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ELLIS, G.K. and BRUNT, D.A. 1974.

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REPORT ON

RELINQUISHED PORTIONS OF

E.L.121 (BEEFSTEAK DAM)



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by

G.K. ELLIS & D.A. BRUNT

LEASE DETAILS

E.L.121 was granted to Mines Administration Pty. Ltd., Teton Exploration Drilling Co. Pty. Ltd. and Carpentaria Exploration Co. Pty. Ltd. on the 7th January 1974. It was held continuously by those companies until 6th January 1975 when the eastern and western portions of the area were relinquished. E.L.121 covered an area of 524 square kilometres in the area approximately 20 km north of Cockburn, South Australia. The location of the area and the two relinquished portions are shown on the attached portion of the Curnamona 1:250,000 Sheet (Fig.1).

The lease covered exploration for all minerals, however sedimentary uranium was the prime target. In this project Mines Administration Pty. Ltd., was acting for a Joint Venture with Teton Exploration Drilling Co. of Wyoming, U.S.A. (33.1/3%) and Carpentaria Exploration Co. Pty. Ltd. (33.1/3%).

GEOLOGY

E.L.121 is located in the south-eastern corner of the Mesozoic-Tertiary Frome Embayment, portion of the Great Artesian Basin.

Proterozoic

Proterozoic rocks do not outcrop on E.L.121; however outcrops of granite and folded metasediments of the Olary Ranges outcrop to the south and west. Weathered Proterozoic granites, schists and metasediments were encountered in drill holes unconformably underlying Tertiary strata.

Cretaceous

Although no Cretaceous strata were encountered in the areas, similar sediments on the adjoining Exploration Licences are considered to be

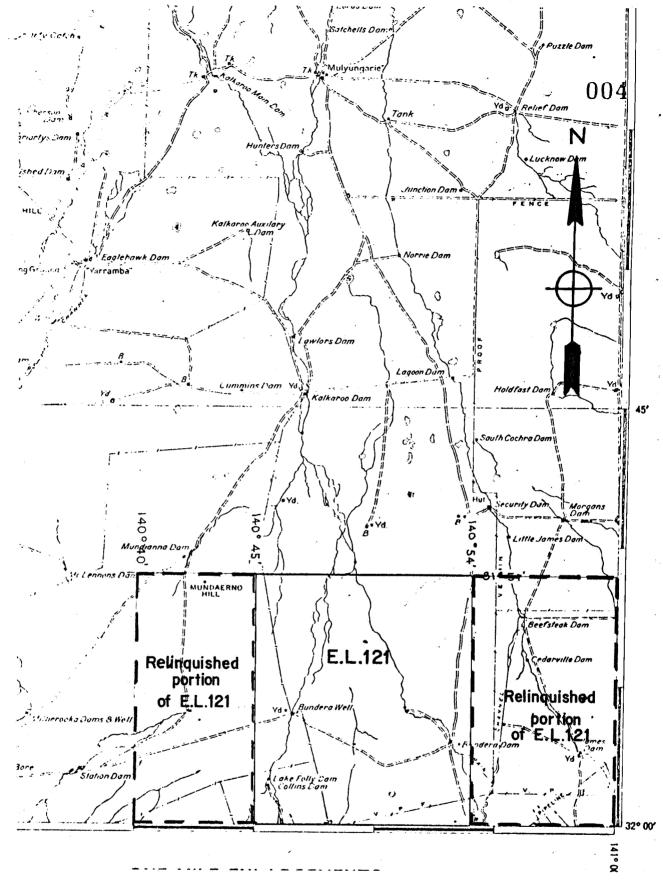
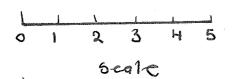


Fig.1 LOCATION MAP E.L. 121

Showing relinquished portions of the area



Scale 1:250,000

of Cretaceous age and representative of the Maree Formation. Typically marine Cretaceous clays were deposited in "lows" upon the Proterozoic palaeosurface.

Cainozoic

A Lower Tertiary channel sequence similar to that of the palaeochannel developed on the adjoining Exploration Licences is present. In general an upper channel section from 70-95 metres consists of white, yellow and mottled sandy silts with interbedded kaolinitic clays. A lower channel section from 95-120 metres consists of pale yellow to orange, fair to well sorted, medium to coarse grained quartzose sands with increasing grain size towards the base. The sands are oxidized throughout with moderate to strong yellow limonite alteration in parts, and contain no pyrite.

The channel sequence is disconformably overlain by lacustrine clays and silts of the Miocene Etadunna Formation, which in turn is overlain by Quaternary sands, silts and clays.

EXPLORATION

Exploration over E.L.121 fell into two categories:-

- : Resistivity survey.
- : Rotary drilling programme.

Resistivity Survey

During February 1974 a surface resistivity survey was conducted over portions of E.L.121. The work was carried out by Murdoch Geology and Geophysics Pty. Ltd. of Glen Innes, New South Wales, and was aimed at locating extensions to Tertiary palaeochannels occurring on the adjoining Exploration Licences.

The survey comprised four predominantly east-west profiles, each consisting of detailed Schlumberger Array soundings at intervals of 2 km along each line, with rapid 2 point Schlumberger soundings at intervals of $\frac{1}{2}$ km. All sounding were expanded parallel to the traverse

line. For detailed soundings, 14 different electrode spacings were used ranging from 6.5 m to 320 m. Rapid sounding readings were taken at electrode spacings of 130 m and 320 m. The location of the various profiles (Lines 9, 10, 11 and 14) are marked on the attached map (Fig.2).

Interpretation of the results indicated the presence of two Tertiary palaeochannels (see map showing Interpreted Tertiary Palaeogeography - Fig. 2).

Drilling Programme

The areas of possible Tertiary palaeochannels delineated by resistivity survey were the targets of the drilling programme. A total of 13 holes were drilled for an aggregate depth of 1,142.2 metres.

The work was carried out by W.L. Sides and Son of Clayton, Victoria, using a Mayhew 1000 rotary drilling rig. Cuttings samples were collected and described at 1.5 m intervals from the surface to total depth. All holes were logged for gamma ray, resistivity and spontaneous potential by Geoscience Associates (Australia) Pty. Ltd. of Kilkenny, South Australia.

Drilling on Resistivity Lines 9, 11 and 14 confirmed the presence of a Tertiary palaeochannel at 22,500E, 6,000E and 4,000E respectively (see Fig.2). Drill holes BD-3 and BD-6 on Line 9 outlined a channel approximately 1.3 km wide and up to 50 metres thick, with the top of the channel occurring at 70 metres. No anomalous radioactivity is present.

A similar channel section occurs on Line 11, although the sand section is thicker and the channel is wider. The sand is oxidised throughout and no anomalous radioactivity was detected. Drill hole BD-14 to the north of Cedarville Dam penetrated a similar but thinner sand section and appears to be located towards the margin of the palaeochannel.

The section penetrated on Line 14 consists essentially of kaolinitic clays and silts similar to the upper channel section present to the north. Sand was penetrated only in BD-10 located in the middle of the

resistivity-defined channel. All holes are radiometrically barren.

Drill hole BD-16 and nearby MH-2 (drilled by Mines Administration Pty. Ltd. in 1971 on SML.612) near the eastern end of Line 9 penetrated a thick kaolinitic clay-silt section overlying weathered Proterozoic metasediments (BD-15A was abandoned at shallow depth due to lost circulation). It is apparent the channel system does not extend into this area.

Composite lithology-geophysical logs of the 13 drill holes accompany this report.

CONCLUSIONS

A palaeochannel system incised into Proterozoic metamorphic and igneous rocks exists in a north-south direction through the eastern portion of E.L.121. The stream gradient was apparently towards the north. All sands are oxidised throughout, and no anomalous radioactivity is present. No well defined palaeochannels are indicated in the western portion of the area.

G.K. ELLIS & D.A. BRUNT

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Attachments: - Fig.1 - Location Map (1:250,000)

Fig.2 - Interpreted Tertiary Palaeogeography.

Composite logs of drill holes.

MINAD TETON - AUSTRALIA HOLE SIZE 434 MAIR WATER HOLE NO. BD-3 PROJECT BEEF STEAK DAM LOCATION: 4/45 9 22506 LOGGED BY Co. K. ELLIS DATE 10-7-74 MAP BEEFSTERK DAIN 127m T.D. 127.50m RD. SCALE 1:50,000 008 OR RADIOACTIVITY DEPTH STRIP LITHOLOGY LOG , SL CAIC SOIL , MOD BRY BECOMME CLAYEN CORPYISH GRAL-MOD BRN. SAND GREY CLAY FIRM

CLAYET RE CALCARDUS

GREY BRY CLAY FIRM KID BAN SOIL , CLANBY RED BEN - GPEN - GRA CLAY , FIRM RED BEN SHINDY SOIL BECOMING CLAYEY KEUBBELL WELL GAN CLAY BECONING SILTY _,,, **u** -_ . . N—---27.0-30.0 LIGHT GROVERN STAND, UFG - MOR SUBBING -SUBBIND YELLOW-GENT CLAN - LIGHT SHEN CLAY BECOMES & SILY/ MID FIRM. VAMICOLOGICA CLAY (GRY - YELLOW AND RED) LIGHT OREN CLAY WITH AND MOTTUNG . URY FIRM CIKY- BUICK CARB CLAY TIBIN-BOFT . OK- LY GREY CLAY PILLDERY . BECOMINE - MI CHILTOUS LIGHT GY - PINS PRODIST CAPY. LIGHT GY - PHIS KEDDISH CLAY 66.0m PALK YELLEL - LIMITE" SILTY . CALC CLAY , SOFT V. SL SANDY ala ala BLE ala SE ORIDISHO - S- RES MISTELING-PALE VELLOW WHIT CLAY A/A. a's a/a 100.5 SAND FN - CASE GR. MO-SUBEND, PR SORT
ON DESCRIPTION OF ALINEVAL STRING) TR PUSCOUTE, TR HACHATITE
TO PROCEED CHARGEMENTS - SUR E/1 - 548/1) FAIR- GOOD SURTING FAIL PRIOR TO DYIDISED SI FARLINGE O'A , S.E. AVERCODES 124.55 AVEN - CLES OR FAME SORT NESS . GORY - NO ERMY -PE? P.D. 12711 PRECAMBRIAN BASEMENT?
DRILLING DE MITTING DUE TO VERY HARD DOCK AIR DRILLING 0-100,5 INATER ... 1005 - TD.

MINAD TETON - AUSTRALIA PROJECT. BEEFSTEAK DAM HOLE SIZE 12 cm. WATER HOLE NO. BD-4. LOGGED BY D. BRUNT DATE 10-7-74 LOCATION: Line9 23000 E T.O. 99.0 m. RD. 98.6 M SCALE 1:50,000 B. DAM air to gom. ALYSIS OF RADIOACTIVITY, DEPTH STRIP LITHOLOGY LOG 0-30 clay of sitt, and to die red, reddish brown, med. soft, sitty, tr.fr. sand, strongly oxidized 30-42 clay, mottled, variegated, lx. brown, md. rea, Bt. grey, mod. hd, brittle 42-48 as, more red, (maroon) of Otrophey. 48-58.5 clay of silt, white, clean shightly greesy of Kale-like Hadlinte? day, sity, ex. red to ad. yellowish brown, soft, slightly keelinitie 72-87.65:178 clay, pale to lt gellowish brown, soft, keelintee (weathered?)
timonite alteration 11 · weathered precambrian becoment
224Kered granile, Ct-dk arangy grey, md-cee sand, A-subl,
Strong Impossible alteration of the boundaries afteration
on 75% grains, the kaplimite of altered feldspar,
mad bed, harder at depth, V. hard at 99m.
drilling ceased. 87.6-99 ? weathered precambrian bacoment weathered granite, Ct-dk arangy gray, TD.

PROJECT BEFSTEAK DAM HOLE SIZE 134 (Uch) WAIR WWATER LOCATION: Resistivity line 9 22750€ LOGGED BY G.K. BLLIS MAP BEFFSTEAK DAM SCALE 1:50,000 ANALYSIS OR RADIOACTIVITY DEPTH STRIP LITHOLOGY LOG LIGHT REDDISH & P.H. BURRYS SAND FG - VCCF, SUBRND-RNE POOR - PAIR SORTING, RED HAEHATITE STAINING. GREEN GY - RED MOTTLED CLAYS ROD CLAYS SOL GROUND GRO-YELLOW CLAY RELIENTE: HELL BUIL one or necessary DED BEN CLAYET SOIL ala combine to GAN. COUNT CLAY , FIRM ala BUT MORE MOTTLED (GREEN GREY , RED BUN) SFT SLISHERY a/aala becoming V soft 49.5 DK CV-BILL - BLACK CARBONACEOUS CLAY ala with some fragments of coal (black and firm) ala becoming more clayey, grey bon - white -> SAND fg-mg, seb and poor sorting to hammalite , leading meathered fells at gras becoming eise !kaplimitic Limital staining Univergenout) gradual decrease in day content 85.5 mgr, subang-subrand, fair-god suiting liminate staining d to cree in point 2/3 17/1 more clayer thousands oxidation 107.5

HOLE SIZE 44 (12 (M) DAIR WHATER HOLE NO. BD-7 ; PROJECT REEFSTEAK DAM LOCATION: Resistivity line 11 5500 € LOGGED BY G.K.ELLIS DATE 11 -7-74 ELEVATION _ HAP BEEFETEA DAM SCALE 135 0,000 T.D. //85m _ 80.__*[18.0...* ALYSIS OR RADIOACTIVITY DEPTH STRIP LITHOLOGY LOG RED BRN CLAVEY SOIL SANDY + SILTY IN PART. RED. BRN - GRY MED. FINE G SAND , SUB ANG-SUB AND , POOR SORTING, QUARTZ GRAINS COATED WITH HAPMATITE GREEN-GARY CLAY (MOTTLED), FIAM RED BAN CLAY (PONDERY)

GRADING TO GREY-CHEEN COMP MID BRN CLAY
SL, SILTY , TA SMIDY GRADIN G TO RED BRIV SILTY - SANDY SOIL WITH INTERBOOKED GARY-GARREN CLAY ala RED BRN SITY FIRM , SL SIFTY , BILTY CLAY GENT-VEILED (EYTY) FRM
TRICALESMACEDOS MATTER TR SANSY ala MOTTLEL GARY-WAYE -- AED CLAY LIMONITIC ACTERATION IN MET. 2/4 CTRADING TO STICKY DK GRAY-BLACK CARBONACEOUS SHILE 58.5 - 68.5 CHICHEROUS CLAY -> CALCRETE! WERE FOR THE SERVE BETTER ALTTER WITH MISSON BRAN WITH SUPPLY SUPPLY STAN GRANNIN TO BE GRET CARNET THEBES FLAY , SEFT GARLY WHITE CLAY SUAT , SE STICKY -7/n 84.0 A FOLS COMMENTE , NUTTE GY, FIAM FLE CAPTURES SALVEY , GLASTE GAS , PIED BR , SYSKND , LIMPANTH CHAINED AND BOWNING (NIX) A - MG SUBAND PAIR-CO SORTING house to be desired to homonitic staning all the conference once exchand there is and substitute for a not seiling Æ? In the side of being over games is long and PRECAMBRIAN very hard, samples increasingly clayey. (* %) ^{*}

MINAD TETÖN - AUSTRALI

MINAD TETON - AUSTRALIA PROJECT BEETSTEAK DAM HOLE SIZE 134 (12cm) MAIR WATER HOLE NO. B.D-8 LOCATION: Resistivity line 11 6250E ELEVATION LOGGED BY G. K.ELLIS DATE 11-7-7-4 MAP LEEFCLENS ONE! T.O. 135 m SCALE 1: 50,000 129.5 m . P.D. 012 IALYSIS OR RADIDACTIVERY DEPTH STRIP LITHOLOGY LOG RED BROWN SOIL Sh. SANDY RED BROWN SAND FG-LASE GR. SUREND-RND POOR JORTHN & REB BROWN CLAY FIRM SL. MOTTLED WITH GREY CEREEN CLAY MORE PONDERY RED BRILLET BEN GANDY BOIL OUTL GALINS HARMATITE CONTINIO, VFG - FG, SUBANO-AND, GO SORTING BELOWING SILTY WITH DEPTH 4/a a/a CLAY RED BRN , 3L CARBONATEOUS GRADINO TO MOTTLED RED BRN - GREEN GRET CLAY GRADING TO GREEN-YELLOW - GREY WHITE CLAY MOTTLED GAN GREN-RED BAN CLAY FIRM a/athe a/aDK GARY OXIDISED ELAY, SOFT - STICKY 57.0 - 61.7 2 IMESTONE OREY WHITE, FINE CRYSTALLINE HARD BRITTLE TA LIMINITE ALTERATION Τ 1 PINK-O-REY SUFF CLAY GRADING TO WHITE OREYSSTICKY SOFT CLAY SILTY IN PART opa aja But interbedged Carbunactors ccay, drordy-blk , LIMPATITE BOIDATION PROJUNT SANDY IN PART BECOMING INCREASINGLY SANDY TRACE LIMENLES WASLINGTIC increasing sometisize - more fain good sorting fig. mg CARID GARY writer , subory, gol sorting ala , to muscourte, increasing limitable statum a/a sample appears yellow gray (54 7/2) to the decorate pass, 5 cel has revisely on eviluation also present ŀŕ Samples increasing and of day . we gy - weathered (57 6/1) 7.0

AUSTRALIA MINAD TETON -PROJECT __ BEEFSTEAK DAM HOLE SIZE 12cm WAIR WWATER HOLE NO. BD-9 LOCATION: LINE 11 LOGGED BY D. BRUNT DATE 13-7-74 ELEVATION _ B. DAM SCALE 1:50,000 T.O. 121.5 M 120.5 m _ R.D.___ ANALYSIS OR RADIOACTIVITY DEPTH STRIP LITHOLOGY LOG 0-6 sore, red-not real, soft alongy, setty of sondy t sand indired med welghed, quarteese, sub A, strong red surpre acidization strong red surpece clay, md. red, soft to mad soft, flaky to compact, 10.5 - 28.4 Adred - reddish brown, soft, frieble. fn-vitaged in upper part, and-cise at base, sub Ang, gtrose, strong red surface oxidation. 28.4-39 clay, St.-md. yellowish brown, mod soft, brittle in parts, u. slightly silty 39-50.2 clay, l. grey, mod. soft, setty of sandy at 40.5-42,5m. 50.2-56.2 clay, dk-nd. grzy, mad soft, tr. carb. metter compact, dense 56.2-62.8 linestone, Or. greenish grey mad hard brittle, conchoids I fracture, micro crystalline, I developed 111 at top of channel section. [calcrete-tike formation] + clay, dkgray, carbonaceous. (2.8-810 clay by gray towhite gyellow soft traclinitic + 5117 white to critellaw, sardy (gtrose) traclinitic strong-nod. Yellow limende staining throughout. 81-90.8 ss. Lx. yellowish grey cse, mod to p. sorted gtrose, Sub A-SubR, pale yellow & creamy white elteration on 2 sty, grains, to orange limente, no Agrice or carb. matter, + inted. clay, tradinitie, white clay white strongly tradinitie, slight-nod y ellow timonite strength from and color med w. sorked, gtoose, sub R, mad-slight limonite alteration, trading limonite, 100,1-121.5 WEATHERED PS. BASEMENT - PORTHERED SHIP upper part sardy, &-nd. orange, brown, notified, 9tz, SuboA,

- subck, strongly oxidized (pt surface oxidiation)

Yor. mica, ignous rock fragments, tr. green hikera!

lower part, day, It brown, u. soft, silly, yellowy orange,

- oxidized strongly, slight to nadarately hard in parts. TD.

MINAD TETON - AUSTRALIA _ HOLE SIZE 43/4 (12cm) MAIR DWATER PROJECT BEEFSTEAK DAN HOLE NO. __BD-10 LOCATION: Resistivity line 14 4500E LOGGED BY CO. K. ELLIS DATE 13-7-74 MAP BEDSTEAK DAM SCALE 1:50000 T.D. 108.3 RD. 106.2 OR RADIOACTIVITY DEPTH STRIP LITHOLOGY LOG RED BRN CLAVEY SOIL MUTTLED IN PART WITH CIRRY CORNUMITE CLAY 0.0-10.5 Soil contains cree sound fraction (milky - chear Quant verse - cree granned, ang, toward harmalite conting 10.5 Yellow-gry clay frin grading to brn and red brn clayey soil Lat 15.0m -16.5m SAND litebon-red, fg-vcg, subang-ang grains anated with hommatile 30.0-320. Ketty-mottled rest brn-green-grey day 39.0 light grey CLAY mothled in part (harmalite staining) 01/1 stuellamish 58.5 CLAY, white-polegy, powdery (kaolinitic?) 54 9/1) 21/2 -74.0
71.5 SAND Hay-white, grate strailly subany-subin, fg-mg fair surting, st knotinitie, havenautile content gras becoming increasingly knotinitie with depth 740 KADUNITIC CLAY, white-com love 8/2) sondy is part gizgrs for each and - and ist, milky. to harmatile starning Gradually becoming more sandy from 82,5 ship forms, subang, hasmatite staring of day a bound 1/ac increasing harmanhle steining with dapth set to 1000, to-mg, But any ang god sorting, bacmarlela staining . Itany-yulon (5/8/1) 106.5 PRECOMBRIAN de green grey clay, soft. Þε

PROJECT BEEFSTEAK HOLE SIZE 12CM WATER HOLE NO. BD-11 LOGGED BY DRUNT DATE 14-7-74 LOCATION: LINE 14 3500 E MAP B. DAM T.D. 95.0 m P.D. 93.1 m. SCALE 1: 50 000 ANALYSIS OR RADIOACTIVITY DEPTH LITHOLOGY LOG 0-6 soil, marred, soft, sandy. schan not red to Br. reddish gray, soft, city 13 6-27 sand, and red to be yellowish brown, soft, sity to r. sity, and-fugad, and to well sorted, subly glasse, strong and been this surface oxida 27- the lo cad soft sitty in parts 34.6-47.8 clay, 14. gellow - yellowish brown, soft, frieide silly. - grades to light namen gray at best 47.8-59.1 clay, while, kaolimitic, setty, safe, fairly pure but Consteins some Sand 59.1 - 90.5 changest, it red to bt. raddish brown, u. soft, prob. pt. but resombles weathered Tertiary. 90.5-95.0 grantewash, and red , case good , poorly sorted , tr. foldspor , (tradinite), biotile rock fragments strong rea haenatihi exidation en gtz. grains.

MINAD TETON -PROJECT _ BEEFSTEAK DAM HOLE SIZE ROM DEIR DWATER HOLE NO. BD-12 LOGGED BY N. BRUNT DATE 14-7-74 5450 E ELEVATION_ LOCATION: LINE IL B.DAM SCALE 1:50,000 1.0. 97m RD. 96.3m ANALYSIS OR RADIOACTIVITY DEPTH STRIP 016 LITHOLOGY LOG 0-9 soil, and red, soft, sift, +clay, and red, sith, slightly sandy 9-18.2 sand, and red, and-fu, mod, w. sorted, gtrose sub-R-sub-A, strongly exidized. 18.2-37.8 siff, and yellowish brown, safe, finable, clayen . 1.11 37.8 - 45.0 day, and red to let. grey, wand soft, comprehed, 45-509 sitt et-nd rad of yellowish brown, had sift, fraible. 50.9-57.7 sit, v. ex. gray to white, soft, prudery, clay, white strongly tradinitic, powdery, tak-like ? PRELAMBRIAN clay of silt, Or-modered greddish brown, U soft, triable sightly taolinitic resembles fessil soil borrison. 92.4-94.3 grante wash, and red-orange, cae and poorly sorted. An grains, to auceouse, bioris y neternorphic rock fragments, strong red talentists axidation and liminate exidation. 94.3-97. weathered pt. melanorphice, et-adbrown, contains muscovile, modam. rock fragments, kaplinitic -harder at depth.

MINAD TETON AUSTRALIA PROJECT BEEFSTEAK DAM ___ HOLE SIZE 4 (UCM) MAIR MWATER HOLE NO. BD-13 LOCATION: Resistivity line 4 5000E LOGGED BY G.K.BLLIS DATE 14-7-74 NAP BEFFSTERS DAM SCALE_1: 50,000 TO 97m 80 95,2m OR RADIOACTIVITY DEPTH STRIP LITHOLOGY LOG **017** PED BEN SOIL GRADING TO RED BEN - GREY MOTILED 60-7.5 SAND red bin, f-veg, subang-ang, fair sorting has matile coulding on grains.

PALE VIELOW TO OPENCE Pondery CLAY BY ALE VISUON TO OPENCY FORESTN. It is gradual increase of 13.5-15 5 SILT MD SANDSTN. It is gradual increase of gradual size from Eilf to ung , Subang , poor to-the-friendly has matilicoating on the ponday-friendly 15.5-35.0 CLAY yellow by we are but ponday-friendly ala ala 39.0-33.5 CLAY It. green gy - red by mothled firm slisilly . ala ala 58.0 CAKAPERUS MUDSTONE, while - pale givey very hard in allow line on the standing, andred by backattele chains 60.5-73.5 white-com KABLINITIC CLAY , of soundy 912, f-mg sub any ware limonite staining 3,5 . Green-yellow clay, al sand righty attend (limonite): muscrite preserved homenatile attended (red by) weathered second (GRANITE?) highty actour

PROJECT BEEFSTEAK HOLE SIZE 12ch DAIR WWATER HOLE NO. BD-14 LOGATION: 1.5km N of Cedarville Dam LOGGED BY DBRUNT DATE 15-7-74 ECEVATION 1 115.5m RD. B. DAM. SCALE 1:50,000 114.4m. AIR TO SEM. OR RADIOACTIVITY DEPTH LITHOLOGY LOG 0-7 soil, not red, soft, sitty, clayey tsand, and red, and for, and, well sorted, gtzese, subA-subA, strong red heenative surface 7-26.2 clay, bt-md reddy reddish brown, soft silky + 55.00 , cse/ gramia. 26.2-39.6 clay, Ct yellowish brown, soft, silty 39.6-58.8 clay lt-mol red (maroan) and lt-dk gray
darker gray at base, mad, soft, compact
?-slightly theolimite, ? tr. curbonaceous matter. 58-8-65.1 clay, and-die gray, compacted + ? line convented clay (calcareous day stone), mod. hd. brittle, sharp, triconchordal fracture 65.1-72.0 calcareous day stone of day, aa. 72.0-84.2 clay, Bt-and. gray, white of yellow, soft, silky. 84.2 - 95.6 clay, lx gray to white yellowish, moderately Keelinitic, silty , tr. line nife atteration 95.6-103.4 clay an + tr. se, ly grey, fund, moder, sorted, grosse, subA-A, tr. yellow limanite but mostly clean inattered, v.clay's sand 103.4-107.4 clay, white, - Graney, soft, tradinition ss, let yellowish grey, cse-vise, mad w. sorted, gloose, Sub A-A, tr. - mad. creamy eyellow alteration on 2040 gns, no pyrik or corbon, tr. muscovite & ? metam. rock fregments. 112,4-15.5 clay who tradinitie, streeks yellow of brown fr. blk. biotice. Land drilling, harder et depth. - probably pt. ? weethered helam. basement,

MINAD TETON - AUSTRALIA PROJECT BEEFSTEAK HOLE SIZE 12cm. WAIR WHATER HOLE NO. BD-15A LOCATION: HWE 9 26500 E LOGGED BY D. RRUNT DATE 16-7-74 MAP B. DAM SCALE 1:50,000 _ RO. _ 50.4 M AiR to 30cm NALYSIS OF PADIOACTIVITY DEPTH STRIP LITHOLOGY LOG [HOLE BO-15 abandoned at 42 m. -lest circulation] 0-1.5 soil, and red, soft, sitty, sandy, trayps um 1.5-21 clay, advised, no of soft, tri gypsum in upper part, sithy tri fine sand strongly oxidized 21-24 sand, not red, not god, mad well sorted to well sorted, 9 trace, sub A-sub A, strong surface oxidation (red haeratite) 24-36 clay, wolrdle. red, mad soft, stufey 36-43 clay lt-und yellow y yellows in brown, soft shicky; perous - probably fractured (bells up)? lost circulation in this zone 43-51 clay, 64-nd. blush grey, gray 8 Bt. red, soft, slightly sticky (balls up) AT SIM. HOLE ABANDONED TD. WABLE TO PENETRATE FURTHER BIT BALLS UP WITH CLAY & LOST CINCULATION

AUSTRA PROJECT BEEFSTEAK DAM HOLE SIZE 134 (12 CM) AIR WATER HOLE NO. BD-16 LOCATION: Resistivity Line 9 272505 LOGGED BY G.K ELLIS DATE 16-7-74 IAP BEFFSTEAK DAN 108.50 SCALE 1: 50,00 0 __ P.D.__ 107,50 LITHOLOGY LOG EB BAN CLAYEY GOIL CHADING TO GREY WHITE CLAY, V, HARD SLSILTY MOTTLED RED BRN-GREY WHITE CLAY 12.0 RED BRN - YELLOW BIRM STICKY SOFT CLAY a/a340 CHOICIAYE BENI CLAY, FIRM, GARY-WHITE CLAY in part GRADING TO GREY CLAY , V PIRM , LIMONITE STAINING cupa but st. mottled with red bun clay. 48.0 GABY WHITE CLM with limonile alteration 52.0 DK GREY CLAY from to hard .
red harmaitile alteration . grading to gran Harry day 65.0 White-gray while CLAY Karlind is Invionile alteration, soft, sticky 66.0.67.5 Agrey bin fand CLAY (calconers ?) brittle. CHAID bandl 67.5 CLAIL - white ropey kaolinitic , very soft PETEROW-GREY, CLAY SUFT, SI, silly show limonate sollies to a dimente becoming stronger with depth alsonar matite alle ation , have me , hace Muscoule queste de trace, ogearte, milley, angular, m-cg (Weathered Basement?) amont & grows increasing with depth.

| ELEVATION | LOCATION: | Resistivity | TETON — AUST | AIR WATER HOLE | |
|--|---------------------|-------------|--|--|---------------------|
| AWALYSIS. LON | RADIO CTIVITY DEPTH | STRIP LOG | | LITHOLOGY LOG | 021 |
| | + DIJ 10" | | Pti Bur' (try for | -1 | |
| 1 3 + 2 + | | 7- 35 FF & | | - Grey Kmar | 734 |
| | | | 11 15 15 15 15 15 15 15 15 15 15 15 15 1 | ing were with the | |
| | 20 | | • | | |
| | | | she of the bit | ere en | GARY-LAND CARA |
| | 30 | | CHADING TO THE | CAS CHAIL | Larger 18 Francisco |
| | | | 9 77 27 | r. / william of time! | |
| 1 2 2 | 40 - | | . F/g | | |
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