

APPENDICES 3

FLUID ANALYSES



The Australian
Mineral Development
Laboratories

Flemington Street, Frewville,
South Australia 5063
Phone Adelaide 79 1662
Telex AA 82520

Please address all
correspondence to
P.O. Box 114 Eastwood
SA 5063
In reply quote:

Our Ref:

amdel

7 December 1983

AC 3/743/0

AC 325/84

AC 1712/84

Mr D. Warner
Oilmin N.L.
PO Box 232
BRISBANE QLD 4001

Dear Mr Warner,

Further to our telephone conversation of 6 December 1983 I wish to inform you that the resistivity value reported for sample WM 4 of Job AC 325/84 is incorrect.

The reason for this was that the measurement was made on an early Model Phillips Conductivity bridge which gave some erratic measurements followed by total instrument failure some time after your results were reported. A routine quality control check failed to reveal the problem due to the erratic nature of the failure.

The instrument has since been replaced with a Radiometer CDM 3 unit, which has shown a high degree of precision and accuracy in the period it has been in service. Quality control procedures have also been upgraded by more frequent measurements of high and low range conductivity standards.

We have measured the resistivity of the sample on both jobs 325/84 and 1712/84.

Job No.	Sample	Resistivity at 25°C (ohM.M)
AC 325/84	WM 4	0.133
AC 1712/84	WM 4	0.132

We apologise for any inconvenience this has caused you.

Yours faithfully

The Australian Mineral Development Laboratories

R.K. Warner
Manager
Analytical Chemistry Division

RKW:cap

Head Office:
Flemington Street, Frewville
South Australia 5063,
Telephone (08) 79 1662
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Pilot Plant:
Osman Place
Thebarton, S.A.
Telephone (08) 43 8053
Branch Laboratories:
Melbourne, Vic.
Telephone (03) 645 3093
Perth, W.A.
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NATA CERTIFICATE

3/743/0 - AC 325/84

8 August 1983

Mr. G. Comley,
Oilmin NL,
16 Kidman Street,
ALICE SPRINGS, N.T. 5750

REPORT AC 325/84

YOUR REFERENCE: Telex of 29.7.83

IDENTIFICATION: As listed

DATE RECEIVED: 1 August 1983

D. Patterson
Chief Chemist

for B. Hickman
Managing Director *25*

cjw



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its terms of registration. This document shall not be reproduced except in full.

Plant: Osman Place
Thebarton S.A.
Telephone 42 0060
Branch Laboratories:
Perth W.A.
Telephone 325 7311
Melbourne Vic.
Telephone 645 3093

SAMPLE ID. DST 1

325/84

CHEMICAL COMPOSITION

DERIVED AND OTHER DATA

REMARKS

		MILLIGRAMS PER LITRE MG/L	MILLIEQUIVS. PER LITRE ME/L	CONDUCTIVITY (E.C.) MICRO-S/CM AT 25 DEG. C	39721.		
CATIONS				TOTAL DISSOLVED SOLIDS		MILLIGRAMS PER LITRE MG/L	
CALCIUM	(CA)	1540.0	76.8	A. BASED ON E.C.			
MAGNESIUM	(MG)	1000.0	82.2	B. CALCULATED (HCO3=CO3)		59050.	
SODIUM	(NA)	18000.0	783.0	C. RESIDUE ON EVAP. AT 180 DEG. C			
POTASSIUM	(K)	2170.0	55.5				
ANIONS							
HYDROXIDE	(OH)	0.	0.0	TOTAL HARDNESS AS CaCO3		7960.	
CARBONATE	(CO3)	0.	0.0	CARBONATE HARDNESS AS CaCO3		43.	
BICARBONATE	(HCO3)	53.	0.9	NON-CARBONATE HARDNESS AS CaCO3		7917.	
SULPHATE	(SO4)	4900.	102.0	TOTAL ALKALINITY AS CaCO3		43.	
CHLORIDE	(CL)	31410.	885.8	FREE CARBON DIOXIDE (CO2)			
NITRATE	(NO3)	< 4.	0.1	SUSPENDED SOLIDS			
				SILICA (SiO2)			
				BORON (B)			
TOTALS AND BALANCE						UNITS	
CATIONS (ME/L)		997.6	DIFF = 8.9	REACTION - PH		6.3	
ANIONS (ME/L)		988.7	SUM = 1986.3	TURBIDITY (JACKSON)			
				COLOUR (HAZEN)			
DIFF*100.							
				SODIUM TO TOTAL CATION RATIO (ME/L)		78.5 %	
SUM							

NAME- OILMIN
ADDRESS-ALICE SPRINGS

HUNDRED-
SECTION-
HOLE NO-
SUPPLY-
SAMPLE COLLECTED BY-

WATER CUT-
WATER LEVEL-
DEPTH HOLE-

DATE COLLECTED
DATE RECEIVED