



DUAL PROPAGATION
RESISTIVITY
GAMMA RAY
FORM 7511 (REV. 11/81)
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Company BHP PETROLEUM VIC 2021	Country AUSTRALIA	Well Location LAN : 38 deg 42' 12.23" SOUTH LON : 143 deg 57' 12.34" EAST	Other Services:
Company BHP PETROLEUM	Field TITERNIA-1	Country VIC 2021	
State VICTORIA	County OTWAY BASIN	City VICTORIA	
Drilling Contractor DORRILL DRILLING	Drilling Contract No. 11000	Drilling Contract Date 12/17/84	
Well Name MEASURED DEPTH	Well Type FINAL PRINT	Well Status 11000	
Client BHP PETROLEUM	Client Address 11000	Client Phone 11000	
Operator G. HOWARD	Operator Address 11000	Operator Phone 11000	
Recorder A. FEIL	Recorder Address 11000	Recorder Phone 11000	
Company Rep. G. HOWARD	Company Rep. Address 11000	Company Rep. Phone 11000	
Field Eng. A. FEIL	Field Eng. Address 11000	Field Eng. Phone 11000	

Bit Run No.	4	6	10	11
Run Number	1	2	3	4
DNA Number	8 8447-02	8 1674-09	8 1674-09	8 1674-09
Surface Gear	15 TR2200	15 TR2200	15 TR2200	15 TR2200
Tool OD / Type	8.25" / DPR	6.75" / DPR	6.75" / DPR	6.75" / DPR
Run Data				
Bit Diameter	12.25"	8.5"	8.5"	8.5"
Measured Depth In	558.0m	1283.0m	1821.0m	2831.0m
Measured Depth Out	1294.0m	1191.0m	1819.0m	2827.0m
Top Interval Logged	558.0m	1191.0m	2827.0m	2194.0m
Bit Interval Logged	1194.0m	1818.0m	2827.0m	2194.0m
Min/Max Inclination	0.4/2.5	3.7/7.6	7.6/8.8	8.9/9.0
Begin Log : Time	14:45 hrs	19:13 hrs	07:45 hrs	10:00 hrs
Begin Log : Date	12-03-1993	15-03-93	28-03-93	24-03-93
End Log : Time	20:45 hrs	23:30 hrs	05:00 hrs	13:35 hrs
End Log : Date	13-03-1993	15-03-93	21-03-93	24-03-93
Mud Data @ Depth	850m	1600m	1971m	2101m
Mud Type	KCI PHPA	KCI PHPA	KCI PHPA	KCI PHPA
Density from-to	1.08	1.12 - 1.14	1.14 - 1.15	1.15
Mud Chlorides	33000	40000	45000	51000
Oil/Water Ratio	0/100	0/100	0/100	0/100
Max Circ. Temp	32 C	59 C	64 C	61 C
Company Rep.	G. Howard	G. Howard	G. Howard	M. Imbert
Field Eng.	A. Feil	A. Sonoff	A. Feil	A. Sonoff

Remarks

LOG MNEMONICS:
 GRAM - Natural Gamma Ray, API Calibrated (RWD)
 GRAN - Natural Gamma Ray, API Calibrated (RWD)
 TCDP - MUD Tool Temperature (RWD)
 TCDI - MUD Tool Temperature (RWD)
 RPHC - Resistivity Phase Difference, Borehole Corrected (RWD)
 RACH - Resistivity Phase Difference, Dielectric Corrected (RWD)
 RPHD - Resistivity Amplitude Ratio, Borehole Corrected (RWD)
 RADC - Resistivity Amplitude Ratio, Dielectric Corrected (RWD)
 PDCI - Resistivity Phase Difference, Dielectric Corrected (RWD)
 PDDI - Resistivity Phase Difference, Dielectric Corrected (RWD)
 RPS - Resistivity, Data Density Integrated
 RPS - Resistivity, Data Density Integrated
 RPS - Rate of Penetration (Surface)
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VERIFICATION MNEMONICS:
 PDBV - Phase Difference Base (VER)
 PDVV - Phase Difference Offset (VER)
 PDV - Phase Difference Correction (VER)
 ATBV - Attenuation Base (VER)
 ATDV - Attenuation Offset (VER)
 ATCV - Attenuation Correction (VER)
 TCDV - MTC Temperature (VER)

SUB ASSEMBLY MNEMONICS:
 DPR - Dual Propagation Resistivity
 DIR - Directional
 DET - Gamma Ray Detector

Remarks

SENSOR TO BIT DISTANCE (M)

Teleco Run Number	1	2	3	4
Bottom of Teleco Tool	9.02	2.43	2.45	2.45
Resistivity	9.50	3.00	3.02	3.02
Gamma Ray	1.35	1.76	4.88	4.88
Directional	13.78	7.35	7.41	7.41

TOOL INFORMATION

Parameter	1	2	3	4
Total Length	12.37	12.78	12.78	12.78
Total Weight Kg	33.00	16.00	16.00	16.00
Run Circulating Hrs	35.00	34.00	24.00	18.00

RIGSITE SENSOR VERIFICATION DATA:

Verification	Pre 1	Pre 2	Pre 3	Pre 4
DPR	8107	6029	6029	6029
PD cel. deg	10.488	8.463	8.463	8.463
PD sig. deg	3.324	8.339	8.379	8.202
Delta +/- deg	-0.484	-0.124	-0.88	-0.261
AR cel. dB	6.243	5.530	5.530	5.530
AR sig. dB	0.777	0.880	0.930	0.659
Delta +/- dB	0.234	-0.441	0.674	0.126
TEMP. Sensor C	16.3	21.2	28.1	17.4
DET	n/a	413-8	413-8	413-8
Background cps	3.5	3.4	4.2	3.7

Remarks

LOG ENVIRONMENTAL CORRECTIONS:

Gamma Ray: Normalised for Tool Size, Borehole Size, Sensor Type. Correction has been made for mud potassium content.

Resistivity: Normalised for Tool Size, Borehole Size, Mud Resistivity, Temperature. No correction has been applied for formation dielectric properties.

COMMENTS:

MUD Transmission Data Rate: x 4 Splitphase (0.8 bits/second)
 RWD Memory Update Rate: Gamma Ray: 1/18 Seconds
 RWD Memory Update Rate: Resistivity: 1/18 Seconds
 Surface Logging System Software: Series 7.1.33X
 Gamma Ray Detector Type: Scintillator
 Surface data provided by: Exlog: Bit Depth, Rate of penetration, Height on bit, RPM

REMARKS:

Remark 1 - No surface data from Exlog.
 Remark 2 - No data due to casing run.
 Remark 3 - Data lost due to high torque.
 Remark 4 - TD 8 1/2" hole section. End of teleco MUD service.

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