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TAS/EL 19/80/706

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of MS	A.O.	C.G.	E.O.	D.O.
				Registrar
Received	- 6 JUL 1981			C & IL
Answered				
DEPT. OF MINES				
5543/81				

AAR LIMITED
 Final Report
 Exploration Licence 19/80
 Scottsdale, Tasmania.

6-7-81

OPEN FILE

R. Osborne
 Geologist, Oil Shale

INTRODUCTION

Exploration licence 19/80 was granted to AAR Limited of 10 Eagle Street, Brisbane on the 20th August, 1980. The licence covers an area of 640 square kilometres in the Land District of Dorset in the vicinity of the Township of Scottsdale (Figure 1.).

The area was applied for to explore the known Tertiary sequence in the area for oil shales. Although no oil shales are known from the sediments in this area, the depositional environment near the base of the Tertiary sequence shows some indication of being lacustrine and oil shale deposition may occur in this environment.

Literature on the Tertiary sediments is very limited and the main source of information on the area was through discussions with geologists of the Department of Mines, Hobart.

Drill logs of water bores from the area were obtained from the Mines Department and a reconnaissance drilling program was planned to test part of the Tertiary sediments for oil shales.

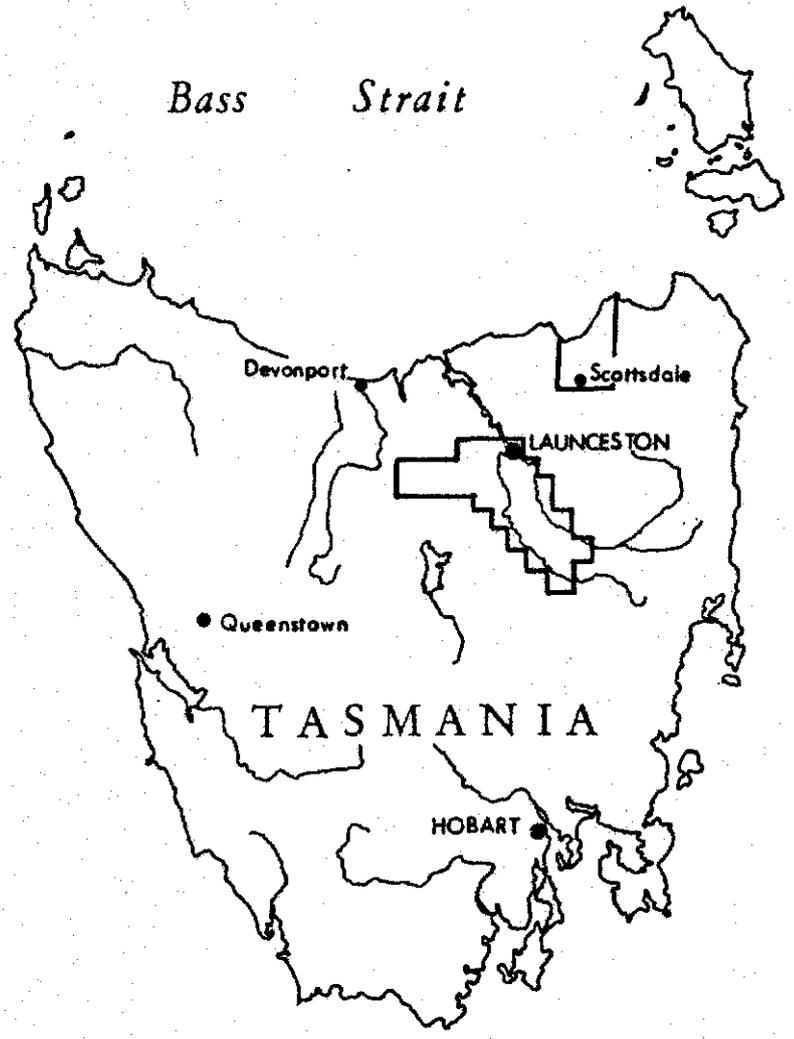
DRILLING PROGRAM

Exploration Drilling West Australia carried out the drilling as this company was already contracted by AAR for a larger program in the AAR Launceston area EL 20/80. Two rotary holes were drilled SD-1, 67m and SD-2, 98m; geophysical logs were also made using a portable SIE T450 portable logging unit. Drilling was undertaken between the 10th and 13th of April.

RESULTS AND CONCLUSIONS

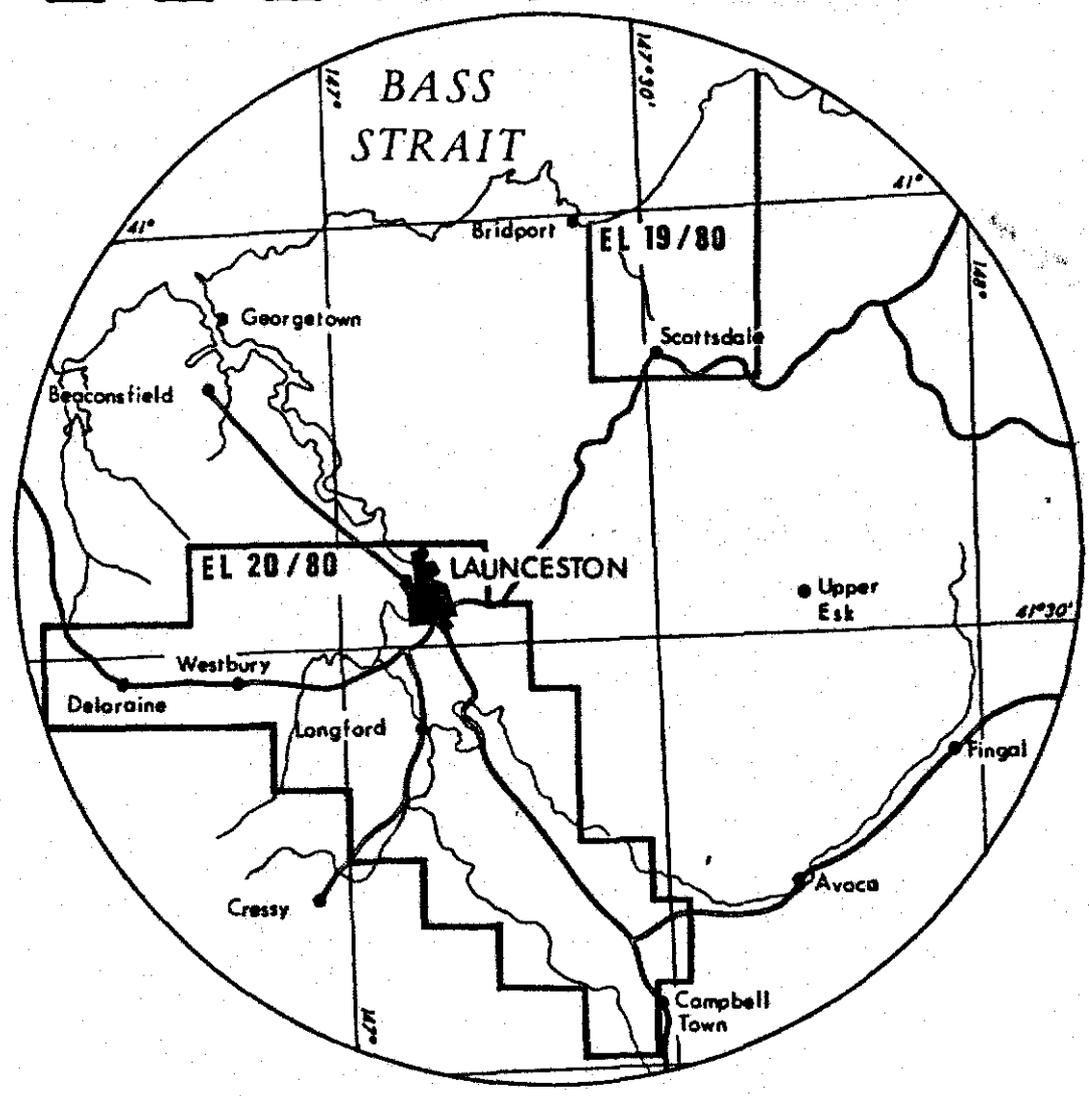
The Tertiary sediments encountered in both boreholes consisted of generally coarse gravelly immature quartzose sands, and no significant thickness of finer grained sediments or oil shales were intersected. The depositional environment of the sediments in the area appears to be of a medium to high energy fluvial type and no evidence of a lacustrine type environment of deposition where oil shales may occur was found near the base of the Tertiary sands. Both holes were terminated in the basement granite.

Figure 2 shows borehole locations, and geological logs are attached.



0 80 160 KM.

5 cm



Oil Shale Prospects
E.L. 19/80 and E.L.20/80

0 10 20 30 40 50 60 km

SCALE 1:1000 000

Fig. 1

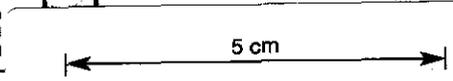
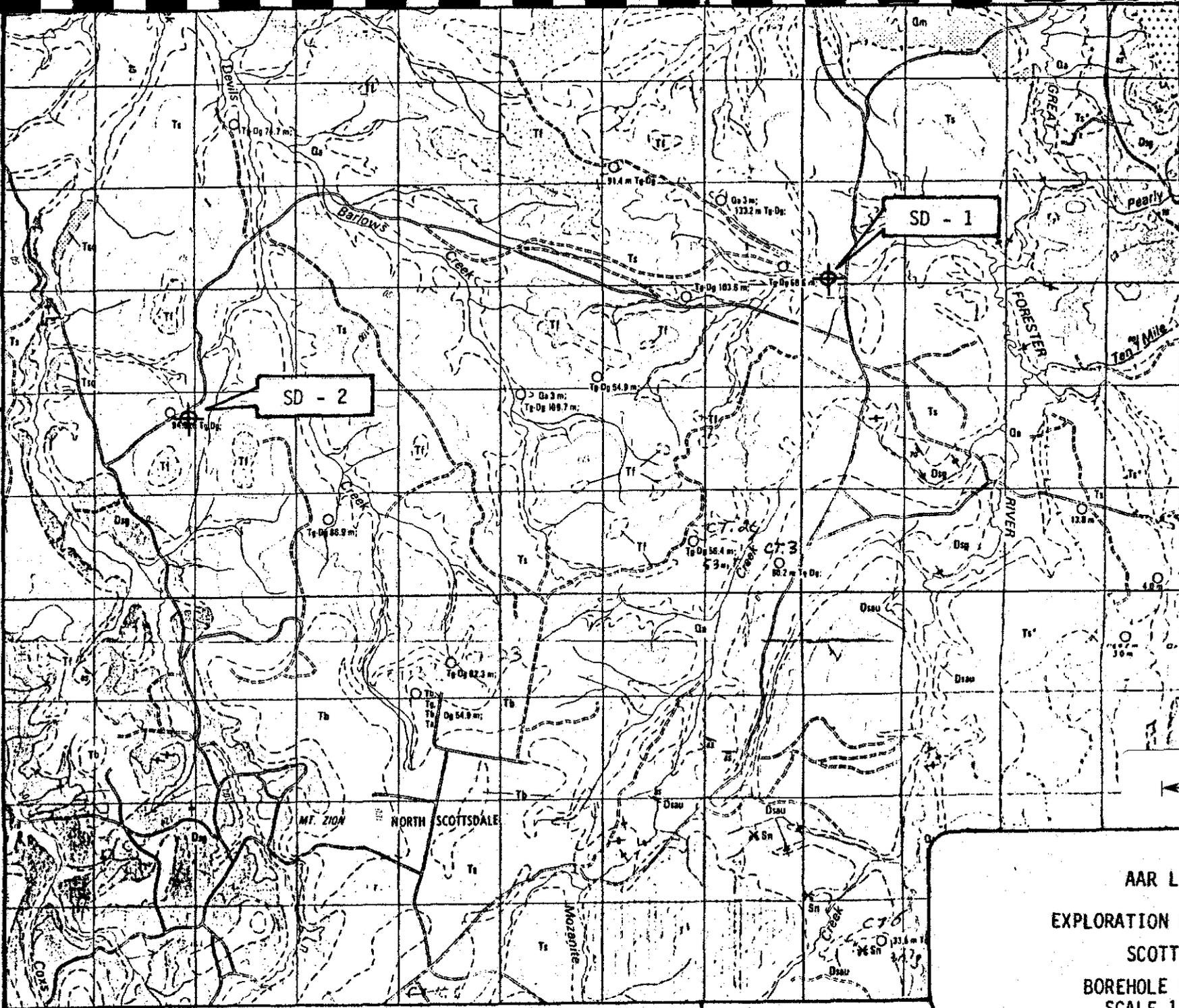
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147° 35'

41° 05'

150° 14'

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AAR LIMITED
 EXPLORATION LICENCE 19/80
 SCOTTSDALE
 BOREHOLE LOCATIONS
 SCALE 1:50,000

Fig. 2.

147° 35'

The results of the drilling programme together with the Mines Department lithologic logs of water bores drilled through the Tertiary sequence in the Scottsdale area indicate that the entire Tertiary section is non-prospective for oil shales.

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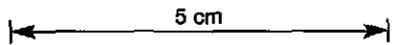


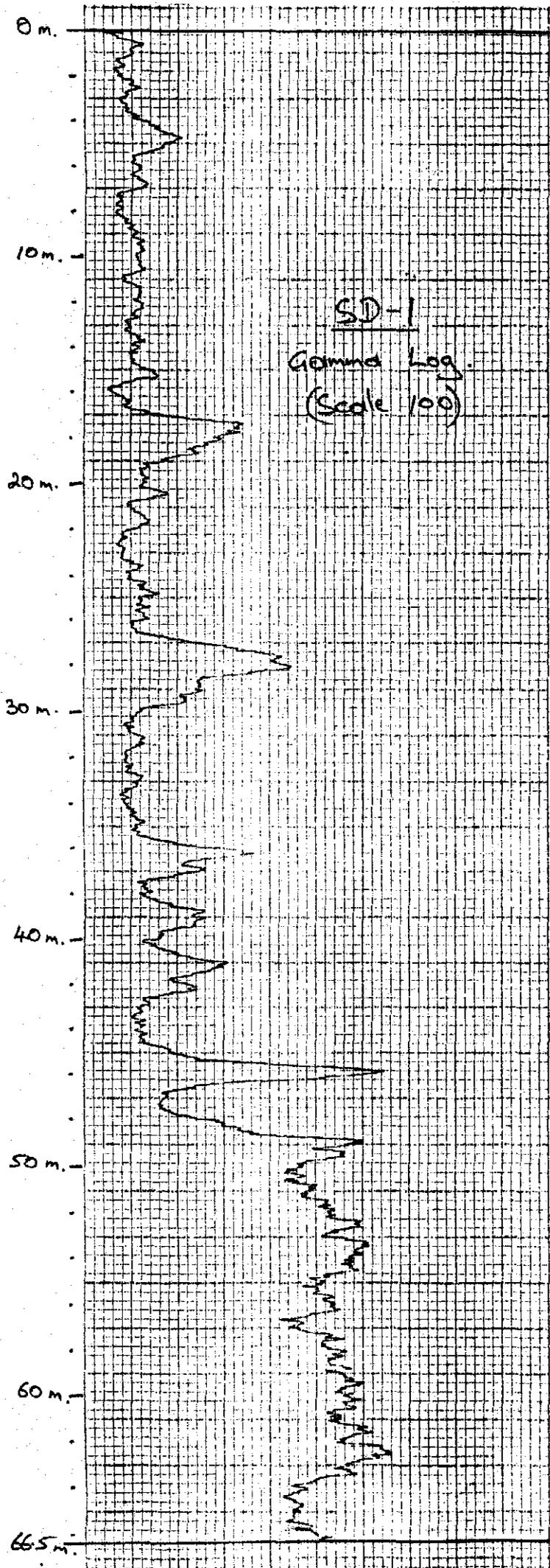
HOLE No. SD-1

PAGE 1 OF 2

PROJECT AREA: SCOTTSDALE PROJECT No. 32854
 SPUDED: 11/4/81 COMPLETED: 12/4/81
 LOCATION: 12 km. NNE of Scottsdale CO-ORDS: X: 5502 E. 54531 N
 ELEVATION: 60m asl. DIRECTION: — INCLINATION: -90° TOTAL DEPTH: 67m
 HOLE TYPE: O/H DRILLING CONTRACTOR: W.A. DRILLING DRILLER: A. FANJIO
 LOGGED BY: R.O. DATE: 12/4/81 BIT SIZE: 125mm TO 67m TO

CORE RECOVERY	METRAGE	DESCRIPTION	Core bedd'g angle and joint spacing	LOG SCALE: 1:	SAMPLE No.	Assayed length	ASSAY VALUE		
		0-2m FINE-MEDIUM GRAY SAND WITH ORGANIC MATERIAL							
		2-6m MEDIUM-COARSE SAND QUARTZITE SOME MUSCOVITE LIGHT FINE SAND FRACTION GREY							
	10	6-52m COARSE SAND + GRAVEL QUARTZ GRAINS + AGGREGATES OF QUARTZ IMMATURE SOME MUSCOVITE GRANITE DERIVED GREY COLOR BETWEEN 6 + 52m OCCASIONAL VERY THIN MICACEOUS SILTY CLAY LENS (EX FELDM)							
	20	(20-22) SILTY CLAY RED BROWN GRAY FC Rich Zone HIGHLY MICACEOUS							
	30								
	40								





5 cm

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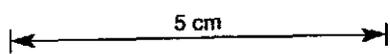


HOLE No. SD-2

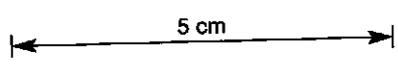
PAGE 1 OF 3

PROJECT AREA: SCOTTSDALE PROJECT No. 32854
 SPUNNED: 12/4/81 COMPLETED: 12/4/81 54518
 LOCATION: 8 km. North of Scottsdale CO-ORDS: X: 5439 E. 54518 N.
 ELEVATION: 100m asl DIRECTION: - INCLINATION: -90° TOTAL DEPTH: 98m
 HOLE TYPE: 0/4 DRILLING CONTRACTOR: W.A. Drilling Co. DRILLER:
 LOGGED BY: R.D. DATE: 12/4/81 BIT SIZE: 125mm TO 98m TO TO

CORE RECOVERY	METRAGE	DESCRIPTION	Core bedd'g angle and joint spacing	LOG SCALE: 1:	SAMPLE No.	Assayed length	ASSAY VALUE		
		0-8m FERRETTED DISOLITHS ROUNDED ANGULAR TOP 2-3 METRES TO 2CM. RED BROWN GRADES TO RED BROWN SLIGHTLY CLAYEY SILT.							
	10	8-11m CLAYEY SILT MOTTLED LIGHT GREY + grey BROWN COLOR SOFT							
		11-14m SANDS QUARTZOSE MEDIUM-COARSE DARK GREY, COATED WITH FC OR Mn?							
	20	14-26m SANDS UNSORTED FINE-MEDIUM- COARSE QUARTZOSE FINE THIN WHITE SILT, LAMIN, OVERALL COLOR GREY-BROWN.							
	30	26-32m CLAY SILTY MICACEOUS MOTTLED WHITE-YELLOW BROWN OXIDIZED PATTERNS + BANDS							
	40	32-78m MEDIUM-COARSE SANDS QUARTZOSE, MINOR WOODY MATERIAL OCCURS THROUGHOUT BUT IS MOST ABUNDANT IN THE INTERVALS 48-52, 54-56, 62-70 OVERALL GREY COLOR FOR SAND (38-44) FEW THIN BROWN CLAY BANDS							



CORE RECOVERY	METRAGE	DESCRIPTION	Core bedd'g angle and joint spacing	LOG SCALE: 1:	SAMPLE No.	Assayed length	ASSAY VALUE		
	50	(54-62) minor BROWN (A), DAMS							
	60								
	70								
	80	78-79m QUARTZ PEARLE & LOBBLE SAND							
		79-89m COARSE GRAVELLY SAND							
		QUANTZITE SLIGHT MUSCOVITE							
		grey color							
	90	87m very highly weathered							
		white							



011

5 cm

0 m.

10 m.

8 m.

20 m.

30 m.

40 m.

50 m.

SD-2

Gamma Log

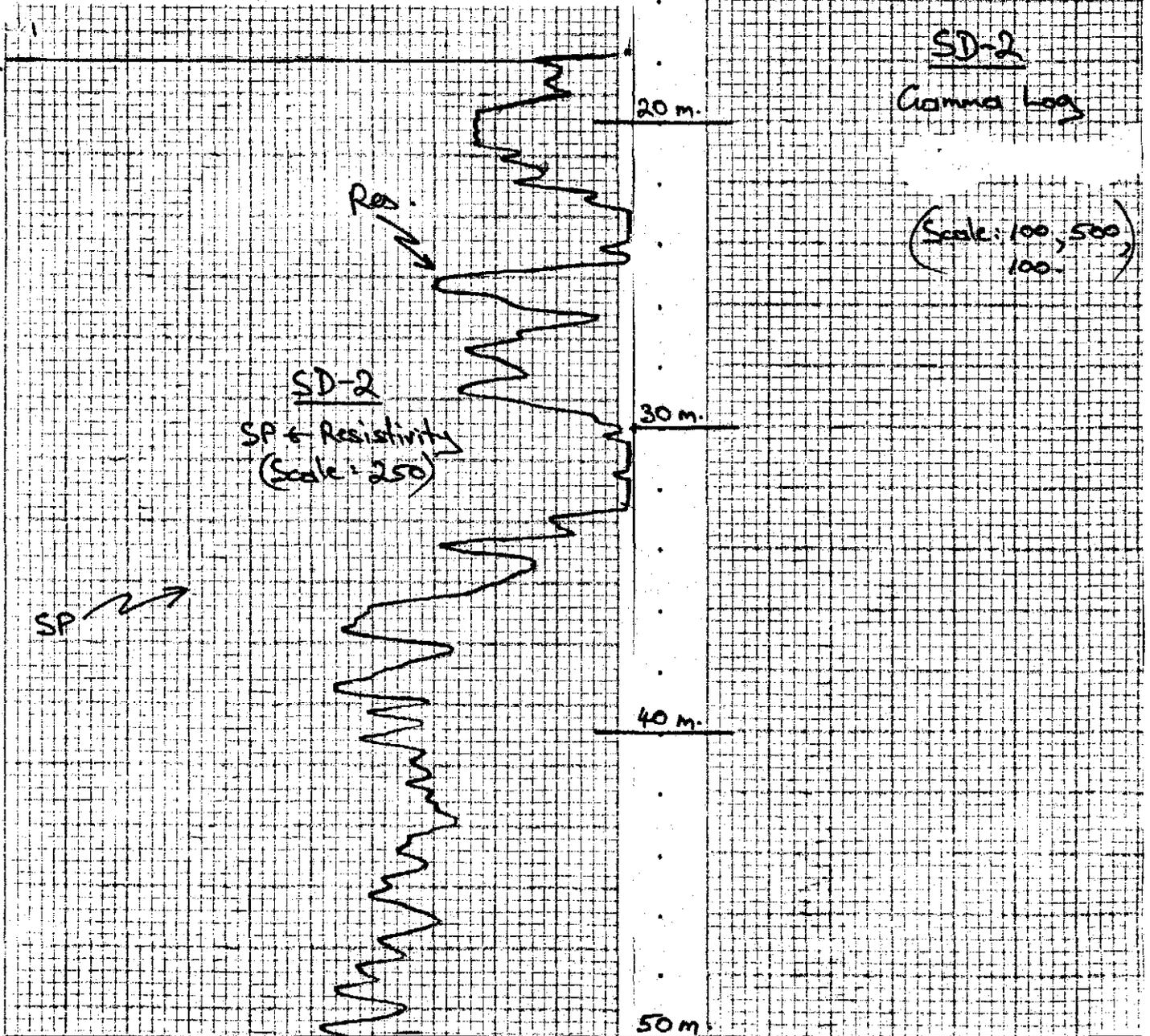
(Scale: 100, 500
100)

SD-2

SP & Resistivity
(Scale: 250)

SP

R_a



Hole continued on next page.

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SD-2 (Continued)

5 cm

