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EL 40

STARVATION LAKE

FINAL REPORT TO LICENCE SURRENDER FOR THE PERIOD 22/5/72 TO 22/5/73

Submitted by Chevron Exploration Corp. 1973

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QDH 304.

TENEMENT HOLDER: Chevrons Exploration Corporation.

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CHEVRON EXPLORATION CORPORATION

DEFORET DM 899/72

AREA 2357 Km2

11230.00 PLANS .FROME

ELMO. 40 EXPIRY DATE 21.5.73

FINAL REPORT

E.L. 40

QUINYAMBIE PROSPECT S.A.



P.J.Morgan, May 1973.

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CONCLUSIONS

- 1. The anomaly encountered in QDH 2A was reflected in holes QDH 204, 200, 203, 205, 206 but not in holes QDH 201, 202.
- 2. The anomaly encountered in the area QDH 2 decreased in intensity and magnitude towards both ends of the section QDH 204, 200, 203, 205, 206
- 3. The anomaly encountered in QDH 3A. was not reflected in the surrounding holes QDH 301, 302, 303, 304.
- 4. No other anomalous areas of sufficient magnitude to warrant further investigations were encountered in E.L. 40.

RECOMMENDATIONS

It is recommended that E.L. 40 be relinquished.

1. INTRODUCTION.

The exploration programme on the Quinyambie Prospect (SML 663) South Australia was completed on 31.7.72. A full report setting out in some detail the results of this programme was submitted in October 1972, viz: Report on Regional Exploration Programme SML 663 Quinyambie Prospect, South Australia".

On the 22nd. February 1973 SML 663 was relinquished and E.L.40 was acquired over the same area.

Detailed analysis of drill cuttings from the Tertiary section was carried out in the office. The results of this study together with the results of the 1972 exploration programme lead to a limited "follow-up" drilling programme on two anomalous areas in the south of the E.L.

This report sets out in some detail the results of the work carried out on E.L. 40.

2. LOCATION AND ACCESS

Exploration Licence (EL) 40 of 2355 square kilometers (see Fig.1A.) is located between 30°18' - 31°S and 140°41' - 141°E, being some 77.3 kilometers north to south and 30.6 kilometers east to west, on Quinyambie Station, South Australia, 177 kilometers northnorthwest of Broken Hill. The eastern boundary of the EL parallels the South Australia-New South Wales border fence some 65 kilometers to the east of Lake Frome.

The nearest major commercial centre is Broken Hill (pop. 30,000)

109 kilometers southeast of the southeastern corner of the area.

The shortest practical road route from Broken Hill is some 177

kilometers via Stephen's Creek, Yanco Glen, Corona Station, Lynray

Station, Teilta Station, Avenel Station and Broughams Gate.

The area is serviced weekly by Mr.E.B.G. Shoobridge, Mail Contractor of Broken Hill. Although a number of stations are interconnected by telephone, no link exists to a major network and Mr.E.B.G.Shoobridge provides the only serviced link with Broken Hill.

Most stations, including Quinyambie, Avenel and Pine View, have outpost radios that are connected via regular schedules to the Flying Doctor Radio Base in Broken Hill. Mt.Westwood Station and Floods Creek Station, some 95 road kilometers to the east of the E.L, have radio-telephone links.

All stations have airstrips suitable for light aircraft.

Access throughout the area is good via graded station roads and access roads. These roads were graded by George Johnson Pty.Ltd., to provide access for the drilling contractor.

3. TOPOGRAPHY AND CLIMATE

The E.L.is flat and largely covered by sand dunes. The bedrock surface beneath the dunes has a slight regional fall to the west towards Lake Frome. The dunes are of the longitudinal type, asymetric with the steep side towards the north. They trend east-northeast to west-southwest, with a height of up to 12 meters. Some bifurcation of the longitudinal dunes occurs. Transverse dunes are also present. Generally, the dunes are stabilised by vegetation, although a number of ripple marked, reddish-brown, well sorted migratory sand dunes are present.

The EL is in the 15 cm. annual average rainfall belt.

Permanent water is very scarce in the area. The EL has a number of dams and artesian and subartesian water bores. The bores are usually equipped with large tanks, which are permanently filled.

The summer temperature (January) ranges from 21°C to 38°C while the winter temperature (July) varies from about 4°C to 24°C. Generally the climate is pleasant in winter and unbearably hot in summer, when dust storms and insect plagues are common.

4. SCOPE OF THE INVESTIGATION

From the results of the 1972 Exploration Programme it was apparent that: 1. suitable geological environments for uranium deposition exist within the area and

2. anomalous radioactivity occurred in a number of drill holes.

On this basis it was decided to :

- a) Carry out detailed analysis of drill cuttings from the Tertiary section with the object of identifying and mapping oxidation and reduction indicators and
- b) From 1. and the results of the 1972 project carry out a limited "follow-up" core and open hole drilling project to test the anomalous areas and to determine the magnitude of the anomaly.
- A. The aim of the detailed analysis of the drill cuttings-Laboratory Study- was to determine :-
 - 1.- if substantial variations in the lithologies of the bore holes occurred throughout the area and
 - 2.- if these variations were in any way related to the radioactivity encountered in the bore holes.

For this purpose it was decided to use the following parameters during the study:

- 1. The presence and abundance of pyrite,
- 2. The presence and abundance of limonite,
- 3. The heavy mineral content,
- 4. The presence and abundance of feldspar,
- 5. The content of carbonaceous material,
- 6. The degree of sorting of the sands,
- 7. The sand-clay ratios,
- 8. The lateral radioactivity distribution

All the drill holes were examined in the field during the regional drilling programme by P.J.Morgan and the following holes were examined in some detail by W.R.Hunter:

QDH 1, 2A,2C, 2E, 3, 3A, 3C, 4, 6, 9, 10, 11, 12, 13, 14, 16, 20, 23, 27, 29, 30, 34, 38, 41, 44, 45.

The results of the examination using the above parameters have been summarised below.

- B. The aim of the "follow-up" drilling project was to determine :-
 - 1.- if the radioactivity encountered in the 1972 project was due to uranium, and if so then what concentrations of uranium were present and
 - 2.- if there are extensions to the anomalies.

For this part of the project 3010 feet of open hole drilling and 20 feet of coring was carried out on EL.40.

The results are summarised below.

SECTION II - LABORATORY STUDY

I.INTRODUCTION

During the 1972 drilling project :-

- a) Each 5 foot sample collected during the project was examined in the field with a hand lens and described in as much detail as possible.
- b) Holes QDH 1-6 were examined in the field with a binocular microscope and described in as much detail as possible. Individual samples were sieved. Heavy minerals were panned from individual samples.

During the laboratory studies the following holes were examined in some detail:

QDH 1, 2A, 2C, 2E, 3, 3A, 3C, 4, 6, 9, 10, 11, 12, 13, 14, 16 20, 23, 27, 29, 30, 34, 37, 38, 41, 44, 45.

- a) Each sample from the holes itemised above was examined under a binocular microscope and then re-examined after the sample had been disaggregated in a concentrated Calgon solution.
- b) Due to the lack of variation within each Formation and the poor quality of the samples each 5 foot interval was examined and the results summarised using 50 foot intervals.

The results of the studies have been summarised below and in the figures 1 - 7 attached.

EYRE. FORMANON

2.STRUCTURE TOP OF THE MURNPEOWIE SAND

Before discussing the results of the studies it is necessary to comment on the controlling structure surrounding the mineralised areas i.e. the top of the Murnpeowie Sands (Fig. 1).

In the Quinyambie Prospect two distinct sediment boundaries occur :

- (i) The top of the Murnpeowie Sand Member,
- (ii) The base of the Murnpeowie Sand Member.

Structural contour maps were constructed on both of these boundaries and were presented in an earlier report.

It appears that the top of the Murnpeowie (Fig. 1) may exercise some control over the deposition and related to this, nature of the subsequent sediments, which may in turn be responsible for the position and concentrations of radioactive materials. Consequently this map has been included with the report. However, to view the structure in its right perspective a number of qualifications have been set out below.

The problem with the structural contour map is that the rotary drill holes were levelled with an altimeter giving a topographic map with an accuracy in the order of \pm 7 m. This gives a maximum possible variation of 14 m. between adjacent drill holes. Consequently the structural contour map can only be considered to be a generalisation.

In general the central, northern and southern parts of the prospect are high and a low (channel) bisects the prospect in the central south running NE-SW to almost E-W.

3. SUMMARY OF RESULTS

A. PYRITE

QUATERNARY (DUNE SAND)

- No pyrite observed.

ETADUNNA SAND

- Transition from aggregated pyrite in the southern area below ADH 11 to discrete grains in the northern area.

ETADUNNA - MURNPEOWIE SAND

- No significant variation between the northern and southern areas.
- Pyrite forms Fig. 5

 Studies of the shapes of the pyrite grains in the unnamed unit above the Murnpeowie sand showed that to the north of a line through QDH 10, 11, 12 the pyrite occurred as discrete fine grained euhedral to subhedral crystals. To the south of this line the pyrite occurred as masses of aggregated euhedral to subhedral crystals.

MURNPEOWIE SAND

- increase in aggregate pyrite content in holes north of QDH 12.
- Areas devoid of pyrite Fig. 3

 This map shows the areas where no pyrite was identified in the rotary drilling project. This does not necessarily mean that there was no pyrite present the pyrite may have been too fine grained to be seen with a hand lens. In any event if pyrite did occur in those areas it is rare and very fine grained.

Pyrite was not found in the areas contained by the following holes:-

- a) QDH 3C, 6, 43
- b) QDH 14, 15
- c) QDH 17, 40
- d) QDH 24, 25, 28, 29
- e) QDH 34, 35, 38

B. LIMONITE

Limonite occurs throughout the sequence and shows no significant variations.

C. HEAVY MINERALS

Magnetite occurs throughout the sequence and is present as small discrete crystals. The magnetite content does show a slight increase in the southern areas, south of QDH 10 (Fig.6).

D. FELDSPAR

Absent from most of the holes studied.

E. CARBONACEOUS MATERIAL

Displays a definite trend to increase in the areas north of QDH 10.

This trend is displayed by the Etadunna-Murnpeowie and Murnpeowie sand.

Carbonaceous material is generally absent from the well-sorted Etadunna sand.

Carbonaceous content - includes lignite - Fig. 2

Russiania

This map represents the Eyre Formation below the Etadunna clays. It includes the sand-clay unnamed unit above the Murnpeowie sand and the Murnpeowie sand.

It was not possible to separate these units as lignitic sands frequently occurred in the unnamed sand-clay unit and this contaminated

the Murnpeowie sands below.

Carbonaceous material (lignite generally) increased from :

- a) QDH 5 and QDH 6 to QDH 4
- b) (i) QDH 13, through QDH 14, to QDH 15. (ii) QDH 13, through QDH 14, and QDH 16 to QDH 17 (iii) QDH 42 to QDH 17
- c) QDH 24 through QDH 25 to QDH 29
- d) QDH 36 and QDH 35 to QDH 37.

Except from the area surrounding QDH 4, 5 and 6 the amount of carbonaceous material increased in structural lows at the top of the Murnpeowie sand (Fig. 1).

As a general comment - the areas rich in carbonaceous material were generally devoid of pyrite (Compare Fig.2 and Fig.3).

F. SAND SIZE -SORTING

OUATERNARY

- Poorly sorted, red-brown dune sand.

ETADUNNA SAND

- Well sorted, fine-grained light brown sand.

ETADUNNA - MURNPEOWIE SAND

- Reasonably well sorted, coarser grained than the Etadunna sand, brown-grey colouration.

Sorting - Fig. 4.

Visual estimates of the degree of sorting in the unnamed unit above the Murnpeowie sand showed that the area to the north of a line through QDH 10, 11, 12 was better sorted than the area to the south.

This may indicate a "dumping-ground" in the south by influx of sediments from the south and south-east.

MURNPEOWIE SAND

- Poorly sorted, coarser grained, brown-grey colouration.

G. SAND-CLAY RATIO - Fig. 6

Figure 6 was constructed by taking a 50 metres slice of the sediments above the top of the Murnpeowie Member and calculating the amount of sand and clay in this section. The results are shown in Fig.6.

The sand to clay ratio was generally less than 1.0 although large quantities of sand were encountered in QDH 13 and QDH 29.

In QDH 29, the high sand-clay ratio is due to a very large thickness of Quaternary sand, in the area.

The southern half of the map is in reasonably close agreement with the structural map on the top of the Murnpeowie Member (Fig. 1) indicating that the source of the sediments is probably from the north-east or east (Compare Fig. 1 and 6).

H. MINERALISATION - Fig. 7

Fig.7 shows the relative amounts of radioactivity encountered in the drill holes calculated relative to the gamma probe calibration (i.e. 1.76 lb/ton U₃O₈) in increments of 0.25 lbs/ton U₃O₈. The map is not based on the position in the sequence where the radioactivity was encountered but on the basis of whether or not the hole contained radioactivity.

From the results two holes QDH 2A, 3A, contained more than 1 lb/ton U_3O_8 (relative) and it appears that there is a "radioactivity cell" in the southern area surrounding QDH 2A, 3A, 5 and 44 (possibly including QDH 10, 11, 45).

SECTION III - DRILLING PROGRAMME

1. INTRODUCTION

From the results of the laboratory studies and the 1972 drilling programme it was decided that the only effective way to evaluate the two anomalous areas (around QDH 2A. and QDH 3A.), in the southern part of the E.L., was to undertake a limited programme of infill drilling (45 m. spacing). A minimum of 10 holes and maximum of 23 holes to a depth of 300' was proposed. It was also proposed that the anomalous holes be "twinned" and the anomalous zone cored assayed and spectroscopically analysed to determine the amount and type of radio elements present.

The programme was executed using a Mayhew 1000 operated by W.L.Sides and Sons Pty.Ltd., of Wellington Rd., Clayton, Melbourne, Victoria.

Twelve holes were drilled between 1.5.73 and 7.5.73 for a total footage of 3,010 feet of open hole and 20 feet of core.

A summary of the results of the investigation appear below.

2. GEOLOGY

The target horizons in the drilling programme were the lower sections of the Etadunna Formation and the upper sections of Murnpeowie sand Member. A geological log of each of the bore holes is included in the Appendix.

Etadunna Formation - Tertiary- Docene

The Etadunna Formation varies between 48 metres (157.5') and 121 metres (397') but averages 88 metres (289') in thickness. It is almost flat lying and disconformably overlies the Eyre Formation.

The Formation consists of light-grey to grey unstratified clays to clayey silts and lenses of pale-brown, fine-grained, well sorted sand. Minor dark-grey to charcoal-grey often carbonaceous clays occur in the upper sections, grading into dark-grey to charcoal-grey carbonaceous clays with pale-brown fine-grained well sorted sand lenses and minor light-grey to grey clay and bright blue pyritiferous clays and silts towards the base of the section. Dark-brown to grey, thinly bedded, sandy clays, sandy silts, clayey sands and clayey silts are haphazardly distributed throughout the section.

Murnpeowie Sand Member. - Tertiary-Paleocene to Eocene.

The upper sections of the Murnpeowie Sand Member consists of pale-brown to pale-grey, very fine-grained, well sorted, sub-angular to subrounded quartz sands, or charcoal-grey medium-grained, well sorted, subrounded highly polished, lignitic quartz sands with interbedded dark-grey to charcoal-grey, carbonaceous clays.

The middle and lower sections of the Murnpeowie Sand Member consists of light-grey to grey-brown, very coarse to very fine-grained, poorly sorted, subangular to rounded quartz sand, with very minor interbedded dark-grey clays. The sand varies from hole to hole, but is characterised by containing medium-grained, subrounded, highly polished, clear quartz grains. The grain size varies from a pebbly gravel to a very fine silt and clay. Medium-grained, euhedral fine-grained pyrite crystal aggregates are present in most sections. Fine muscovite flakes and occasional gypsum crystals also occur.

3. STRUCTURE

In general terms, the regional picture is rather simple with a gently dipping basin of Tertiary and Mesozoic rocks. The detailed picture is very complex.

In the area QDH 2 (for details see Section I.) holes QDH 202, 203, 205, 206 have a continuous sand unit in the upper section of the Etadunna Formation while in the lower section of the Etadunna Formation a clayey-sand containing anomalous radioactivity is continuous along the line of section QDH 204, 200, 203, 205, 206. Offset holes QDH 201, 202 do not contain this lithological unit. In general the beds dip gently to the south-east.

In the area QDH 3 (for details see Section II.) the lithological units are continuous showing a very gently dip to the west.

4. MINERALIZATION

(a) Area QDH 2

Anomalous radioactivity occurred along the line of section QDH 204 to 206 at approximately 45 m. in the Etadunna Formation. The intensity and thickness of the radioactive anomaly decreased towards both ends of the section.

Hole QDH 200 was cored from 43.6 m. to 44.4 m. through an anomalous radioactive peak above the main anomaly. No core was recovered through the main anomaly. The core assayed 240 ppm. U_3O_8 over .8 m.

(c) Area QDH 3

Anomalous radioactivity occurred in hole QDH 300 at 85 m. at the top of the Murnpeowie Sand Member. This radioactivity did not occur in the surrounding holes QDH 301, 302, 303, 304.

Hole QDH 300 was cored from 84.9 m. to 85.2 m. through the anomalous radioactive zone. The core assayed 400 ppm U_30_8 over .3 m.

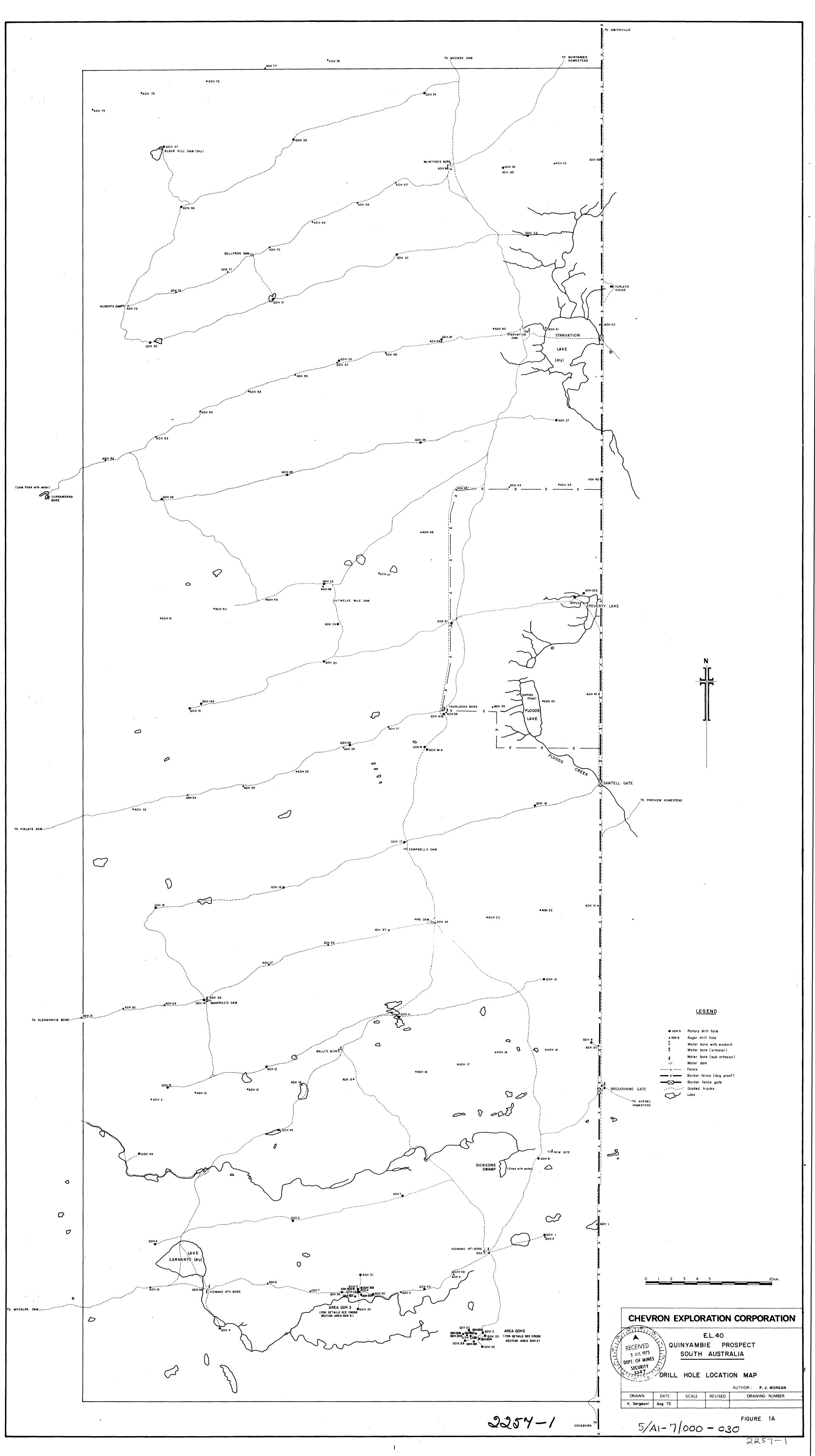
STRATIGRAPHIC COLUMN

	AGE			LITHOLOGY
MESOZOIC	LOWER CRETACEOUS	APTIAN?	(MARE Monot grey intra with stem WINTO	ADATTA FORMATION and BULLDOG SHALL EE FORMATION EQUIVALENT): Tonous sequence of micaceous dull desoft shale and siltstone, grey shall aformational breccia and minor fine thin ironstone beds. Plant leaf and impressions. Upper part may include the property of the property
PROTEROZOIC	ADELAIDEAN		POOLAMACCA GROUP	LADY DON QUARTZITE (? PARALANA QUARTZITE EQUIVALENT) (Pcp):- Cross-bedded purplish-grey quartzite with granule-lenses.

STRATIGRAPHIC COLUMN

	AGE		LITHOLOGY
			Stream bedload and lake deposits (Qrl):- Thin gypsum salt, silty red-brown clay, and sand.
		RECENT	(?) Simpson Sand Equivalent (Qrs):- Reddish brown medium sand of seif dunes, clayey sand with carbonate rhizonodules of dune cores. Yellow-brown gypsiferous dune sand of lake shores. DISCONFORMITY
CAINOZOIC	QUATERNARY		Undifferentiated Pleistocene:- 1. Undifferentiated sands and clays (Qp5). Light-brown and reddish-orange medium- grained well sorted often gypsiferous sand; sandy limestone, fossiliferous limestone, gypsum and diatomite beds; well laminated in the upper part, very weak stratification in the lower part.
		PLEISTOCENE	2. Undifferentiated silicified poorly sorted clays, sands and gravels (Qp8). Light-brown, dark-brown medium to very coarse-grained poorly sorted sands and clays with gravel lenses; minor small and medium-scale cross stratification; minor graded bedding.
		PLE	3. Undifferentiated silicified dune sands (Qp9). Light-brown, yellow-brown, red medium- grained well sorted silicified dune sands; minor poorly developed medium- scale stratification; solution effects.

	AGE		LITHOLOGY
			ETADUNNA FORMATION (Tmd):-
		EOCENE - MIOCENE	Light grey to dark-grey clay with lamellae of silt to very fine sand. Interbeds of fine angular sand and sandy clays. Olive to light-green and grey-clay, often sandy. Vertebrates, ostracods, gastropods, plant remains. Contains hiatus, marked by yellow silicified limestone nodules (in the type section - east of Lake Frome).
		Ĕ	
			EYRE FORMATION. (With MURNPEOWIE MEMBER at base):-
CAINOZOIC	TERTIARY	PALEOCENE - EOCENE	Polished mature fine to coarse quartz sand and dark-grey clay. Milky quartz and jasper pebbles at base, minor lignited and micaceous silt. Silicified coniferous wood, leaf and stem impressions, spores. Minor burrows. Strong palynological hiatus in basal sands of Cootabarlow No. 2 Bore. Upper sand silicified in outcrop. Ferruginous cement and calcrete of younger soil profiles and superimposed in some localities. Murnpeowie Member typified by highly polished medium clear quartz grains and honey-yellow very coarse quartz grains.
			unconformity
1		ł	No. 12



PROJECT : Quingambie . DESCRIBED : P. J.M. DATE : 4-5-73

HOLE NUMBER :

Q0H. 20D. 002.

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PROJECT : Quinyambie
DESCRIBED : P. J. M.

DATE : 4-5-73

HOLE NUMBER :

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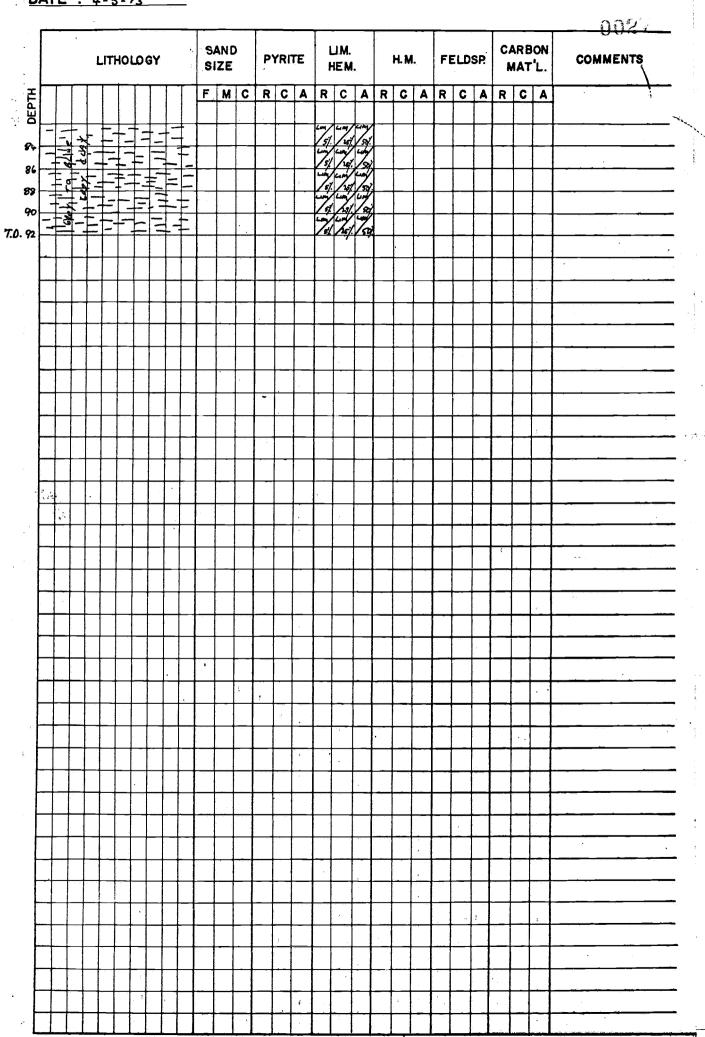
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PROJECT: Quinyambie

DESCRIBED: P.J.M.

DATE: 4-5-73

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PROJECT : Quinyambie

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PROJECT : Quinyambre
DESCRIBED : P.J.M. DATE : 6-5-73

HOLE NUMBER:

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PROJECT : Quintyambie
DESCRIBED : P.S.M. DATE: 3-5-73.

HOLE NUMBER : QOH. 301.

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PROJECT: Quinyambia
DESCRIBED: P. J. M.
DATE: 3-5-73.

HOLE NUMBER:

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PROJECT: Quingambic

DESCRIBED: P.J.M.

DATE: 3-5-73.

HOLE NUMBER:

POH. 302.

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PROJECT: Quinyambre
DESCRIBED: P.J. M.
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HOLE NUMBER:

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PROJECT : Quiny ambie
DESCRIBED : P. J. M

DETE : 3-5-73

HOLE NUMBER:

0037 CARBON LIM. SAND COMMENTS PYRITE FELDSP. H.M. LITHOLOGY MAT'L. HEM. SIZE RCARCARCA RCA M C RCA look souled O 34 38 Minia gyfon xlah Union small gayform

DESCRIBED: P.J. m.

DATE: 3-5-73.

HOLE NUMBER:

QOH. 203 (CONT)

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PROJECT : Quingambie DESCRIBED : P.S.A. DATE: 3-5-73.

HOLE NUMBER : QAH. 304.

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PROJECT : Quingambie

DESCRIBED : P.S.M.

DATE : 3-5-73

HOLE NUMBER:

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SOUTH AUGURALIAN DEPARTMENT OF MINES

GEOLOGICAL SURVEY

YPE OF LOG (S): CHAMMA-RAY, SELF POTENTIAL, POINT RESISTIVITY.

ATE: 5-5-73

TIME: 1145/ 1115 / 1115 /

REA: QUINYAMBIE

LOCATION: Lat.

ELL: QDH 200

LEVATION G.L.: Log from o motres above G.L. Depth Scale: 1cm re

UN NUMBER: 1 / 1 / 1 / 1

ASING SHOE DEPTH (cm): LOG motres DRILL metres TOTAL DEPTH: LOG

DRII

UD: Type

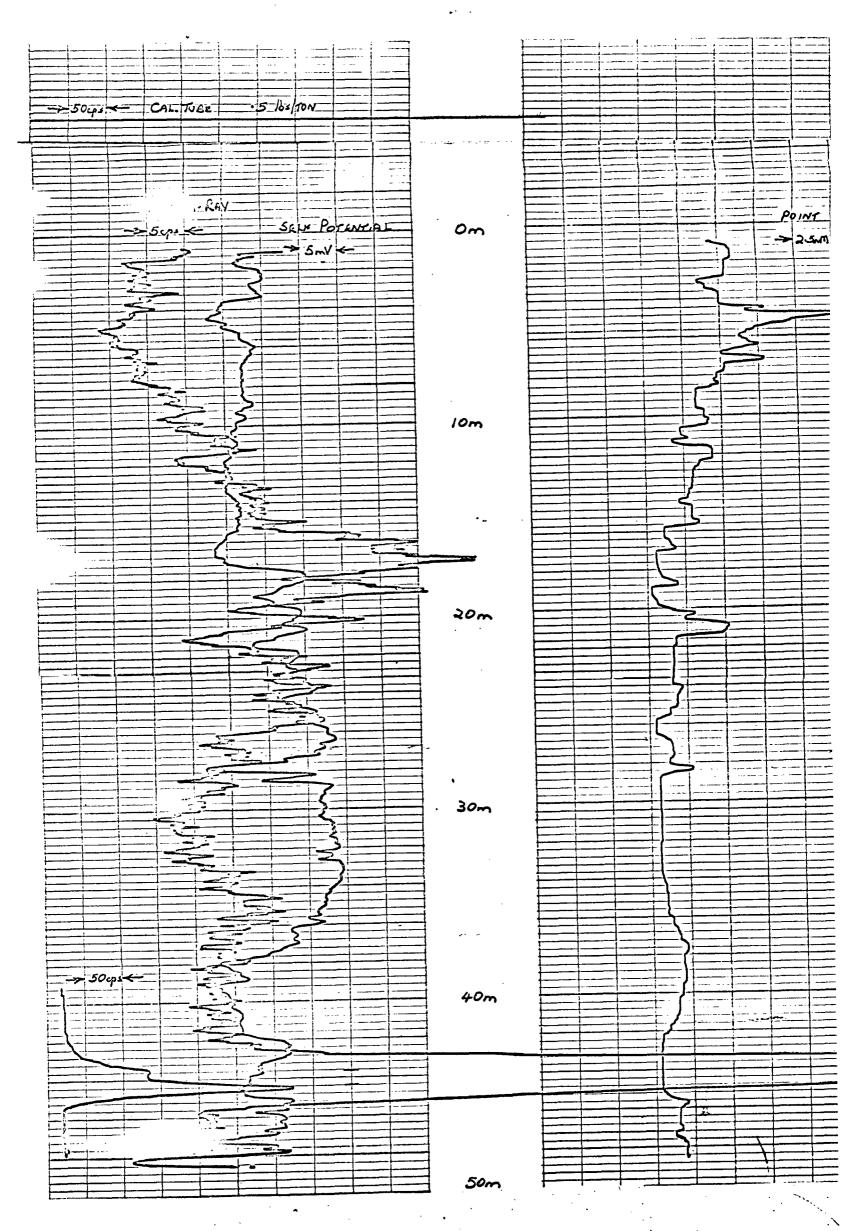
RESISTIVITY: Ohm metres @ °C

PERATING TIME: 20mins/15mins/15mins/

LECONDED BY: LKWest

2257-11

EMARKS:



SOUTH AUSTRALIAN DEPARTMENTS OF MINES

GEOLOGICAL SURVEY

. OF LOG (3): Comma-Ray, SELF POTENTIAL, POINT RESISTIVITY

TDE: 1140/ 1120 / 1120/ ATE: 4-5-73

LOCATION: Lat. REA: QUINYAMSIE

ELL: QDH 201

LEVITION G.L.: Log from o metres above G.L. Dopth Scale: 1cm

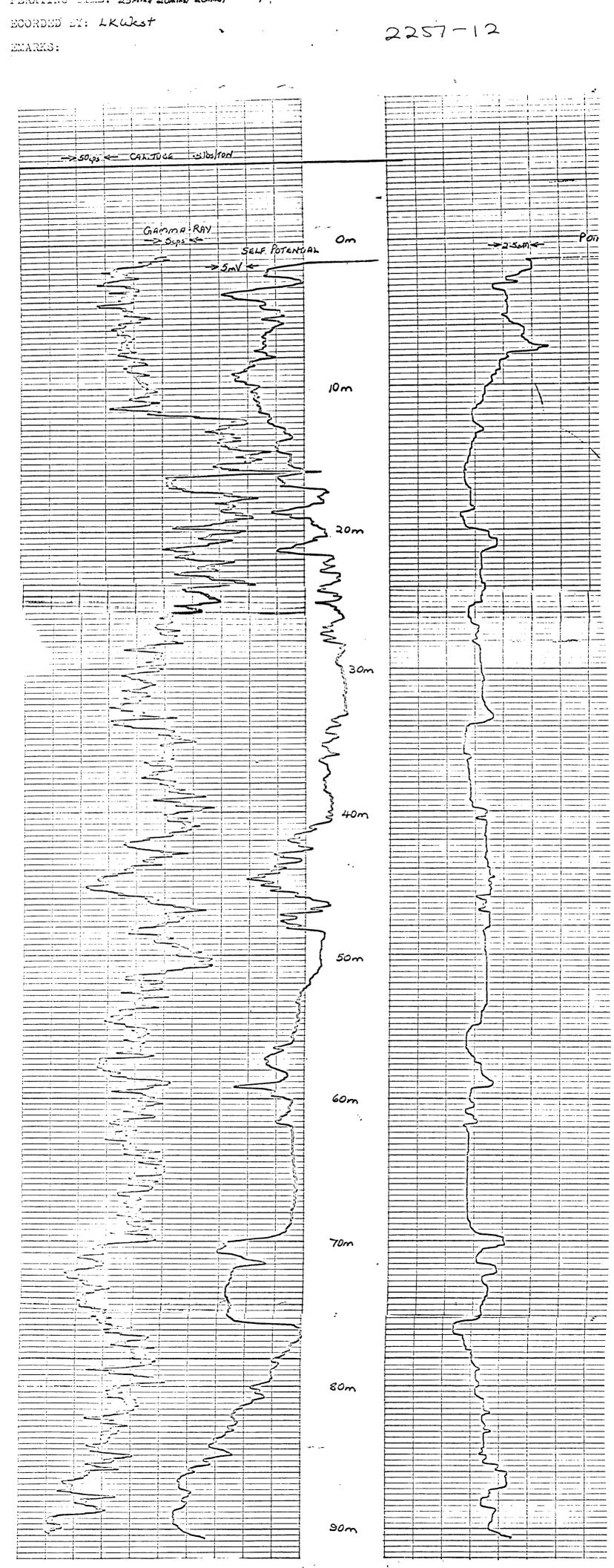
UN NUMBER: 1/1/1/

ASING SHOW DEPTH (cm): LOG metres DRILL metres TOTAL DEPTH: LC

DF

RESISTIVITY: Ohm metres @ °C UD: Type

PERATING LIDE: 25mins/20mins/20mins/



SOUTH AUSTRALIAN DEPARTMENT OF MINES

GEOLOGICAL SURVEY

TYPE OF LOG (S): GAMMA-RAY, SELY POTENTIAL,

DATE: 3-5-73

TIME: 1925/1900 / 1960 /

LOCATION: Lat.

HELL: QDH 202

AREA: QUINYAMBIE

TEVATION G.L.:

IUD: Type

CONTROL G.L.: Log from O metres above G.L. Depth Scale: 1cm RUN NULIBER: 1 / 1 / 1 / /

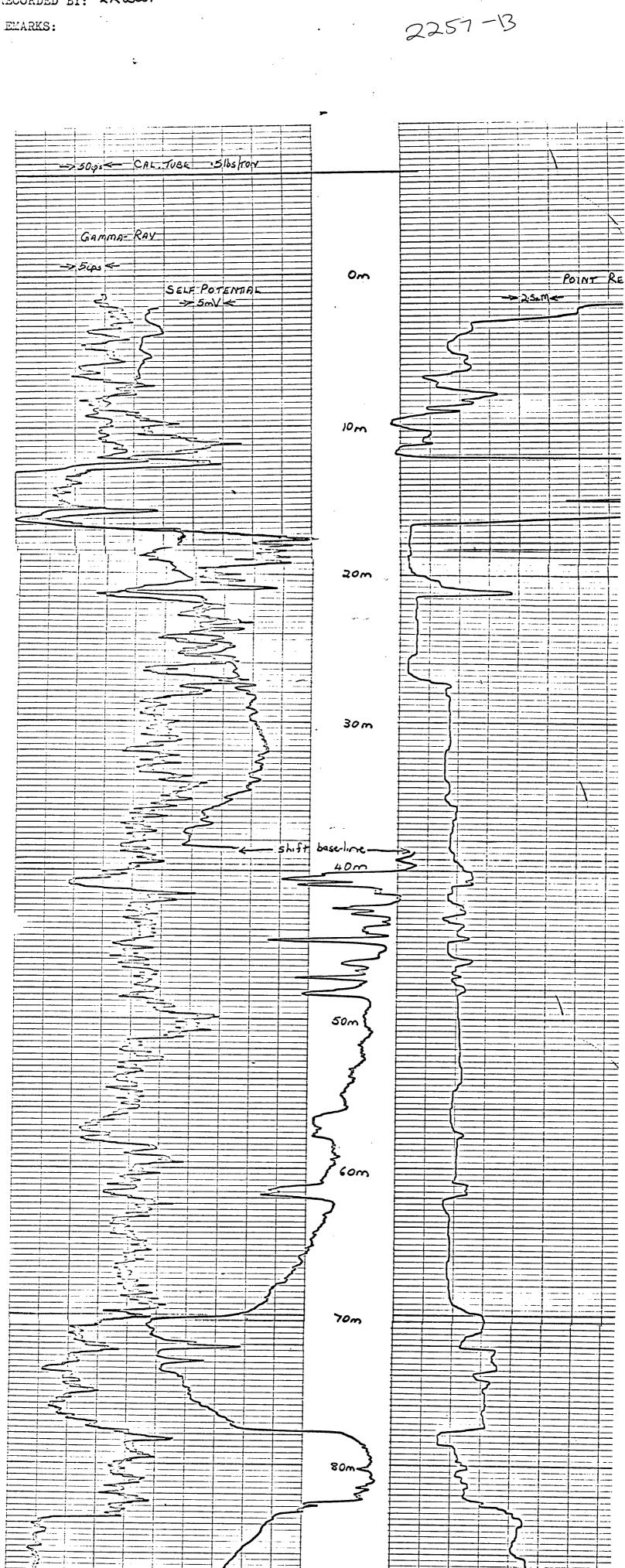
DR

CASING SHOE DEPTH (cm): LOG metres DRILL metres TOTAL DEPTH: LO

RESISTIVITY: Ohm metres @ °C

DPERATING TIME: 25mms/20mms/20mms/

RECORDED BY: LKWest



SOUTH AUGTRALIAN DEPARTMENT OF MUMPS

GEOLOGICAL SURVEY

TYPE OF LOG (S): GAMMA-RAY, SELF POTENTIAL, POINT RESISTIVITY.

DATE: 4-5-73 TIE: 0909 0840 / 0840 /

AREA: QUINYAMBIE LOCATION: Lat.

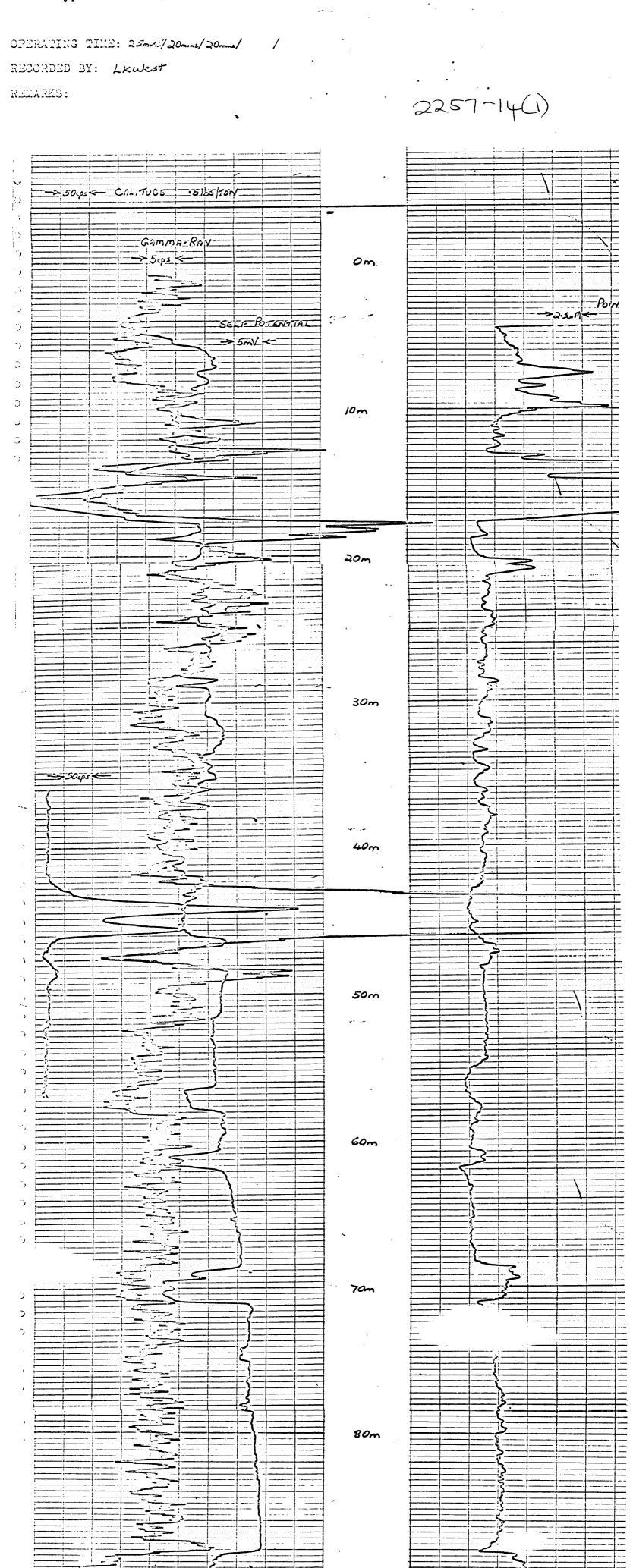
WMMD: QDH203

ELEVATION G.L.: Log from o metres above G.L. Depth Scale: 1cm

RUN NUMBER: 1/1/1/

CASING SHOE DEPTH (cm): LOG metres DRILL metres TOTAL DEPTH: L

MUD: Type RESISTIVITY: Ohm metres @ C



SOUTH AUGERALIAN DEPAREMENT OF MINES

GEOLOGICAL SURVEY

OF ICG (S): SELF POTENTIAL, LEMERO RESISTIVITY.

DARE: 4-5-73

TIME: 0940 / 0940 / LOCATION: Lat. ARBA: QUINYAMBIE

MELL: QDH 203

ELEVATION G.L.: Log from O metres above G.L. Depth Scale: 1cm r

RUM NULIÈER: 2 / / / /

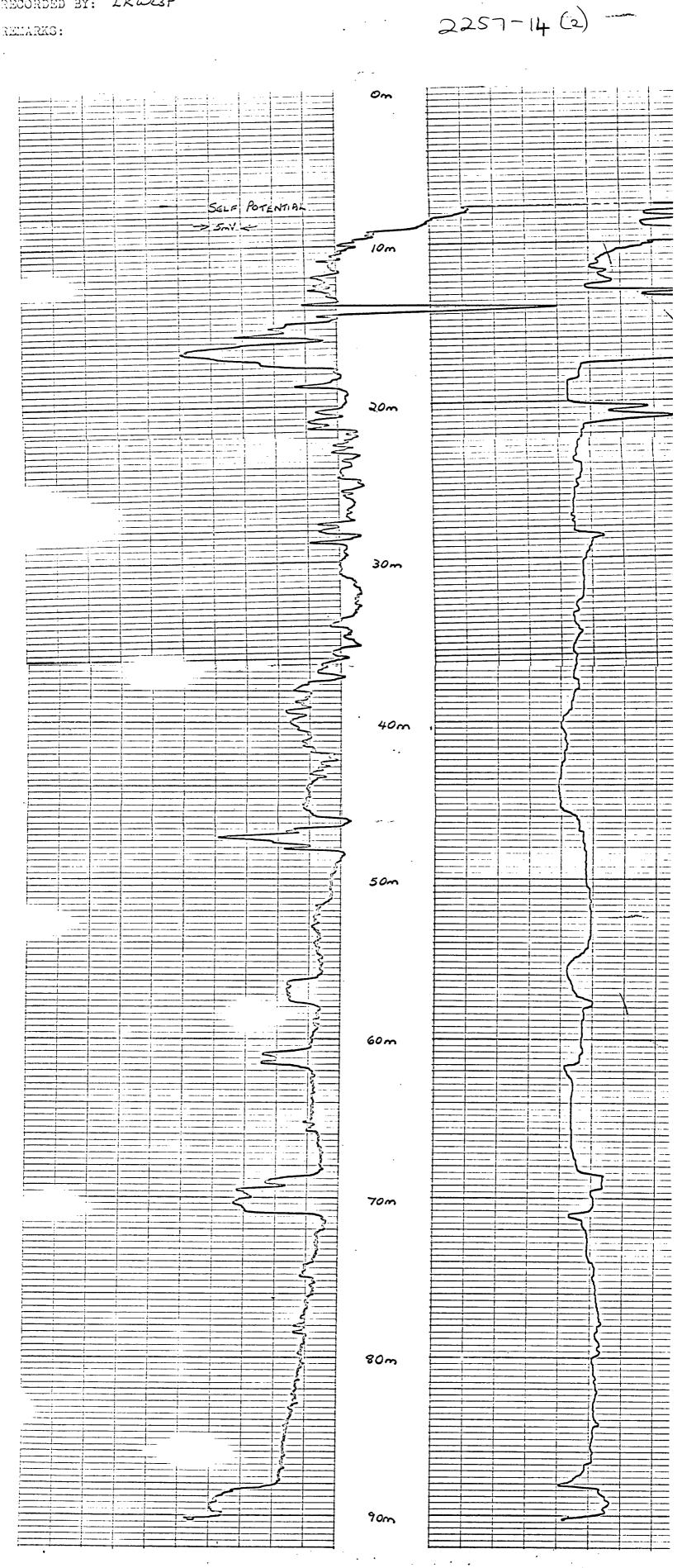
CASING SHOE DEPTH (cm): LOG metres DRILL metres TOTAL DEPTH: LOC

DRJ

MUD: Type RESISTIVITY: Ohm metres @ OC

OPERATING TIME: 20mins/20mins/ / /

RECORDED BY: LKWest



CONTRACTOR OF THE STATE OF THESE

GEOLOGICAL SURVEY

IDD OF LOG (8): GAMMA-RAY, SELF POTENTIAL, POINT RESISTIVITY.

MD: 4-5-73

TIME: 1440 / 1415 /1415 /

LOCATION: Lat.

13: QDH204

MIL: QUINYAMBIE

DEVATION G.L.: Log from O metres above G.L. Depth Scale: 1cm re

 \mathbf{L}_{C}

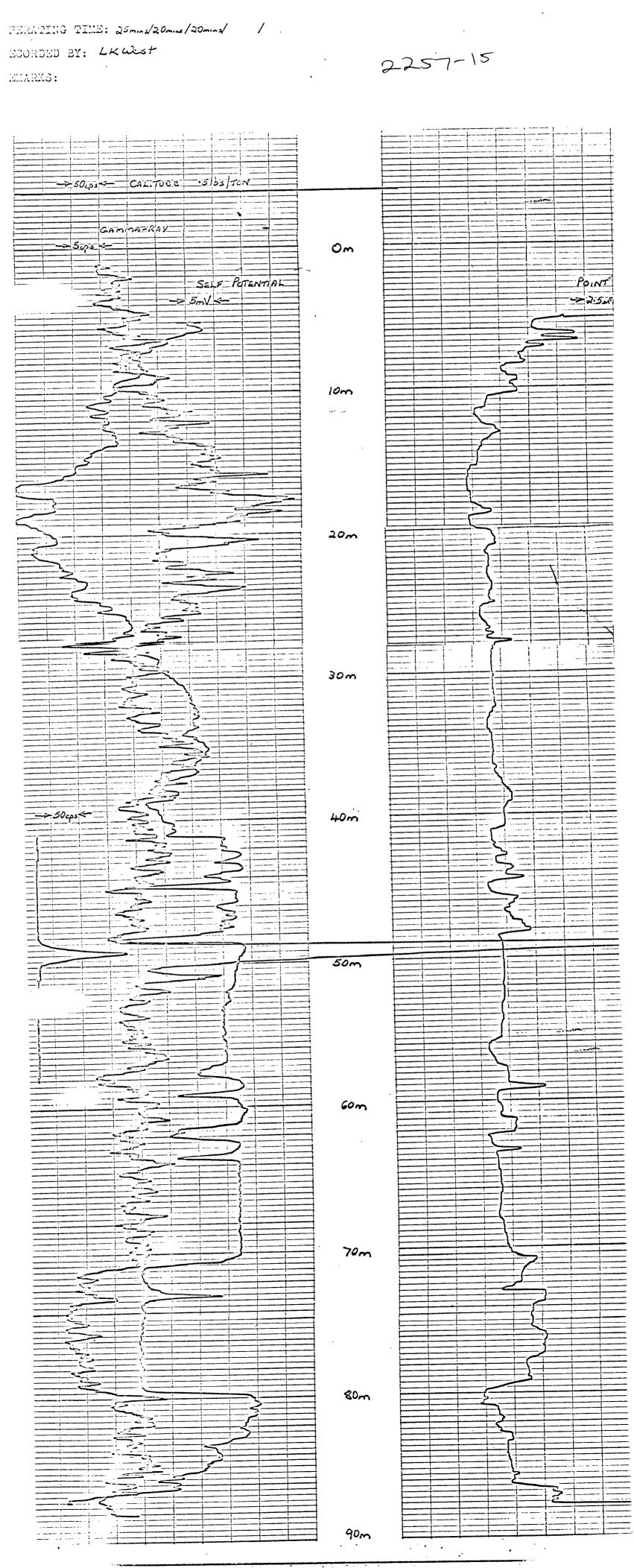
UN NUMBER: 1 / 1 / 1 / / /

ASING SHOE DEPTH (cm): LOG metres DRILL metres TOTAL DEPTH: LOG

DRI

UD: Type

RESISTIVITY: Ohm metres @ °C



SOUTH AUSTRALIAN DEPARTMENT OF MINES GEOLOGICAL SURVEY

PE OF LOG (S): GAMMA-RAY, SELF POTENTIAL, POINT RESISTIVITY.

TE: 5-5-73

TIME: 1450/ 1515 / 1515 /

EA: QUINYAMSIE

LOCATION: Lat.

Lor

i.L: QDH205

EVATION G.L.: Log from O motros above G.L. Dopth Scale: 1cm re;

N NUMBER: 1 / 1 / 1 / /

SING SHOE DEPTH (cm): LOG metres DRILL motres TOTAL DEPTH: LOG

DRIL.

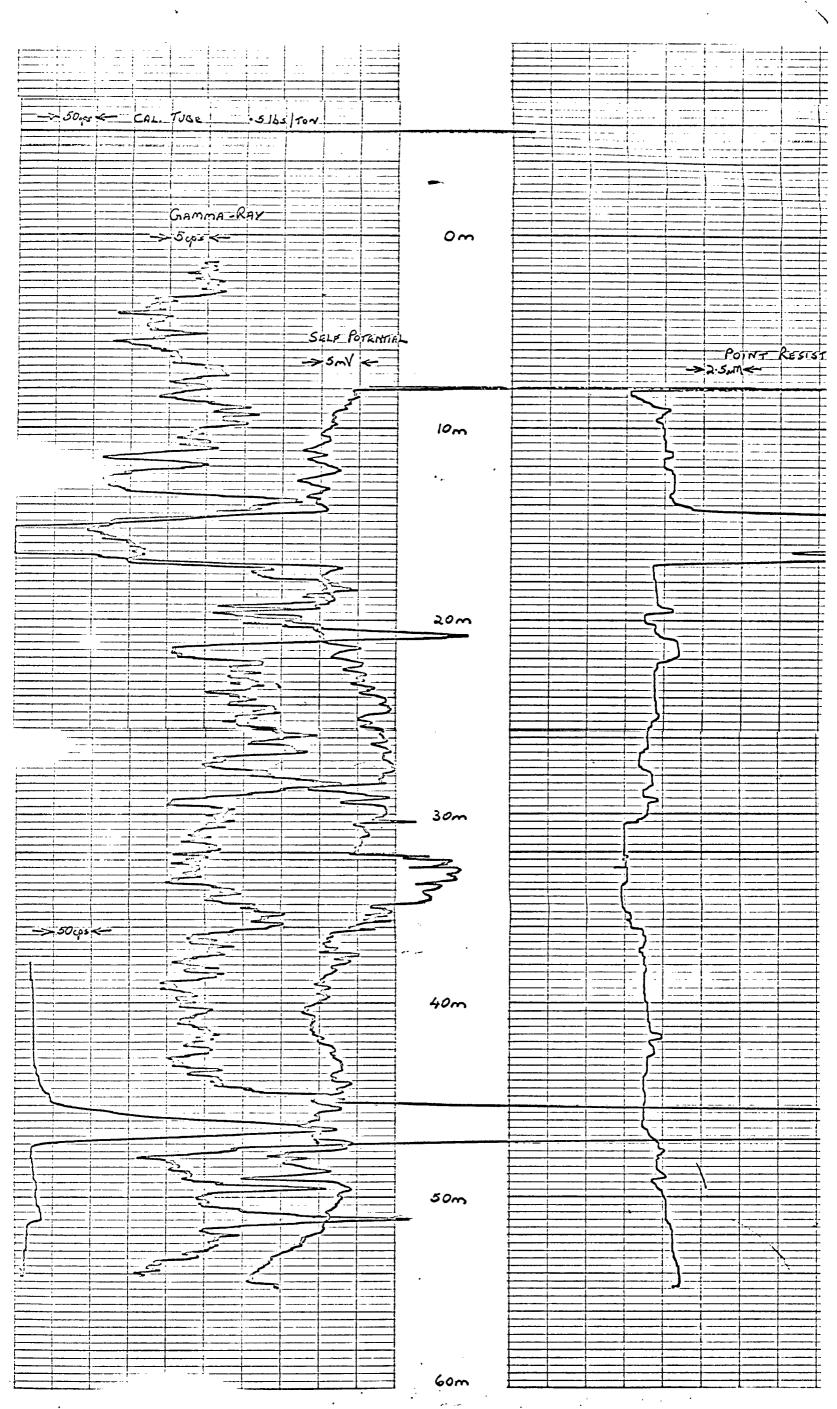
D: Type

RESISTIVITY: Ohm motres @ °C

PERATING TIME: 20mms/15mms/15mms/ / 2257-16

MONDED LI: LK West

MARKS: Spikes on logs between 30-40 mates caused by Human interference.



SOUTH AUSTRALIAN DEPARTMENT OF MINES

GEOLOGICAL SURVEY

IPE OF LOG (S): GAMMA-RAY, SELF POTENTIAL , POINT RESISTIVITY.

TIME: 1055/ 1030/ 1030 X 193: 7.5-73

LOCATION: Lat. MMA: QUINYAMBIE

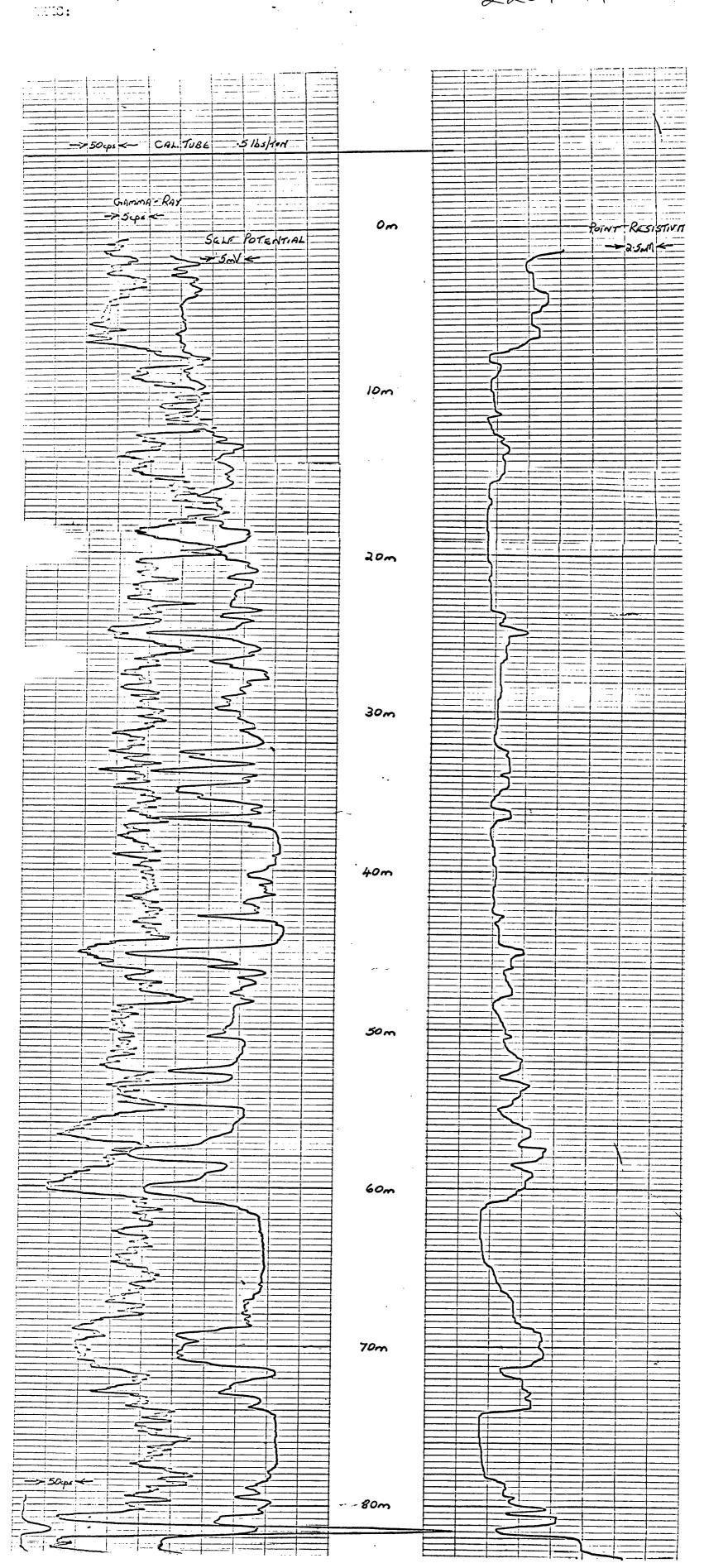
15 QDH 300

Log from o metres above G.L. Depth Scale: 1cm rc VEVATION G.L.:

UN NUMBER: 1/1/1//// ADING SHOE DEPTH (cm): LOG metros DRILL metros TOTAL DEPTH: LOG

DRII RESISTIVITY: Ohm motros @ °C D: Typo

PERMITTING TIME: 25mms/20mms/20mms/ TOADED BY: LKWest 2257-17



SOURH AUSTRALIAN DEPARENTIR OF MINES

GEOLOGICAL SURVEY

TE OF ICG (S): GAMMA-RAY, SELF POTENTIAL POINT RESISTIVITY.

MM: 3-5-73

TIME: 10:0/ 0950/0950/

MA: QUINYAMBIE

ML: QDH 301

LOCATION: Lat.

Lo:

TAMION G.L.:

Log from O metres above G.L. Depth Scale: 1cm re

MING MINO: Pil (em): LOG motres DRILL motres TOTAL DEPTH: LOG

DRIL

ARESISTIVITY: Ohm cotros C °C 100 (100000 2. 1) 2. 20 mind 20 mind 20 mind 2257-18 10 AD LE: LKWest 50cps CALTUSE 5165/TON - GAMMA-RAY SELE POTENTIAL 10 m 30m 60m 70m 80m

SOUTH AUSTRALIAN DEPARTMENT OF MINES

GEOLOGICAL SURVEY

TYPE OF LOG (S): GAMMA-RAY, SELF POTENTIAL, POINT RESISTIVITY.

DATE: 2-5-73

TIME: 1210 / 1145 / 1145 /

LOCATION: Lat.

. QUIN YAMSIE

. QDH 302

ELEVATION G.L.: Log from O metres above G.L. Depth Scale: 1cm

RUM RUMBER: 1 / 1 / 1 / /

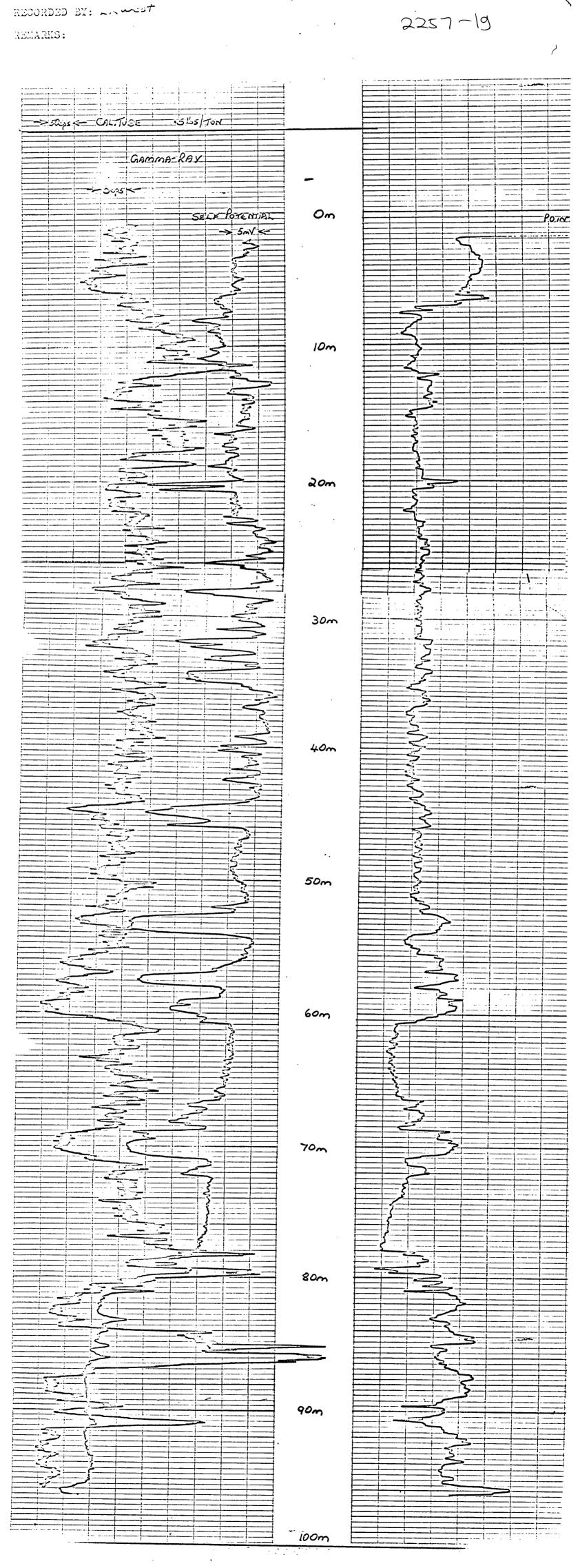
DR

CASING SHOE DEPTH (cm): LOG metres DRILL metres TOTAL DEPTH: LO

MUD: Type

RESISTIVITY: 2.5 Ohm metres @ 17 °C

OPERATING TT Thins/ 20mm 20mm



SOUTH AUTERCHAM DEPAREMENT OF HIMES

GEOLOGICAL SURVEY

IPB OF ECC (3): GAMMA-RAY, SELF POTENTIAL, POINT RESISTIVITY

22: 6-5-73

TIME: 1130/1150 / 1150/

LOCATION: Lat.

Lo

ML: QDH 206

IDVACTION G.L.: Log from o motres above G.L. Depth Scale: 1cm re

li numben:

REING SHOE DEPTH (cm): LOG motros DRILL motros TOTAL DEPTH: LOG

DI: QUINYAMBIE

DRIL

D: Type

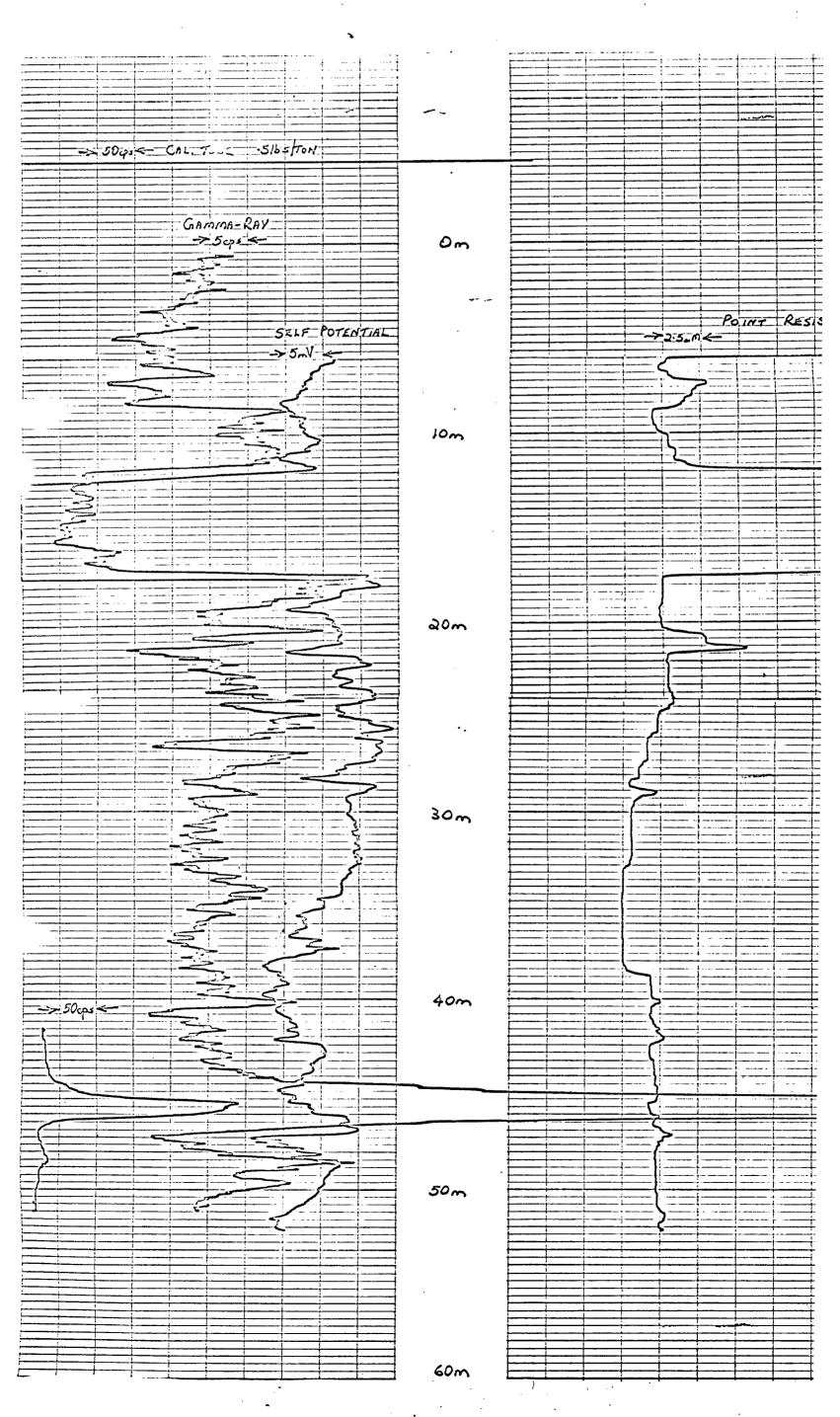
RESISTIVITY: Ohm motres C °C

PERMITING TIME: GONAM/ 15mm/ 15mm/

MONDED DY: LKWest

MANIS:

2257-20



GEOLOGICAL SURVEY

IDE OF LOG (S): GAMMA-RAY, SELF POTENTIAL, POINT RESISTIVITY

100: 2-5-73

TIME: 177/ 1710 / 1710 /

REA: QUINYAMENE

LOCATION: Lat.

MAL: QDH303

LEVATION G.L.:

Log from O metres above G.L. Depth Scale: 1cm r

UM NUMBER: 1/1/1////

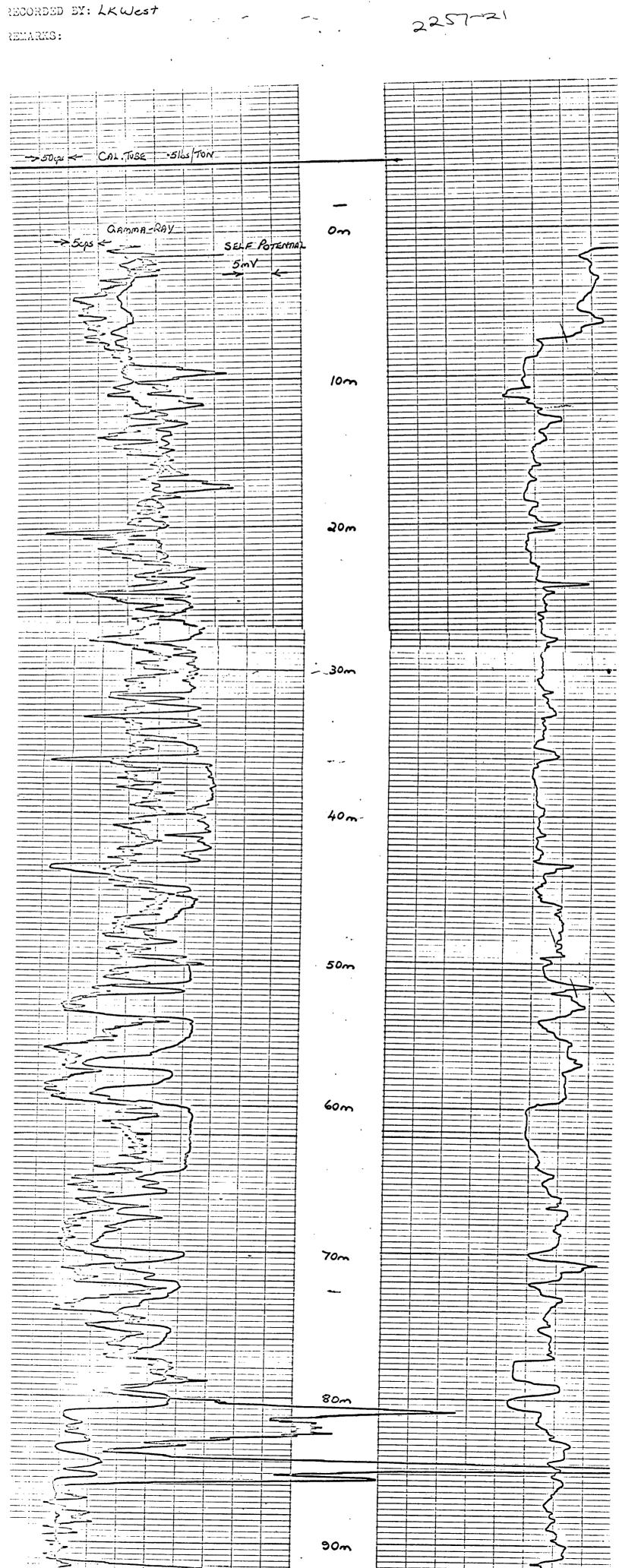
ASING SHOE DEPTH (cm): LOG metres DRILL metres TOTAL DEPTH: LOC

DRI

UD: Type

RESISTIVITY: Ohm metres @ °C

OPERATING TIME: 25mms/20mms/20mms/



SOUTH AUGURALIAN DEPARTMENT OF MINES

GEOLOGICAL SURVEY

TIPE OF LOG (S): GAMMA, RAY, SELF POTENTIAL, POINT RESISTIVITY.

DATE: 3-5-73

TIME: 1400/ 1340/ 1340/

LOCATION: Lat.

WELL: QDHE04

AREA: QUINYAMOIE

ELEVATION G.L.: Log from O metres above G.L. Depth Scale: 1cm

RUN NULLER: 1 / 1 / 1 / 1 / .

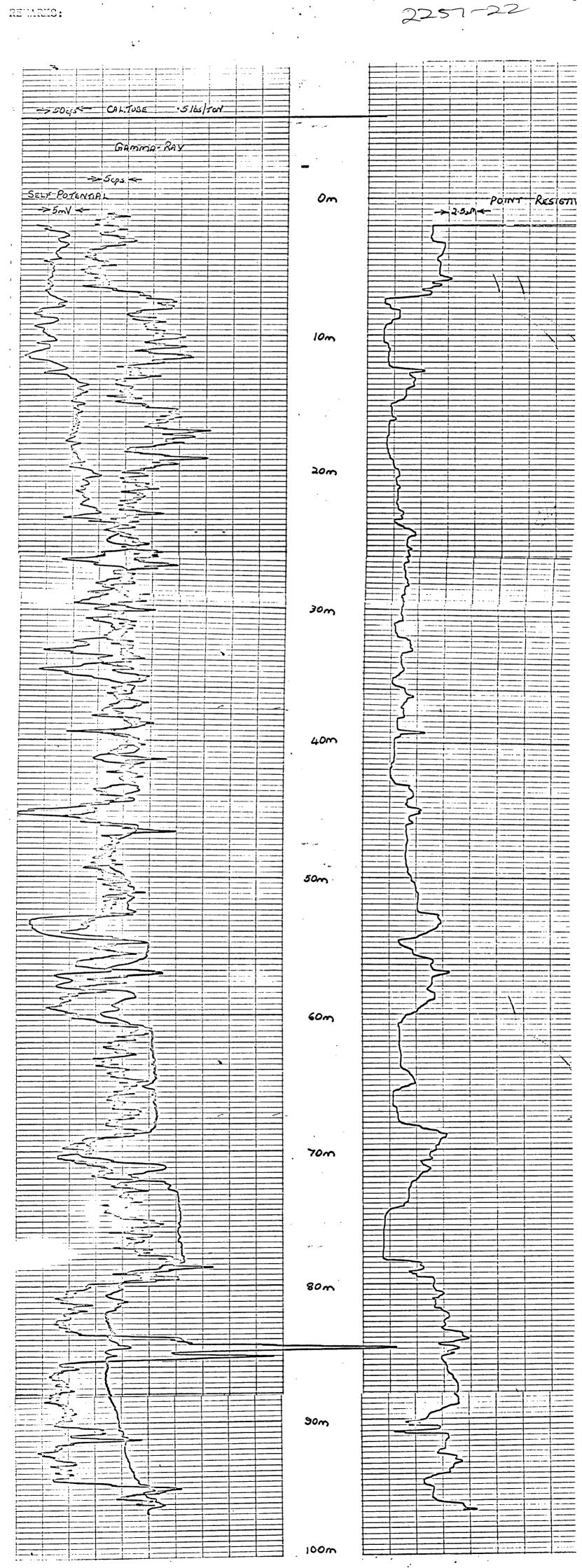
OPERMENIC CITIE: 25mins/20min/20min/

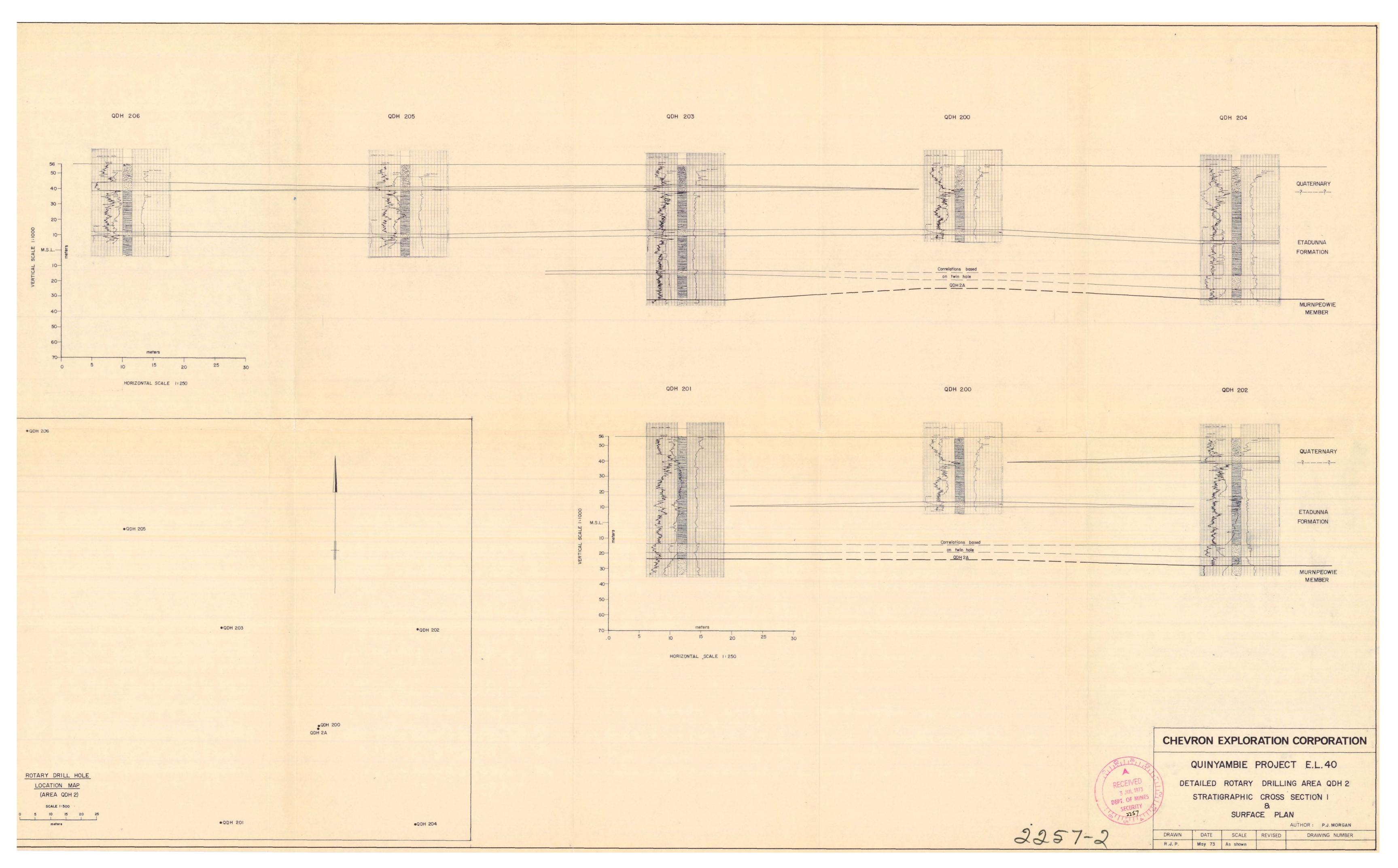
CASING SHOE DEPTH (cm): LOG motros DRILL motros TOTAL DEPTH: LO

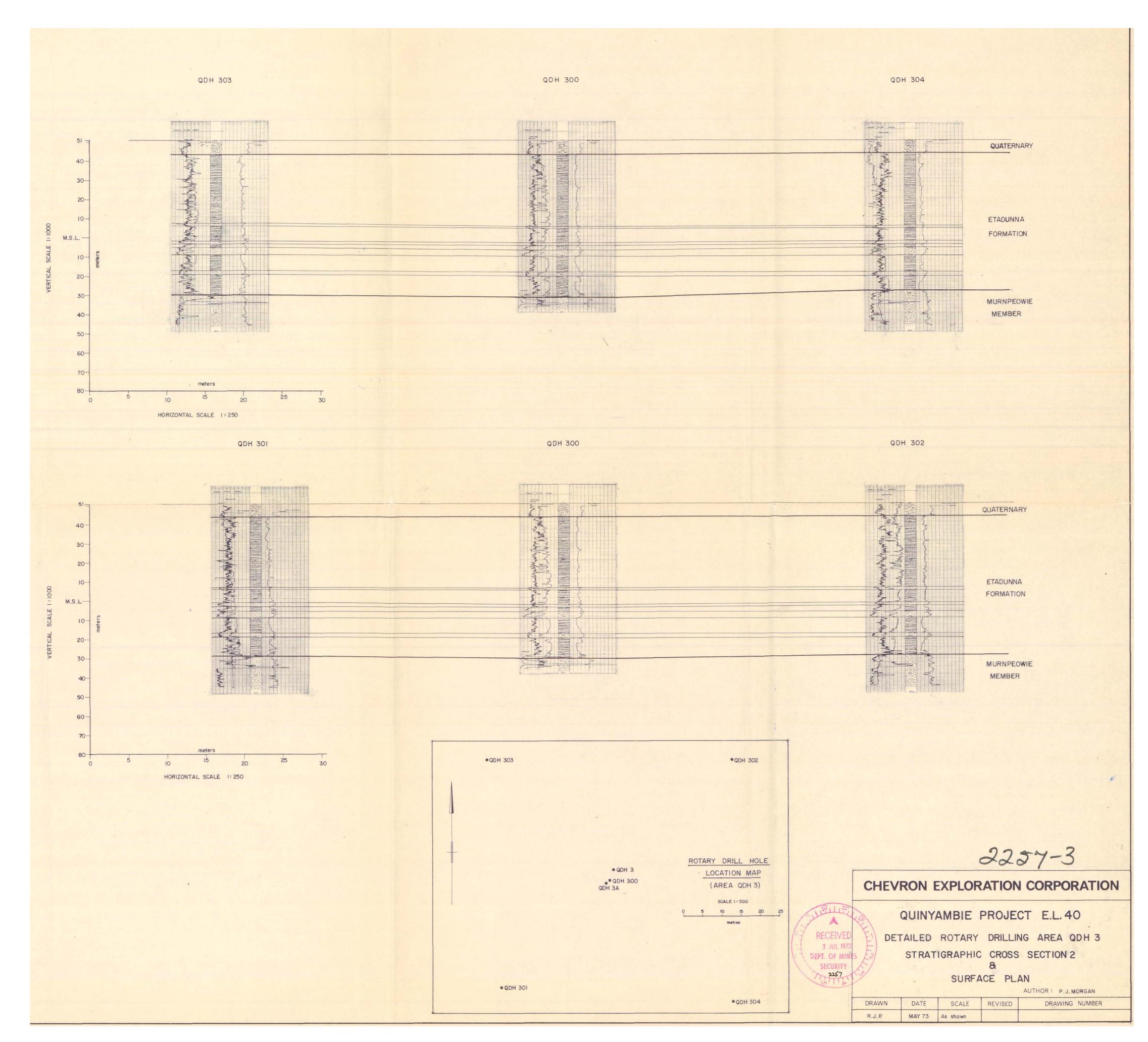
DR

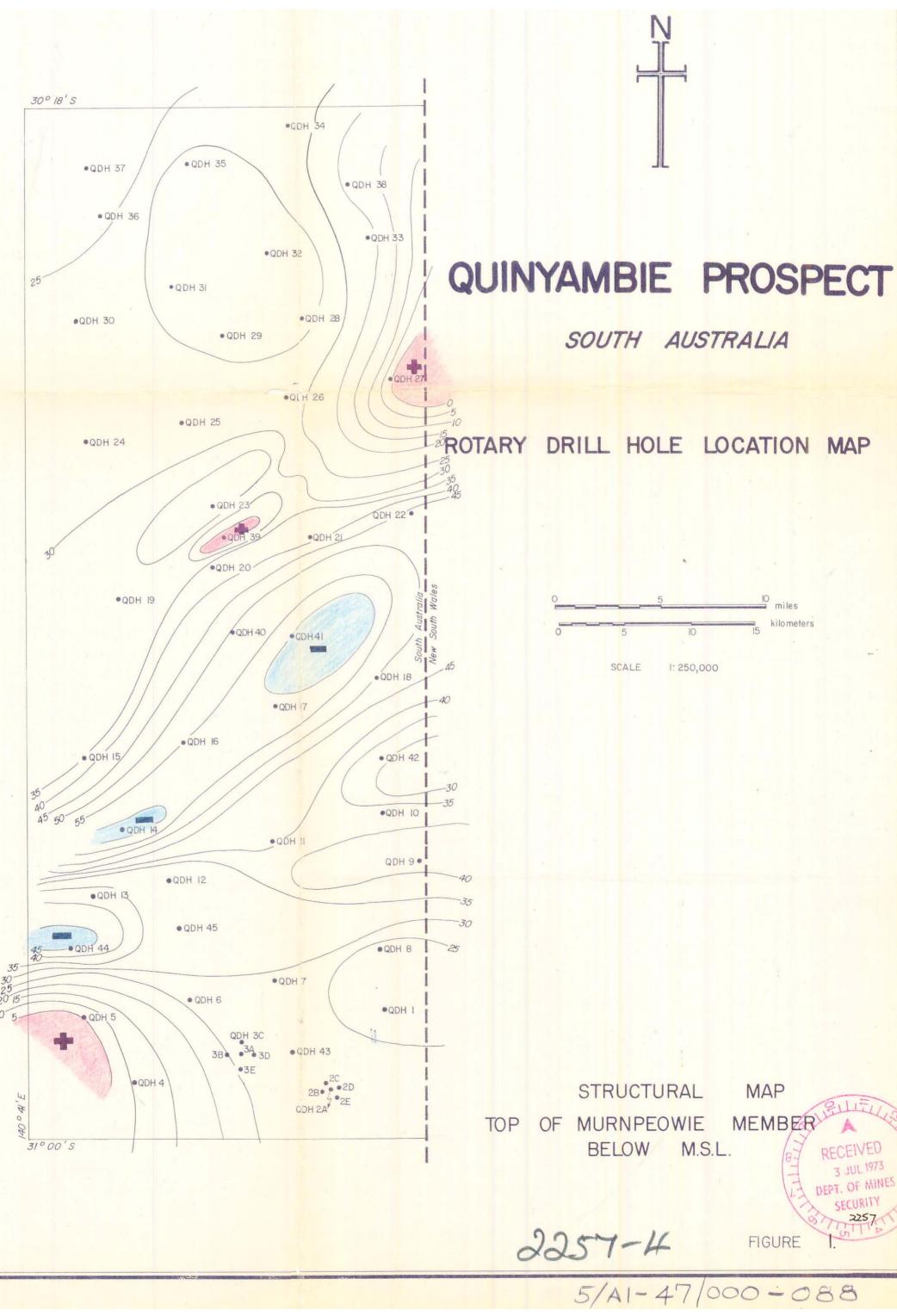
RESISTIVITY: Ohm metres C °C MUD: Type

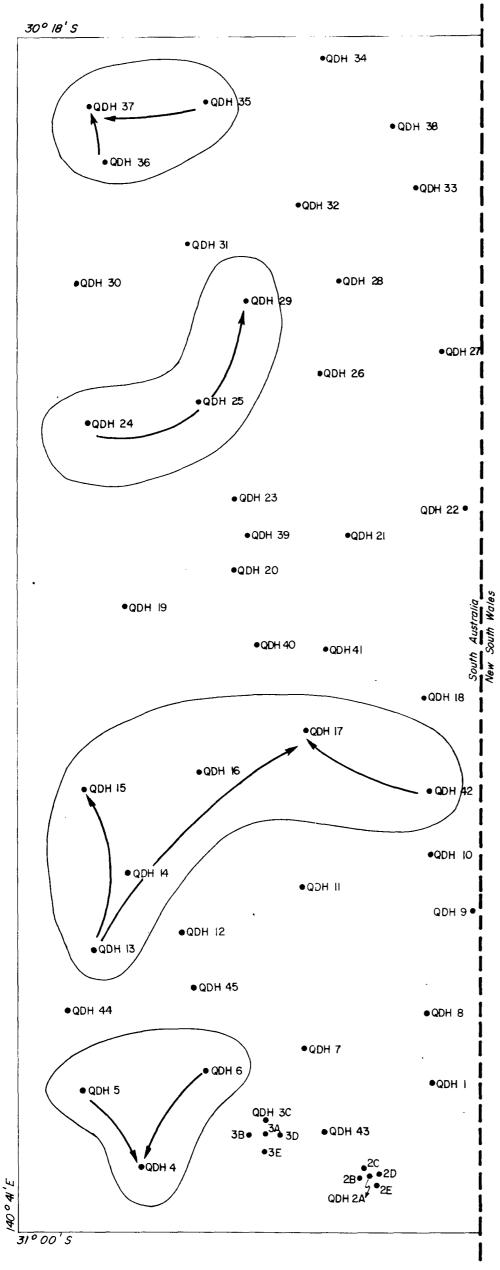
NECONDED DI: LKWest of 5 -







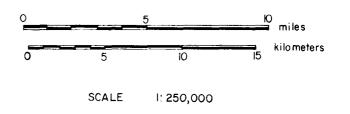






SOUTH AUSTRALIA

ROTARY DRILL HOLE LOCATION MAP



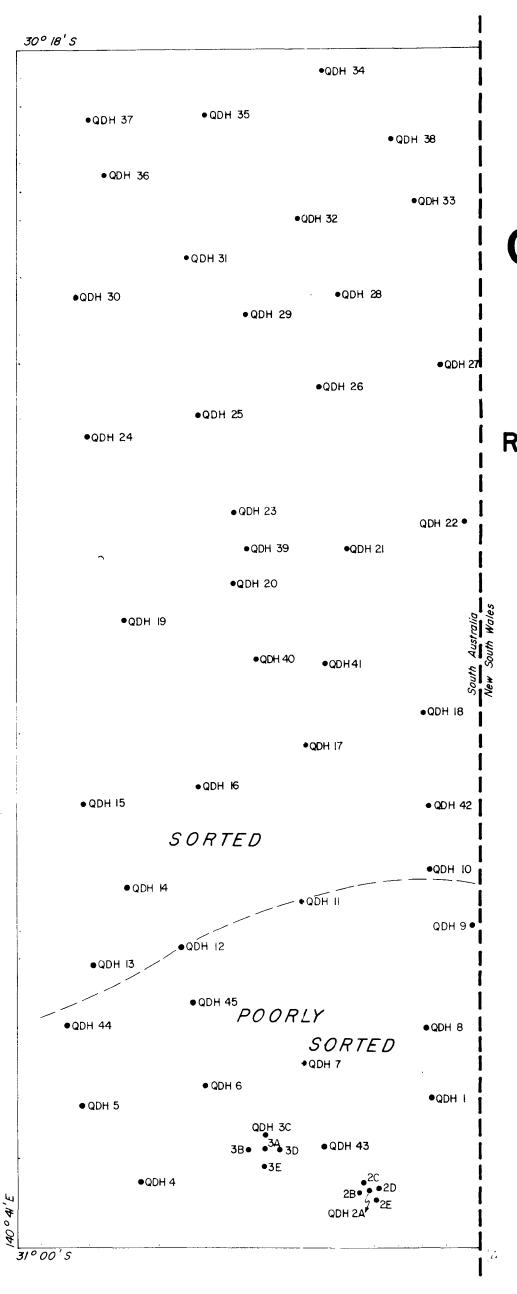
Areas containing lignite and lignitic sands Direction of increase of carbonaceous matter

ETADUNNA - MURNPEOWIE SAND

CARBONACEOUS CONTENT (LIGNITE)

RECEIVED 3 JUI 1973 DEPT. OF MAKES

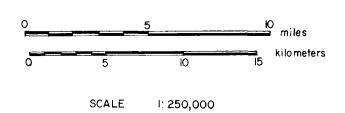
SECURITY 2257





SOUTH AUSTRALIA

ROTARY DRILL HOLE LOCATION MAP



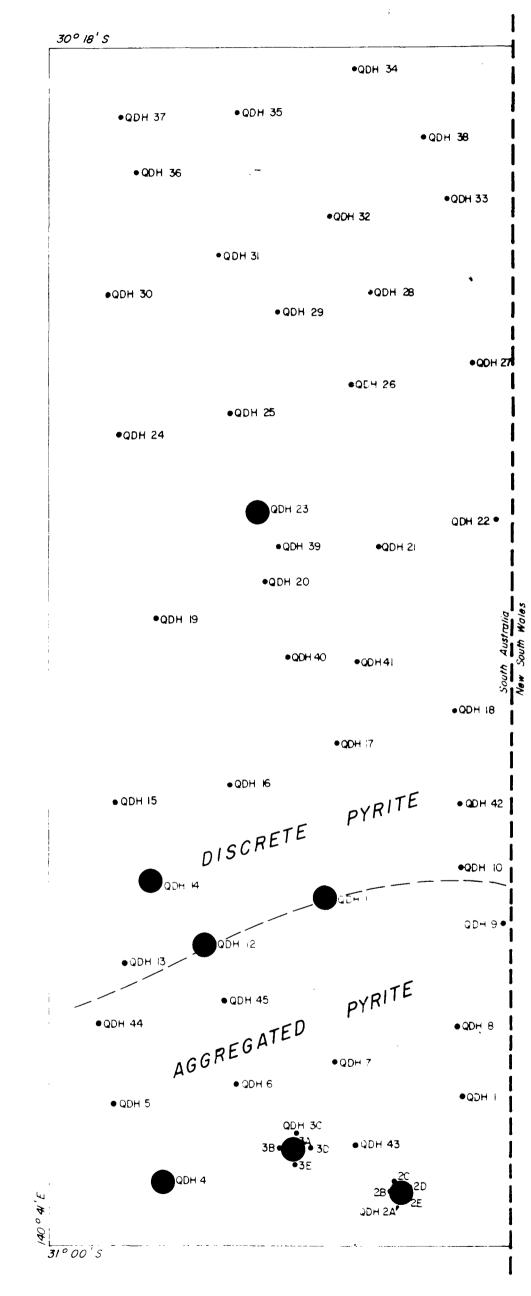
ETADUNNA - MURNPEOWIE SAND

(sorting)

DENT OF MINES
SECURITY
2257
27777777

RECEIVED

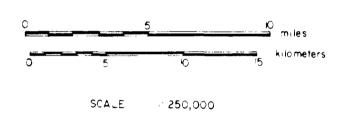
FIGURE 4.





SOUTH AUSTRALIA

ROTARY DRILL HOLE LOCATION MAP



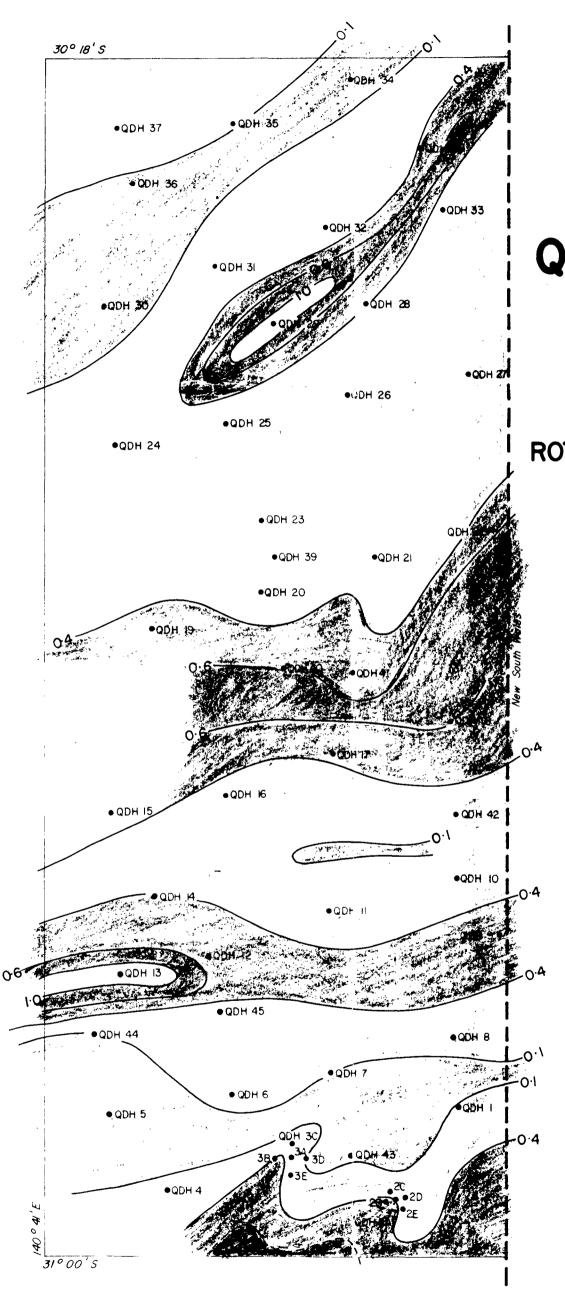
Magnetite ____

ETADUNNA - MURNPEOWIE SAND

(magnetite content – pyrite form)



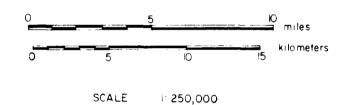
257-8 FIGURE





SOUTH AUSTRALIA

ROTARY DRILL HOLE LOCATION MAP



SAND - CLAY RATIO

 $\begin{array}{c} > 1.0 \\ 0.6 - 1.0 \\ 0.4 - 0.6 \\ 0.1 - 0.4 \\ < 0.1 \end{array}$

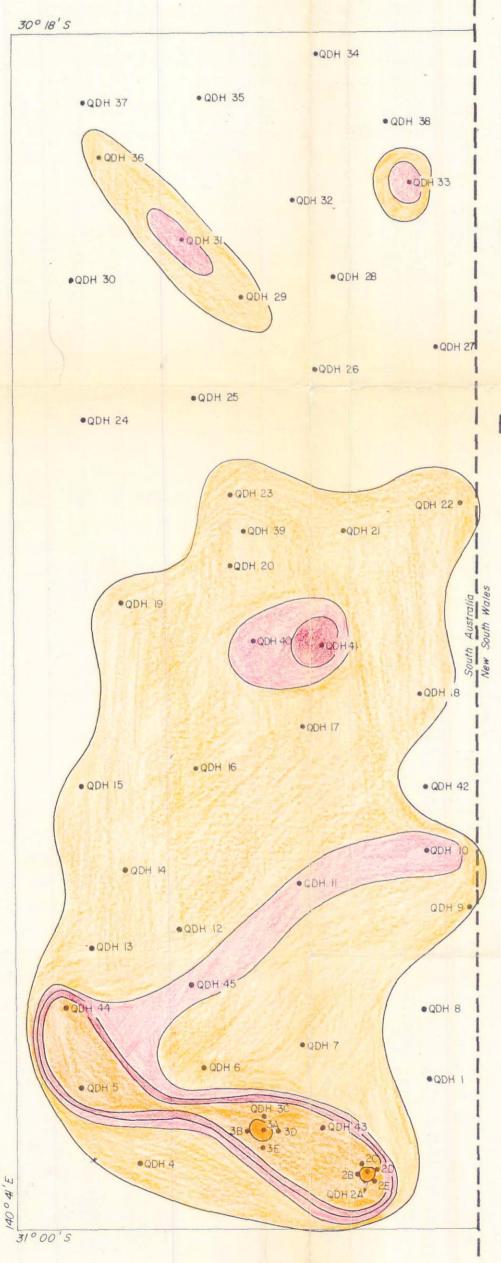
SAND - CLAY RATIO : ETA JNNA FM.

50 m. slice above M peowie sand.



FIGURE 6.

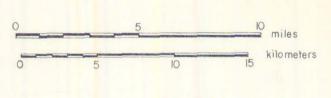
/AI-52/000-093





SOUTH AUSTRALIA

ROTARY DRILL HOLE LOCATION MAP



SCALE 1: 250,000

LEGEND

 $1.0 + 16 / \text{ton } U_3 O_8 \text{ (relative)}$

0.75 - 1.0

0·50 - 0·75 0·25 - 0·50

0 - 0.25

(Calculated relative to probe calibration i.e. 1-76 lbs. / ton $U_3 O_8$)

RADIOACTIVITY INTERSECTIONS

RECEIVED
3 JUL 1973
DEPT. OF MINES
SECURITY
2257

2257-10

FIGURE

7.

