P 1442

ENCLOSURE

Enclosure 1

5" = 100'

COMPOSITE WELL LOG

NORTH BROKEN HILL LIMITED

COLSON 1

SIMPSON DESERT BASIN NORTHERN TERRITORY

LOCATION : LAT. 25° 57' 45" S
LONG. 136° 00' 00" E

ELEVATION : K.B. 298', G.L. 275' above m.s.l. approx.

TOTAL DEPTH : 7,980 (Drlr.) 7,974' (Schlum.)

WELL STATUS : PLUGGED AND ABANDONED

PETROLEUM TENEMENT O.P. 177

4 MILE SHEET SIMPSON DESERT SOUTH

DATE SPUDDED : NOVEMBER 20, 1978

DATE COMPLETED : DECEMBER 9, 1978

LOG COVERAGE : BHCS - G.R,
D.L.L. - MSFL. - SP - CAL,
FDC - CNL - Cal

LEGEND

● Oil Show

► Sidewall Cores

◢ Casing Shoe

PALYNOLOGY

M - Middle

Up. - Upper

L - Lower

J - Jurassic

Tr. - Triassic

P - Permian

BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY

Permanent Datum: MSL ; Elev.: 0
Log Measured From KB 298 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 298'
D.F. 297'
G.L. 275'

Date	10 DEC. '78			
Run No.	TWO			
Depth Driller	7980			
Depth—Logger (Schl.)	7974			
Btm. Log Interval	7960			
Top Log Interval	4424			
Casing Driller	9 5/8" @ 4430	@	@	@
Casing Logger	4424			
Bit Size	8½"			
Type Fluid in Hole	SPERSENE			
Dens. Visc.	9.6 45			
pH Fluid Loss	10.0 7.6 ml	ml	ml	ml
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	.794 @ 75 F	@ F	@ °F	@ F
Rmf @ Meas. Temp.	.492 @ 55 F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	1.12 @ 55 F	@ F	@ °F	@ F
Source: Rmf Rmc	MEAS MEAS			
Rm @ BHT	.25 @ 232 F	@ F	@ °F	@ F
TIME Circulation Stopped	2300 9 DEC			
TIME Logger on Bottom	1400 10DEC			
Max. Rec. Temp.	232 F	F	°F	°F
Equip. Location	294 LEA			
Recorded By	A.G.D. SMITH			
Witnessed By Mr.	W. LAWSON M. WILTSHIRE			

Run No.	ONE
Service Order No.	LEA 78-12-02
Fluid Level	SURFACE

EQUIPMENT DATA	
Sonic Panel No.	SLP JG71
Sonic Cart No.	ECH KX23
Sonic Sonde No.	SLS L 23
Mem. Panel No.	MMP B632
G.R. Cart. No.	SGC J 82
G.R. Panel No.	PGP EA701
Caliper No.	-
TTR No.	EB 1755
Centralizers: No.	-
Type	-
Standoffs: No.	3 X 1½"
Type	FIN
Time Const.-Sec.	2
Speed - F.P.M.	30

CALIBRATION DATA		
GR	BKG. CPS	80
	Source CPS	380
	Tc Sec	6

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

LOGGING DATA

Porosity Selectors				Depth	
Δt_m	Δt_f	Cp	Ø Scale	From	To

REMARKS SHIFT IN BHC LOG AT 5547'. AND IN LOG ABOVE THIS POINT ON FIRST RUN, HENCE SECOND REPEAT SECTION RUN TO VERIFY TOOL OPERATION, LOG RERUN, AND SPLICED TO RUN ONE AT 5550 FEET.

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

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

GAMMA RAY API UNITS

0 — 150

150 — 300

DEPTH

5"

INTERVAL TRANSIT TIME MICROSECONDS PER FOOT T3 R1 2 R2

140 — 90 — 40

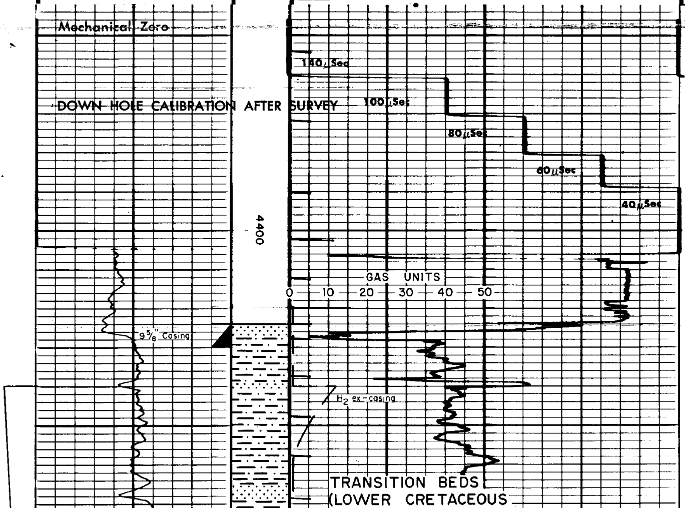
240 — 190 — 140

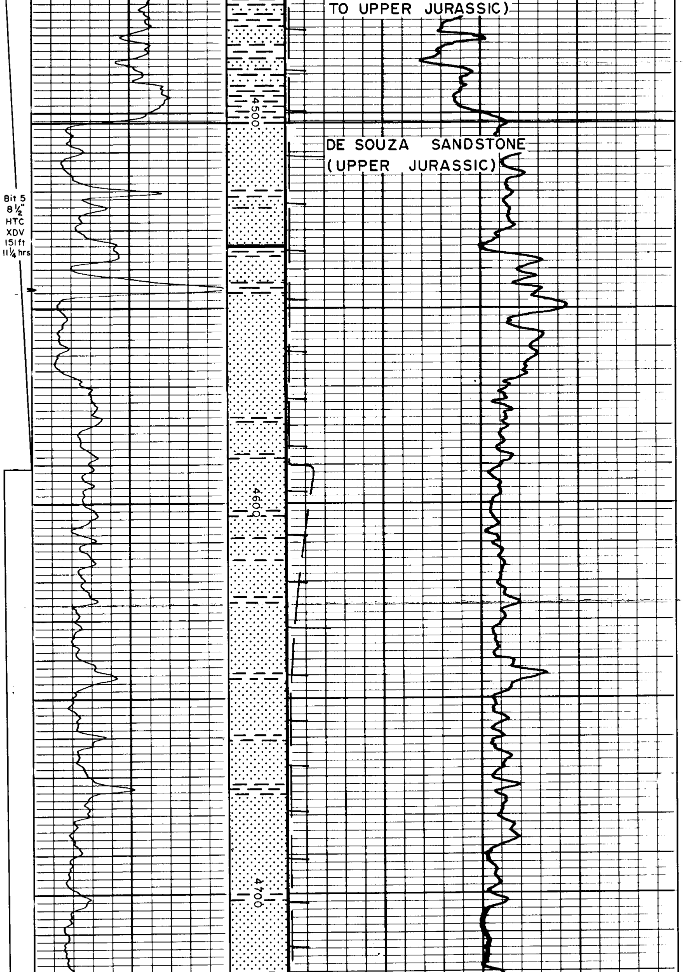
INTEGRATED TRAVEL TIME

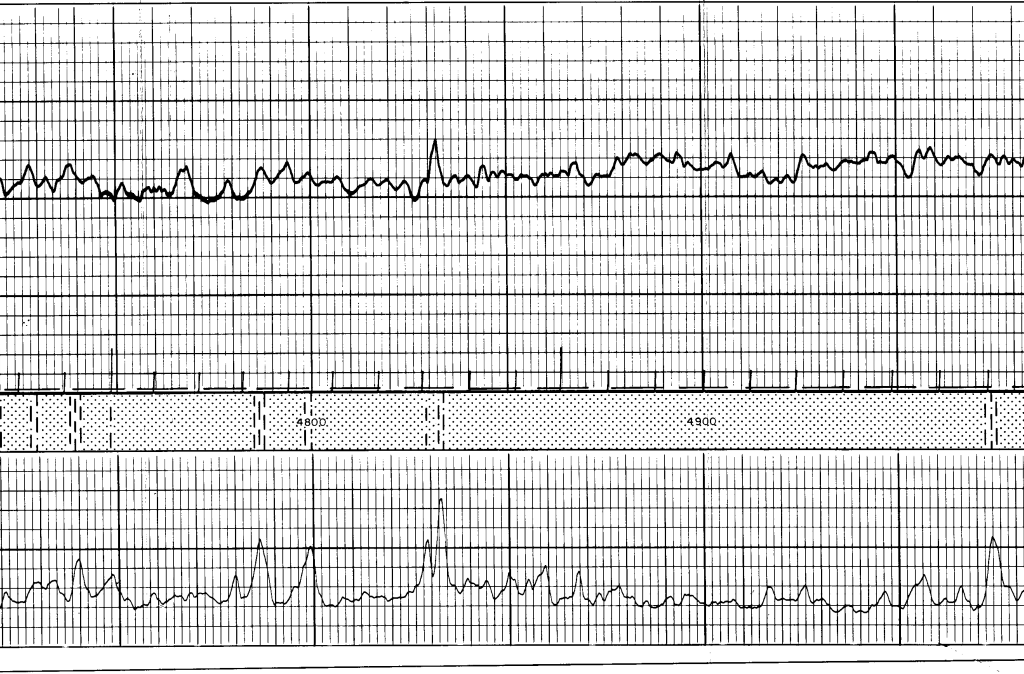
1 MILLISECOND

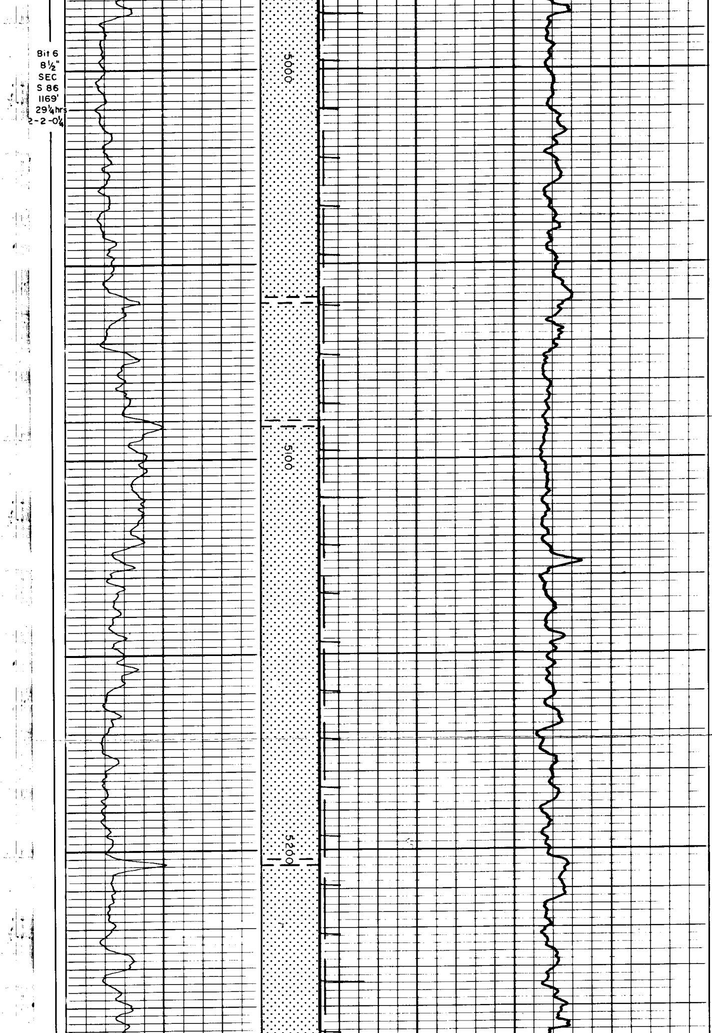
10 MILLISECONDS

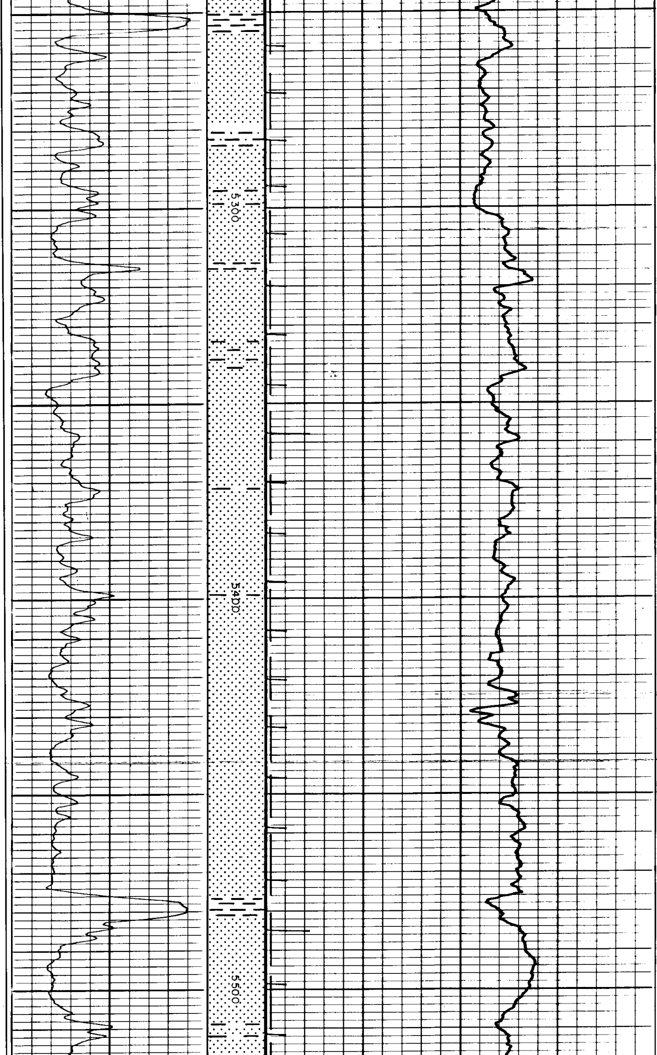
AGE DATING FROM PALYNOLOGY

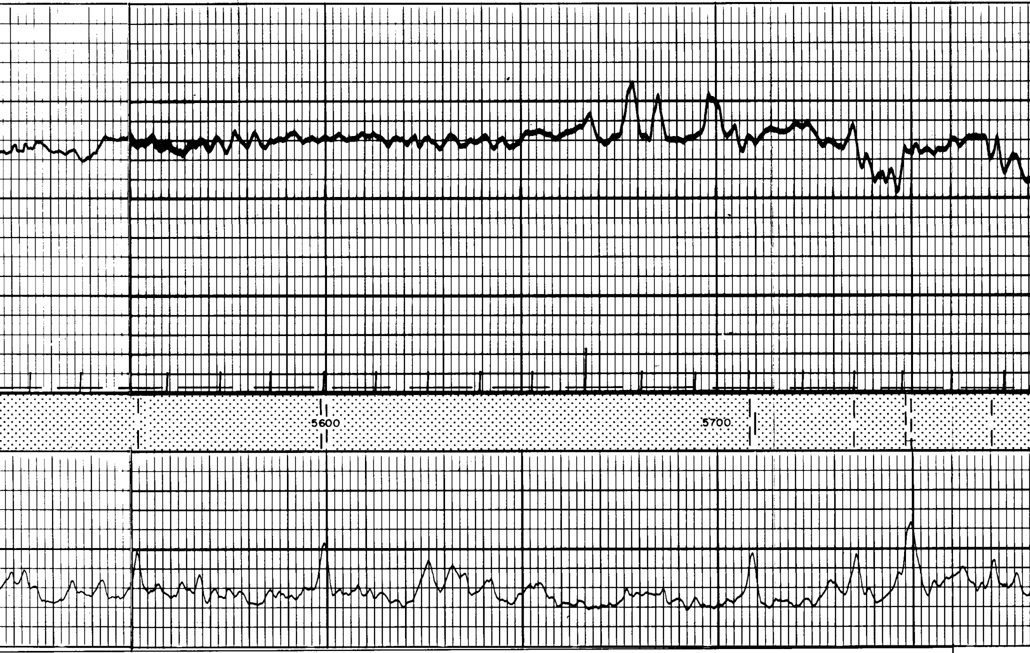


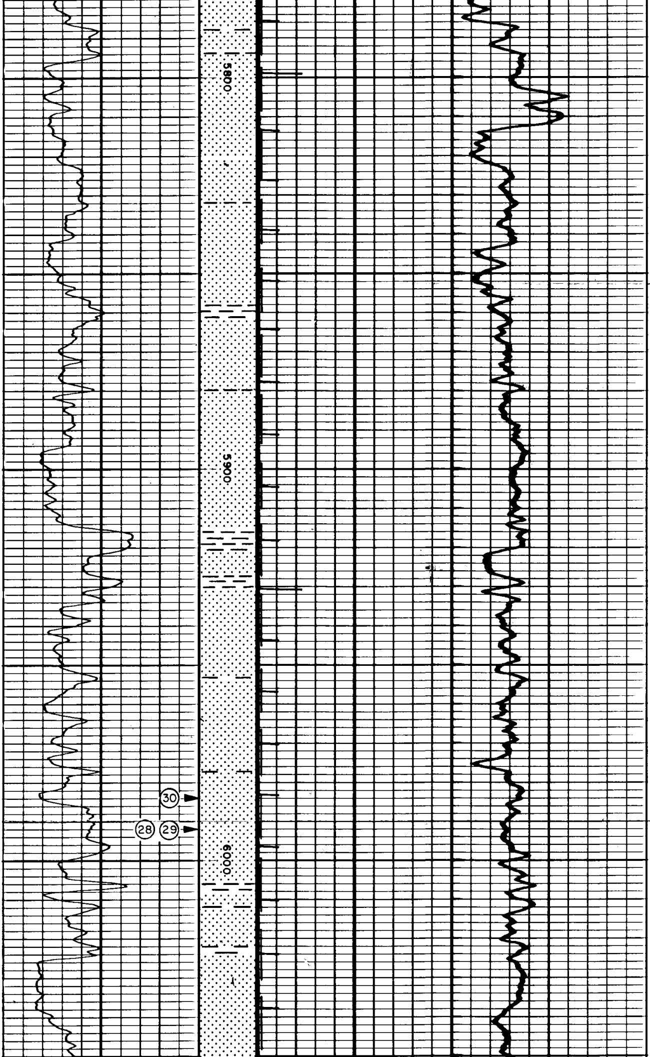




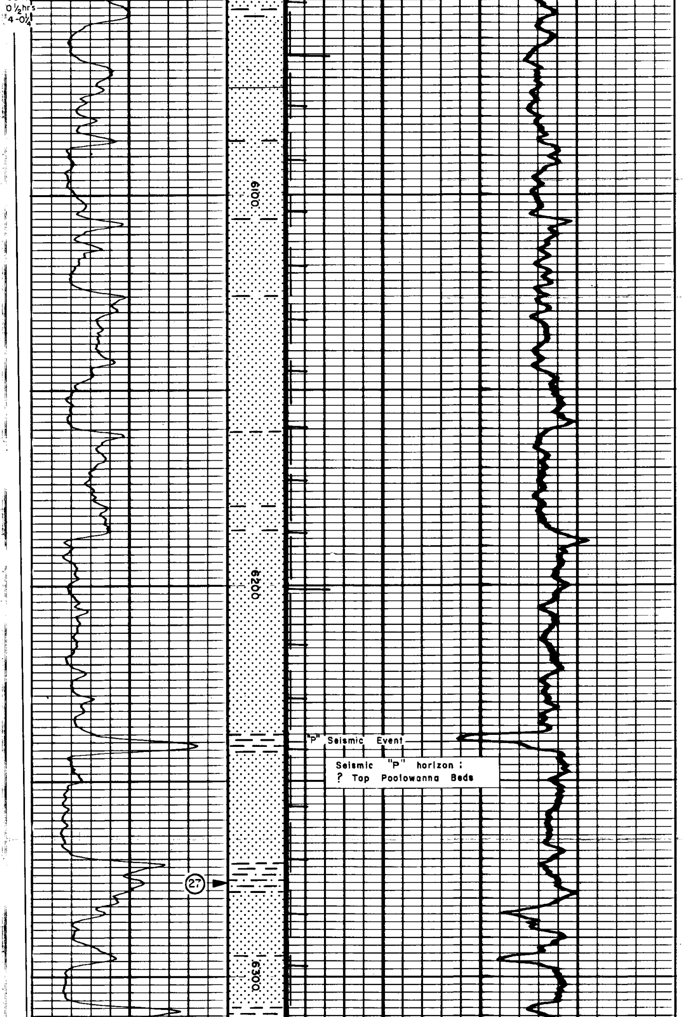


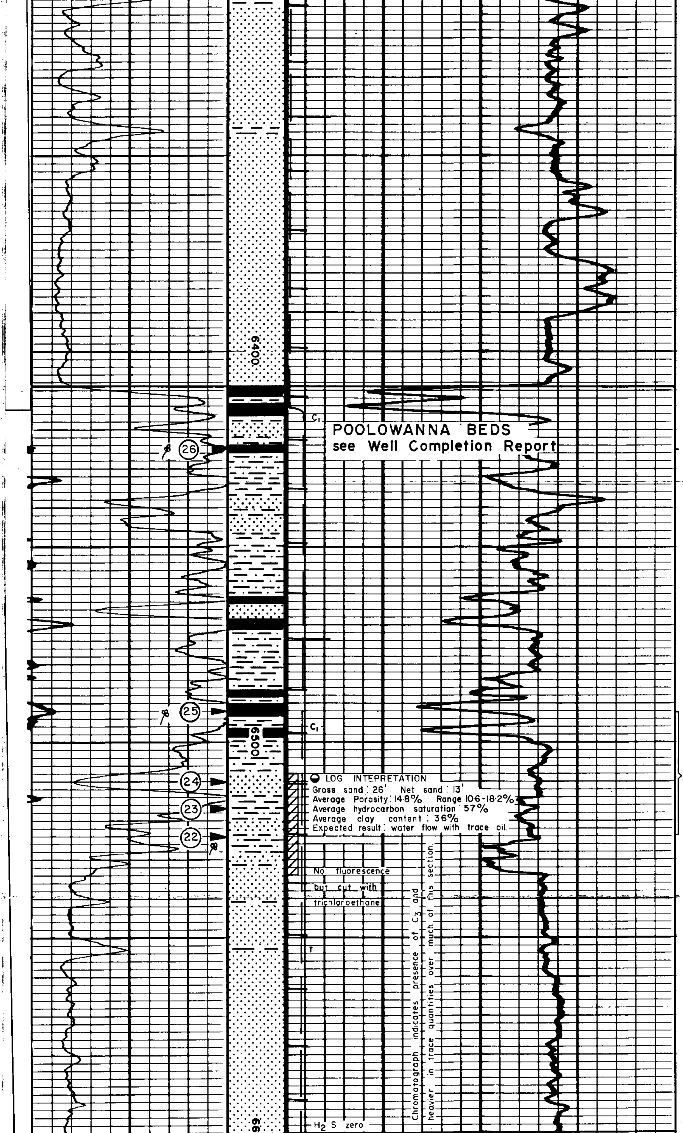






3it 7
8½"
SEC
88
55 ft





POOLOWANNA BEDS
see Well Completion Report

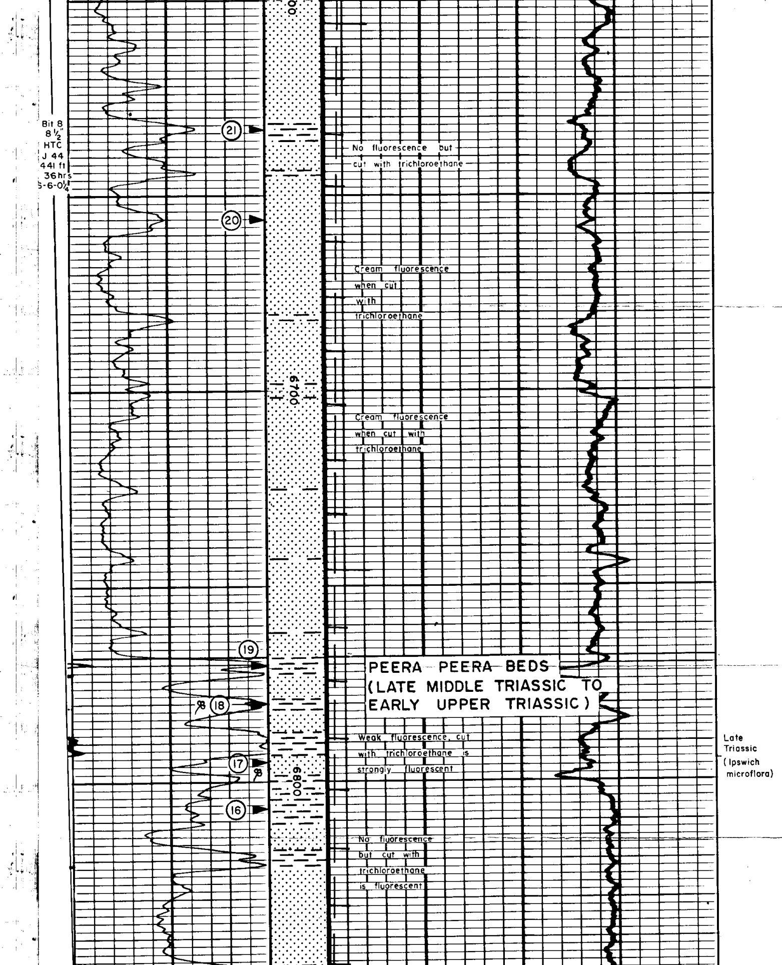
Jurassic
Stage J2-J3

Jurassic
Stage J1

LOG INTEPRETATION
Gross sand : 26' Net sand : 13'
Average Porosity : 14·8% Range 10·6-18·2%
Average hydrocarbon saturation : 57%
Average clay content : 36%
Expected result : water flow with trace oil.

No fluorescence but cut with trichloroethane

Chromatograph indicates presence of C_3 and heavier in trace quantities over much of this section.



No fluorescence but cut with trichloroethane

Cream fluorescence when cut with trichloroethane

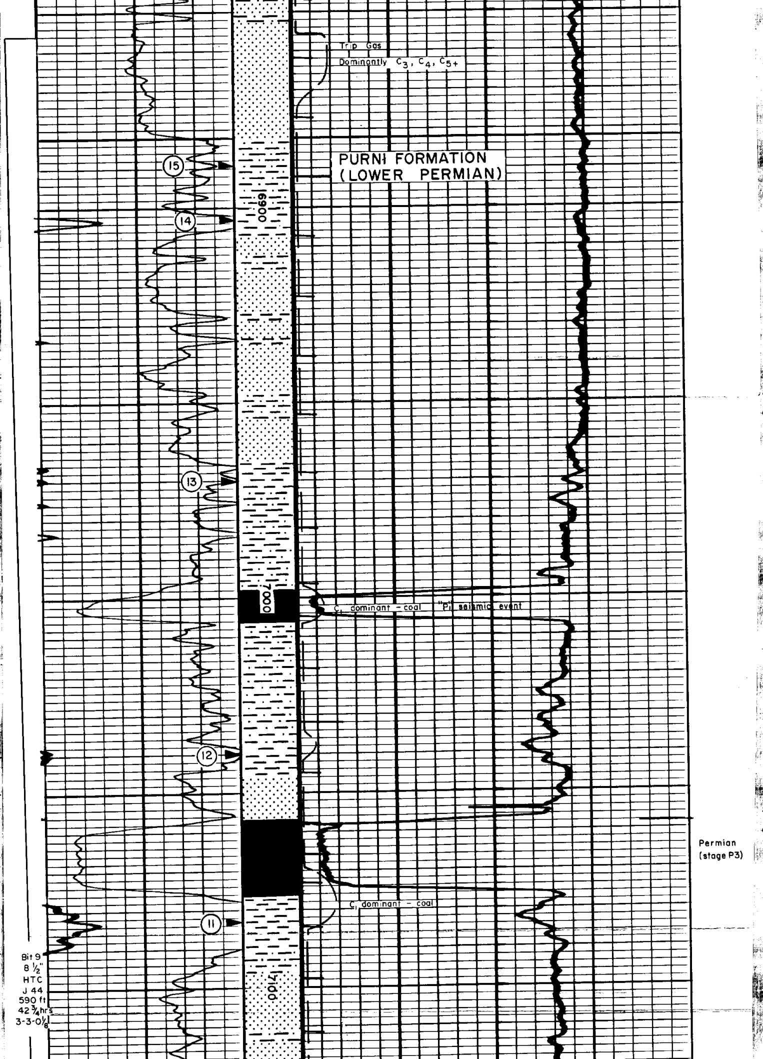
Cream fluorescence when cut with trichloroethane

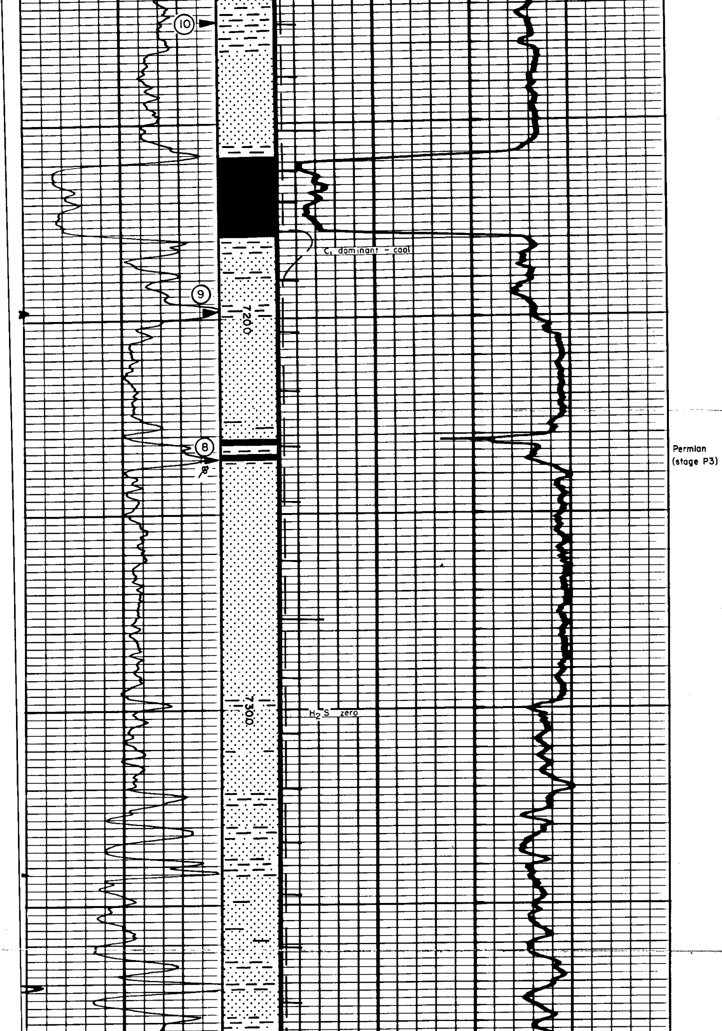
PEERA PEERA BEDS (LATE MIDDLE TRIASSIC TO EARLY UPPER TRIASSIC)

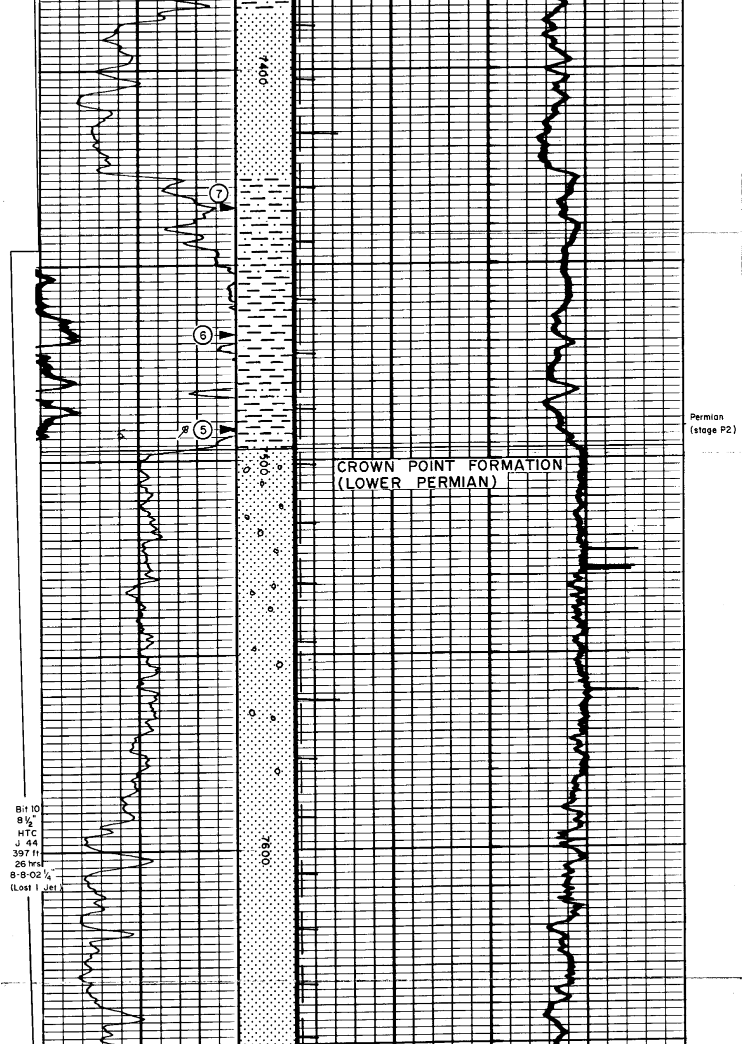
Weak fluorescence, cut with trichloroethane is strongly fluorescent

No fluorescence but cut with trichloroethane is fluorescent

Late Triassic (Ipswich microflora)

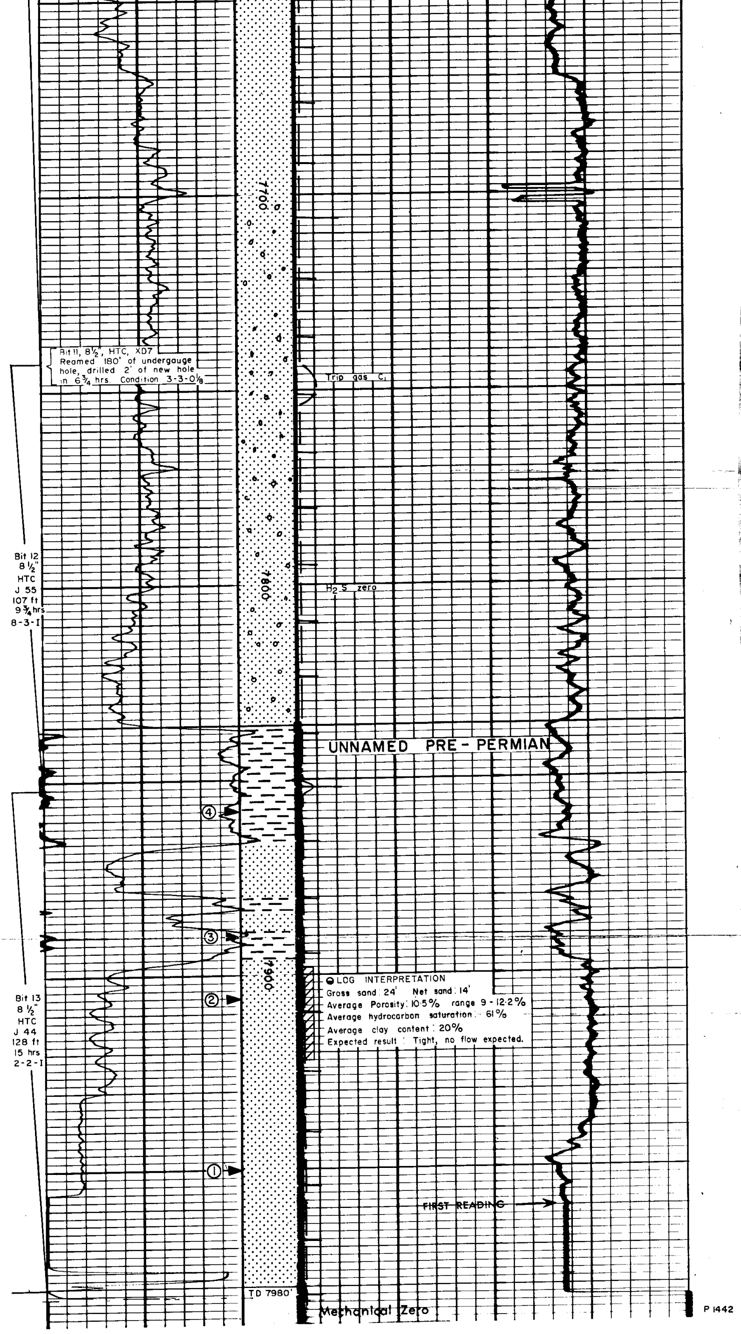






Permian
(stage P2)

Bit 10
8½"
HTC
J 44
397 ft
26 hrs
8-8-02 ¼"
(Lost 1 Jet)



Bit 11, 8½", HTC, XD7
Reamed 180' of undergauge hole, drilled 2' of new hole in 6¾ hrs. Condition 3-3-0⅛

Bit 12
8 ½"
HTC
J 55
107 ft
9 ¾ hrs
8-3-I

Bit 13
8 ½"
HTC
J 44
128 ft
15 hrs
2-2-I

● LOG INTERPRETATION
Gross sand: 24' Net sand: 14'
Average Porosity: 10·5% range 9 - 12·2%
Average hydrocarbon saturation: 61%
Average clay content: 20%
Expected result: Tight, no flow expected.

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