(12)

34 2084 OR-335

SCHLUMBERGER

BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY

COUNTY AUSTRALIA
FIELD or LOCATION WILDCAT
WELL CORMORANT 1
COMPANY ESSO

COMPANY ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.,
WELL CORMORANT 1
FIELD WILDCAT
COUNTY AUSTRALIA STATE TASMANIA
LOCATION LAT.: 39° 34' 22.8"S LONG: 145° 31' 35.7"E
Other Services: IES, FDC-GR, CST, CDM, MLL, FIT.
Sec. Twp. Rge.

Permanent Datum: MSL Elev. 0
Log Measured From RT, 99 Ft. Above Perm. Datum
Drilling Measured From RT
Elev.: K.B. 100 D.F. 99 G.L. 0

Date	13 JUNE 70	10 JULY 70		
Run No.	1 5"	2 5"		
Depth—Driller	3002	9845		
Depth—Logger	3002	9837		
Btm. Log Interval	2999	9836		
Top Log Interval	810 GR: 275	2952		
Casing—Driller	20" @810	@ 2952	@	@
Casing—Logger	810	2952		
Bit Size	9⅞	12¼		
Type Fluid in Hole	SPERSENE GEL	LIGNOSULPHONATE		
Dens. | Visc.	9.2 | 50	10.3 | 41		
pH | Fluid Loss	8.0 | 11 ml	10 | 9.2 ml	ml	ml
Source of Sample	FLOWLINE	CIRCULATION		
R_m @ Meas. Temp.	1.72 @60 °F	2.03 @64 °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	1.22 @60 °F	1.8 @63 °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	1.79 @60 °F	0.7 @198 °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	PRESS | PRESS	PRESS | CHART		
R_m @ BHT	1.1 @104 °F	0.66 @198 °F	@ °F	@ °F
Time Since Circ.	6 HOURS	5 HOURS		
Max. Rec. Temp.	104 °F	198 °F	°F	°F
Equip. | Location	2072 | SAL	2072 | SAL		
Recorded By	SCHON-ROBERTS	GASTALDY		
Witnessed By	COONEY	BLACK		

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

REMARKS RUN 1 WCD USED DIS. 2'. BIT SIZE RECORDED 1" TOO LOW FROM TD TO 1700'.

Changes in Mud Type or Additional Samples				
Date | Sample No.				
Depth—Driller				
Type Fluid in Hole				
Dens. | Visc.				
ph | Fluid Loss		ml		
Source of Sample				
R_m @ Meas. Temp.	@	°F	@	°F
R_{mf} @ Meas. Temp.	@	°F	@	°F
R_{mc} @ Meas. Temp.	@	°F	@	°F
Source: R_{mf} | R_{mc}				
R_m @ BHT	@	°F	@	°F
R_{mf} @ BHT	@	°F	@	°F
R_{mc} @ BHT	@	°F	@	°F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down Hole

Equipment Data

Run No.	Tool Type	Pad Type	Tool Pos.	Other

C.D.: YES S.O.: - -
Equip. Used: CART. No. SLC-B 357 SLC-B 357
PANEL No. SLP-C 353 SLP-C 353
SONDE No. SLS-D 389 SLS-D 389

CALIBRATION:	BACKGND. CPS.	SOURCE CPS.	GALV. INCR. DIVISIONS	SENS. TAP (FOR CAL.)	SENS. TAP (RECORD)	TIME CONST.	RECORDING SPEED (FT./MIN.)
GAMMA RAY:							

$$\text{Velocity (feet per second)} = \frac{1{,}000{,}000}{\text{Interval Transit Time (microseconds per foot)}}$$

GAMMA RAY API UNITS	DEPTHS	INTERVAL TRANSIT TIME MICROSECONDS PER FOOT
0 — 150		T 3 R₁ 2 R₂
SPONTANEOUS POTENTIAL - 20 +	5"	140 — 90 — 40
CALIPER HOLE DIAM. IN INCHES 6 — 16		240 — 190 — 140