EASTMAN TELECO
A Baker Hughes company

DUAL PROPAGATION RESISTIVITY, GAMMA RAY

DEPT. NAT. RES & ENV
PE600434

Company	BHP PETROLEUM
Well	MINERVA-2A
Field	VIC/P31
County	OTWAY BASIN
State	VICTORIA
Country	AUSTRALIA

Well Location:
LAT : 38 deg 43' 04.535" SOUTH
LONG:142 deg 57' 20.800" EAST

Other Services:

API Number	Sect.	Twp.	Range

Log Measured From R.T. 25.0m Above Perm. Datum
Depth In 1533m MWD Start 27-08-93 Perm. Datum MSLT
Depth Out 2170m MWD End 11-10-93

Elev. KB N/A
Elev. DF 25.0m
Sea Bed/GL 85.0m

Bore Hole Record			Casing Record		
Hole Size	From	To	Casing Size	From	To
36"	85.0m	119.0m	30"	SEAFLOOR	200.0m
26"	119.0m	564.0m	20"	SEAFLOOR	456.0m
17 1/2"	464.5m	1538.0m	13 3/8"	SEAFLOOR	1526.0m
12 1/4"	1538.0m	2170.0m			

Drilling Contractor DOLPHIN DRILLING Rig BYFORD

1:500 MEASURED DEPTH

FINAL PRINT

Company Rep.	G.HOWARD	G. BLUNT	Job #
FIELD PERSONNEL	A. FELL	M. SALE	ETAU-248

Bit Run No.	4	8	10	12	15	
Eastman Teleco Data						
Run Number	1	2	3	4	5	
DHA Number	B 8442-01	B 2261-02	B 2261-02	B 2261-02	B 2261-02	
Surface Gear	IS TR2300	IS TR2300	IS TR2300	IS TR2300	IS TR2300	
Tool OD / Type	8.25"/DPR	8.25"/DPR	8.25"/DPR	8.25"/DPR	8.25"/DPR	
Run Data						
Bit Diameter	12.25"	12.25"	12.25"	12.25"	12.25"	
Measured Depth In	1538.0m	1733.5m	1855.5m	1882.5m	1969.0m	
Measured Depth Out	1728.0m	1839.0m	1855.5m	1915.5m	2170.0m	
Top Interval Logged	1531.0m	1722.0m	1828.0m	1843.0m	1906.0m	
Btm Interval Logged	1728.0m	1831.0m	1845.5m	1906.5m	1995.0m	
Min/Max Inclination	2.2-3.2 deg	3.3-3.9deg	3.9 deg	3.9 deg	3.6/3.9 deg	
Begin Log : Time	00:42 hrs	01:49 hrs	11:20 hrs	11:11 hrs	03:41 hrs	
Begin Log : Date	04-10-93	07-10-93	08-10-93	09-10-93	11-10-93	
End Log : Time	22:05 hrs	12:35 hrs	11:45 hrs	14:26 hrs	08:10 hrs	
End Log : Date	04-10-93	07-10-93	08-10-93	09-10-93	11-10-93	
Mud Data @ Depth	1650.0m	1800.0m	1855.0m	1900.0m	2000.0m	
Mud Type	KCl/POLYMER	KCl/POLYMER	KCl/POLYMER	KCl/POLYMER	KCl/POLYMER	
Density from-to	1.16sg	1.17sg	1.17sg	1.17sg	1.17sg	
Mud Chlorides	25000ppm	46000ppm	45000ppm	45000ppm	45000ppm	
Oil/Water Ratio	0/100	0/100	0/100	0/100	0/100	
Max Circ. Temp	31 C	48 C	52 C	49 C	55 C	
Company Rep.	G. Howard	G. Howard	G. Blunt	G. Blunt	G. Blunt	
Field Eng.	A. Fell	M. Sale	A. Fell	M. Sale	A. Fell	

Remarks

LOG MNEMONICS

GRAM = Natural Gamma Ray, API Calibrated [RWD]
TCDM = MWD Tool Temperature [RWD]
RPCM = Resistivity Phase Difference, Borehole Corrected [RWD]
RACM = Resistivity Amplitude Ratio, Borehole Corrected [RWD]
RPDM = Resistivity Phase Difference, Dielectrically Corrected [RWD]
RADM = Resistivity Amplitude Ratio, Dielectrically Corrected [RWD]
PDEM = Resistivity, Elapsed Time Since Drilled [RWD]
PDDM = Resistivity, Data Density Integrated
WBCS = Weight On Bit [Surface]
ROPS = Rate of Penetration [Surface]
RPMS = Revolutions Per Minute [Surface]

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.

Remarks

TOOL & DATA AQUISITION INFORMATION

TELECO RUN NUMBER	1	2	3	4	5
Sensor to bit distance (M)					
Bottom of Teleco Tool	4.360	8.170	8.170	8.170	8.170
Resistivity	4.880	8.794	8.794	8.794	8.794
Gamma Ray	6.260	10.100	10.100	10.100	10.100
Directional	8.925	12.745	12.745	12.745	12.745
Run Circulating Hours	27.00	13.00	1.75	5.00	16.00
RWD Memory Update Rate (Seconds)					
- Gamma Ray	5.00	5.00	5.00	5.00	5.00
- Resistivity	5.00	5.00	5.00	5.00	5.00

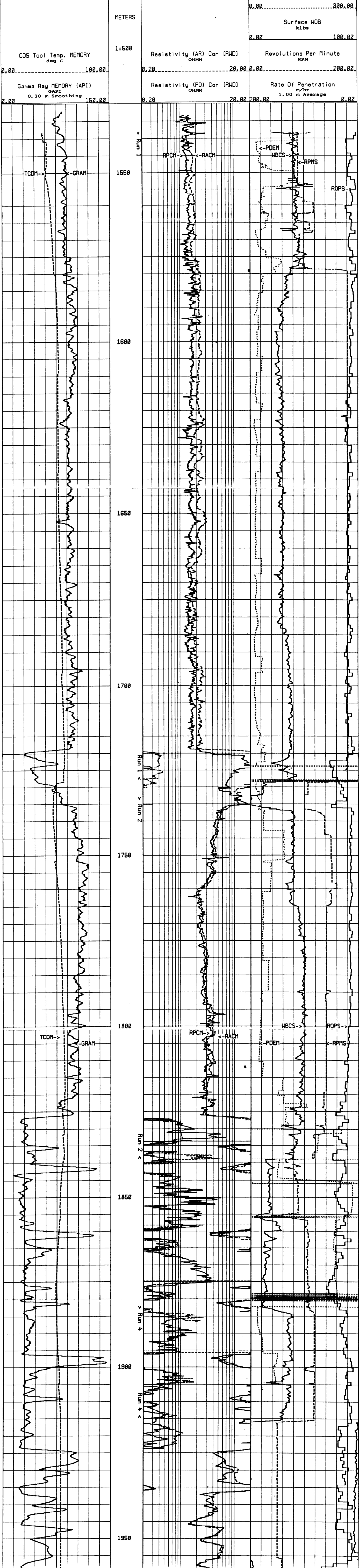
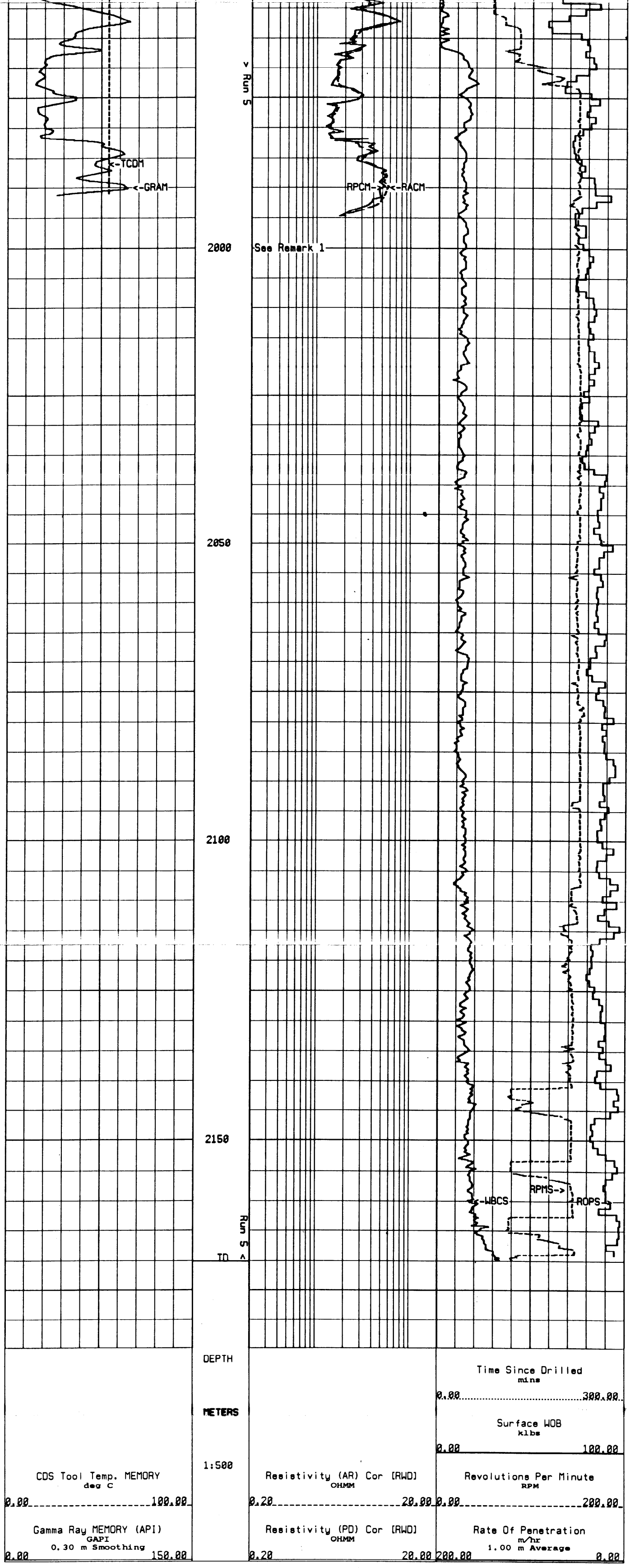
MWD Transmission Data Rate	:-x 4 Splitphase (0.8 bits/second)
Surface Logging System / Software	:-M-Series / 1.33X :-P-Series 2.01 :-HPUTIL
Surface data provided by Drillbyte mudlogging unit.	:-Bit Depth. :-Rate of penetration. :-Weight on bit. :-RPM

Remarks

REMARKS

No data due to resistivity/gamma failure.

Eastman Teleco does not guarantee the accuracy or correctness of interpretation provided in or from this log. Since all interpretations are opinions based on measurements, Eastman Teleco shall under no circumstances be responsible for consequential damages or any other loss, costs, damages or expenses incurred or sustained in connection with the use of any such interpretations. Eastman Teleco disclaims all expressed and implied warranties related to its service which is governed by Eastman Teleco's standard terms and conditions.

	DEPTH		Time Since Drilled mins