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SML 699

NULLARBOR

PROGRESS REPORTS TO LICENCE EXPIRY/SURRENDER FOR THE PERIOD 18/5/1972 TO 17/11/1972

Submitted by Dampier Mining Co. Ltd 1973

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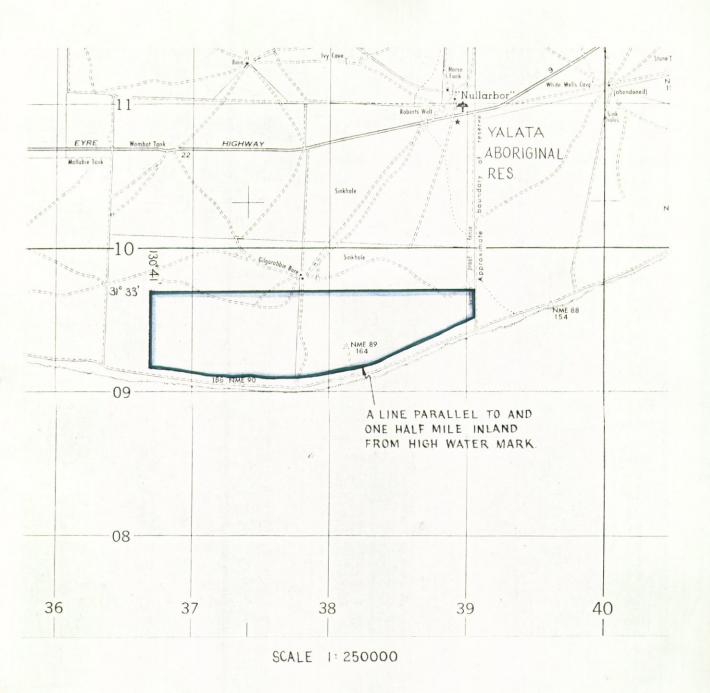
Minerals and Energy Resources

7th Floor

101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000 Facsimile: (08) 8204 1880





DAMPIER MINING CO. LTD.

DOCKET DM. 391/72 AREA 40 SQ MILES
1:250000 FLANS NULLARBOR

LOCALITY NULLARBOR HOMESTEAD

EML. No. 699

EXPIRY DATE 17.11.72

CONTENTS ENVELOPE 2090

TENEMENT: S.M.L. 699 - Nullarbor.

TENEMENT HOLDER: Dampier Mining Co. Ltd.

REPORT:	Drill Logs No.s. NDH11 to 15. Quarterly Report Ended 18th Aug. 1972. Three Monthly Ending 18th Nov. 1972.	Pgs. 3-7 Pg. 8 Pg. 9
PLANS:	Drill Localities. Cross Section.	2090 – 1 2090 – 2
	Geol. Log - 13.	2090-3
	" - 11.	2090-4
	и и <u>т</u> 4 <u>и</u>	2090-5

SPECIAL MINING LEASE 699

NULLARBOR, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 18TH AUGUST, 1972

GENERAL STATEMENT

Exploration, consisting of a programme of drilling, continued in S.M.L. 699 during the quarter.

FIELD INVESTIGATIONS

Drilling

Five drill holes totalling 189 metres were completed. Localities are shown on the attached plan A3-35.

RESULTS OF INVESTIGATIONS

Testing of samples from the drill holes is being carried out in Newcastle. Logging is in progress. Logs and analysis results will be included in the next report.

This report is submitted to the Mines Department as required by Condition 6 of S.M.L. 699

REPORT FOR THE THREE MONTHS ENDED 18TH NOVEMBER, 1972 SPECIAL MINING LEASE 699 NULLARBOR, SOUTH AUSTRALIA

Core logging of the five drill holes drilled during the last period was completed.

Chemical and physical tests were carried out on drill holes Nos. NDH 11, NDH 13 and NDH 14.

RESULTS OF INVESTIGATIONS

The results of the analysis and the Geological Drill-Logs are attached.



Total Depth:

Percentage Recovered:

Date Commenced:

Date Completed:

NDH 11 0 03

36.20 metres

99.2%

9.8.72

		·				3
Dept	Depth in Metres		Lithology	Unit	Age	Fossils
From	То	Recovery			nge	rossiis
0 7.00 9.50	7.00 9.50 11.50	Rotary 2.37 2.00	0 - 7.00 m Red clay		Gene Cene	
11.50 14.30 17.10 19.90 22.80 25.60 28.40 31.20 33.50	14.30 17.10 19.90 22.80 25.60 28.40 31.20 33.50 36.20	2.80 2.80 2.80 2.90 2.80 2.80 2.70 2.30 2.60	7.00 - 8.50 m. Hard indurated calcarenite fractured parallel to the strike with thin bands of kankar 8.50 - 31.75 m. Hard indurated calcarenite fractured parallel to the strike. Minor cavities between 22.80 - 28.40 m.	Nullarbor Limestone	Lower	Pelecypoda gastropoda algal nodules
			31.75 - 33.14 m Red Algal limestone	Mulla- mullang Member?	Miocene	Calcareous algae?
			33.14 - 34.37 m Yellow, soft bryozoan calcarenite 34.37 - 36.20 m Fossil bed mainly Turritella aldingae Tate? Probably marking the surface of disconformity with the underlying Wilson Bluff (photograph 2).	Abrakurrie Limestone		Bryozoa pelecypoda brachiopoda



0 04

12.8.72

Drill Hole No.: NDH 12
Total Depth: 35.60 m
Percentage Recovered: 92.8%
Date Commenced: 11.8.72

Date Completed:

		_				
Depth in Metres		tres	Lithology	Unit	Age	Fossils
From	То	Recovery				
0 3.00 5.70 6.70 9.50	3.00 5.70 6.70 9.50 11.45	Rotary 2.67 0.91 2.77 1.85	0 - 3.30 m Clay containing sheet and nodular kankar with pisolitic texture.		Pliocene Pleisto- cene	
11.45 14.45 17.00 19.60 22.50 25.30 28.20 31.10 33.40	14.45 17.00 19.60 22.50 25.30 28.20 31.10 33.40 35.60	3.00 2.23 2.60 2.84 2.35 2.90 2.90 2.14	3.30 - 25.30 m Fractured and cavernous calcarenite with clay and kankar impurities throughout the section. 25.30 - 28.91 m Hard indurated calcarenite.	Nullarbor Limestone	Lower	Pelecypoda gastropoda algal nodules
			28.91 - 29.26 m Red algal limestone	Mulla- mullang Member?	Miocene	Calcareous algae?
			29.26 - 31.45 m Yellow soft bryozoan calcarenite with minor clay impurities	Abrakurrie Limestone	10	Bryo z oa pelecypoda brachiopoda
	•		31.45 - 35.60 m White bryozoan calcarenite. Indurated in the upper 70 cm. Red clay impurities throughout the section.	Wilson Bluff Limestone	Upper Eocene	Bryozoa pelecypoda brachiopoda

Total Depth:

Percentage Recovered:

Date Commenced:

'Date Completed:

NDH 13

25.90 metres

88.8%

12.8.72

						
Depth in Metres		etres	Lithology	Unit	Age	Fossils
From	То	Recovery				
0 2.50 5.30 7.30 10.10	2.50 5.30 7.30 10.10 12.90	Rotary 2.80 2.00 2.80 2.73	0 - 2.50 m Clay containing sheet & nodular kankar with pisolitic texture	- 1 - 2 - 1	Pliocene Pleisto- cene	
12.90 14.90 16.72 19.45 20.85 22.38 22.77 24.02 25.27	14.90 16.72 19.45 20.85 22.38 22.77 24.02 25.27 25.90	1.63 1.67 2.36 1.19 0.73 0.39 1.60 0.93 0.57	2.50 - 7.49 m Hard indurated calcarenite 7.49 - 25.42 m Fractured and cavernous calcarenite with clay impurities throughout the section	Nullarbor Limestone	Lower Mic	Pelecypoda gastropoda algal nodules
July			25.42 - 25.90 m Yellow, porous bryozoan calcarenite	Abrakurie Limestone	Miocene	Bryozoa pelecypoda brachiopoda

Total Depth:

Percentage Recovered:

Date Commenced:

Date Completed:

NDH 14

27.10 metres

89.8%

14.8.72

·					_	
	Depth in Metres		Lithology	Unit	Age	Fossils
From	То	Recovery				
0 2.70 5.50 8.30 10.80	2.70 5.50 8.30 10.80 13.60	Rotary 2.72 2.85 2.33 2.75	0 - 2.40 m Clay containing sheet and nodular kankar with pisolitic texture.	ų,	Pliocene Pleisto- cene	
13.60 16.40 19.20 20.05 22.90 24.60 25.50	16.40 19.20 20.05 22.90 24.60 25.50 27.10	2.67 1.63 0.66 2.80 1.34 0.67 1.50	2.40 - 14.55 m Hard indurated calcarenite abundant aragonite crystals in small cavities between 7.20 and 14.55 m 14.55 - 24.00 m Fractured and cavernous calcarenite with clay & kankar impurities 24.00 - 27.10 m Red clay	Nullarbor Limestone	Lower · Miocene	Pelecypoda gastropoda and algal nodules

Total Depth:

Percentage Recovered:

Date Commenced:

Date Completed:

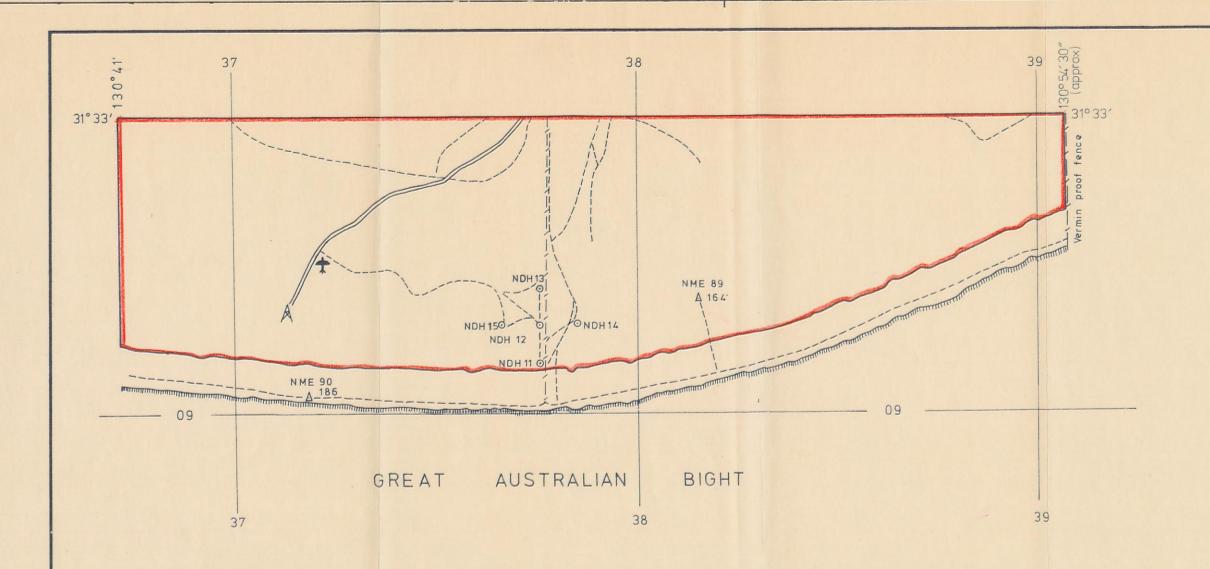
NDH 15

32.00 metres

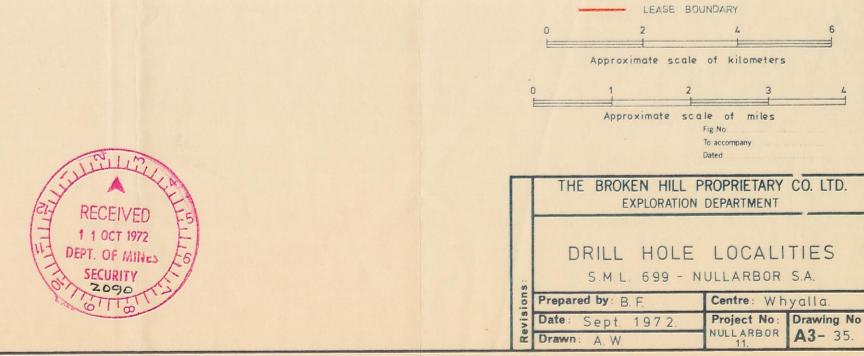
98.9%

16.8.72

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Depth in Metres		tres	Lithology	Unit	Age	Fossils
From	То	Recovery				
0 4.50 7.30 10.10 12.90	4.50 7.30 10.10 12.90 15.30	Rotary 2.80 2.80 2.80 2.35	0 - 4.20 m Clay containing sheet & nodular kankar with pisolitic texture.		Pliocene Pleisto- cene	,
15.30 18.10 21.00 23.80 26.60 29.10	18.10 21.00 23.80 26.60 29.10 32.00	2.80 2.90 2.60 2.76 2.50 2.90	4.20 - 28.10 m Hard indurated calc- arenite strongly fractured parallel to the strike.	Nullarbor Limestone	Lo	Pelecypoda gastropoda algal nodules
			28.10 - 29.10 m Red algal limestone	Mulla- mullang Member?	Lower	Calcareous algae?
			29.10 - 31.95 m Yellow, hard indurated bryozoan calcarenite 31.95 - 32.00 m Fossil bed mainly Turritella aldingae Tate? Probably marking the surface of disconformity with the underlying Wilson Bluff Limestone.	Abrakurrie Limestone	Miocene	Bryozoa pelecypoda brachiopoda



Black numbered lines indicate the 10,000 yard Transverse Mercator Grid, Zone 4 Australia Series



KEY.

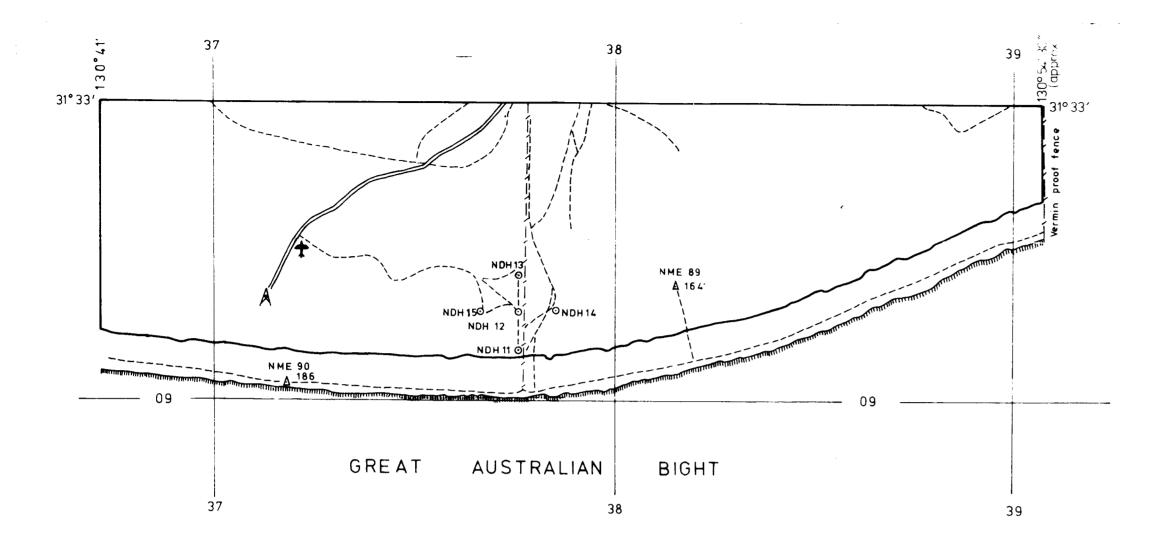
LANDING GROUND.

MICROWAVE TOWER.

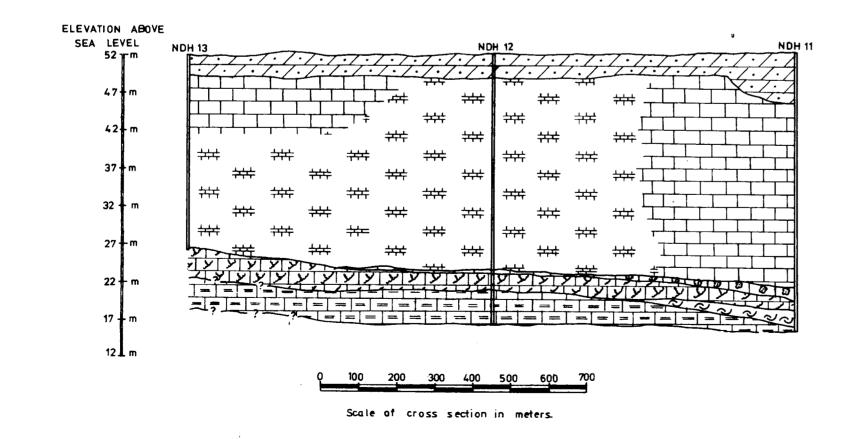
MME.90. MAJOR CONTROL STATION.

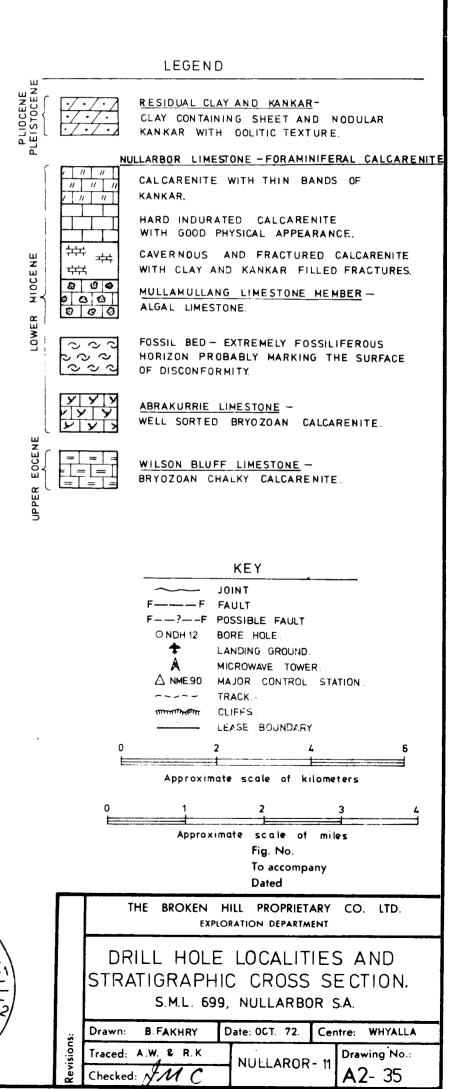
ONDH 12 BORE HOLE.

TRACK.



Black numbered lines indicate the 10,000 yard Transverse Mercator Grid, Zone 4 Australia Series

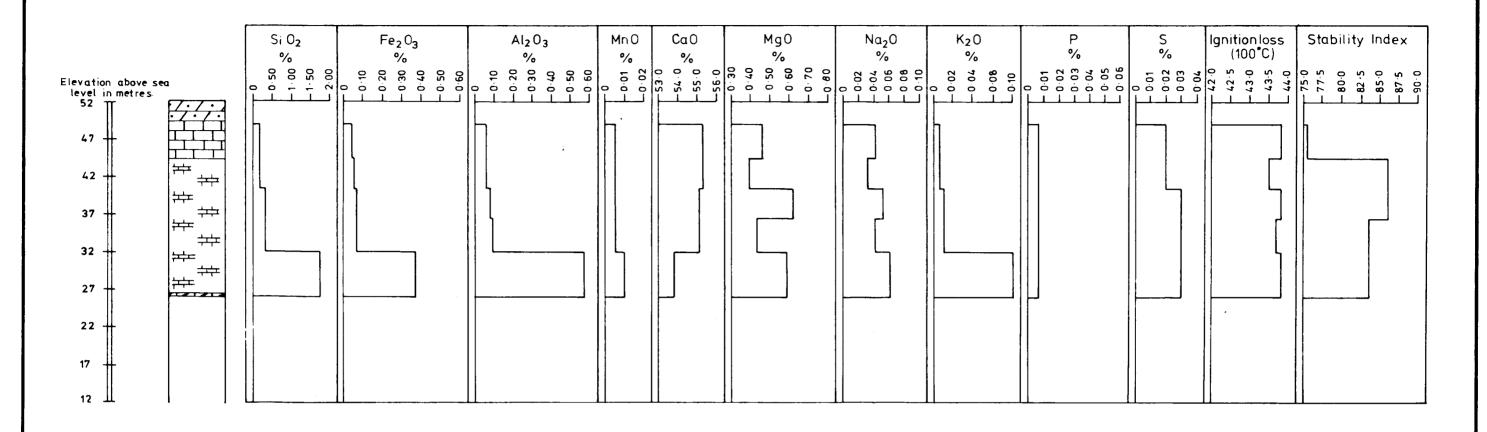


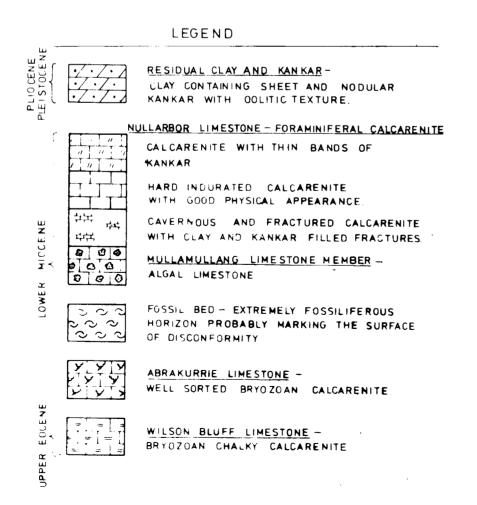


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SECURITY

2 097

Fig No To accompany Dated

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GEOLOGICAL LOG AND ANALYSIS RESULTS

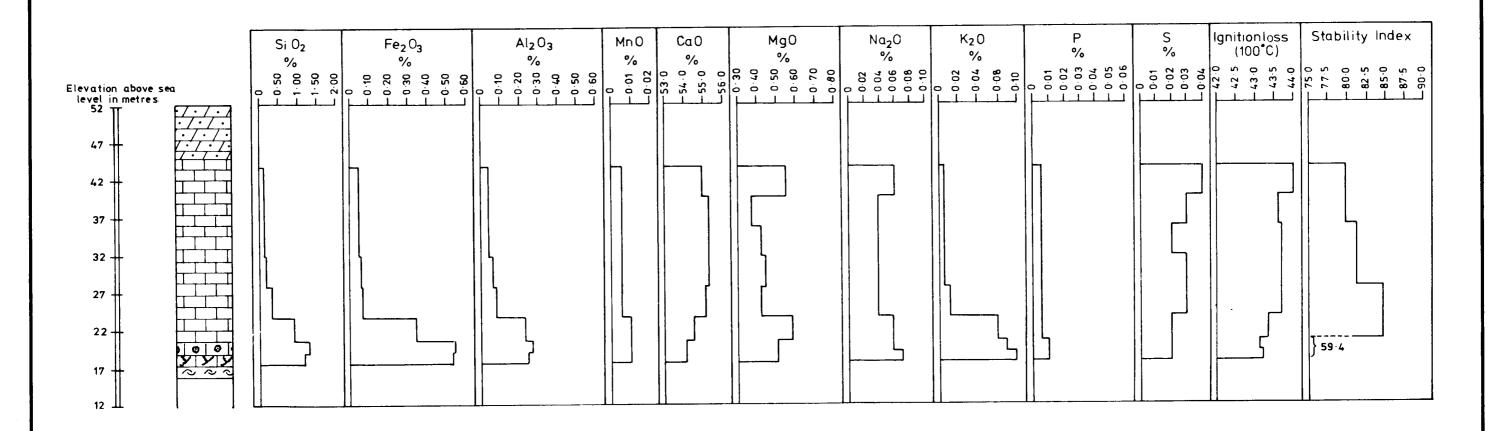
DRILL HOLE No. 13. S.M.L. 699.

NULLARBOR S.A.

R.K.

Drawn:

on	Prepared	by: B.	FAKHRY	Centre:	WH	IYALLA	
÷	Date:	NOV	. ` 72	Project N	lo:	Drawing	N



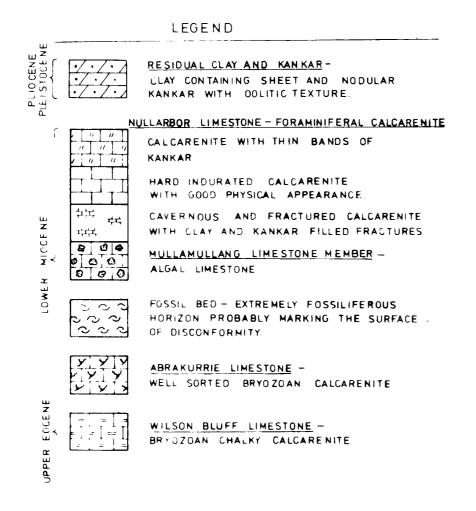


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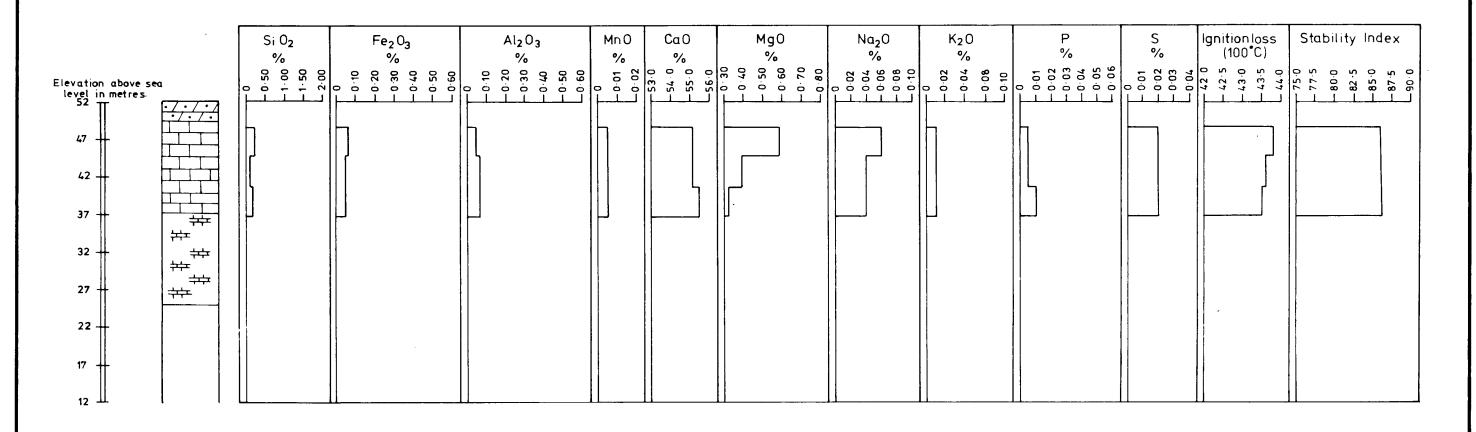
THE BROKEN HILL PROPRIETARY CO. LTD. EXPLORATION DEPARTMENT

GEOLOGICAL LOG AND ANALYSIS RESULTS

DRILL HOLE No. 11. S.M.L. 69 9.

NULLARBOR S.A.

5	Prepared by:	B. FAKHRY	Centre: W	HYALLA
<u>*</u>	Date:	NOV. '72	Project No: NULLARBOR	Drawing No:
2	Drawn:	R. K.	NULLARBOR 18	A3- 55



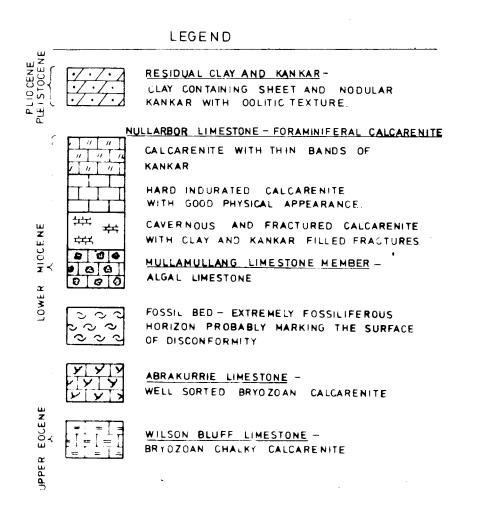


Fig No To accompan Dated



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GEOLOGICAL LOG AND ANALYSIS RESULTS
DRILL HOLE No.14. S M.L. 699.

 8		NULLARBOR S.A.
=	Decreed by	

Prepared by: B. FAKHRY Centre: WHYALLA

Date: NCV 72 Project No: Drawing No: NULLARBOR 20

A3-57