		Sandy, calcareous, very hard @ base, refusal. END OF HOLE 96 metres
D	FPR H10-1	Qua	0	4	4		Y	Soil			brown		Silty
D	FPR H10-1	Qua	4	18	14		Y	Gravel		red	brown	M-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix
D	FPR H10-1	Qua	18	23	5		Y	Gravel		beige	grey	M-C	Loosely consolidated, poorly sorted, subrounded to angular rock fragments
D	FPR H10-1	Ter	23	58	35		Y	Clay		red	brown		Soft, mottled, minor gravel
D	FPR H10-1	Ter	58	70	12		Y	Clay		light	grey		Silty in part
D	FPR H10-1	Ter	70	78	8		Y	Clay		light	grey		
D	FPR H10-1	Ter	78	84	6		Y	Clay		mid	grey		
D	FPR H10-1	Ter	84	90	6		Y	Clay		light	grey		
D	FPR H10-1	Ter	90	97	7		Y	Sand		light	grey	F-M	Loosely consolidated, quartzose, well sorted, minor grey clay matrix
D	FPR H10-1	Ter	97	108	11		Y	Clay		mid	grey		
D	FPR H10-1	Ter	108	122	14		Y	Clay		light	grey		
D	FPR H10-	Ter	122	126	4		Y	Sand		beige	grey	F-M	Loosely consolidated, quartzose,

	1												well sorted, minor white clay matrix
D	FPR H10-1	Ter	126	131	5		Y	Clay		light	grey		
D	FPR H10-1	Ter	131	132	1		Y	Sand		dark	grey beige	F-M	Loosely consolidated, quartzose, well sorted, lignite fragments throughout
D	FPR H10-1	Ter	132	138	6	1	Y	Lignite	50	brown	black		
D	FPR H10-1	Ter					Y	Clay	50	dark	grey		
D	FPR H10-1	Ter	138	152	14		Y	Clay		mid	grey		Minor carbonaceous bands
D	FPR H10-1	Ter	152	164	12		Y	Clay		light	grey		
D	FPR H10-1	Ter	164	184	20		Y	Clay		mid	grey		
D	FPR H10-1	Ter	184	186	2		Y	Sand		light	grey	F	Loosely consolidated, quartzose, well sorted, minor white clay matrix
D	FPR H10-1	Ter	186	192	6	2	Y	Lignitic Clay		dark grey	brown		
D	FPR H10-1	Ter	192	197	5	2	Y	Lignite		brown	black		Clay laminae throughout
D	FPR H10-1	Ter	197	214	17	2	Y	Clay	60	dark	grey		
D	FPR H10-1	Ter				2		Lignite	40	brown	black		
D	FPR H10-1	Ter	214	222	8		Y	Sand		mid	grey	F	Quartzose, well sorted, calcareous matrix, hard bands @ base
D	FPR H10-1	Prot?	222	224	2		Y	Basement		white	light grey		Sandy, calcareous, very hard @ base, refusal. END OF HOLE 224 metres
D	FPR H10-2	Qua	0	7	7		Y	Soil			brown		Silty
D	FPR H10-2	Qua	7	42	35		Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix
D	FPR H10-2	Qua	42	44	2		Y	Gravel		beige	grey	M-C	Loosely consolidated, poorly sorted, subrounded to angular rock fragments
D	FPR H10-2	Ter	44	58	14		Y	Clay		red	brown		Soft, mottled, minor gravel
D	FPR H10-2	Ter	58	66	8		Y	Clay		grey	brown red		Soft, mottled

D	FPR H10-2	Ter	66	74	8		Y	Clay		brown	red		Soft, mottled
D	FPR H10-2	Ter	74	82	8		Y	Clay		light	grey		
D	FPR H10-2	Ter	82	108	26		Y	Clay		mid	grey		
D	FPR H10-2	Ter	108	123	15		Y	Sand		light	grey	F-C	Loosely consolidated, quartzose, well sorted, minor grey clay matrix, coarser @ base
D	FPR H10-2	Ter	123	128	5	1	Y	Lignitic Sand		grey	black		Fine quartzose lignitic sand
D	FPR H10-2	Ter	128	132	4	1	Y	Lignite	50	brown	black		
D	FPR H10-2	Ter					Y	Clay	50	dark	grey		
D	FPR H10-2	Ter	132	140	8		Y	Clay		mid	grey		
D	FPR H10-2	Ter	140	144	4		Y	Carbonaceous Clay		dark	grey		lignite fragments throughout
D	FPR H10-2	Ter	144	148	4	2	Y	Lignite		brown	black		
D	FPR H10-2	Ter	148	152	4		Y	Clay	60	dark	grey		
D	FPR H10-2	Ter					Y	Lignite	40	brown	black		
D	FPR H10-2	Ter	152	156	4		Y	Clay		light	grey		
D	FPR H10-2	Ter	156	164	8		Y	Sand		mid	grey	F-M	Loosely consolidated, quartzose, well sorted, minor grey clay matrix
D	FPR H10-2	Ter	164	168	4		Y	Carbonaceous Clay		dark	grey		lignite fragments throughout
D	FPR H10-2	Ter	168	176	8		Y	Sand		mid	grey	F-P	Loosely consolidated, quartzose, moderately sorted, minor grey clay matrix, gravel throughout
D	FPR H10-2	Ter	176	182	6	2	Y	Clay	50	dark	grey		Clay laminae throughout
D	FPR H10-2	Ter				2	Y	Sand	40	mid	grey	F	
D	FPR H10-2	Ter				2		Lignite	10	brown	black		
D	FPR H10-2	Ter	182	186	4		Y	Sand		mid	grey	F	Quartzose, well sorted, calcareous? matrix
D	FPR H10-	Prot?	186	195	9		Y	Basement		white	light		Sandy, calcareous, increasingly

	2										grey		hard towards base, refusal. END OF HOLE 195 metres
D	FPR P11-1	Qua	0	14	14		Y	Soil			brown		Silty
D	FPR P11-1	Qua	14	16	2		Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, clayey in part
D	FPR P11-1	Qua	16	26	10		Y	Soil			brown		Silty, minor gravel throughout
D	FPR P11-1	Qua	26	30	4		Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, blue/grey clay in part
D	FPR P11-1	Qua	30	34	4		Y	Clay			brown		Silty, minor gravel throughout
D	FPR P11-1	Qua	34	61	27		Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, blue/grey clay in part
D	FPR P11-1	Qua	61	96	35		Y	Clay		light	brown		Silty, minor gravel throughout
D	FPR P11-1	Qua	96	107	11		Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix, hard bands between 98m and 100m
D	FPR P11-1	Ter	107	120	13		Y	Sand			beige	F	Loosely consolidated, quartzose, well sorted, minor silty matrix, gravelly @ base
D	FPR P11-1	Ter	120	152	32		Y	Clay		red brown	grey yellow		Mottled
D	FPR P11-1	Ter	152	192	40		Y	Clay		beige brown	grey yellow		Mottled in part
D	FPR P11-1	Ter	192	204	12		Y	Clay		grey	brown		Poor sample return, pressure in hole, END OF HOLE 204m
D	FPR H2-1	Qua	0	8	8		Y	Soil			brown		Minor gravel @ base
D	FPR H2-1	Qua	8	14	6		Y	Clayey gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
D	FPR H2-1	Qua	14	18	4		Y	Gravel			grey	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
D	FPR H2-1	Qua	18	22	4		Y	Clayey gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
D	FPR H2-1	Qua	22	25	3		Y	Gravel			grey	C-B	Loosely consolidated, poorly sorted, rounded to subangular rock

													fragments, silty clay matrix
D	FPR H2-1	Qua	25	36	11		Y	Clayey gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
D	FPR H2-1	Qua	36	38	2		Y	Gravel			grey	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
D	FPR H2-1	Qua	38	51	13		Y	Clayey gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
D	FPR H2-1	Ter	51	78	27		Y	Clay			brown		Soft, gravelly in part
D	FPR H2-1	Ter	78	146	68		Y	Clay		light grey	brown red		Soft, mottled, minor gravel bands
D	FPR H2-1	Ter	146	168	22		Y	Clay		light orange	brown red		Soft, mottled, minor gravel bands
D	FPR H2-1	Ter	168	190	22		Y	Clay		light grey	brown white		Soft, mottled
D	FPR H2-1	Ter	190	192	2		Y	Sand		light grey	red	F-M	Loosely consolidated, quartzose, well sorted, minor clay matrix
D	FPR H2-1	Ter	192	234	42		Y	Clay		light	grey	F-C	Soft, sandy in part
D	FPR H2-1	Ter	234	251	17		Y	Sand		light	grey beige	F	Loosely consolidated, quartzose, well sorted, clay matrix, poor recovery after 242m, rig capacity 251m. END OF HOLE 251 metres
D	FPR H5-1	Qua	0	1	1		Y	Soil			brown		
D	FPR H5-1	Qua	1	16	15		Y	Gravel		grey	brown white	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
D	FPR H5-1	Ter	16	24	8		Y	Silty Gravel		red	brown		Soft, minor gravel throughout
D	FPR H5-1	Ter	24	36	12		Y	Silty Gravel		light	brown		Hard silcrete band @ top
D	FPR H5-1	Ter	36	42	6		Y	Clay		light	grey brown		Silty in part
D	FPR H5-1	Ter	42	44	2		Y	Clay		red	brown		
D	FPR H5-1	Ter	44	60	16		Y	Silty Clay		mid	brown		
D	FPR H5-1	Ter	60	117	57		Y	Silty Clay		brown grey	red yellow		Mottled in part, sandy between 74m and 78m
D	FPR H5-1	Ter	117	147	30		Y	Clay		beige yellow	grey red		Mottled, varicoloured
D	FPR H5-1	Ter	147	156	9		Y	Clay		mid	grey		Mottled brown in part, minor carbonaceous fragments throughout
D	FPR H5-1	Ter	156	169	13		Y	Clay		light	grey		Mottled brown in part
D	FPR H5-1	Ter	169	174	5		Y	Carbonaceous		grey	black		

								us Clay					
D	FPR H5-1	Ter	174	180	6		Y	Clay		beige grey green	brown red		Mottled, carbonaceous fragments throughout
D	FPR H5-1	Ter	180	200	20		Y	Clay			grey		Uniform, occasional carbonaceous band @ top
D	FPR H5-1	Ter	200	217	17		Y	Sand			beige	VF	Loosely consolidated, quartzose, well sorted, minor clay matrix, coal fragments @ 210m, poor recovery @ base
D	FPR H5-1	Ter	217	220	3		Y	Lignite (coal?)			black		
D	FPR H5-1	Ter	220	234	14		Y	Sand		grey	beige	VF	Loosely consolidated, quartzose, well sorted, minor clay matrix, poor sample recovery
D	FPR H5-1	Ter	234	240	6		Y	Clay		green	grey		Mottled in part
D	FPR H5-1	Ter	240	262	22		Y	Carbonaceous Clay		grey	black		Uniform, coal fragments @ base
D	FPR H5-1	Ter	262	266	4		Y	Sand	70	grey	beige	VF	Loosely consolidated, quartzose, well sorted, minor clay matrix, poor sample recovery
D	FPR H5-1							Lignite (coal?) fragments	30		black		
D	FPR H5-1	Ter	266	276			Y	Sand		grey	beige	VF	Loosely consolidated, quartzose, well sorted, minor clay matrix, carbonaceous staining and fragments throughout, End of Hole 276 metres
D	FPR P11-1	Qua	0	14	14		Y	Soil			brown		Silty
D	FPR P11-1	Qua	14	16	2		Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, clayey in part
D	FPR P11-1	Qua	16	26	10		Y	Soil			brown		Silty, minor gravel throughout
D	FPR P11-1	Qua	26	30	4		Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, blue/grey clay in part
D	FPR P11-1	Qua	30	34	4		Y	Clay			brown		Silty, minor gravel throughout
D	FPR P11-1	Qua	34	61	27		Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, blue/grey clay in part
D	FPR P11-	Qua	61	96	35		Y	Clay		light	brown		Silty, minor gravel throughout

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D	FPR P11-1	Qua	96	107	11		Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix, hard bands between 98m and 100m
D	FPR P11-1	Ter	107	120	13		Y	Sand			beige	F	Loosely consolidated, quartzose, well sorted, minor silty matrix, gravelly @ base
D	FPR P11-1	Ter	120	152	32		Y	Clay		red brown	grey yellow		Mottled
D	FPR P11-1	Ter	152	192	40		Y	Clay		beige brown	grey yellow		Mottled in part
D	FPR P11-1	Ter	192	204	12		Y	Clay		grey	brown		Poor sample return, pressure in hole, END OF HOLE 204m
D	FPR H2-2	Qua	0	8	8		Y	Soil		light	brown		Silty matrix, loosely consolidated
D	FPR H2-2	Qua	8	11	3		Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments
D	FPR H2-2	Qua	11	16	5		Y	Silty Clay		light	brown		Minor gravel throughout
D	FPR H2-2	Qua	16	18	2		Y	Gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments
D	FPR H2-2	Ter	18	26	8		Y	Silty Clay		light	brown		Minor gravel throughout
D	FPR H2-2	Ter	26	30	4		Y	Clay		red	brown		
D	FPR H2-2	Ter	30	36	6		Y	Sandy Clay		red	beige		
D	FPR H2-2	Ter	36	44	8		Y	Clay		red	brown		
D	FPR H2-2	Ter	44	48	4		Y	Clay			grey		mottled red @ base
D	FPR H2-2	Ter	48	130	82		Y	Clay		grey	brown red		Mottled, minor gravel bands
D	FPR H2-2	Ter	130	160	30		Y	Clay		red	brown		Mottled, silty in part
D	FPR H2-2	Ter	160	182	22		Y	Clay		grey	brown		Mottled, sandy @ base
D	FPR H2-2		182	245	63		Y	Clay		light	grey		Minor red mottling, minor silty bands, END OF HOLE 245m
D	FPR P7-1	Qua	0	13	13		Y	Soil		light	brown		Silty, minor gravel
D	FPR P7-1	Qua	13	22	9		Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
D	FPR P7-1	Qua	22	31	9		Y	Gravelly Clay		grey	brown		
D	FPR P7-1	Qua	31	32	1		Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
D	FPR P7-1	Qua	32	51	19		Y	Gravelly		grey	brown		Minor gravel throughout

								Clay					
D	FPR P7-1	Ter?	51	66	15		Y	Clay			brown		Gravel band @ 60m
D	FPR P7-1	Ter?	66	74	8		Y	Clay		red	brown white		mottled
D	FPR P7-1	Ter?	74	78	4		Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
D	FPR P7-1	Ter	78	92	14		Y	Clay		red	brown white		mottled in part, silty in part
D	FPR P7-1	Ter	92	95	3		Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
D	FPR P7-1	Ter	95	100	5		Y	Clay		red	brown white		mottled
D	FPR P7-1	Ter	100	110	10		Y	Sand		beige	brown	F-C	Loosely consolidated, quartz lithic, moderately sorted, minor silty matrix, gravel throughout
D	FPR P7-1	Ter	110	114	4		Y	Clay		red	brown white		mottled
D	FPR P7-1	Ter	114	116	2		Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
D	FPR P7-1	Ter	116	132	16		Y	Clay		red	brown white		mottled
D	FPR P7-1	Ter	132	186	54		Y	Clay		beige red	brown purple		mottled, silty in part
D	FPR P7-1	Ter	186	240	54		Y	Sand		white	grey	F-C	Moderately consolidated, quartzose, well sorted, white clay (calcareous?) matrix, coarser @ top
D	FPR P7-1	Ter	240	266	26		Y	Clay		beige grey	white yellow		mottled in part
D	FPR P7-1	Ter	266	275	9		Y	Sand		white	beige	F-M	Poor sample return, white clay (calcareous?) matrix, END OF HOLE 275m
D	FPR P7-2	Qua	0	78	78		Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, minor silty/clay matrix, mottled red/brown clay @ 70m to 72m
D	FPR P7-2	Ter	78	128	50		Y	Clay		light red	grey brown		mottled in part, sandy in part, minor gravel
D	FPR P7-2	Ter	128	140	12		Y	Clay		light red	grey beige		varicoloured, minor coal fragments @ 134m, minor carbonaceous

													bands between 134m and 140m
D	FPR P7-2	Ter	140	160	20		Y	Clay		light red	grey brown		mottled
D	FPR P7-2	Ter	160	189	29		Y	Clay		white red	purple brown		mottled
D	FPR P7-2	Ter	189	275	86		Y	Not logged					No carbonaceous material, END OF HOLE 275m
D	FPR LC4-1	Qua	0	2	2		Y	Soil		red	brown		Silty
D	FPR LC4-1	Qua	2	6	4		Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, subrounded to subangular rock fragments, silty matrix
D	FPR LC4-1	Prot?	6	18	12		Y	Clay		brown red	grey yellow		mottled, weathered basement
D	FPR LC4-1	Prot?	18	22	4		Y	Quartzite?/ Dolomite?		light	grey		
D	FPR LC4-1	Prot?	22	38	16		Y	Clay		yellow	beige		
D	FPR LC4-1	Prot?	38	58	20		Y	Clay		pink	grey		
D	FPR LC4-1	Prot?	58	69	11		Y	Clay		blue	grey		Hard @ base, rig refusal, END OF HOLE 69m
D	FPR LC3-1	Qua	0	1	1		Y	Soil			brown		Silty
D	FPR LC3-1	Qua	1	4	3		Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
D	FPR LC3-1	Prot?	4	10	6		Y	Siltstone		light	grey		
D	FPR LC3-1	Prot?	10	16	6		Y	Siltstone		brown grey	purple yellow		Limonitic @ top, Fe staining towards base, ironstone band @ base
D	FPR LC3-1	Prot?	16	81	65		Y	Siltstone		brown light	purple grey		Minor limonitic staining, hard @ base, rig refusal, END OF HOLE 81m
D	FPR LC3-2	Qua	0	2	2		Y	Silty soil		white	beige		gypsum throughout
D	FPR LC3-2	Prot?	2	4	2		Y	Siltstone		grey	brown		
D	FPR LC3-2	Prot?	4	9	5		Y	Siltstone		red	brown		Fe staining, pink mottling in part
D	FPR LC3-2	Prot?	9	26	17		Y	Siltstone		light	grey		

D	FPR LC3-2	Prot?	26	52	26		Y	Siltstone		mid	grey		
D	FPR LC3-2	Prot?	52	56	4		Y	Siltstone		mid	grey beige		clayey
D	FPR LC3-2	Prot?	56	70	14		Y	Siltstone		light	grey		pink mottling throughout
D	FPR LC3-2	Prot?	70	74	4		Y	Siltstone		light	grey pink		
D	FPR LC3-2	Prot?	74	88	14		Y	Siltstone		light	grey beige		limonitic staining increasing to base
D	FPR LC3-2	Prot?	88	93	5		Y	Siltstone		blue	grey		Hard @ base, rig refusal, END OF HOLE 93m
D	FPR LC3-3	Qua	0	1	1		Y	Soil			brown		Silty
D	FPR LC3-3	Qua	1	6	5		Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix, calcrete @ top
D	FPR LC3-3	Prot?	6	25	19		Y	Siltstone		light	grey beige		Minor gravel, mottled in part, Fe staining @ 20m, limonitic staining throughout
D	FPR LC3-3	Prot?	25	42	17		Y	Siltstone		red	grey brown		mottled in part
D	FPR LC3-3	Prot?	42	51	9		Y	Siltstone		beige	grey		
D	FPR LC3-3	Prot?	51	90	39		Y	Siltstone			grey		clayey @ 64m to 70m
D	FPR LC3-3	Prot?	90	95	5		Y	Siltstone		blue	grey		Hard @ base, rig refusal, END OF HOLE 95m
D	LC1-1	Qua	0	5	5		Y	Soil	0.5		brown		Silty, ferruginous
D	LC1-1							Gravel	0.5	grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
D	LC1-1	Prot?	5	36	31		Y	Siltstone		light	grey		
D	LC1-1	Prot?	36	159	123		Y	Siltstone/(metasediment ?)		light	blue grey		Uniform, sandy @ base, rig refusal, END OF HOLE 159m

EOF

FPR 2006 A 03 DrillCollars.txt

H0002 Version 3
 H0003 Date_generated 29-Jun-2007
 H0004 Reporting_period_end_date 1-Nov-2006
 H0005 State SA
 H0100 Tenement_no/Combined_rept_no. 3113
 H0101 Tenement_holder FLINDERS POWER PARTNERSHIP
 H0102 Project_name LEIGH CREEK CORRIDOR
 H0106 Tenement_operator FLINDERS POWER
 H0150 250K_map_sheet_number SH5413
 H0151 100K_map_sheet_number 6534 6535
 H0152 50K_map_sheet_number
 H0153 25K_map_sheet_number
 H0200 Start_date_of_data_acquisition 16-Nov-2006
 H0201 End_date_of_data_acquisition 25-Nov-2006
 H0202 Data_format SL1
 H0203 Number_of_data_records 4
 H0204 Date_of_metadata_update 29-Jun-2007
 H0303 lithology_data_file FPR 2006 A 02 Lithologs.txt
 H0306 location_data_file FPR 2006 A 03 DrillCollars.txt
 H0308 other_data_file_name? Report body file FPR 2006 A 01
 ReportBody.pdf
 H0400 Drill_code RTM
 H0401 Drill_contractor WATSON DRILLING
 H0402 Description Rotary - Mud
 H0500 Feature_located Drillhole collar
 H0501 Geodetic_datum GDA94
 H0502 Vertical_datum AHD
 H0503 Projection Universal Transverse Mercator (UTM)
 H0508 Local_grid_name
 H0530 Coordinate_system Projected
 H0531 Projection_zone 54
 H0532 Surveying_instrument GPS Standalone Navigational
 H0533 Surveying_company
 H0900 Remarks Not for release at this time
 H1000 Tenement Hole_id Drill_code Xcoordinate Ycoordinate
 Zcoordinate Maxdepth
 H1001 metres metres metres metres

 H1004 10 10 25 0.5
 D 3113 FPR H5-1 RTM 236380 6500934 85 276
 D 3113 FPR P11-1 RTM 251489 6533705 117 204
 D 3113 FPR P7-1 RTM 249425 6558980 120 275
 D 3113 FPR P7-2 RTM 246065 6567226 140 275
 EOF

FPR 2006 A 04 DrillCollars.txt

H0002 Version 3
 H0003 Date_generated 29-Jun-2007
 H0004 Reporting_period_end_date 1-Nov-06
 H0005 State SA
 H0100 Tenement_no/Combined_rept_no. 3114
 H0101 Tenement_holder FLINDERS POWER PARTNERSHIP
 H0102 Project_name LEIGH CREEK CORRIDOR
 H0106 Tenement_operator FLINDERS POWER
 H0150 250K_map_sheet_number SH5409
 H0151 100K_map_sheet_number 6537
 H0152 50K_map_sheet_number
 H0153 25K_map_sheet_number
 H0200 Start_date_of_data_acquisition 28-Nov-2006
 H0201 End_date_of_data_acquisition 28-Nov-2006
 H0202 Data_format SL1
 H0203 Number_of_data_records 1
 H0204 Date_of_metadata_update 29-Jun-2007
 H0303 lithology_data_file FPR 2006 A 02 Lithologs.txt
 H0306 location_data_file FPR 2006 A 03 DrillCollars.txt
 H0308 other_data_file_name? Report body file FPR 2006 A 01
 ReportBody.pdf
 H0400 Drill_code RTM
 H0401 Drill_contractor WATSON DRILLING
 H0402 Description Rotary - Mud
 H0500 Feature_located Drillhole collar
 H0501 Geodetic_datum GDA94
 H0502 Vertical_datum AHD
 H0503 Projection Universal Transverse Mercator (UTM)
 H0508 Local_grid_name
 H0530 Coordinate_system Projected
 H0531 Projection_zone 54
 H0532 Surveying_instrument GPS Standalone Navigational
 H0533 Surveying_company
 H0900 Remarks Can be released on expiry of EL on 3 August 2007
 H1000 Tenement Hole_id Drill_code Xcoordinate Ycoordinate
 Zcoordinate Maxdepth
 H1001 metres metres metres metres

 H1004 10 10 25 0.5
 D 3114 FPR LC3-2 RTM 227781 6661050 100 93
 EOF

FPR 2006 A 05 DrillCollars.txt

H0002 Version 3
 H0003 Date_generated 29-Jun-2007
 H0004 Reporting_period_end_date 1-Nov-2006
 H0005 State SA
 H0100 Tenement_no. 3124
 H0101 Tenement_holder FLINDERS POWER PARTNERSHIP
 H0102 Project_name LEIGH CREEK CORRIDOR
 H0106 Tenement_operator FLINDERS POWER
 H0150 250K_map_sheet_number SH5405
 H0151 100K_map_sheet_number 6538
 H0152 50K_map_sheet_number
 H0153 25K_map_sheet_number
 H0200 Start_date_of_data_acquisition 29-Nov-2006
 H0201 End_date_of_data_acquisition 30-Nov-2006
 H0202 Data_format SL1
 H0203 Number_of_data_records 1
 H0204 Date_of_metadata_update 29-Jun-2007
 H0303 lithology_data_file FPR 2006 A 02 Lithologs.txt
 H0306 location_data_file FPR 2006 A 03 DrillCollars.txt
 H0308 other_data_file_name? Report body file FPR 2006 A 01
 ReportBody.pdf
 H0400 Drill_code RTM
 H0401 Drill_contractor WATSON DRILLING
 H0402 Description Rotary - Mud
 H0500 Feature_located Drillhole collar
 H0501 Geodetic_datum GDA94
 H0502 Vertical_datum AHD
 H0503 Projection Universal Transverse Mercator (UTM)
 H0508 Local_grid_name
 H0530 Coordinate_system Projected
 H0531 Projection_zone 54
 H0532 Surveying_instrument GPS Standalone Navigational
 H0533 Surveying_company
 H0900 Remarks Data can be released on expiry of EL on 15
 September 2007
 H1000 Tenement Hole_id Drill_code Xcoordinate Ycoordinate
 Zcoordinate Maxdepth
 H1001 metres metres metres metres

 H1004 10 10 25 0.5
 D 3124 FPR LC1-1 RTM 228039 6680788 70 159
 EOF

FPR 2006 A 06 DrillCollars.txt

H0002 Version 3
 H0003 Date_generated 29-Jun-2007
 H0004 Reporting_period_end_date 1-Nov-2006
 H0005 State SA
 H0100 Tenement_no/Combined_rept_no. 3212
 H0101 Tenement_holder FLINDERS POWER PARTNERSHIP
 H0102 Project_name LEIGH CREEK CORRIDOR
 H0106 Tenement_operator FLINDERS POWER
 H0150 250K_map_sheet_number SH5312
 H0151 100K_map_sheet_number 6437
 H0152 50K_map_sheet_number
 H0153 25K_map_sheet_number
 H0200 Start_date_of_data_acquisition 26-Nov-2006
 H0201 End_date_of_data_acquisition 26-Nov-2006
 H0202 Data_format SL1
 H0203 Number_of_data_records 1
 H0204 Date_of_metadata_update 29-Jun-2007
 H0303 lithology_data_file FPR 2006 A 02 Lithologs.txt
 H0306 location_data_file FPR 2006 A 03 DrillCollars.txt
 H0308 other_data_file_name? Report body file FPR 2006 A 01
 ReportBody.pdf
 H0400 Drill_code RTM
 H0401 Drill_contractor WATSON DRILLING
 H0402 Description Rotary - Mud
 H0500 Feature_located Drillhole collar
 H0501 Geodetic_datum GDA94
 H0502 Vertical_datum AHD
 H0503 Projection Universal Transverse Mercator (UTM)
 H0508 Local_grid_name
 H0530 Coordinate_system Projected
 H0531 Projection_zone 53
 H0532 Surveying_instrument GPS Standalone Navigational
 H0533 Surveying_company
 H0900 Remarks Can be released on expiry of EL from 23 June 2007
 H1000 Tenement Hole_id Drill_code Xcoordinate Ycoordinate
 Zcoordinate Maxdepth
 H1001 metres metres metres metres

 H1004 10 10 25 0.5
 D 3212 FPR LC4-1 RTM 780616 6661830 130 69
 EOF

FPR 2006 A 07 DrillCollars.txt

H0002 Version 3
 H0003 Date_generated 29-Jun-2007
 H0004 Reporting_period_end_date 1-Nov-2006
 H0005 State SA
 H0100 Tenement_no/Combined_rept_no. 3213
 H0101 Tenement_holder FLINDERS POWER PARTNERSHIP
 H0102 Project_name LEIGH CREEK CORRIDOR
 H0106 Tenement_operator FLINDERS POWER
 H0150 250K_map_sheet_number SH5413
 H0151 100K_map_sheet_number 6534
 H0152 50K_map_sheet_number
 H0153 25K_map_sheet_number
 H0200 Start_date_of_data_acquisition 21-Oct-2006
 H0201 End_date_of_data_acquisition 25-Oct-2006
 H0202 Data_format SL1
 H0203 Number_of_data_records 5
 H0204 Date_of_metadata_update 29-Jun-2007
 H0303 lithology_data_file FPR 2006 A 02 Lithologs.txt
 H0306 location_data_file FPR 2006 A 03 DrillCollars.txt
 H0308 other_data_file_name? Report body file FPR 2006 A 01
 ReportBody.pdf
 H0400 Drill_code RTM
 H0401 Drill_contractor WATSON DRILLING
 H0402 Description Rotary - Mud
 H0500 Feature_located Drillhole collar
 H0501 Geodetic_datum GDA94
 H0502 Vertical_datum AHD
 H0503 Projection Universal Transverse Mercator (UTM)
 H0508 Local_grid_name
 H0530 Coordinate_system Projected
 H0531 Projection_zone 54
 H0532 Surveying_instrument GPS Standalone Navigational
 H0533 Surveying_company
 H0900 Remarks Not for release at this time
 H1000 Tenement Hole_id Drill_code Xcoordinate Ycoordinate
 Zcoordinate Maxdepth
 H1001 metres metres metres metres

 H1004 10 10 25 0.5
 D 3213 FPR H8-1 RTM 246132 6479879 179 210
 D 3213 FPR H8-2 RTM 245253 6478080 176 182.5
 D 3213 FPR H8-3 RTM 244362 6476070 184 186
 D 3213 FPR H9-1 RTM 235000 6467000 159 42
 D 3213 FPR H9-2 RTM 236297 6469853 160 96
 EOF

FPR 2006 A 08 DrillCollars.txt

H0002 Version 3
 H0003 Date_generated 29-Jun-2007
 H0004 Reporting_period_end_date 1-Nov-2006
 H0005 State SA
 H0100 Tenement_no/Combined_rept_no. 3223
 H0101 Tenement_holder FLINDERS POWER PARTNERSHIP
 H0102 Project_name LEIGH CREEK CORRIDOR
 H0106 Tenement_operator FLINDERS POWER
 H0150 250K_map_sheet_number SI5401
 H0151 100K_map_sheet_number 6633
 H0152 50K_map_sheet_number
 H0153 25K_map_sheet_number
 H0200 Start_date_of_data_acquisition 20-Oct-2006
 H0201 End_date_of_data_acquisition 21-Oct-2006
 H0202 Data_format SL1
 H0203 Number_of_data_records 1
 H0204 Date_of_metadata_update 29-Jun-2007
 H0303 lithology_data_file FPR 2006 A 02 Lithologs.txt
 H0306 location_data_file FPR 2006 A 03 DrillCollars.txt
 H0308 other_data_file_name? Report body file FPR 2006 A 01
 ReportBody.pdf
 H0400 Drill_code RTM
 H0401 Drill_contractor WATSON DRILLING
 H0402 Description Rotary - Mud
 H0500 Feature_located Drillhole collar
 H0501 Geodetic_datum GDA94
 H0502 Vertical_datum AHD
 H0503 Projection Universal Transverse Mercator (UTM)
 H0508 Local_grid_name
 H0530 Coordinate_system Projected
 H0531 Projection_zone 54
 H0532 Surveying_instrument GPS Standalone Navigational
 H0533 Surveying_company
 H0900 Remarks Not for current release
 H1000 Tenement Hole_id Drill_code Xcoordinate Ycoordinate
 Zcoordinate Maxdepth
 H1001 metres metres metres metres
 H1004 10 10 25 0.5
 D 3223 FPR 04-1 RTM 281801 6402976 410 251
 EOF

FPR 2006 A 09 DrillCollars.txt

H0002 Version 3
 H0003 Date_generated 29-Jun-2007
 H0004 Reporting_period_end_date 1-Nov-2006
 H0005 State SA
 H0100 Tenement_no/Combined_rept_no. 3230
 H0101 Tenement_holder FLINDERS POWER PARTNERSHIP
 H0102 Project_name LEIGH CREEK CORRIDOR
 H0106 Tenement_operator FLINDERS POWER
 H0150 250K_map_sheet_number SH5316
 H0151 100K_map_sheet_number 6434
 H0152 50K_map_sheet_number
 H0153 25K_map_sheet_number
 H0200 Start_date_of_data_acquisition 25-Oct-2006
 H0201 End_date_of_data_acquisition 28-Oct-2006
 H0202 Data_format SL1
 H0203 Number_of_data_records 3
 H0204 Date_of_metadata_update 29-Jun-2007
 H0303 lithology_data_file FPR 2006 A 02 Lithologs.txt
 H0306 location_data_file FPR 2006 A 03 DrillCollars.txt
 H0308 other_data_file_name? Report body file FPR 2006 A 01
 ReportBody.pdf
 H0400 Drill_code RTM
 H0401 Drill_contractor WATSON DRILLING
 H0402 Description Rotary - Mud
 H0500 Feature_located Drillhole collar
 H0501 Geodetic_datum GDA94
 H0502 Vertical_datum AHD
 H0503 Projection Universal Transverse Mercator (UTM)
 H0508 Local_grid_name
 H0530 Coordinate_system Projected
 H0531 Projection_zone 53
 H0532 Surveying_instrument GPS Standalone Navigational
 H0533 Surveying_company
 H0900 Remarks Not for release at this time
 H1000 Tenement Hole_id Drill_code Xcoordinate Ycoordinate
 Zcoordinate Maxdepth
 H1001 metres metres metres metres
 H1004 10 10 25 0.5
 D 3230 FPR H10-1 RTM 778292 6464643 60 224
 D 3230 FPR H10-2 RTM 777240 6467106 60 195
 D 3230 FPR H11-1 RTM 782045 6456548 80 183
 EOF

FPR 2006 A 10 DrillCollars.txt

H0002 Version 3
 H0003 Date_generated 29-Jun-2007
 H0004 Reporting_period_end_date 1-Nov-2006
 H0005 State SA
 H0100 Tenement_no/Combined_rept_no. 3230
 H0101 Tenement_holder FLINDERS POWER PARTNERSHIP
 H0102 Project_name LEIGH CREEK CORRIDOR
 H0106 Tenement_operator FLINDERS POWER
 H0150 250K_map_sheet_number SH5413
 H0151 100K_map_sheet_number 6535
 H0152 50K_map_sheet_number
 H0153 25K_map_sheet_number
 H0200 Start_date_of_data_acquisition 28-Oct-2006
 H0201 End_date_of_data_acquisition 20-Nov-2006
 H0202 Data_format SL1
 H0203 Number_of_data_records 2
 H0204 Date_of_metadata_update 29-Jun-2007
 H0303 lithology_data_file FPR 2006 A 02 Lithologs.txt
 H0306 location_data_file FPR 2006 A 03 DrillCollars.txt
 H0308 other_data_file_name? Report body file FPR 2006 A 01
 ReportBody.pdf
 H0400 Drill_code RTM
 H0401 Drill_contractor WATSON DRILLING
 H0402 Description Rotary - Mud
 H0500 Feature_located Drillhole collar
 H0501 Geodetic_datum GDA94
 H0502 Vertical_datum AHD
 H0503 Projection Universal Transverse Mercator (UTM)
 H0508 Local_grid_name
 H0530 Coordinate_system Projected
 H0531 Projection_zone 54
 H0532 Surveying_instrument GPS Standalone Navigational
 H0533 Surveying_company
 H0900 Remarks Not for release at this time
 H1000 Tenement Hole_id Drill_code Xcoordinate Ycoordinate
 Zcoordinate Maxdepth
 H1001 metres metres metres metres
 H1004 10 10 25 0.5
 D 3230 FPR H2-1 RTM 248561 6521246 108 251
 D 3230 FPR H2-2 RTM 247004 6518103 101 245
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FPR 2006 A 11 DrillCollars.txt

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H0002 Version      3
H0003 Date_generated      29-Jun-2007
H0004 Reporting_period_end_date      1-Nov-2006
H0005 State SA
H0100 Tenement_no.      3231
H0101 Tenement_holder      FLINDERS POWER PARTNERSHIP
H0102 Project_name      LEIGH CREEK CORRIDOR
H0106 Tenement_operator FLINDERS POWER
H0150 250K_map_sheet_number      SH5409
H0151 100K_map_sheet_number      6537
H0152 50K_map_sheet_number
H0153 25K_map_sheet_number
H0200 Start_date_of_data_acquisition      27-Nov-2006
H0201 End_date_of_data_acquisition      29-Nov-2006
H0202 Data_format SL1
H0203 Number_of_data_records      2
H0204 Date_of_metadata_update      29-Jun-2007
H0303 lithology_data_file      FPR 2006 A 02 Lithologs.txt
H0306 location_data_file      FPR 2006 A 03 DrillCollars.txt
H0308 other_data_file_name? Report body file      FPR 2006 A 01
ReportBody.pdf
H0400 Drill_code      RTM
H0401 Drill_contractor      WATSON DRILLING
H0402 Description Rotary - Mud
H0500 Feature_located      Drillhole collar
H0501 Geodetic_datum      GDA94
H0502 Vertical_datum      AHD
H0503 Projection      Universal Transverse Mercator (UTM)
H0508 Local_grid_name
H0530 Coordinate_system      Projected
H0531 Projection_zone      54
H0532 Surveying_instrument      GPS Standalone Navigational
H0533 Surveying_company
H0900 Remarks      Can be released on expiry of EL on 25 August 2007
H1000 Tenement      Hole_id      Drill_code      Xcoordinate Ycoordinate
      Zcoordinate Maxdepth
H1001      metres      metres      metres      metres

H1004      10      10      25      0.5
D      3231      FPR LC3-1      RTM      226720      6664158      109      81
D      3231      FPR LC3-3      RTM      226259      6668337      111      95
EOF

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FPR 2006 A 12 DrillingSummary.txt

H0002 Version 3
 H0003 Date_generated 29-Jun-2007
 H0004 Reporting_period_end_date 1-Nov-2006
 H0005 State SA
 H0100 Tenement_no/Combined_rept_no. 3113 3114 3124 3212 3213 3223
 3230 3231 3514 3588
 H0101 Tenement_holder FLINDERS POWER PARTNERSHIP
 H0102 Project_name LEIGH CREEK CORRIDOR
 H0106 Tenement_operator FLINDERS POWER
 H0150 250K_map_sheet_number SH5312 SH5316 SH5405
 SH5409 SH5413 SI5401
 H0151 100K_map_sheet_number 6434 6437 6534 6535 6537 6538
 6633
 H0152 50K_map_sheet_number
 H0153 25K_map_sheet_number
 H0200 Start_date_of_data_acquisition 01-Jan-2005
 H0201 End_date_of_data_acquisition 01-Dec-2006
 H0202 Data_format DU1
 H0203 Number_of_data_records 1
 H0204 Date_of_metadata_update 29-Jun-2007
 H0303 lithology_data_file FPR 2006 A 02 Lithologs.txt
 H0306 location_data_file FPR 2006 A 03 DrillCollars.txt
 H0308 other_data_file_name? Report body file FPR 2006 A 01
 ReportBody.pdf
 H0400 Drill_code RTM
 H0401 Drill_contractor WATSON DRILLING
 H0402 Description Rotary - Mud
 H0500 Feature_located Drillhole collar
 H0501 Geodetic_datum GDA94
 H0502 Vertical_datum AHD
 H0503 Projection Universal Transverse Mercator (UTM)
 H0508 Local_grid_name
 H0530 Coordinate_system Projected
 H0531 Projection_zone 53 and 54
 H0532 Surveying_instrument GPS Standalone Navigational
 H0533 Surveying_company
 H0900 Remarks
 H1000 Drill_code DrilledLength Expenditure FinancialYear
 H1001 metres AU\$
 H1004
 D RTM 3940 185,000 2006-2007
 EOF

FPR 2006 A 13 BoreHoleCompletionDates.xls

Drill Site	Designation	Date Completed
FPR 04-1	21/10/2006	
FPR H8-1	22/10/2006	
FPR H8-2	23/10/2006	
FPR H8-3	24/10/2006	
FPR H9-1	24/10/2006	
FPR H9-2	25/10/2006	
FPR H10-1	26/10/2006	
FPR H10-2	27/10/2006	
FPR H11-1	28/10/2006	
FPR H2-1	29/10/2006	
FPR H5-1	17/11/2006	
FPR P11-1	18/11/2006	
FPR H2-2	20/11/2006	
FPR P7-1	22/11/2006	
FPR P7-2	25/11/2006	
FPR LC4-1	26/11/2006	
FPR LC3-1	27/11/2006	
FPR LC3-2	28/11/2006	
FPR LC3-3	29/11/2006	
FPR LC1-1	30/11/2006	

FPR 2006 A 14 FileListing.txt

DIGITAL File Verification listing: FPR 2006 A 13 Filelisting.txt

Exploration Work Type	File Name	Format
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AIRBORNE EXPLORATION SURVEYS

Aeromagnetism
Radiometry
Electromagnetics
Gravity
Digital terrain modelling
Other (specify)

GROUND EXPLORATION SURVEYS

GEOLOGICAL MAPPING

Regional
Reconnaissance
Prospect
Underground
Costean

GROUND GEOPHYSICS

- Radiometrics
- Magnetics
- Gravity
- Digital terrain modelling
- Electromagnetics
- SP/AP/EP
- IP
- AMT
- Resistivity
- Complex resistivity
- Seismic reflection
- Seismic refraction
- Well logging
- Geophysical interpretation
- Other (specify)

GEOCHEMICAL SURVEYING

Drill sample
Stream sediment
Soil
Rock chip
Laterite
Water
Biogeochemistry
Isotope
Whole Rock
Mineral analysis
Other (specify)

DRILLING

Diamond
Reverse Circulation
Rotary air blast
Air-core
Auger
Groundwater Drilling

```

All Drilling          FPPR 2006 A 02 Lithologs.txt  txt
      FPR 2006 A 03 DrillCollars.txt      txt

```

FPR 2006 A 04 DrillCollars.txt txt
 FPR 2006 A 05 DrillCollars.txt txt
 FPR 2006 A 06 DrillCollars.txt txt
 FPR 2006 A 07 DrillCollars.txt txt
 FPR 2006 A 08 DrillCollars.txt txt
 FPR 2006 A 08 DrillCollars.txt txt
 FPR 2006 A 10 DrillCollars.txt txt
 FPR 2006 A 11 DrillCollars.txt txt
 FPR 2006 A 12 Drilling Summary.txt txt
 FPR 2006 A 13 BoreholeCompletionDates.xls xls

OFFICE STUDIES

Literature search

Database compilation

Computer modelling

Reprocessing of data

General Research

Report Preparation FPR 2006 A 01 ReportBody.pdf pdf

Other (specify) FPR 2006 A 14 Filelisting.txt txt

REMOTE SENSING

Aerial photography

LANDSAT

SPOT

MSS

Radar

Other (specify)

LEIGH CREEK CORRIDOR PROJECT

APPENDIX 5 DRILLING PROGRESS REPORTS

**Rank Geological Services Pty Ltd
Norman Kennedy**

**Progress Report 1/2006
Progress Report 2/2006**

Progress Report 1/2006

Project: **Regional Coal Drilling Program – Leigh Creek to Port Augusta Corridor**

Client: **Flinders Power**

Date: **7 November, 2006**



Drilling Program

The drilling program commenced on Tuesday 20th October with the drilling of borehole FPR O4-1 within Exploration Licence EL 3223 in the vicinity of Orroroo. The program went on break on 30th October for approximately 2 weeks. Summary daily activity sheets are attached as Appendix 1.

Ten holes have been completed the details of which are summarised in the following table.

Borehole	Date Commenced	Date Completed	Easting mE	Northing mN	EL	Total Depth (m)
FPR O4-1	20-10-06	21-10-06	281801	6402976	3223	251
FPR H8-1	21-10-06	22-10-06	246132	6479879	3213	210
FPR H8-2	23-10-06	23-10-06	245253	6478080	3213	182.5
FPR H8-3	24-10-06	24-10-06	244362	6476070	3213	186
FPR H9-1	24-10-06	24-10-06	235000	6467000	3213	42
FPR H9-2	25-10-06	25-10-06	236297	6469853	3213	96
FPR H10-1	25-10-06	26-10-06	778292	6464643	3230	224
FPR H10-2	26-10-06	27-10-06	777240	6467106	3230	195
FPR H11-1	27-03-00	28-03-00	782045	6456548	3230	183
FPR H2-1	28-03-00	29-03-00	248561	6521246	3230	251
					TOTAL	1820.5

Drilling was undertaken by Watson Drilling Contractors of Deniliquin using a Schramm T3 mud rotary rig as depicted in figure 1. Chip samples have been collected at 2 metre intervals (Figure 2) and a representative sample preserved in a 250ml clear plastic container (Figure 3).

Lithological logs of all boreholes completed to date are contained within Appendix 2.





Figure 1



Figure 2



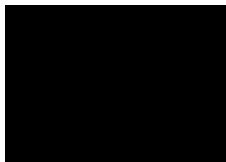


Figure 3



Appendix 1





PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:20/10/2006

Prepared by: N. Kennedy .

Personnel Onsite: Geological: N. Kennedy, R. Williams (Flinders Power) .

Other Consultants:.

Drilling: Dave Watson (driller), Shawn Nichols, Laurie Smith

Geophysical:

Visitors:

Drilling:

Borehole:. FPR O4-1

OH 130mm:

Cored 100mm:

Start:0m

Finish 222m Pull Rods

Move off site:

Total Metres: 222m

Number of runs:

Rate:

metres/hour

Borehole:.

OH 130mm:

Cored 100mm:

Start:

Finish

Pull Rod

Move off site:

Total Metres:

Number of runs:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, 6 loads water (approx 8,000ltrs/load)

Site move time:

Geophysical Logging:

Logger onsite:

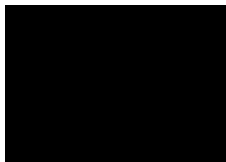
Probes Run: . . .

COMMENTS: . . .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Met at Commercial Hotel Ororoo @ 6.30am, on site 7.30am, started drilling 9.00am, 75m @ 12noon, 222m@ 6pm (breakdown).

OTHER FIELD ACTIVITIES:.



PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:21/10/2006

Prepared by: N. Kennedy .

Personnel Onsite: Geological: N. Kennedy, R. Williams (Flinders Power) .

Other Consultants:.

Drilling: Dave Watson (driller), Shawn Nichols, Laurie Smith

Geophysical:

Visitors:

Drilling:

Borehole:. FPR O4-1

OH 130mm:

Cored 100mm:

Start:222m

Finish 251m

Pull Rods 9.15am

Move off site: 11.15am

Total Metres: 222m

Number of runs:

Rate:

metres/hour

Borehole:. FPR H8-1

OH 130mm:

Cored 100mm:

Start: 0m

Finish 89m

Pull Rod

Move off site:

Total Metres:

Number of runs:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, x loads water (approx 8,000ltrs/load)

Site move time: 3.5 hours

Geophysical Logging:

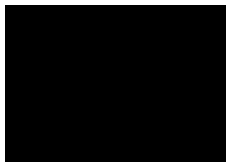
Logger onsite: Probes Run: . . .

COMMENTS: . . .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Maintenance to 8am, completed drilling to 251m (maximum rods available) @ 9.30am, pulled out till 11.15am and left site, sump holes fenced off. Refuelled and organized accommodation in Hawker and arrived on site at FPR H8-1 @ 2.45pm, setup to 3.30pm, Drilling FPR H8-1 3.30pm to 6.30pm to 89m depth.

OTHER FIELD ACTIVITIES:.



PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:22/10/2006

Prepared by: N. Kennedy .

Personnel Onsite: Geological: N. Kennedy, R. Williams (Flinders Power) .

Other Consultants:.

Drilling: Dave Watson (driller), Shawn Nichols, Laurie Smith

Geophysical:

Visitors: Rex (Station Owner)

Drilling:

Borehole:. FPR H8-1

OH 130mm:

Start:89m Finish 210m

Total Metres: 121m Number of runs:

Cored 100mm:

Pull Rods 1.15pm Move off site: 3.15pm

Rate: metres/hour

Borehole:. FPR H8-2

OH 130mm:

Start: 0m Finish m

Total Metres: Number of runs:

Cored 100mm:

Pull Rod Move off site:

Rate: metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 8,000ltrs/load)

Site move time: hours

Geophysical Logging:

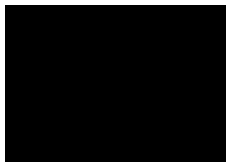
Logger onsite: Probes Run: . . .

COMMENTS: . . .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Borehole FPR H8-1 9.15am to 186m depth, hard rock no penetration @ 208m 10am, pulled rods to 11.15am and ran rock roller to 12.30pm, drilled 2m to 1.15pm, burst water line. Abandoned hole 1.15pm and pulled rods to 3.15pm. Onsite FPR H8-2 @ 3.30pm. Setup. Wait for burst pipe replacement from Beverley

OTHER FIELD ACTIVITIES:.



PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:23/10/2006

Prepared by: N. Kennedy .

Personnel Onsite: Geological: N. Kennedy, R. Williams (Flinders Power) .

Other Consultants:.

Drilling: Dave Watson (driller), Shawn Nichols, Laurie Smith

Geophysical:

Visitors:

Drilling:

Borehole:. FPR H8-2

OH 130mm:

Cored 100mm:

Start:0m

Finish: 182.5 m

Pull Rods 4pm

Move off site: 5pm

Total Metres: 182.5

Number of runs:

Rate:

metres/hour

Borehole:.

OH 130mm:

Cored 100mm:

Start: 0m

Finish m

Pull Rod

Move off site:

Total Metres:

Number of runs:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 8,000ltrs/load)

Site move time: hours

Geophysical Logging:

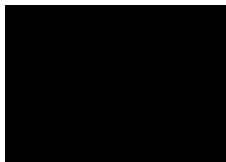
Logger onsite: Probes Run: . . .

COMMENTS: . . .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Picked up water line from Leigh Creek and fitted to 9.30am, 18m @ 10am, 54m @ 11.30am, lost circulation at 54m, waiting for water 11.45am to 12.20pm, hard bands @ 178m, 182.5m no penetration, EOH 4pm, pulled rods to 5pm and moved rig to site FPR H8-3.

OTHER FIELD ACTIVITIES:.



PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:24/10/2006 Prepared by: R. Williams.

Personnel Onsite: Geological:R. Williams (Flinders Power) .
Other Consultants:.
Drilling: Dave Watson (driller), Shawn Nichols, Laurie Smith
Geophysical:
Visitors:

Drilling:

Borehole:. FPR H8-3

OH 130mm:		Cored 100mm:	
Start:0m	Finish: 186 m	Pull Rods 1.05pm	Move off site: 2.10pm
Total Metres: 186	Number of runs:	Rate:	metres/hour

Borehole:. FPR H9-1

OH 130mm:		Cored 100mm:	
Start: 0m	Finish 42 m	Pull Rod 5.20pm	Move off site: 6pm
Total Metres: 42	Number of runs:	Rate:	metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 8,000ltrs/load)

Site move time: hours

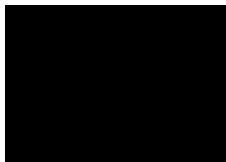
Geophysical Logging:

Logger onsite: Probes Run: . . .
COMMENTS: . . .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

64m @ 9.30am, 150m @ 11.55am, hard band @ 168m, 186m no penetration/refusal, EOH , moved rig to site FPR H9-1, drilled to 42m, refusal, very hard, EOH.

OTHER FIELD ACTIVITIES:.



PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:25/10/2006

Prepared by: R. Williams.

Personnel Onsite: Geological:R. Williams (Flinders Power) .

Other Consultants:.

Drilling: Dave Watson (driller), Shawn Nichols, Laurie Smith

Geophysical:

Visitors:

Drilling:

Borehole:. FPR H9-2

OH 130mm:

Cored 100mm:

Start:0m

Finish: 96 m

Pull Rods 10.15am

Move off site: 11.00am

Total Metres: 96

Number of runs:

Rate:

metres/hour

Borehole:. FPR H10-1

OH 130mm:

Cored 100mm:

Start: 0m

Finish 138 m

Pull Rod

Move off site:

Total Metres: 138

Number of runs:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 8,000ltrs/load)

Site move time: hours

Geophysical Logging:

Logger onsite: Probes Run: . . .

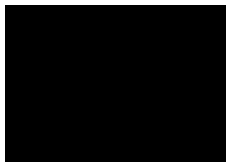
COMMENTS: . . .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Drilled H9-2 to refusal @ 96m, EOH, moved rig to site FPR H10-1, arrived 1.30pm, 138m @ 5.45pm, pulled rods overnight.

OTHER FIELD ACTIVITIES:.

.....



PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:26/10/2006

Prepared by: R. Williams.

Personnel Onsite: Geological:R. Williams (Flinders Power) .

Other Consultants:.

Drilling: Dave Watson (driller), Shawn Nichols, Laurie Smith

Geophysical:

Visitors:

Drilling:

Borehole:. FPR H10-1

OH 130mm:

Start:138m

Finish: 224 m

Total Metres: 86

Number of runs:

Cored 100mm:

Pull Rods 10.am

Move off site: 11.35am

Rate:

metres/hour

Borehole:. FPR H10-2

OH 130mm:

Start: 0m

Finish 120 m

Total Metres: 120

Number of runs:

Cored 100mm:

Pull Rod

Move off site:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 8,000ltrs/load)

Site move time: hours

Geophysical Logging:

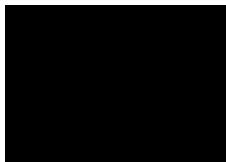
Logger onsite: Probes Run: . . .

COMMENTS: . . .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

192m @ 9.00am, hard band @ 203m, hard again @ 216m, refusal @ 224m, EOH, Lawrie Smith left site for town @9.00am, moved rig to site FPR H10-2, arrived 12.05pm, drilled 12.40pm to 2.30pm and wait for water until 4pm, drilled to 5.45pm (120m), pulled rods overnight.

OTHER FIELD ACTIVITIES:.



PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:27/10/2006

Prepared by: R. Williams.

Personnel Onsite: Geological:R. Williams (Flinders Power) .

Other Consultants:.

Drilling: Dave Watson (driller), Shawn Nichols, Laurie Smith

Geophysical:

Visitors:

Drilling:

Borehole:. FPR H10-2

OH 130mm:

Start:120m

Finish: 195 m

Total Metres: 75

Number of runs:

Cored 100mm:

Pull Rods 9.15.am

Move off site: 10.20am

Rate:

metres/hour

Borehole:. FPR H11-1

OH 130mm:

Start: 0m

Finish 168 m

Total Metres: 168

Number of runs:

Cored 100mm:

Pull Rod

Move off site:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 8,000ltrs/load)

Site move time: hours

Geophysical Logging:

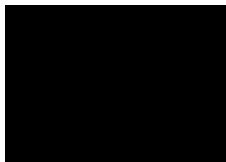
Logger onsite: Probes Run: . . .

COMMENTS: . . .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

180m @ 8.35am, refusal @ 195m, EOH, moved rig to site FPR H11-1, arrived 11.30am, drilled 12.10pm to 12.30pm and wait for water until 12.50pm, hard band @ 16m, rock rolled 1.10pm to 1.45pm, restart with balde bit @ 2.05pm, drilled to 6.00pm (168m), pulled rods overnight.

OTHER FIELD ACTIVITIES:.



PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:28/10/2006

Prepared by: R. Williams.

Personnel Onsite: Geological:R. Williams (Flinders Power) .

Other Consultants:.

Drilling: Dave Watson (driller), Shawn Nichols, Laurie Smith

Geophysical:

Visitors: Trevor James

Drilling:

Borehole:. FPR H11-1

OH 130mm:

Start:168m

Total Metres: 15

Finish: 183 m

Number of runs:

Cored 100mm:

Pull Rods 10.35.am Move off site: 11.45am

Rate: metres/hour

Borehole:. FPR H2-1

OH 130mm:

Start: 0m

Total Metres: 60

Finish 60

Number of runs:

Cored 100mm:

Pull Rod

Move off site:

Rate: metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 8,000ltrs/load)

Site move time: hours

Geophysical Logging:

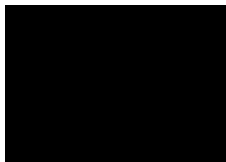
Logger onsite: Probes Run: . . .

COMMENTS: . . .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Recover hole to 9.45m, drilled to refusal @ 10.30am (183m), EOH, moved to site H2-1, arrived 2.15pm, rig maintenance to 4pm, drilled to 5.20pm (60m), bogged water truck, pulled rods overnight.

OTHER FIELD ACTIVITIES:.



PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:29/10/2006

Prepared by: R. Williams.

Personnel Onsite: Geological:N. Kennedy, R. Williams (Flinders Power) .

Other Consultants:.

Drilling: Dave Watson (driller), Shawn Nichols, Laurie Smith

Geophysical:

Visitors: Mark Deer

Drilling:

Borehole:. FPR H2-1

OH 130mm:

Cored 100mm:

Start:60m

Finish: 251 m

Pull Rods 3.15pm

Move off site: 4.30pm

Total Metres: 191

Number of runs:

Rate:

metres/hour

Borehole:.

OH 130mm:

Cored 100mm:

Start: 0m

Finish

Pull Rod

Move off site:

Total Metres:

Number of runs:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 8,000ltrs/load)

Site move time: hours

Geophysical Logging:

Logger onsite:

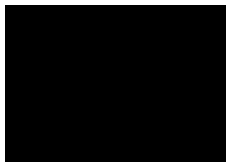
Probes Run: . .

COMMENTS: .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Unbogged water truck, drilling @ 8.05am, 180m @ 12.30pm, 210 @ 1.20pm, Rod capacity 251m @ 3.15pm. EOH.

OTHER FIELD ACTIVITIES:.



PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date: 30/10/2006

Prepared by: N. Kennedy.

Personnel Onsite: Geological: N. Kennedy, R. Williams (Flinders Power) .

Other Consultants: .

Drilling: Dave Watson (driller), Shawn Nichols, Laurie Smith

Geophysical:

Visitors:

Drilling:

Borehole: .

OH 130mm:

Cored 100mm:

Start: m

Finish: m

Pull Rods pm Move off site: pm

Total Metres:

Number of runs:

Rate:

metres/hour

Borehole: .

OH 130mm:

Cored 100mm:

Start: 0m

Finish

Pull Rod

Move off site:

Total Metres:

Number of runs:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used:

Site move time: hours

Geophysical Logging:

Logger onsite: Probes Run: . . .

COMMENTS: . . .

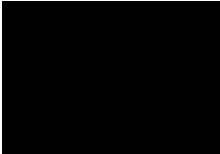
COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations).

OTHER FIELD ACTIVITIES: .

Logged and cleaned up sites H10-1 and H10-2. Drillers rig maintenance and left for break @ midday.

Appendix 2





Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

Exploration Licence EL 3223

Page 1 of 2

BOREHOLE FPR O4-1

Commenced:20/10/06

Completed: 21/10/06

Drilled by: Watson Drilling

Geologist: N. Kennedy Sampled by: N. Kennedy Driller:D. Watson Rig Type:Rotary mud

Easting:281801

Northing: 6402976 (AGD 94)

Cored from:

Diameter:.mm

Elevation: 385m Total Depth: 251 metres Open Hole from 0 to 251m Diameter: 130mm

Logged: 20-21/10/06 Sampled: 20-21/10/06

Borehole Medium: Water, bentonite

Geophysical

Date logged:

Company:

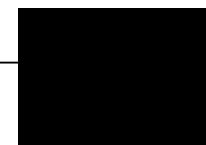
Logger:

Depth logged:

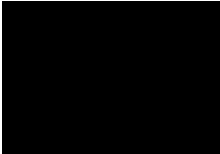
Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

Maximum rod stem available 251 metres.



Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	2.00	2.00				Y	Soil & Gravel		mid	brown, red	F to B	Loosely consolidated soil and gravel, fine silt to boulder size rock fragments in silty clay matrix, very poorly sorted, rounded to angular, slight FeOx staining
R2		Qua		2.00	28.00	26.00				Y	Gravel		grey	brown	F to B	Loosely consolidated gravel, Basement rock fragments in a silty clay matrix, predominantly metasediments, quartz and intrusive fragments
R3		Qua		28.00	38.00	10.00				Y	Gravel		red	brown	F to B	Loosely consolidated gravel, Basement rock fragments in a silty clay matrix, predominantly metasediments, quartz and intrusive fragments
R4		Qua		38.00	50.00	12.00				Y	Gravel		grey	brown	F to B	Loosely consolidated gravel, Basement rock fragments in a silty clay matrix, predominantly metasediments, quartz and intrusive fragments, increasing clay matrix, slightly ferruginous
R5		TerA		50.00	122.00	72.00				Y	Silty Clay		light	grey brown		Soft clay, minor gravel bands, increase in FeOx staining 106m to 114m
R6		TerA		122.00	130.00	8.00				Y	Clay		red	grey brown		Silty in part
R7		TerA		130.00	162.00	32.00				Y	Clay		light	grey pink		Minor silty bands
R8		TerA		162.00	222.00	60.00				Y	Clay		light	brown red		Minor silty bands, FeOx staining throughout, hard 20cm band @ 203m
R9		TerB		222.00	224.00	2.00				Y	Clay		light	grey		Carbonaceous in part, lignitic fragments
R10		TerB		224.00	242.00	18.00				Y	Clay		light	grey		Carbonaceous in part, becoming lignitic @ base
R11		TerB		242.00	251.00	9.00	1			Y	Clay	40	light	grey		END OF HOLE 251 metres
R12											Lignitic Clay	30		brown		
R13											Lignite	30	brown	black		
R14																
R15											EOH: 251m					
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

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BOREHOLE FPR H8-1

Commenced:21/10/06

Completed: 22/10/06

Drilled by: Watson Drilling

Geologist: N. Kennedy Sampled by: N. Kennedy Driller:D. Watson Rig Type:Rotary mud

Easting:246132

Northing: 6479879 (AGD 94)

Cored from:

Diameter:.mm

Elevation: 385m

Total Depth: 210 metres

Open Hole from 0 to 210m

Diameter: 130mm

Logged: 21-22/10/06

Sampled: 21-22/10/06

Borehole Medium: Water, bentonite

Geophysical

Date logged:

Company:

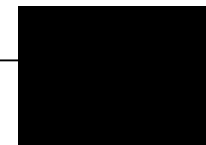
Logger:

Depth logged:

Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

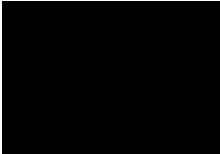
Unable to get penetration @ 208m. Used rock roller bit to 210m, very slow penetration, no viable sample return, abandoned hole at 210m.



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H8-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	6.00	6.00				Y	Soil & Sand		mid	brown	VF	Loosely consolidated soil, well sorted, minor silty clay matrix
R2		Qua/Ter?		6.00	17.00	11.00				Y	Sandy Gravel		light	brown grey	F to P	Loosely consolidated gravel, poorly sorted, rounded to angular rock fragments, minor silty clay matrix
R3		Qua/Ter?		17.00	37.00	20.00				Y	Clay		red	brown		Sandy in part, minor gravel
R4		Qua/Ter?		37.00	42.00	5.00				Y	Sandy Gravel		grey	brown	F to P	Loosely consolidated, angular to rounded rock fragments, minor silty clay matrix
R5		Qua/Ter?		42.00	47.00	5.00				Y	Clay		red	brown		Silty, angular to rounded rock fragments throughout
R6		Ter		47.00	51.00	4.00				Y	Sandy Gravel		beige	grey	F-C	Loosely consolidated, angular to rounded rock fragments, minor silty clay matrix
R7		Ter		51.00	60.00	9.00				Y	Clay		red	brown		Silty, angular to rounded rock fragments throughout
R8		Ter		60.00	62.00	2.00				Y	Sandy Gravel		beige	grey	F-C	Loosely consolidated, angular to rounded rock fragments, minor silty clay matrix
R9		Ter		62.00	76.00	14.00				Y	Clay		red	brown		Silty, angular to rounded rock fragments throughout
R10		Ter		76.00	102.00	26.00				Y	Clay		beige	yellow brown		minor silty bands, minor FeOx staining
R11		Ter		102.00	120.00	18.00				Y	Clayey Gravel		light	brown grey	F-P	Silty in part, angular to rounded rock fragments throughout
R12		Ter		120.00	128.00	8.00				Y	Sand		light	grey	F-M	Loosely consolidated, well sorted, clay matrix
R13		Ter		128.00	132.00	4.00				Y	Sandstone		light	grey	F-M	moderately consolidated, well sorted, clay matrix
R14		Ter		132.00	139.00	7.00				Y	Sand		light	grey	F	Loosely consolidated, well sorted, clay matrix
R15		Ter		139.00	140.00	1.00	1			Y	Lignite	60	brown	black		
R16											Sandy Clay	40	mid	grey		
R17		Ter		140.00	152.00	12.00				Y	Sand		light	grey	F	Loosely consolidated, well sorted, clay matrix
R18		Ter		152.00	175.00	23.00				Y	Lignitic Sand		brown	black grey	F	Loosely consolidated, well sorted, minor clay matrix, occasional lignite band
R19		Ter		175.00	191.00	16.00	2			Y	Lignite		brown	black		Soft, sand throughout.
R20		Ter		191.00	208.00	17.00				Y	Sand		light	brown grey	F-M	Loosely consolidated, well sorted, minor clay matrix, becoming more clayey @ base
R21		Prot?		208.00	210.00	2.00				Y	?Basement?					Very hard, no viable returns. END OF HOLE 210 metres
R22																
R23											EOH: 210m					
R24																
R25																



Rank Geological Services - Field Logging Title Sheet

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BOREHOLE FPR H8-2

Commenced:23/10/06

Completed: 23/10/06

Drilled by: Watson Drilling

Geologist: N. Kennedy Sampled by: N. Kennedy Driller:D. Watson Rig Type:Rotary mud

Easting:245253

Northing: 6478080 (AGD 94)

Cored from:

Diameter:.mm

Elevation: -m Total Depth: 182.5 metres Open Hole from 0 to 182.5m Diameter: 130mm

Logged: 23/10/06

Sampled: 23/10/06

Borehole Medium: Water, bentonite

Geophysical

Date logged:

Company:

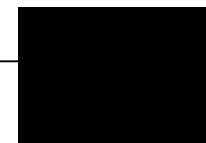
Logger:

Depth logged:

Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

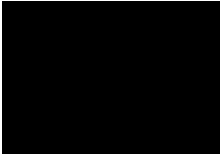
Lost circulation @ 54m..



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H8-2

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	8.00	8.00				Y	Soil		mid	brown	VF-F	Loosely consolidated soil, minor silty clay matrix
R2		Qua		8.00	19.00	11.00				Y	Gravel		light	brown grey	M to P	Loosely consolidated gravel, moderately sorted, rounded to subangular rock fragments, increasing clay matrix @ base
R3		Ter		19.00	39.00	20.00				Y	Clay		red	brown		Sandy in part, minor gravel
R4		Ter		39.00	54.00	15.00				Y	Clay		beige	light grey		Silty throughout
R5		Ter		54.00	62.00	8.00				Y	Gravel		grey	brown	C-P	Loosely consolidated, subangular to rounded rock fragments, poorly sorted, clayey @ base
R6		Ter		62.00	72.00	10.00				Y	Gravelly Clay		brown	grey	C-P	Moderately consolidated, subangular to rounded rock fragments, poorly sorted
R7		Ter		72.00	79.00	7.00				Y	Clay		red orange	brown purple		Varicoloured, silty, FeOx
R8		Ter		79.00	90.00	11.00				Y	Clay		yellow	grey red		Varicoloured, silty, FeOx
R9		Ter		90.00	92.00	2.00				Y	Sandy Clay		light	grey		Silty, angular to rounded rock fragments throughout
R10		Ter		92.00	102.00	10.00				Y	Clay		yellow	grey red		Varicoloured, silty, FeOx
R11		Ter		102.00	107.00	5.00				Y	Sand		white	light grey	F	Loosely consolidated, well sorted, minor clay matrix
R12		Ter		107.00	121.00	14.00				Y	Sandy Clay		white	light grey		
R13		Ter		121.00	135.00	14.00				Y	Sand		white	light grey	F-M	Loosely consolidated, well sorted, minor clay matrix
R14		Ter		135.00	138.00	3.00				Y	Sand		ochre	light brown	F	Loosely consolidated, well sorted, minor clay matrix
R15		Ter		138.00	146.00	8.00				Y	Sand		dark	brown beige	F	Loosely consolidated, well sorted, minor clay matrix
R16				146.00	150.00	4.00					Lignitic Sand		brown	black grey	F	Loosely consolidated, well sorted, minor clay matrix, occasional lignite band
R17		Ter		150.00	156.00	6.00				Y	Sand		light	grey	F	Loosely consolidated, well sorted, minor clay matrix, occasional lignite band
R18		Ter		156.00	164.00	8.00				Y	Lignitic Sand		brown	black grey	F	Loosely consolidated, well sorted, minor clay matrix, occasional lignite band
R19		Ter		164.00	166.00	2.00				Y	Clay		light	grey		Soft, rock fragments throughout.
R20		Ter		166.00	168.00	2.00	1			Y	Lignite		brown	black		
R21		Ter		168.00	178.00	10.00				Y	Clay		mid	grey		Soft, occasional hard band (<10cms), sandy throughout
R22		Prot?		178.00	182.50	4.50					Basement					Very hard, slow penetration, metasediments. END OF HOLE 182.5 metres
R23																
R24											EOH: 182.5m					
R25																



Rank Geological Services - Field Logging Title Sheet

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BOREHOLE FPR H8-3

Commenced:24/10/06

Completed: 24/10/06

Drilled by: Watson Drilling

Geologist: N. Kennedy Sampled by: R. Williams Driller:D. Watson Rig Type:Rotary mud

Easting:244362 Northing: 6476070 (AGD 94) Cored from: Diameter:.mm

Elevation: -m Total Depth: 186 metres Open Hole from 0 to 186m Diameter: 130mm

Logged: 29/10/06 Sampled: 24/10/06 Borehole Medium: Water, bentonite

Geophysical

Date logged:

Company:

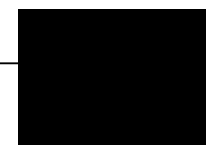
Logger:

Depth logged:

Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

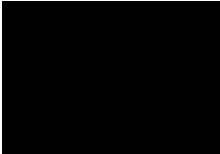
Rig refusal @ 186m..



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H8-3

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	4.00	4.00				Y	Soil			brown		Silty, gravel throughout
R2		Qua		4.00	20.00	16.00				Y	Gravel		brown	grey	M to B	Loosely consolidated gravel, poorly sorted, subrounded to angular rock fragments
R3		Ter		20.00	38.00	18.00				Y	Clay			brown		Sandy in part, gravel throughout
R4		Ter		38.00	40.00	2.00				Y	Gravel		beige	grey		Loosely consolidated gravel, poorly sorted, subrounded to angular rock fragments
R5		Ter		40.00	43.00	3.00				Y	Clay			brown		Sandy in part, gravel throughout
R6		Ter		43.00	60.00	17.00				Y	Gravelly Clay		brown	grey	C-P	Moderately consolidated, subangular to rounded rock fragments, poorly sorted
R7		Ter		60.00	68.00	8.00				Y	Clay		red	brown grey		Minor gravel, silty in part, FeOx
R8		Ter		68.00	80.00	12.00				Y	Clay		mid	grey		
R9		Ter		80.00	86.00	6.00				Y	Sand		light	grey	F-M	Loosely consolidated, quartzose, well sorted, minor clay matrix
R10		Ter		86.00	97.00	11.00				Y	Sand		light	grey	F	Loosely consolidated, quartzose, well sorted, becoming clayey @ base
R11		Ter		97.00	111.00	14.00				Y	Clay		beige	grey		
R12		Ter		111.00	126.00	15.00				Y	Mudstone		mid	grey		Minor carbonaceous lamellae throughout
R13		Ter		126.00	133.00	7.00				Y	Mudstone		light	grey		
R14		Ter		133.00	148.00	15.00				Y	Mudstone		light	grey		silty throughout
R15		Ter		148.00	185.00	37.00				Y	Sandy Clay		light	grey		fine quartzose sand throughout, sandier @ base, hard bamds from 180m
R16		Prot?		185.00	186.00	1.00					Basement		white	light grey		Very hard, metasediments, refusal. END OF HOLE 186 metres
R17																
R18											EOH: 186m					
R19																
R20																
R21																
R22																
R23																
R24																
R25																



Rank Geological Services - Field Logging Title Sheet

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BOREHOLE FPR H9-1

Commenced:24/10/06

Completed: 24/10/06

Drilled by: Watson Drilling

Geologist: N. Kennedy Sampled by: R. Williams Driller:D. Watson Rig Type:Rotary mud

Easting:235000 Northing: 6467000 (AGD 94) Cored from: Diameter:.mm

Elevation: -m Total Depth: 42 metres Open Hole from 0 to 42m Diameter: 130mm

Logged: 29/10/06 Sampled: 24/10/06 Borehole Medium: Water, bentonite

Geophysical

Date logged:

Company:

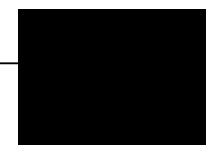
Logger:

Depth logged:

Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

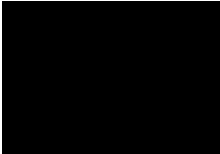
Rig refusal @ 42m..



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H9-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	4.00	4.00				Y	Soil			brown		gravel @ base, gypsum fragments throughout
R2		Qua		4.00	12.00	8.00				Y	Clay		brown	grey		gravel @ base, gypsum fragments throughout
R3		Qua		12.00	16.00	4.00				Y	Clay		beige	brown		gravel @ base, gypsum fragments throughout, base of weathering?
R4		Qua		16.00	21.00	5.00				Y	Gravel		white	grey		Loosely consolidated gravel, poorly sorted, subrounded to angular rock fragments, minor clay matrix
R5		Ter		21.00	31.00	10.00				Y	Clay		yellow	grey		Silty throughout, Soft, mottled
R6		Ter		31.00	36.00	5.00				Y	Clay			grey		Rock fragments throughout, Soft
R7		Prot?		36.00	42.00	6.00				Y	Basement		white	light grey		Sandy, calcareous, refusal. END OF HOLE 42 metres
R8																
R9											EOH: 42m					
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

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BOREHOLE FPR H9-2

Commenced:25/10/06

Completed: 25/10/06

Drilled by: Watson Drilling

Geologist: N. Kennedy Sampled by: R. Williams Driller:D. Watson Rig Type:Rotary mud

Easting:236297 Northing: 6469853 (AGD 94) Cored from: Diameter:.mm

Elevation: -m Total Depth: 96 metres Open Hole from 0 to 96m Diameter: 130mm

Logged: 29/10/06 Sampled: 25/10/06 Borehole Medium: Water, bentonite

Geophysical

Date logged:

Company:

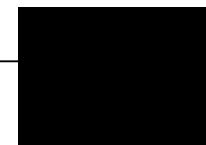
Logger:

Depth logged:

Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

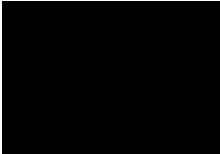
Rig refusal @ 96m..



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H9-2

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	4.00	4.00				Y	Soil			brown		Silty
R2		Ter		4.00	10.00	6.00				Y	Clay		light brown	grey		Soft, minor gravel throughout, depth of weathering?
R3		Ter		10.00	24.00	14.00				Y	Clay		beige	grey		Soft, minor gravel throughout
R4		Ter		24.00	40.00	16.00				Y	Clay		Yellow beige	brown red		Soft, mottled
R5		Ter		40.00	46.00	6.00				Y	Sand			white	F	Loosely consolidated, quartzose, well sorted, minor clay matrix
R6		Ter		46.00	82.00	36.00				Y	Clay		light	grey		Minor silty bands
R7		Prot?		82.00	96.00	14.00				Y	Basement		white	light grey		Sandy, calcareous, very hard @ base, refusal. END OF HOLE 96 metres
R8																
R9											EOH: 96m					
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

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BOREHOLE FPR H10-1

Commenced:25/10/06

Completed: 26/10/06

Drilled by: Watson Drilling

Geologist: N. Kennedy Sampled by: R. Williams Driller:D. Watson Rig Type:Rotary mud

Easting:778292 Northing: 6464643 (AGD 94) Cored from: Diameter:.mm

Elevation: -m Total Depth: 224 metres Open Hole from 0 to 224m Diameter: 130mm

Logged: 30/10/06 Sampled: 26/10/06 Borehole Medium: Water, bentonite

Geophysical

Date logged:

Company:

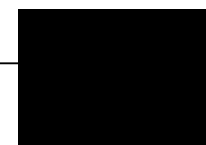
Logger:

Depth logged:

Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

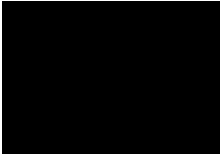
Rig refusal @ 224m..



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H10-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	4.00	4.00				Y	Soil			brown		Silty
R2		Qua		4.00	18.00	14.00				Y	Gravel		red	brown	M-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix
R3		Qua		18.00	23.00	5.00				Y	Gravel		beige	grey	M-C	Loosely consolidated, poorly sorted, subrounded to angular rock fragments
R4		Ter		23.00	58.00	35.00				Y	Clay		red	brown		Soft, mottled, minor gravel
R5		Ter		58.00	70.00	12.00				Y	Clay		light	grey		Silty in part
R6		Ter		70.00	78.00	8.00				Y	Clay		light	grey		
R7		Ter		78.00	84.00	6.00				Y	Clay		mid	grey		
R8		Ter		84.00	90.00	6.00				Y	Clay		light	grey		
R9		Ter		90.00	97.00	7.00				Y	Sand		light	grey	F-M	Loosely consolidated, quartzose, well sorted, minor grey clay matrix
R10		Ter		97.00	108.00	11.00				Y	Clay		mid	grey		
R11		Ter		108.00	122.00	14.00				Y	Clay		light	grey		
R12		Ter		122.00	126.00	4.00				Y	Sand		beige	grey	F-M	Loosely consolidated, quartzose, well sorted, minor white clay matrix
R13		Ter		126.00	131.00	5.00				Y	Clay		light	grey		
R14		Ter		131.00	132.00	1.00				Y	Sand		dark	grey beige	F-M	Loosely consolidated, quartzose, well sorted, lignite fragments throughout
R15		Ter		132.00	138.00	6.00	1			Y	Lignite	50	brown	black		
R16		Ter								Y	Clay	50	dark	grey		
R17		Ter		138.00	152.00	14.00				Y	Clay		mid	grey		Minor carbonaceous bands
R18		Ter		152.00	164.00	12.00				Y	Clay		light	grey		
R19		Ter		164.00	184.00	20.00				Y	Clay		mid	grey		
R20		Ter		184.00	186.00	2.00				Y	Sand		light	grey	F	Loosely consolidated, quartzose, well sorted, minor white clay matrix
R21		Ter		186.00	192.00	6.00	2			Y	Lignitic Clay		dark grey	brown		
R22		Ter		192.00	197.00	5.00	2			Y	Lignite		brown	black		Clay laminae throughout
R23		Ter		197.00	214.00	17.00	2			Y	Clay	60	dark	grey		
R24		Ter					2				Lignite	40	brown	black		
R25		Ter		214.00	222.00	8.00				Y	Sand		mid	grey	F	Quartzose, well sorted, calcareous matrix, hard bands @ base
R26		Prot?		222.00	224.00	2.00				Y	Basement		white	light grey		Sandy, calcareous, very hard @ base, refusal. END OF HOLE 224 metres
R27																
R28											EOH: 224m					



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

Exploration Licence EL 3230

Page 1 of 2

BOREHOLE FPR H10-2

Commenced: 26/10/06

Completed: 27/10/06

Drilled by: Watson Drilling

Geologist: N. Kennedy Sampled by: R. Williams Driller: D. Watson Rig Type: Rotary mud

Easting: 777240 Northing: 6467106 (AGD 94) Cored from: Diameter: .mm

Elevation: -m Total Depth: 195 metres Open Hole from 0 to 195m Diameter: 130mm

Logged: 30/10/06 Sampled: 27/10/06 Borehole Medium: Water, bentonite

Geophysical

Date logged:

Company:

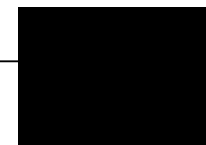
Logger:

Depth logged:

Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

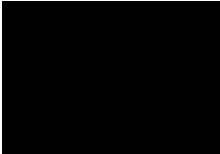
Rig refusal @ 195m..



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H10-2

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	7.00	7.00				Y	Soil			brown		Silty
R2		Qua		7.00	42.00	35.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix
R3		Qua		42.00	44.00	2.00				Y	Gravel		beige	grey	M-C	Loosely consolidated, poorly sorted, subrounded to angular rock fragments
R4		Ter		44.00	58.00	14.00				Y	Clay		red	brown		Soft, mottled, minor gravel
R5		Ter		58.00	66.00	8.00				Y	Clay		grey	brown red		Soft, mottled
R6		Ter		66.00	74.00	8.00				Y	Clay		brown	red		Soft, mottled
R7		Ter		74.00	82.00	8.00				Y	Clay		light	grey		
R8		Ter		82.00	108.00	26.00				Y	Clay		mid	grey		
R9		Ter		108.00	123.00	15.00				Y	Sand		light	grey	F-C	Loosely consolidated, quartzose, well sorted, minor grey clay matrix, coarser @ base
R10		Ter		123.00	128.00	5.00	1			Y	Lignitic Sand		grey	black		Fine quartzose lignitic sand
R11		Ter		128.00	132.00	4.00	1			Y	Lignite	50	brown	black		
R12		Ter								Y	Clay	50	dark	grey		
R13		Ter		132.00	140.00	8.00				Y	Clay		mid	grey		
R14		Ter		140.00	144.00	4.00				Y	Carbonaceous Clay		dark	grey		lignite fragments throughout
R15		Ter		144.00	148.00	4.00	2			Y	Lignite		brown	black		
R16		Ter		148.00	152.00	4.00				Y	Clay	60	dark	grey		
R17		Ter								Y	Lignite	40	brown	black		
R18		Ter		152.00	156.00	4.00				Y	Clay		light	grey		
R19		Ter		156.00	164.00	8.00				Y	Sand		mid	grey	F-M	Loosely consolidated, quartzose, well sorted, minor grey clay matrix
R20		Ter		164.00	168.00	4.00				Y	Carbonaceous Clay		dark	grey		lignite fragments throughout
R21		Ter		168.00	176.00	8.00				Y	Sand		mid	grey	F-P	Loosely consolidated, quartzose, moderately sorted, minor grey clay matrix, gravel throughout
R22		Ter		176.00	182.00	6.00	2			Y	Clay	50	dark	grey		Clay laminae throughout
R23		Ter					2			Y	Sand	40	mid	grey	F	
R24		Ter					2				Lignite	10	brown	black		
R25		Ter		182.00	186.00	4.00				Y	Sand		mid	grey	F	Quartzose, well sorted, calcareous? matrix
R26		Prot?		186.00	195.00	9.00				Y	Basement		white	light grey		Sandy, calcareous, increasingly hard towards base, refusal. END OF HOLE 195 metres
R27																
R28											EOH: 195m					



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

Exploration Licence EL 3230

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BOREHOLE FPR H11-1

Commenced:27/10/06

Completed: 28/10/06

Drilled by: Watson Drilling

Geologist: N. Kennedy Sampled by: R. Williams Driller:D. Watson Rig Type:Rotary mud

Easting:782045 Northing: 6456548 (AGD 94) Cored from: Diameter:.mm

Elevation: -m Total Depth: 183 metres Open Hole from 0 to 183m Diameter: 130mm

Logged: 29/10/06 Sampled: 28/10/06 Borehole Medium: Water, bentonite

Geophysical

Date logged:

Company:

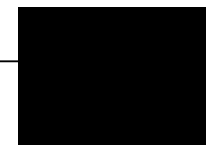
Logger:

Depth logged:

Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

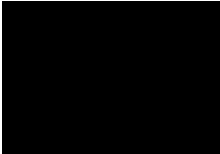
Rig refusal @ 183m..



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H11-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	6.00	6.00				Y	Soil			brown		Loosely consolidated, silty matrix
R2		Qua		6.00	14.00	8.00				Y	Soil	60		brown		Loosely consolidated, poorly sorted, subrounded to subangular rock fragments, silty clay matrix
R3		Qua								Y	Clayey gravel	40	beige	grey	M-P	
R4		Qua		14.00	18.00	4.00				Y	Gravel		red	grey		Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix, Hard Fe band @ 16m
R5		Ter		18.00	36.00	18.00				Y	Clayey gravel		grey	brown	F-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix
R6		Ter		36.00	42.00	6.00				Y	Clayey gravel			brown	F-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix
R7		Ter		42.00	54.00	12.00				Y	Clayey gravel		grey	brown	F-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, silty clay matrix
R8		Ter		54.00	60.00	6.00				Y	Clay		brown	red		Soft, mottled, silty
R9		Ter		60.00	79.00	19.00				Y	Clay		light grey	orange red		Soft, mottled, becoming sandy @ base
R10		Ter		79.00	88.00	9.00				Y	Sandy clay		light grey	orange red		Soft, mottled
R11		Ter?Jur?		88.00	98.00	10.00				Y	Sand		light	grey	F-C	Moderately consolidated, quartzose, well sorted, minor white clay matrix
R12		Ter?Jur?		98.00	113.00	15.00				Y	Clay			white		
R13		Ter?Jur?		113.00	126.00	13.00				Y	Sand		light	grey	F-M	Moderately consolidated, quartzose, well sorted, minor white clay matrix
R14		?		126.00	149.00	23.00				Y	Sand		mid	grey	F-C	Moderately consolidated, quartzose, well sorted, minor white clay matrix, carbonaceous 133m-140m
R15		?		149.00	176.00	27.00	1			Y	Lignite(Coal?)		brown	black		
R16		?		176.00	180.00	4.00				Y	Sand		light	grey	F-M	Moderately consolidated, quartzose, well sorted, minor white clay matrix
R17		Prot?		180.00	183.00	3.00				Y	Basement?					Hard, no viable cuttings, refusal. END OF HOLE 183 metres
R18																
R19											EOH: 183m					
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																
R28																



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

Exploration Licence EL 3230

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BOREHOLE FPR H2-1

Commenced: 28/10/06

Completed: 29/10/06

Drilled by: Watson Drilling

Geologist: N. Kennedy Sampled by: R. Williams Driller: D. Watson Rig Type: Rotary mud

Easting: 248561 Northing: 6521246 (AGD 94) Cored from: Diameter: .mm

Elevation: -m Total Depth: 251 metres Open Hole from 0 to 251m Diameter: 130mm

Logged: 29/10/06 Sampled: 29/10/06 Borehole Medium: Water, bentonite

Geophysical

Date logged:

Company:

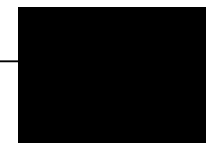
Logger:

Depth logged:

Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

Rig capacity 251m..



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H2-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	8.00	8.00				Y	Soil			brown		Minor gravel @ base
R2		Qua		8.00	14.00	6.00				Y	Clayey gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R3		Qua		14.00	18.00	4.00				Y	Gravel			grey	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R4		Qua		18.00	22.00	4.00				Y	Clayey gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R5		Qua		22.00	25.00	3.00				Y	Gravel			grey	C-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R6		Qua		25.00	36.00	11.00				Y	Clayey gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R7		Qua		36.00	38.00	2.00				Y	Gravel			grey	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R8		Qua		38.00	51.00	13.00				Y	Clayey gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R9		Ter		51.00	78.00	27.00				Y	Clay			brown		Soft, gravelly in part
R10		Ter		78.00	146.00	68.00				Y	Clay		light grey	brown red		Soft, mottled, minor gravel bands
R11		Ter		146.00	168.00	22.00				Y	Clay		light orange	brown red		Soft, mottled, minor gravel bands
R12		Ter		168.00	190.00	22.00				Y	Clay		light grey	brown white		Soft, mottled
R13		Ter		190.00	192.00	2.00				Y	Sand		light grey	red	F-M	Loosely consolidated, quartzose, well sorted, minor clay matrix
R14		Ter		192.00	234.00	42.00				Y	Clay		light	grey	F-C	Soft, sandy in part
R15		Ter		234.00	251.00	17.00				Y	Lignite(Coal?)		brown	black		
R16		Ter		176.00	180.00	4.00				Y	Sand		light	grey beige	F	Loosely consolidated, quartzose, well sorted, clay matrix, poor recovery after 242m, rig capacity 251m. END OF HOLE 251 metres
R17																
R18											EOH: 251m					
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																
R28																

Progress Report 2/2006

Project: **Regional Coal Drilling Program – Leigh Creek to Port Augusta Corridor**

Client: **Flinders Power**

Date: **2 January, 2007**



Drilling Program

The drilling program restarted on Wednesday 15th November and was completed on Thursday 30th November with the drilling of borehole FPR LC1-1 within Exploration Licence EL 3124 north of Leigh Creek. Norman Kennedy and Rob Williams visited the sites of boreholes LC4-1, LC3-1, LC3-2, LC3-3 and LC1-1 on 15th December to complete logging and disposal of chip samples. Rehabilitation of sump holes is yet to be undertaken. Summary daily activity sheets are attached as Appendix 1.

Ten holes were completed during this drilling campaign. Details for each of the boreholes are summarised in the following table.

Borehole	Date Commenced	Date Completed	Easting mE	Northing mN	EL	Total Depth (m)
FPR H5-1	16-11-06	17-11-06	236380	6500934	3113	276
FPR P11-1	18-11-06	18-11-06	251489	6533705	3113	204
FPR H2-2	19-11-06	20-11-06	247004	6518103	3230	245
FPR P7-1	21-11-06	22-11-06	249425	6558980	3113	275
FPR P7-2	23-11-06	25-11-06	246065	6567226	3113	275
FPR LC4-1	26-11-06	26-11-06	780616	6661830	3212	69
FPR LC3-1	27-11-06	27-11-06	226720	6664158	3231	81
FPR LC3-2	28-11-06	28-11-06	227781	6661050	3114	93
FPR LC3-3	29-11-06	29-11-06	226259	6668337	3231	95
FPR LC1-1	29-11-06	30-11-06	228039	6680788	3124	159
					TOTAL	1772

Drilling was undertaken by Watson Drilling Contractors of Deniliquin using a Schramm T3 mud rotary rig. Chip samples have been collected at 2 metre intervals and a representative sample preserved in a 250ml clear plastic container.

Lithological logs of all boreholes completed to date are contained within Appendix 2.



Appendix 1



PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:15/11/2006

Prepared by: N.Kennedy.

Personnel Onsite: Geological: N.Kennedy, R. Williams (Flinders Power) .
 Other Consultants: Graeme Richards, Brett Richards (TOs).
 Drilling: Dave Watson (driller), Shawn Nichols, Mat Tage
 Geophysical:
 Visitors:

Drilling:

Borehole:. FPR H5-1

OH 130mm:

Cored 100mm:

Start: m

Finish: m

Pull Rods

Move off site:

Total Metres:

Number of runs:

Rate:

metres/hour

Borehole:.

OH 130mm:

Cored 100mm:

Start: m

Finish

Pull Rod

Move off site:

Total Metres:

Number of runs:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used:

Site move time: hours

Geophysical Logging:

Logger onsite:

Probes Run: . . .

COMMENTS: .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Met driller in Hawker @ 9.30am, wait for TOs, left Hawker 10.15am, bogged a number of times to site, rig bogged 30m from site @ 6.30pm. No drilling.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:16/11/2006

Prepared by: N.Kennedy.

Personnel Onsite: Geological: N.Kennedy, R. Williams (Flinders Power) .
 Other Consultants: Graeme Richards, Brett Richards (TOs).
 Drilling: Dave Watson (driller), Shawn Nichols, Mat Tage
 Geophysical:
 Visitors: Mark Deer

Drilling:

Borehole:. FPR H5-1

OH 130mm:		Cored 100mm:	
Start: 0 m	Finish: 198m	Pull Rods	Move off site:
Total Metres: 198m	Number of runs:	Rate:	metres/hour

Borehole:.

OH 130mm:		Cored 100mm:	
Start: m	Finish	Pull Rod	Move off site:
Total Metres:	Number of runs:	Rate:	metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss
-----	-----	-----	-----	-----		-----	-----	-----	-----	-----

Consumables Used: Bentonite, water (approx 10,000lts/load)

Site move time: hours

Geophysical Logging:

Logger onsite: Probes Run: . . .

COMMENTS: . . .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Moving rig to 8.30am, retrieved sleepers from railway and got rig on site @ 10.15am, drilling commenced 11.30am, broken head seals @ 11.40am, drilling again 12noon, 60m @ 1pm, 100m @ 2pm, 140m @ 3pm, 156m @ 4pm, 186m @ 5pm, 198m@ 6pm.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:17/11/2006

Prepared by: N.Kennedy.

Personnel Onsite: Geological: N.Kennedy, R. Williams (Flinders Power) .
 Other Consultants: Graeme Richards, Brett Richards (TOs).
 Drilling: Dave Watson (driller), Shawn Nichols, Mat Tage
 Geophysical:
 Visitors: Mark Deer

Drilling:

Borehole:. FPR H5-1

OH 130mm:

Start: 198 m

Total Metres: 78m

Finish: 276m

Number of runs:

Cored 100mm:

Pull Rods 11.45am

Move off site: 1.30pm

Rate: metres/hour

Borehole:. FPR P11-1

OH 130mm:

Start: m

Total Metres:

Finish

Number of runs:

Cored 100mm:

Pull Rod

Rate:

Move off site:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000ltrs/load)

Site move time: hours

Geophysical Logging:

Logger onsite: Probes Run: . . .

COMMENTS: . . .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Washed down rods to base of hole 8.15am, 258m @ 10.30am, EOH 276m @ 11.45am. Pulled rods to 1.30pm, Moved and onsite FPR P11-1 @ 5.45pm, setup to 6.15pm.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:18/11/2006

Prepared by: N.Kennedy.

Personnel Onsite: Geological: N.Kennedy, R. Williams (Flinders Power) .
 Other Consultants: Graeme Richards, Brett Richards (TOs).
 Drilling: Dave Watson (driller), Shawn Nichols, Mat Tage
 Geophysical:
 Visitors:

Drilling:

Borehole:. FPR P11-1

OH 130mm:

Start: 0 m

Total Metres: 204m

Finish: 204m

Number of runs:

Cored 100mm:

Pull Rods 5.15pm

Rate:

Move off site: pm

metres/hour

Borehole:.

OH 130mm:

Start: m

Total Metres:

Finish

Number of runs:

Cored 100mm:

Pull Rod

Rate:

Move off site:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000ltrs/load)

Site move time: hours

Geophysical Logging:

Logger onsite: Probes Run: . . .

COMMENTS: . . .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Setup to 8am, 60m @ 9.30am, 140m @ 11.30am, 180m @ 1.30pm, 186m @ 2.30pm, blocked bit, pulled rods to 3pm, wait for water to 3.30pm, start drilling again 4.15pm, 204m @ 5.15pm, poor sample return, blown head, EOH.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:19/11/2006

Prepared by: R.Williams.

Personnel Onsite: Geological: R. Williams (Flinders Power) .

Other Consultants:

Drilling: Dave Watson (driller), Shawn Nichols, Mat Tage

Geophysical:

Visitors:

Drilling:

Borehole:. FPR H5-2

OH 130mm:

Cored 100mm:

Start: 0 m

Finish: 60m

Pull Rods

Move off site:

Total Metres: 60m

Number of runs:

Rate:

metres/hour

Borehole:.

OH 130mm:

Cored 100mm:

Start: m

Finish

Pull Rod

Move off site:

Total Metres:

Number of runs:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000ltrs/load)

Site move time: hours

Geophysical Logging:

Logger onsite:

Probes Run: . . .

COMMENTS: .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Onsite @ 11.45am, setup to 12.20pm, 60m @ 1.50pm, lost circulation, pulled rods to 2.30pm, wait for water to 3pm, bentonite mud did not seal hole left site 4pm.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:20/11/2006

Prepared by: R.Williams.

Personnel Onsite: Geological: R. Williams (Flinders Power) .

Other Consultants:

Drilling: Dave Watson (driller), Shawn Nichols, Mat Tage

Geophysical:

Visitors: Mark Deer

Drilling:

Borehole:. FPR H5-2

OH 130mm:

Start: 60 m

Finish: 245m

Total Metres: 185m

Number of runs:

Cored 100mm:

Pull Rods

4pm

Move off site: 5.40pm

Rate:

metres/hour

Borehole:.

OH 130mm:

Start: m

Finish

Pull Rod

Move off site:

Total Metres:

Number of runs:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000ltrs/load)

Site move time: hours

Geophysical Logging:

Logger onsite:

Probes Run: . . .

COMMENTS: .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Ran PVC precollar to 7.45am, drilling again @ 8.15am, 110m @ 10am, minor circulation problems, 245m EOH @ 4pm, pulled rods to 5.40pm, moved off site and bogged 2 6pm.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:21/11/2006

Prepared by: R.Williams.

Personnel Onsite: Geological: R. Williams (Flinders Power) .

Other Consultants:

Drilling: Dave Watson (driller), Shawn Nichols, Mat Tage

Geophysical:

Visitors:

Drilling:

Borehole:. FPR P7-1

OH 130mm:

Cored 100mm:

Start: 0 m

Finish: 186m

Pull Rods

Move off site:

Total Metres: 186m

Number of runs:

Rate:

metres/hour

Borehole:.

OH 130mm:

Cored 100mm:

Start: m

Finish

Pull Rod

Move off site:

Total Metres:

Number of runs:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000ltrs/load)

Site move time: hours

Geophysical Logging:

Logger onsite:

Probes Run: . . .

COMMENTS: .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Arrived onsite P7-1 @ 9.40am, setup to 10am, 90m @ 12.15pm, 172m @ 4.15pm, broken pump, maintenance and wait for water, 186m @ 6.15pm.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:22/11/2006

Prepared by: R.Williams.

Personnel Onsite: Geological: R. Williams (Flinders Power) .

Other Consultants:

Drilling: Dave Watson (driller), Shawn Nichols, Mat Tage , Adrian Price

Geophysical:

Visitors:

Drilling:

Borehole:. FPR P7-1

OH 130mm:

Start: 186 m

Total Metres: 89m

Finish: 275m

Number of runs:

Cored 100mm:

Pull Rods 2.20pm

Rate:

Move off site: 4.45pm

metres/hour

Borehole:.

OH 130mm:

Start: m

Total Metres:

Finish

Number of runs:

Cored 100mm:

Pull Rod

Rate:

Move off site:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000lts/load)

Site move time: hours

Geophysical Logging:

Logger onsite:

Probes Run: . . .

COMMENTS: .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Commence drilling 7.30am, 275m EOH @ 2.20pm, pulled rods to 4.45pm, left site and onsite P7-2 @ 5.50pm.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:23/11/2006

Prepared by: R.Williams.

Personnel Onsite: Geological: R. Williams (Flinders Power), N. Kennedy .

Other Consultants:

Drilling: Shawn Nichols (driller), Mat Tage , Adrian Price

Geophysical:

Visitors:

Drilling:

Borehole:. FPR P7-2

OH 130mm:

Cored 100mm:

Start: 0 m

Finish: 189m

Pull Rods

Move off site:

Total Metres: 189m

Number of runs:

Rate:

metres/hour

Borehole:.

OH 130mm:

Cored 100mm:

Start: m

Finish

Pull Rod

Move off site:

Total Metres:

Number of runs:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000lts/load)

Site move time: hours

Geophysical Logging:

Logger onsite:

Probes Run: . . .

COMMENTS: .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Commence drilling 7.00am, 19m @ 7.30am, pulled rods and used rock roller bit until 8.30am, drilling again with blade bit @ 9am, 78m @ 11.30am, 189m @ 2.45pm, shutdown due to mud pump bearings, pulled rods and left site @ 6pm.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal

CLIENT: Flinders Power

DAILY FIELD RECORD

Date:24/11/2006

Prepared by: N.Kennedy.

Personnel Onsite: Geological: R. Williams (Flinders Power), N. Kennedy .

Other Consultants:

Drilling: Shawn Nichols (driller), Mat Tage , Adrian Price

Geophysical:

Visitors:

Drilling:

Borehole:. FPR P7-2

OH 130mm:

Start: 189 m

Total Metres: 0m

Finish: 189m

Number of runs:

Cored 100mm:

Pull Rods

Rate:

Move off site:

metres/hour

Borehole:.

OH 130mm:

Start: m

Total Metres:

Finish

Number of runs:

Cored 100mm:

Pull Rod

Rate:

Move off site:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000ltrs/load)

Site move time: hours

Geophysical Logging:

Logger onsite: Probes Run: . . .

COMMENTS: . . .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Wait for mud pump parts to arrive by plane 11am, rods down @ 3.30pm but pump still inoperative, shut down for maintenance.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal

CLIENT: Flinders Power

DAILY FIELD RECORD

Date:25/11/2006

Prepared by: R. Williams.

Personnel Onsite: Geological: R. Williams (Flinders Power).

Other Consultants:

Drilling: Shawn Nichols (driller), Mat Tage , Adrian Price

Geophysical:

Visitors:

Drilling:

Borehole:. FPR P7-2

OH 130mm:

Start: 189 m

Total Metres: 86m

Finish: 275m

Number of runs:

Cored 100mm:

Pull Rods

Rate:

4.10pm Move off site: 6.20pm

metres/hour

Borehole:.

OH 130mm:

Start: m

Total Metres:

Finish

Number of runs:

Cored 100mm:

Pull Rod

Rate:

Move off site:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000lts/load)

Site move time: hours

Geophysical Logging:

Logger onsite:

Probes Run: . . .

COMMENTS: .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Maintenance to 11am, 275m EOH @ 4.10pm, pulled rods and move off site @ 6.20pm.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal

CLIENT: Flinders Power

DAILY FIELD RECORD

Date:26/11/2006

Prepared by: R. Williams.

Personnel Onsite: Geological: R. Williams (Flinders Power).

Other Consultants:

Drilling: Shawn Nichols (driller), Mat Tage , Adrian Price

Geophysical:

Visitors:

Drilling:

Borehole:. FPR LC4-1

OH 130mm:

Start: 0 m

Total Metres: 69m

Finish: 69m

Number of runs:

Cored 100mm:

Pull Rods

Rate:

Move off site

metres/hour

Borehole:.

OH 130mm:

Start: m

Total Metres:

Finish

Number of runs:

Cored 100mm:

Pull Rod

Rate:

Move off site:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000ltrs/load)

Site move time: hours

Geophysical Logging:

Logger onsite:

Probes Run: . . .

COMMENTS: .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Arrived onsite @ 12.20pm, 22m @ 1.30pm, put rock roller on for hard band, 24m@ 3pm, resume with blade bits, 69m EOH refusal @ 6.15pm.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date: 27/11/2006

Prepared by: R. Williams.

Personnel Onsite: Geological: R. Williams (Flinders Power).

Other Consultants:

Drilling: Shawn Nichols (driller), Mat Tage , Adrian Price

Geophysical:

Visitors:

Drilling:

Borehole:. FPR LC4-1

OH 130mm:

Start: 69 m

Finish: 69m

Cored 100mm:

Pull Rods: 7.30am to 9.30am Move off site: 11am

Total Metres: 0m

Number of runs:

Rate:

metres/hour

Borehole:. FPR LC3-1

OH 130mm:

Start: 0m

Finish 81m

Cored 100mm:

Pull Rod 4.30pm

Move off site: 5.30pm

Total Metres: 81m

Number of runs:

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000ltrs/load)

Site move time: hours

Geophysical Logging:

Logger onsite:

Probes Run: . . .

COMMENTS: .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

Pulled rods to 9.30am, pump maintenance to 11am, arrived site LC3-1 @ 11.55am, drilled to refusal 81m @ 4.30pm, moved to site LC3-2 @ 5.30pm.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal

CLIENT: Flinders Power

DAILY FIELD RECORD

Date:28/11/2006

Prepared by: R. Williams.

Personnel Onsite: Geological: R. Williams (Flinders Power).

Other Consultants:

Drilling: Shawn Nichols (driller), Mat Tage , Adrian Price

Geophysical:

Visitors:

Drilling:

Borehole:. FPR LC3-2

OH 130mm:

Start: 0 m

Finish: 93m

Total Metres: 93m

Number of runs:

Cored 100mm:

Pull Rods: 1.30pm

Move off site: 2.15pm

Rate: metres/hour

Borehole:.

OH 130mm:

Start:

Finish

Total Metres:

Number of runs:

Cored 100mm:

Pull Rod

Move off site

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000ltrs/load)

Site move time: hours

Geophysical Logging:

Logger onsite:

Probes Run: . . .

COMMENTS: .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

48m @ 10.15am, 93m refusal EOH @ 1.30pm, pulled rods and left site @ 2.15pm, arrived site LC3-3 @ 3pm and setup.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:29/11/2006

Prepared by: R. Williams.

Personnel Onsite: Geological: R. Williams (Flinders Power).

Other Consultants:

Drilling: Shawn Nichols (driller), Mat Tage , Adrian Price

Geophysical:

Visitors:

Drilling:

Borehole:. FPR LC3-3

OH 130mm:

Start: 0 m

Finish: 95m

Total Metres: 95m

Number of runs:

Cored 100mm:

Pull Rods: 9.30am

Move off site: 10am

Rate:

metres/hour

Borehole:. FPR LC1-1

OH 130mm:

Start: 0m

Finish 108m

Total Metres: 108m

Number of runs:

Cored 100mm:

Pull Rod

Move off site

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000ltrs/load)

Site move time: hours

Geophysical Logging:

Logger onsite:

Probes Run: . . .

COMMENTS: .

COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

95m refusal EOH @ 9.30am, pulled rods and left site @ 10am, arrived site LC1-1 @ 12noon and setup, drilling @ 1pm, 96m @ 4pm, wait for water, 108m @ 5.30pm.

OTHER FIELD ACTIVITIES:.

PROJECT: Regional Coal
CLIENT: Flinders Power

DAILY FIELD RECORD

Date:30/11/2006

Prepared by: R. Williams.

Personnel Onsite: Geological: R. Williams (Flinders Power).

Other Consultants:

Drilling: Shawn Nichols (driller), Mat Tage , Adrian Price

Geophysical:

Visitors:

Drilling:

Borehole:. FPR LC1-1

OH 130mm:

Start: 108 m

Finish: 159m

Total Metres: 51m

Number of runs:

Cored 100mm:

Pull Rods: 11.30am

Move off site: 12.45pm

Rate:

metres/hour

Borehole:.

OH 130mm:

Start:

Finish

Total Metres:

Number of runs:

Cored 100mm:

Pull Rod

Move off site

Rate:

metres/hour

Coring

From	To	Drilled	Rec.	Coreloss		From	To	Drilled	Rec.	Coreloss

Consumables Used: Bentonite, water (approx 10,000lts/load)

Site move time: hours

Geophysical Logging:

Logger onsite:

Probes Run: . . .

COMMENTS: .

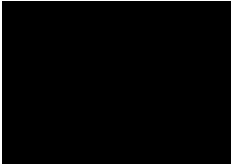
COMMENTS: (problems, maintenance, hourly work, geotechnical testing, hydrogeological installations)

159m refusal EOH @ 11.30am, pulled rods and left site @ 12.45pm.

OTHER FIELD ACTIVITIES:.

Appendix 2





Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

Exploration Licence EL 3113

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BOREHOLE FPR H5-1

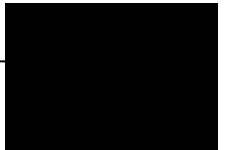
Commenced:16/11/06 Completed: 17/11/06 Drilled by: Watson Drilling
Geologist: N. Kennedy Sampled by: R. Williams Driller:D. Watson Rig Type:Rotary mud
Easting:236380 Northing: 6500934 (AGD 94) Cored from: Diameter:.mm
Elevation: -m Total Depth: 276 metres Open Hole from 0 to 276m Diameter: 130mm
Logged: 16-17/11/06 Sampled: 16-17/11/06 Borehole Medium: Water, bentonite

Geophysical

Date logged: Company:
Logger: Depth logged:
Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

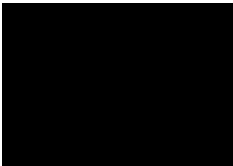
Rig capacity 276m.



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H5-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	1.00	1.00				Y	Soil			brown		
R2		Qua		1.00	16.00	15.00				Y	Gravel		grey	brown white	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty clay matrix
R3		Ter		16.00	24.00	8.00				Y	Silty Gravel		red	brown		Soft, minor gravel throughout
R4		Ter		24.00	36.00	12.00				Y	Silty Gravel		light	brown		Hard silcrete band @ top
R5		Ter		36.00	42.00	6.00				Y	Clay		light	grey brown		Silty in part
R6		Ter		42.00	44.00	2.00				Y	Clay		red	brown		
R7		Ter		44.00	60.00	16.00				Y	Silty Clay		mid	brown		
R8		Ter		60.00	117.00	57.00				Y	Silty Clay		brown grey	red yellow		Mottled in part, sandy between 74m and 78m
R9		Ter		117.00	147.00	30.00				Y	Clay		beige yellow	grey red		Mottled, varicoloured
R10		Ter		147.00	156.00	9.00				Y	Clay		mid	grey		Mottled brown in part, minor carbonaceous fragments throughout
R11		Ter		156.00	169.00	13.00				Y	Clay		light	grey		Mottled brown in part
R12		Ter		169.00	174.00	5.00				Y	Carbonaceous Clay		grey	black		
R13		Ter		174.00	180.00	6.00				Y	Clay		beige grey	brown red		Mottled, carbonaceous fragments throughout
R14		Ter		180.00	200.00	20.00				Y	Clay		green	grey		Uniform, occasional carbonaceous band @ top
R15		Ter		200.00	217.00	17.00				Y	Sand			beige	VF	Loosely consolidated, quartzose, well sorted, minor clay matrix, coal fragments @ 210m, poor recovery @ base
R16		Ter		217.00	220.00	3.00				Y	Lignite (coal?)			black		
R17		Ter		220.00	234.00	14.00				Y	Sand		grey	beige	VF	Loosely consolidated, quartzose, well sorted, minor clay matrix, poor sample recovery
R18		Ter		234.00	240.00	6.00				Y	Clay		green	grey		Mottled in part
R19		Ter		240.00	262.00	22.00				Y	Carbonaceous Clay		grey	black		Uniform, coal fragments @ base
R20		Ter		262.00	266.00	4.00				Y	Sand	70%	grey	beige	VF	Loosely consolidated, quartzose, well sorted, minor clay matrix, poor sample recovery
R21											Lignite (coal?) fragments	30%		black		
R22		Ter		266.00	276.00					Y	Sand		grey	beige	VF	Loosely consolidated, quartzose, well sorted, minor clay matrix, carbonaceous staining and fragments throughout, End of Hole 276 metres
R23																
R24											EOH: 276m					
R25																
R26																
R27																
R28																



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

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BOREHOLE FPR P11-1

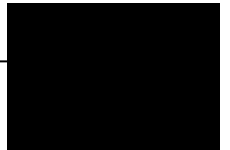
Commenced:18/11/06 Completed: 18/11/06 Drilled by: Watson Drilling
Geologist: N. Kennedy Sampled by: R. Williams Driller:D. Watson Rig Type:Rotary mud
Easting:251489 Northing: 6533705 (AGD 94) Cored from: Diameter:.mm
Elevation: -m Total Depth: 204 metres Open Hole from 0 to 204m Diameter: 130mm
Logged: 18/11/06 Sampled: 18/11/06 Borehole Medium: Water, bentonite

Geophysical

Date logged: Company:
Logger: Depth logged:
Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

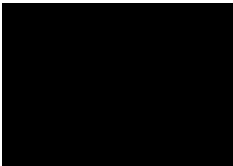
Poor recovery from 192m, EOH @ 205m mechanical failure.



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR P11-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	14.00	14.00				Y	Soil			brown		Silty
R2		Qua		14.00	16.00	2.00				Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, clayey in part
R3		Qua		16.00	26.00	10.00				Y	Soil			brown		Silty, minor gravel throughout
R4		Qua		26.00	30.00	4.00				Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, blue/grey clay in part
R5		Qua		30.00	34.00	4.00				Y	Clay			brown		Silty, minor gravel throughout
R6		Qua		34.00	61.00	27.00				Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, blue/grey clay in part
R7		Qua		61.00	96.00	35.00				Y	Clay		light	brown		Silty, minor gravel throughout
R8		Qua		96.00	107.00	11.00				Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix, hard bands between 98m and 100m
R9		Ter		107.00	120.00	13.00				Y	Sand			beige	F	Loosely consolidated, quartzose, well sorted, minor silty matrix, gravelly @ base
R10		Ter		120.00	152.00	32.00				Y	Clay		red brown	grey yellow		Mottled
R11		Ter		152.00	192.00	40.00				Y	Clay		beige brown	grey yellow		Mottled in part
R12		Ter		192.00	204.00	12.00				Y	Clay		grey	brown		Poor sample return, pressure in hole, END OF HOLE 204m
R13																
R14											EOH: 204m					
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																
R28																



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

Exploration Licence EL 3230

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BOREHOLE FPR H2-2

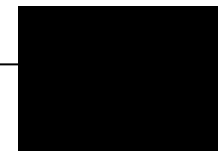
Commenced:19/11/06 Completed: 20/11/06 Drilled by: Watson Drilling
Geologist: N. Kennedy Sampled by: R. Williams Driller:D. Watson Rig Type:Rotary mud
Easting:247004 Northing: 6518103 (AGD 94) Cored from: Diameter:.mm
Elevation: -m Total Depth: 245 metres Open Hole from 0 to 245m Diameter: 130mm
Logged: 23/11/06 Sampled: 20/11/06 Borehole Medium: Water, bentonite

Geophysical

Date logged: Company:
Logger: Depth logged:
Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

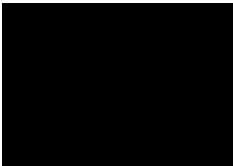
Lost circulation problems @ 60m, refusal @ 245m EOH.



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR H2-2

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	8.00	8.00				Y	Soil		light	brown		Silty matrix, loosely consolidated
R2		Qua		8.00	11.00	3.00				Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments
R3		Qua		11.00	16.00	5.00				Y	Silty Clay		light	brown		Minor gravel throughout
R4		Qua		16.00	18.00	2.00				Y	Gravel		grey	brown	C-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments
R5		Ter		18.00	26.00	8.00				Y	Silty Clay		light	brown		Minor gravel throughout
R6		Ter		26.00	30.00	4.00				Y	Clay		red	brown		
R7		Ter		30.00	36.00	6.00				Y	Sandy Clay		red	beige		
R8		Ter		36.00	44.00	8.00				Y	Clay		red	brown		
R9		Ter		44.00	48.00	4.00				Y	Clay			grey		mottled red @ base
R10		Ter		48.00	130.00	82.00				Y	Clay		grey	brown red		Mottled, minor gravel bands
R11		Ter		130.00	160.00	30.00				Y	Clay		red	brown		Mottled, silty in part
R12		Ter		160.00	182.00	22.00				Y	Clay		grey	brown		Mottled, sandy @ base
R13				182.00	245.00	63.00				Y	Clay		light	grey		Minor red mottling, minor silty bands, END OF HOLE 245m
R14																
R15											EOH: 245m					
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																
R28																



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

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BOREHOLE FPR P7-1

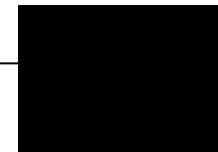
Commenced:21/11/06 Completed: 22/11/06 Drilled by: Watson Drilling
Geologist: N. Kennedy Sampled by: R. Williams Driller:D. Watson Rig Type:Rotary mud
Easting:249425 Northing: 6558980 (AGD 94) Cored from: Diameter:.mm
Elevation: -m Total Depth: 275 metres Open Hole from 0 to 275m Diameter: 130mm
Logged: 24/11/06 Sampled: 22/11/06 Borehole Medium: Water, bentonite

Geophysical

Date logged: Company:
Logger: Depth logged:
Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

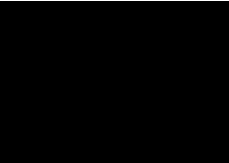
Rig capacity 275m EOH.



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR P7-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	13.00	13.00				Y	Soil		light	brown		Silty, minor gravel
R2		Qua		13.00	22.00	9.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R3		Qua		22.00	31.00	9.00				Y	Gravelly Clay		grey	brown		
R4		Qua		31.00	32.00	1.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R5		Qua		32.00	51.00	19.00				Y	Gravelly Clay		grey	brown		Minor gravel throughout
R6		Ter?		51.00	66.00	15.00				Y	Clay			brown		Gravel band @ 60m
R7		Ter?		66.00	74.00	8.00				Y	Clay		red	brown white		mottled
R8		Ter?		74.00	78.00	4.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R9		Ter		78.00	92.00	14.00				Y	Clay		red	brown white		mottled in part, silty in part
R10		Ter		92.00	95.00	3.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R11		Ter		95.00	100.00	5.00				Y	Clay		red	brown white		mottled
R12		Ter		100.00	110.00	10.00				Y	Sand		beige	brown	F-C	Loosely consolidated, quartz lithic, moderately sorted, minor silty matrix, gravel throughout
R13		Ter		110.00	114.00	4.00				Y	Clay		red	brown white		mottled
R14		Ter		114.00	116.00	2.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R15		Ter		116.00	132.00	16.00				Y	Clay		red	brown white		mottled
R16		Ter		132.00	186.00	54.00				Y	Clay		beige red	brown purple		mottled, silty in part
R17		Ter		186.00	240.00	54.00				Y	Sand		white	grey	F-C	Moderately consolidated, quartzose, well sorted, white clay (calcareous?) matrix, coarser @ top
R18		Ter		240.00	266.00	26.00				Y	Clay		beige grey	white yellow		mottled in part
R19		Ter		266.00	275.00	9.00				Y	Sand		white	beige	F-M	Poor sample return, white clay (calcareous?) matrix, END OF HOLE 275m
R20																
R21											EOH: 275m					
R22																
R23																
R24																
R25																
R26																
R27																
R28																



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

Exploration Licence EL 3113

Page 1 of 2

BOREHOLE FPR P7-2

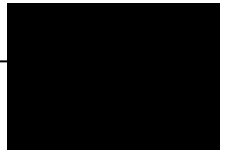
Commenced:23/11/06 Completed: 25/11/06 Drilled by: Watson Drilling
Geologist: N. Kennedy Sampled by: R. Williams Driller: S. Nichols Rig Type:Rotary mud
Easting:246065 Northing: 6567226 (AGD 94) Cored from: Diameter:.mm
Elevation: -m Total Depth: 275 metres Open Hole from 0 to 275m Diameter: 130mm
Logged: 24/11/06 Sampled: 23-25/11/06 Borehole Medium: Water, bentonite

Geophysical

Date logged: Company:
Logger: Depth logged:
Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

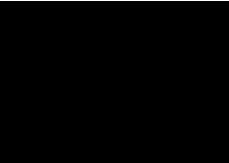
Rig maintenance problem, logged to 189m, sampled to 275m EOH.



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR P7-2

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	78.00	78.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, subrounded to angular rock fragments, minor silty/clay matrix, mottled red/brown clay @ 70m to 72m
R2		Ter		78.00	128.00	50.00				Y	Clay		light red	grey brown		mottled in part, sandy in part, minor gravel
R3		Ter		128.00	140.00	12.00				Y	Clay		light red	grey beige		varicoloured, minor coal fragments @ 134m, minor carbonaceous bands between 134m and 140m
R4		Ter		140.00	160.00	20.00				Y	Clay		light red	grey brown		mottled
R5		Ter		160.00	189.00	29.00				Y	Clay		white red	purple brown		mottled
R6		Ter		189.00	275.00	86.00				Y	Not logged					No carbonaceous material, END OF HOLE 275m
R7																
R8																
R9											EOH: 275m					
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																
R28																



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

Exploration Licence EL 3212

Page 1 of 2

BOREHOLE FPR LC4-1

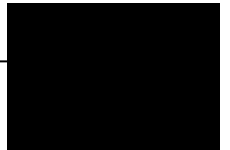
Commenced:26/11/06 Completed: 26/11/06 Drilled by: Watson Drilling
Geologist: N. Kennedy Sampled by: R. Williams Driller: S. Nichols Rig Type:Rotary mud
Easting:780616 Northing: 6661830 (AGD 94) Cored from: Diameter:.mm
Elevation: -m Total Depth: 69 metres Open Hole from 0 to 69m Diameter: 130mm
Logged: 15/12/06 Sampled: 26/11/06 Borehole Medium: Water, bentonite

Geophysical

Date logged: Company:
Logger: Depth logged:
Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

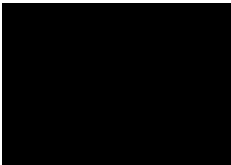
Rig refusal @ 69m EOH.



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR LC4-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	2.00	2.00				Y	Soil		red	brown		Silty
R2		Qua		2.00	6.00	4.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, subrounded to subangular rock fragments, silty matrix
R3		Prot?		6.00	18.00	12.00				Y	Clay		brown red	grey yellow		mottled, weathered basement
R4		Prot?		18.00	22.00	4.00				Y	Quartzite?/Dolomite?		light	grey		
R5		Prot?		22.00	38.00	16.00				Y	Clay		yellow	beige		
R6		Prot?		38.00	58.00	20.00				Y	Clay		pink	grey		
R7		Prot?		58.00	69.00	11.00				Y	Clay		blue	grey		Hard @ base, rig refusal, END OF HOLE 69m
R8																
R9											EOH: 69m					
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																
R28																



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

Exploration Licence EL 3231

Page 1 of 2

BOREHOLE FPR LC3-1

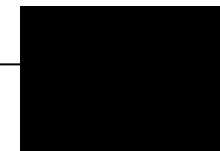
Commenced:27/11/06 Completed: 27/11/06 Drilled by: Watson Drilling
Geologist: N. Kennedy Sampled by: R. Williams Driller: S. Nichols Rig Type:Rotary mud
Easting:226720 Northing: 6664158 (AGD 94) Cored from: Diameter:.mm
Elevation: -m Total Depth: 81 metres Open Hole from 0 to 81m Diameter: 130mm
Logged: 15/12/06 Sampled: 27/11/06 Borehole Medium: Water, bentonite

Geophysical

Date logged: Company:
Logger: Depth logged:
Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

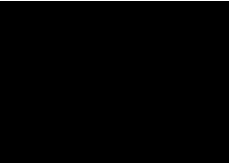
Rig refusal @ 81m EOH.



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR LC3-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	1.00	1.00				Y	Soil			brown		Silty
R2		Qua		1.00	4.00	3.00				Y	Gravel		grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R3		Prot?		4.00	10.00	6.00				Y	Siltstone		light	grey		
R4		Prot?		10.00	16.00	6.00				Y	Siltstone		brown grey	purple yellow		Limonic @ top, Fe staining towards base, ironstone band @ base
R5		Prot?		16.00	81.00	65.00				Y	Siltstone		brown light	purple grey		Minor limonic staining, hard @ base, rig refusal, END OF HOLE 81m
R6																
R7											EOH: 81m					
R8																
R9																
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																
R28																



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

Exploration Licence EL 3114

Page 1 of 2

BOREHOLE FPR LC3-2

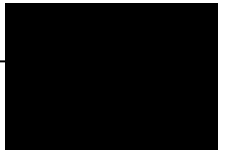
Commenced:28/11/06 Completed: 28/11/06 Drilled by: Watson Drilling
Geologist: N. Kennedy Sampled by: R. Williams Driller:S. Nichols Rig Type:Rotary mud
Easting:227781 Northing: 6661050 (AGD 94) Cored from: Diameter:.mm
Elevation: -m Total Depth: 93 metres Open Hole from 0 to 93m Diameter: 130mm
Logged: 15/12/06 Sampled: 28/11/06 Borehole Medium: Water, bentonite

Geophysical

Date logged: Company:
Logger: Depth logged:
Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

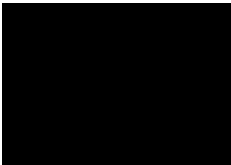
Rig refusal @ 93m EOH.



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR LC3-2

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	2.00	2.00				Y	Silty soil		white	beige		gypsum throughout
R2		Prot?		2.00	4.00	2.00				Y	Siltstone		grey	brown		
R3		Prot?		4.00	9.00	5.00				Y	Siltstone		red	brown		Fe staining, pink mottling in part
R4		Prot?		9.00	26.00	17.00				Y	Siltstone		light	grey		
R5		Prot?		26.00	52.00	26.00				Y	Siltstone		mid	grey		
R6		Prot?		52.00	56.00	4.00				Y	Siltstone		mid	grey beige		clayey
R7		Prot?		56.00	70.00	14.00				Y	Siltstone		light	grey		pink mottling throughout
R8		Prot?		70.00	74.00	4.00				Y	Siltstone		light	grey pink		
R9		Prot?		74.00	88.00	14.00				Y	Siltstone		light	grey beige		limonitic staining increasing to base
R10		Prot?		88.00	93.00	5.00				Y	Siltstone		blue	grey		Hard @ base, rig refusal, END OF HOLE 93m
R11																
R12											EOH: 93m					
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																
R28																



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

Exploration Licence EL 3231

Page 1 of 2

BOREHOLE FPR LC3-3

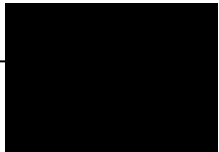
Commenced:29/11/06 Completed: 29/11/06 Drilled by: Watson Drilling
Geologist: N. Kennedy Sampled by: R. Williams Driller:S. Nichols Rig Type:Rotary mud
Easting:226259 Northing: 6668337 (AGD 94) Cored from: Diameter:.mm
Elevation: -m Total Depth: 95 metres Open Hole from 0 to 95m Diameter: 130mm
Logged: 15/12/06 Sampled: 29/11/06 Borehole Medium: Water, bentonite

Geophysical

Date logged: Company:
Logger: Depth logged:
Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

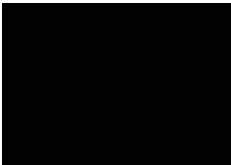
Rig refusal @ 95m EOH.



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR LC3-3

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	1.00	1.00				Y	Soil			brown		Silty
R2		Qua		1.00	6.00	5.00				Y	Gravel		grey	brown	M-B	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix, calcrete @ top
R3		Prot?		6.00	25.00	19.00				Y	Siltstone		light	grey beige		Minor gravel, mottled in part, Fe staining @ 20m, limonitic staining throughout
R4		Prot?		25.00	42.00	17.00				Y	Siltstone		red	grey brown		mottled in part
R5		Prot?		42.00	51.00	9.00				Y	Siltstone		beige	grey		
R6		Prot?		51.00	90.00	39.00				Y	Siltstone			grey		clayey @ 64m to 70m
R7		Prot?		90.00	95.00	5.00				Y	Siltstone		blue	grey		Hard @ base, rig refusal, END OF HOLE 95m
R8																
R9											EOH: 95m					
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																
R28																



Rank Geological Services - Field Logging Title Sheet

CLIENT Flinders Power

PROJECT – Regional Coal

Exploration Licence EL 3124

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BOREHOLE FPR LC1-1

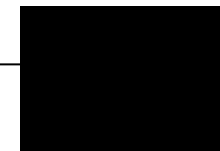
Commenced:29/11/06 Completed: 30/11/06 Drilled by: Watson Drilling
Geologist: N. Kennedy Sampled by: R. Williams Driller:S. Nichols Rig Type:Rotary mud
Easting:228039 Northing: 6680788 (AGD 94) Cored from: Diameter:.mm
Elevation: -m Total Depth: 159 metres Open Hole from 0 to 159m Diameter: 130mm
Logged: 15/12/06 Sampled: 30/11/06 Borehole Medium: Water, bentonite

Geophysical

Date logged: Company:
Logger: Depth logged:
Probes: Gamma, Neutron, Dual Density, Caliper

Comments:

Rig refusal @ 159m EOH.



RANK GEOLOGICAL SERVICES - FIELD LOGGING SHEET

BOREHOLE FPR LC1-1

Row#	DRILL RUN	STRAT	SEAM NAME	TOP metres	BASE metres	THICKN metres	SEAM#	SMPL PLY#	CORE rec%	CHIP Y/N	LITHOLOGY	INTER BED %	SHADE	COLOUR	GR/SZ	COMMENTS
R1		Qua		0.00	5.00	5.00				Y	Soil	50%		brown		Silty, ferruginous
R2											Gravel	50%	grey	brown	M-P	Loosely consolidated, poorly sorted, rounded to subangular rock fragments, silty matrix
R3		Prot?		5.00	36.00	31.00				Y	Siltstone		light	grey		
R4		Prot?		36.00	159.00	123.00				Y	Siltstone/(metasediment?)		light	blue grey		Uniform, sandy @ base, rig refusal, END OF HOLE 159m
R5																
R6											EOH: 159m					
R7																
R8																
R9																
R10																
R11																
R12																
R13																
R14																
R15																
R16																
R17																
R18																
R19																
R20																
R21																
R22																
R23																
R24																
R25																
R26																
R27																
R28																

**BABCOCK & BROWN
POWER**

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A Babcock & Brown Power Company
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T +61 8 8372 8600 · F +61 8 8372 8610 · www.bbpower.com
Registered Office: 168 Greenhill Road · Parkside SA 5063



2 September, 2008

Mineral Resources Group Records Officer
PIRSA
GPO Box 1671
Adelaide SA 5001

Dear Sirs,

AMALGAMATED ANNUAL TECHNICAL REPORT
LEIGH CREEK CORRIDOR PROJECT
12 MONTH PERIOD TO 1 NOVEMBER 2007
EL'S 3113, 3213, 3223, 3230, 3514, 3588

We wish to confirm that there is no data to report for the above period.

Note that we previously requested (7 August 2007) that EL's 3514 and 3588 be added to our Amalgamated Technical Report for this project and presume that this has been approved. Should this not be the case please advise and we will issue separate Technical reports for these EL's.

Should you have any further queries please contact the undersigned on phone 8372 8662.

Yours sincerely

Robert Williams
Senior Sustainability Engineer
Babcock & Brown Power

**BABCOCK & BROWN
POWER**

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Registered Office: 168 Greenhill Road • Parkside SA 5063



19 November, 2008

Mineral Resources Group Records Officer
PIRSA
GPO Box 1671
Adelaide SA 5001

Dear Sirs,

AMALGAMATED ANNUAL TECHNICAL REPORT
LEIGH CREEK CORRIDOR PROJECT
12 MONTH PERIOD TO 1 NOVEMBER 2008
EL'S 3113, 3213, 3223, 3230, 3514, 3588

We wish to confirm that there is no data to report for the above period.

Should you have any further queries please contact the undersigned on phone 8372 8662.

Yours sincerely

Robert Williams
Senior Sustainability Engineer
Babcock & Brown Power

**BABCOCK & BROWN
POWER**



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Registered Office: 168 Greenhill Road · Parkside SA 5063

12 November, 2009

Mineral Resources Group Records Officer
PIRSA
GPO Box 1671
Adelaide SA 5001

Dear Sirs,

**AMALGAMATED ANNUAL TECHNICAL REPORT
LEIGH CREEK CORRIDOR PROJECT
12 MONTH PERIOD TO 1 NOVEMBER 2008
EL'S 3113, 3213, 3223, 3230, 3514, 3588 and 4223**

We are seeking your approval to include recently granted EL 4223 into the amalgamated reporting program for the Leigh Creek Corridor Project. We presume that this satisfies our Technical Reporting obligations for this EL and accordingly report as follows.

1. We wish to confirm that there is no data to report for the above period.
2. The company has reviewed the project and has taken the decision to terminate the project at this time with no further fieldwork anticipated.
3. While several EL's have expired EL 3514 and 4223 remain current however BBP authorises the release of all technical data relating to all of the EL areas, past and present covered by this amalgamated report.

Should you have any further queries please contact the undersigned on phone 8372 8662.

Yours sincerely

**Robert Williams
Senior Sustainability Engineer
Babcock & Brown Power**