Welex

5"=100'

COMPENSATED DENSITY LOG
NEUTRON

COMPANY AMERICAN QUASAR PETROLEUM CO.
WELL HICKEY No. 9-12
FIELD LEBANON
County LINN State OR.

COMPANY AMERICAN QUASAR PETROLEUM COMPANY
WELL HICKEY No. 9-12
FIELD LEBANON (API No 36-043-00013)
COUNTY LINN STATE OREGON

Location
1980 SOUTH & 990 EAST OF THE NORTHWEST CORNER OF:
Sec. 9 Twp 12S Rge 2W

Other Services:
DIG
AVL
DIP
5"

Permanent Datum G.L. Elev. 329.6
Log Measured From T.B. 10.5 Ft. Above Perm. Datum
Drilling Measured From T.B.

Elev.: K.B. 340.5
D.F. N/A
G.L. 329.6

Date	1-20-81	1-28-81	2-6-81	2-10-81
Run No.	ONE	TWO	THREE	FOUR
Depth—Driller	531	2162	4030	4692
Depth—Welex	532	2161	4026	4692
Btm. Log Inter.	530	2120	4020	4690
Top Log Inter.	SURFACE	522	2120	3800
Casing—Driller	14 @ 145	9 5/8@521	7 @ 2116	7 @ 2116
Casing—Welex	14 @ 140	522	2116	NOT LOGGED
Bit Size	12 1/4	8 3/4	6 1/4	6 1/4
Type Fluid in Hole	GEL WATER	LIGNOSULF	LIGNOSULF	LIGNOSULF
Dens. | Visc.	69 | 42	90 | 70	94 | 65	96 | 38
pH | Fluid Loss	8.0 | N/A ml	9.5 | 5.8 ml	9.5 | 4.0 ml	9.5 | 4.8 ml
Source of Sample	MEASURED	CIRCULATED	CICULATED	CIRCULATED
R_m @ Meas. Temp.	N/A @ N/A °F	3.46 @46 °F	1.90 @48 °F	2.60@ 70 °F
R_{mf} @ Meas. Temp.	N/A @ N/A °F	4.58 @58 °F	1.05 @53 °F	1.60@ 50 °F
R_{mc} @ Meas. Temp.	N/A @ N/A °F	3.22 @54 °F	3.00 @50 °F	2.90@ 50 °F
Source R_{mf} | R_{mc}	N/A | N/A	MEASURED	MEASURED	MEASURED
R_m @ BHT	N/A @ N/A °F	1.44 @110 °F	0.65 @140 °F	1.50@ 120 °F
Time Since Circ.	4 HOURS	4 HOURS	8 HOURS	18 HOURS
Max. Rec. Temp.	N/A °F @ N/A	110 °F @BHT	140 °F @ BHT	120 °F @BHT
Equip. | Location	8586 | WDLND	8586 | WDLND	2876 | WDLND	8586 | WDLND
Recorded By	L. ANDERSON	L. ANDERSON	L. ANDERSON	J. VORHEES
Witnessed By	MANN	MANN	MANN	MANN

Fold Here

EQUIPMENT DATA

GAMMA RAY			
Run No.	ONE	TWO	THREE
Tool Model No.	102-A	102-A	102-A
Diameter	3 5/8	3 5/8	3 5/8
Detector Model No.	102-A	102-A	102-A
Type	SCINT.	SCINT	SCINT.
Length	N/A	N/A	N/A
Distance to Source	240in.	240in.	240in.
GENERAL			
Hoist Truck No.	8586	8586	8586
Instrument Truck No.	8586	8586	8586
Tool Serial No.			

GAMMA DENSITY			
Run No.	ONE	TWO	THREE
Log Type	COMP.DENS.	COMP. DENS.	COMP.
Tool Model No.	125	125	125
Diameter	3 5/8	3 5/8	3 5/8
Detector Model No.	127	127	127
Type	SCINT.	SCINT.	SCINT.
Length	N/A	N/A	N/A
Source Model No.	DCS	DCS	DCS
Serial No.	DCS-	DCS	DCS
Spacing	N/A	N/A	N/A
Type	Cs 137	Cs137	Cs137
Strength	500 mc	500mc	500mc

LOGGING DATA

GENERAL				GAMMA RAY				GAMMA DENSITY			
Run No.	Depths From	Depths To	Speed Ft. Min	T.C. Sec.	Sens. Settings	Zero Div. L or R	API G.R. Units per Log Div.	T.C. Sec.	Sens. Settings	Zero Div. L or R	Units per Log Div.
1	530	140	N/A	.5	0-100	0	10	.5	1.5,2.5	30L	.05
2	2120	522	N/A	.5	0-100	0	10	.5	1.5,2.5	30L	.05
3	4020	2120	N/A	.5	0-100	0	10	.5	1.5,2.5	30L	.05
4	4690	3800	30	.5	0-100	0	10	.5	1.5,2.5	30L	.05

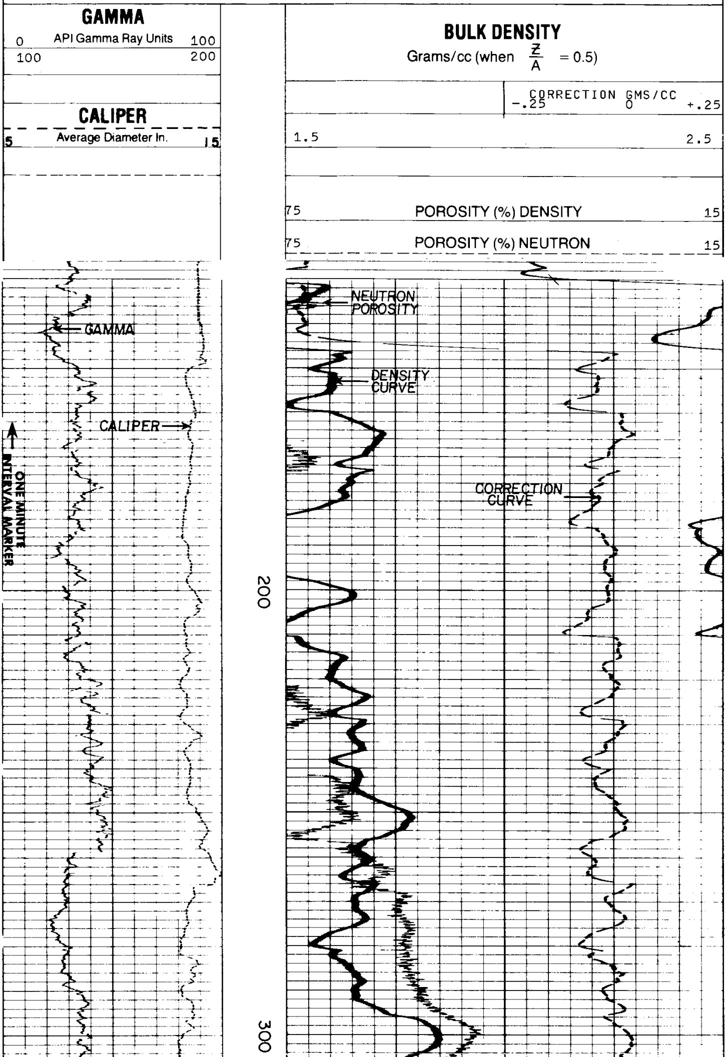
Reference Literature: INST 28058
NEUTRON 16161
MANDREL 24299

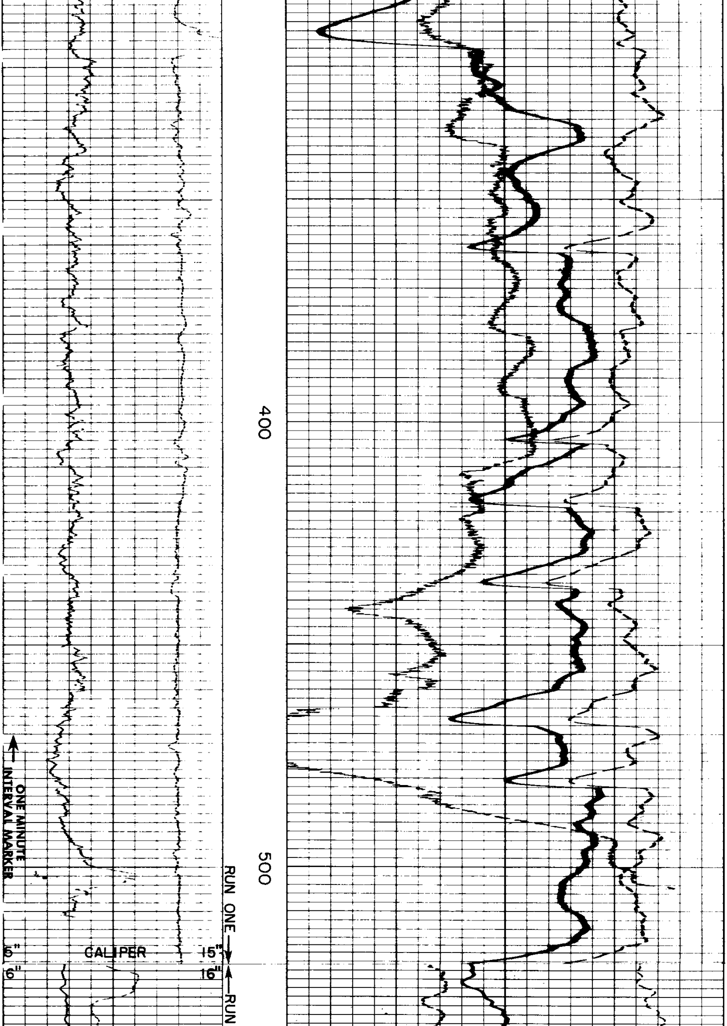
Service Ticket No. 035112
RUN TWO: 055110
RUN THREE: 055114
RUN FOUR: 055267

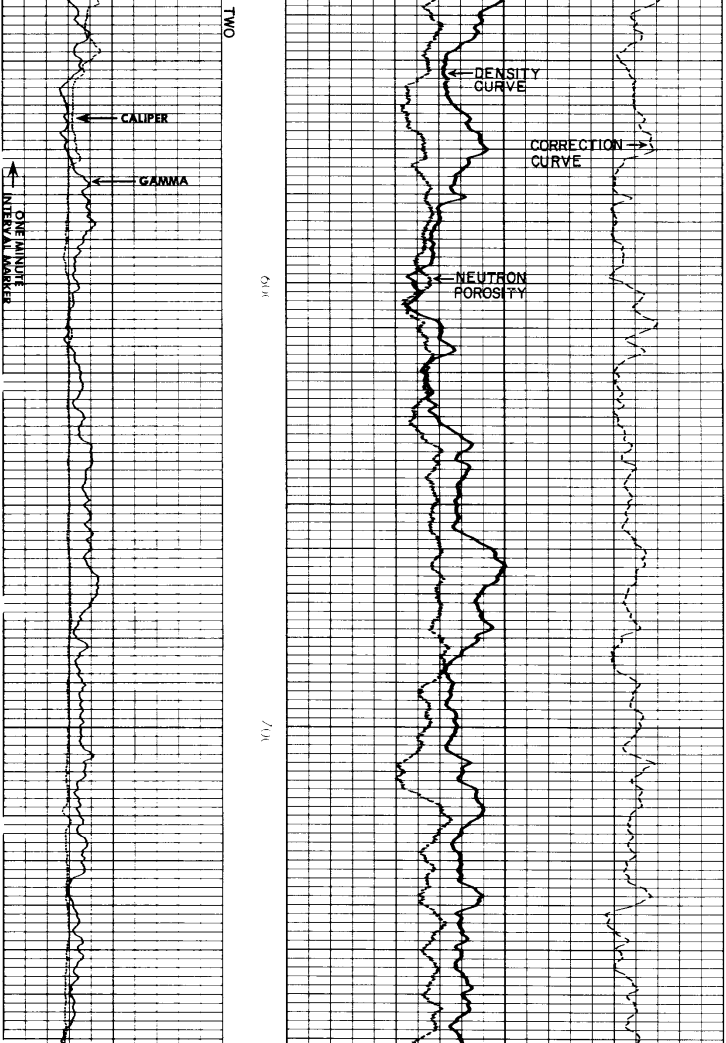
Remarks: RUN FOUR INFORMATION ON GAMMA RAY AND GAMMA DENSITY ON EQUIPMENT DATA SECTION OF HEADING IS THE SAME AS RUN ONE, TWO, AND THREE.

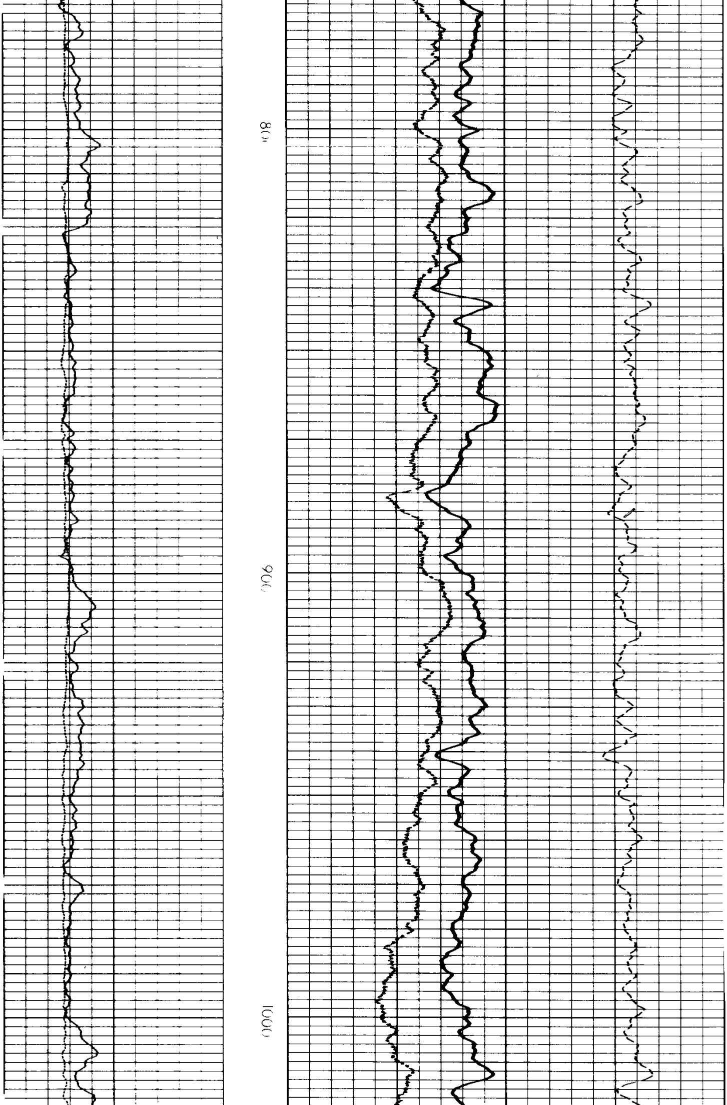
Welex does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by Welex personnel or which may appear on the log or in any other form. Any user of such data, interpretations, conversions, or recommendations agrees that Welex is not responsible, except where due to gross negligence or wilful misconduct, for any loss, damages, or expenses resulting from the use thereof.

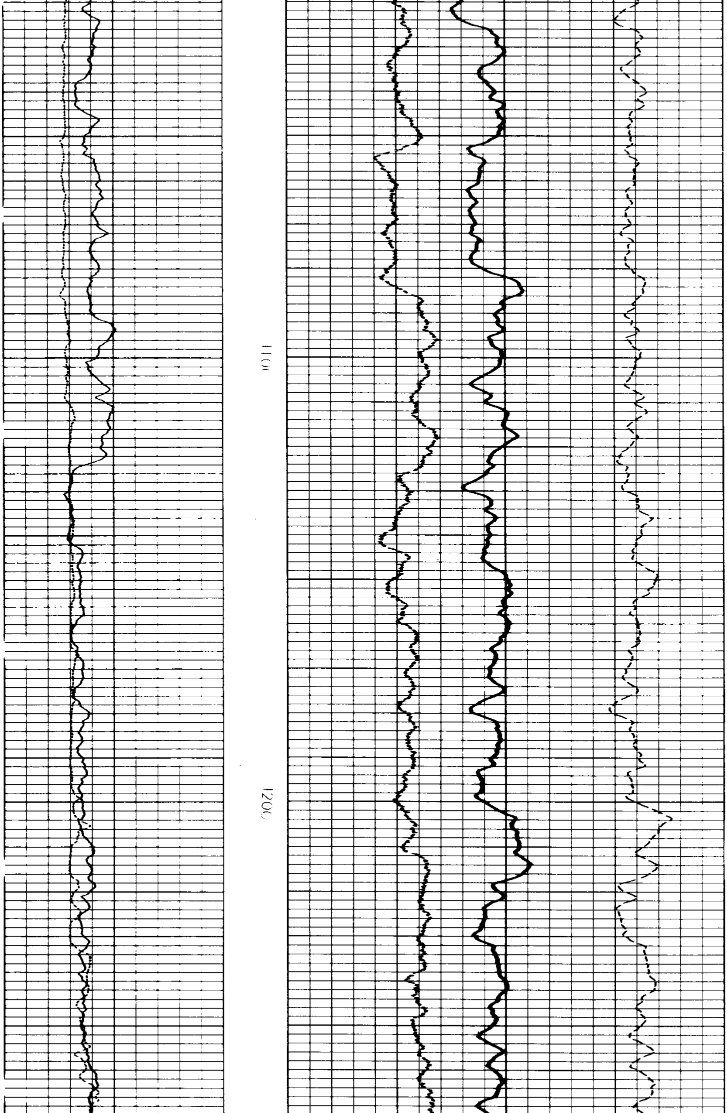
5" = 100'

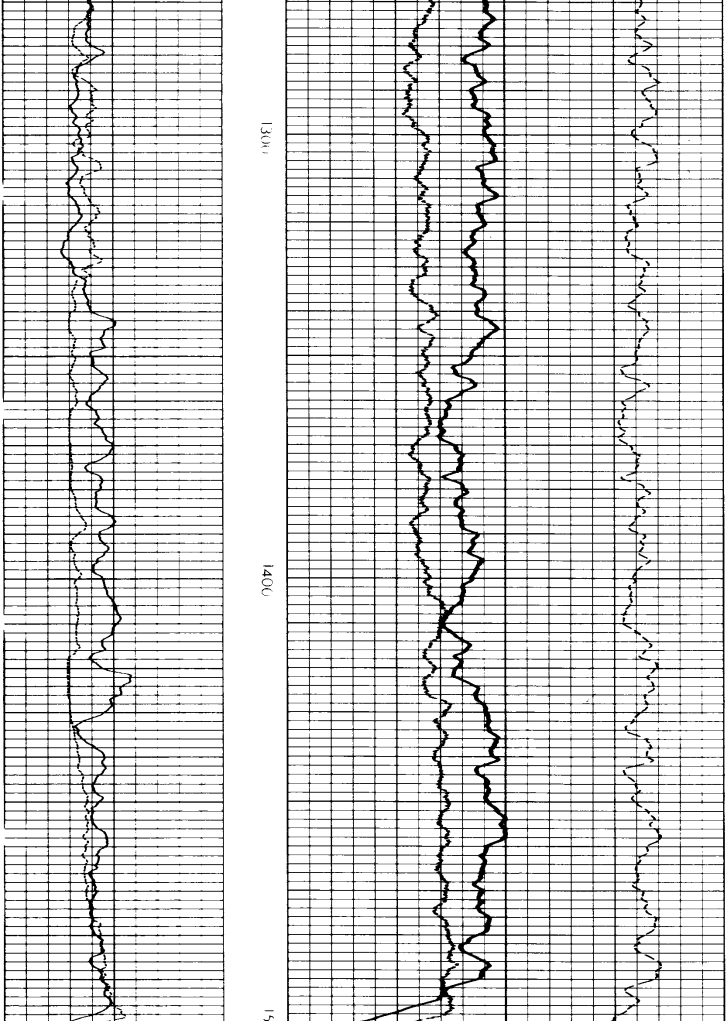


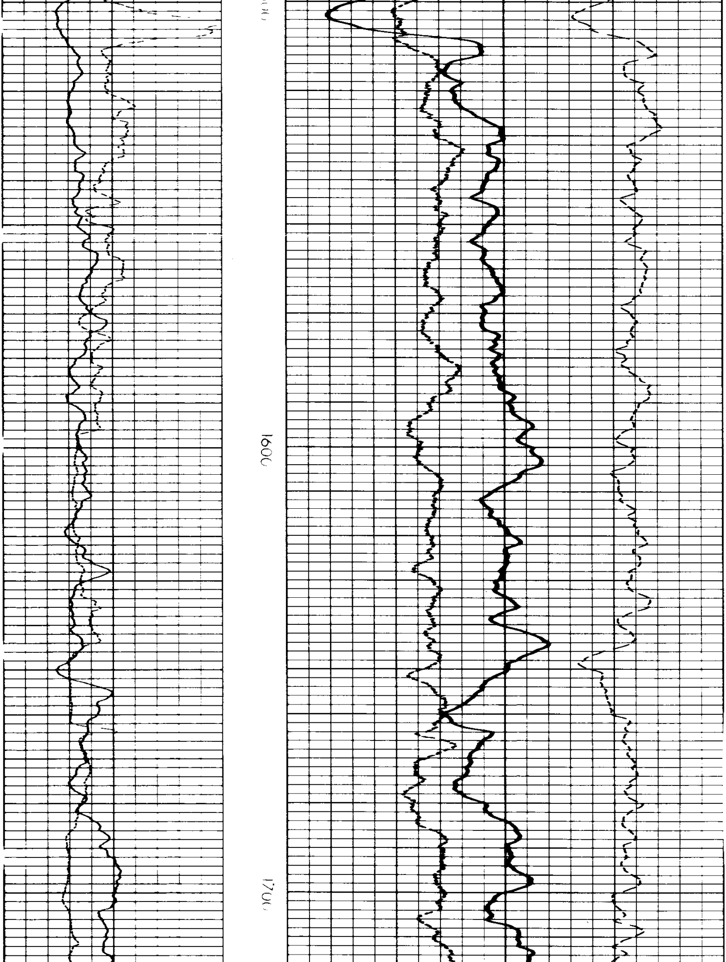


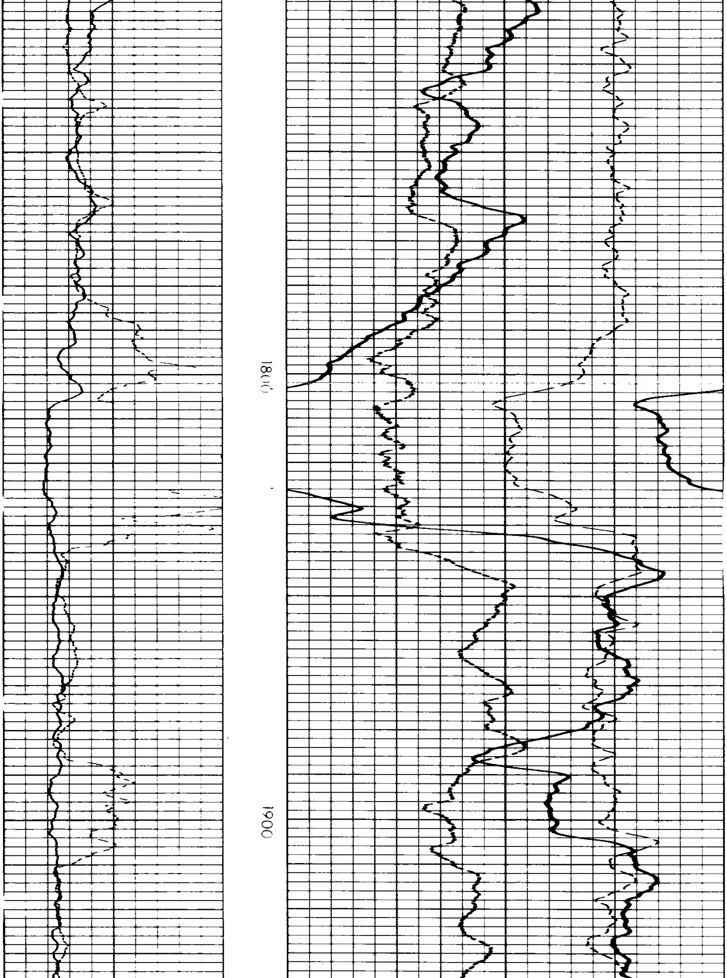


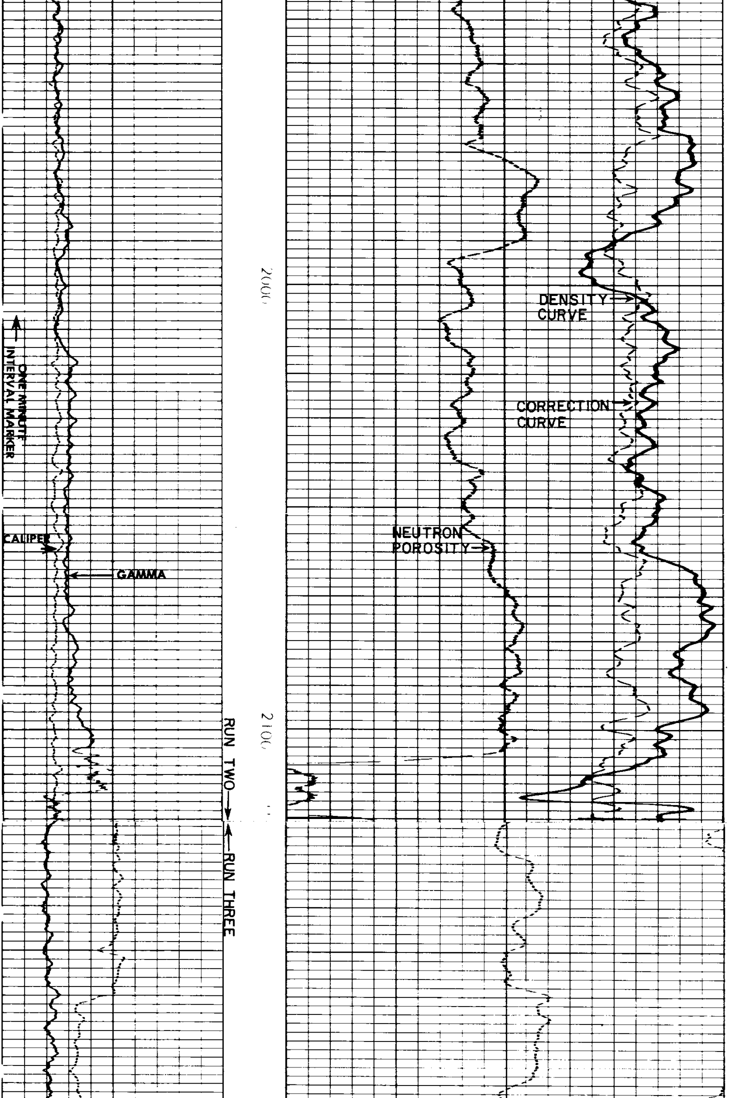


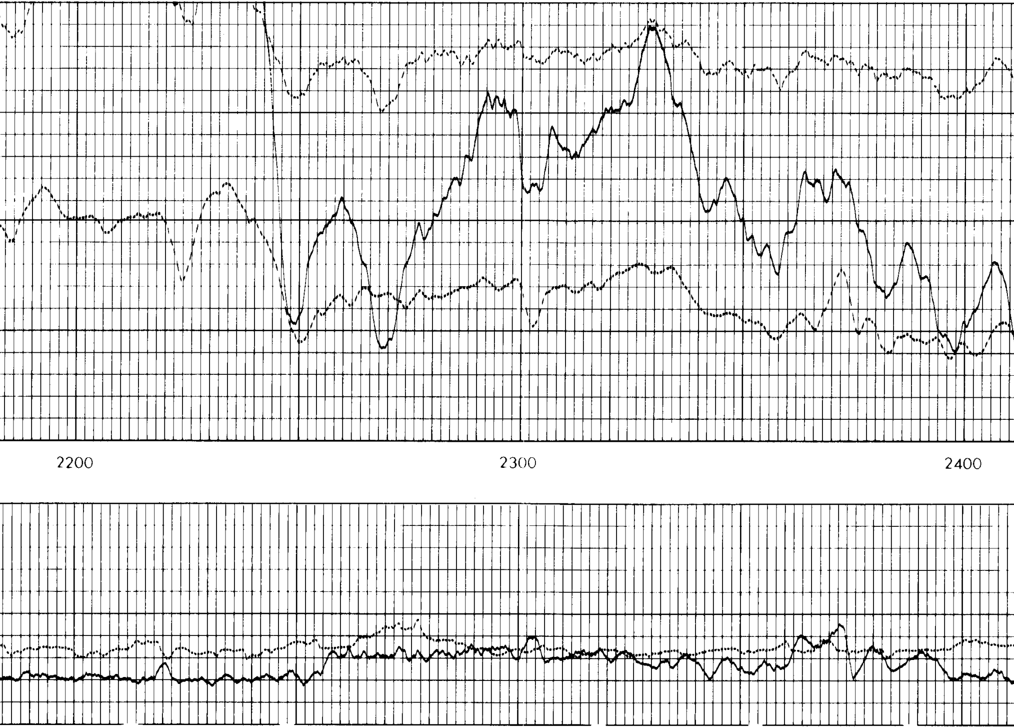


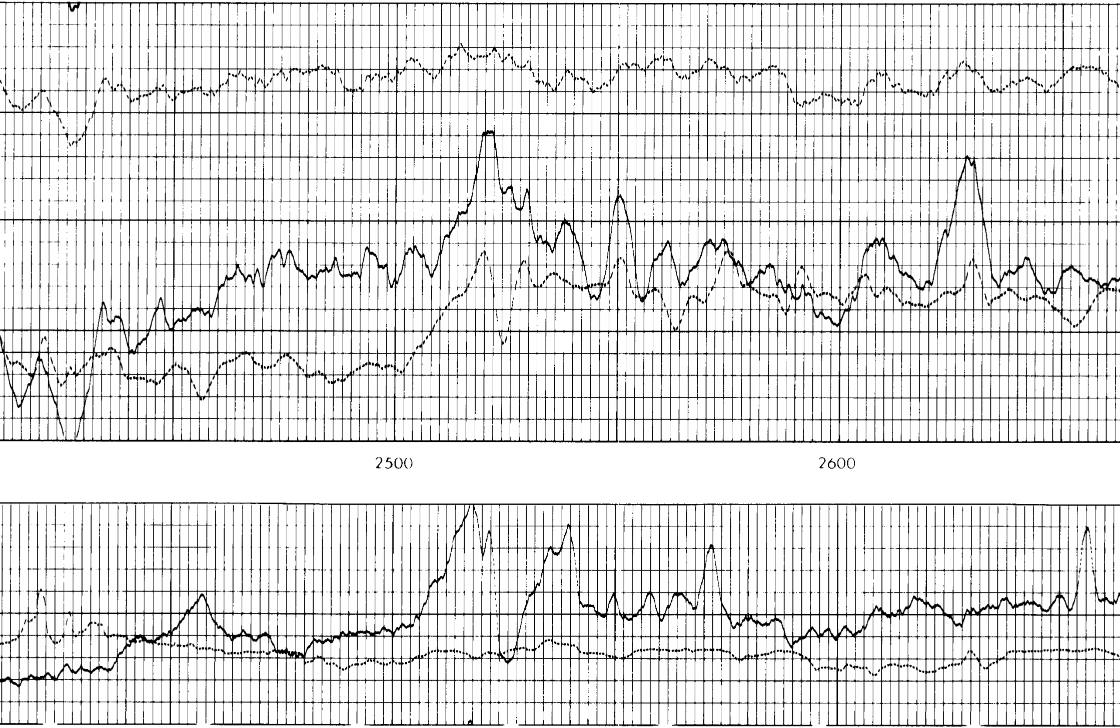


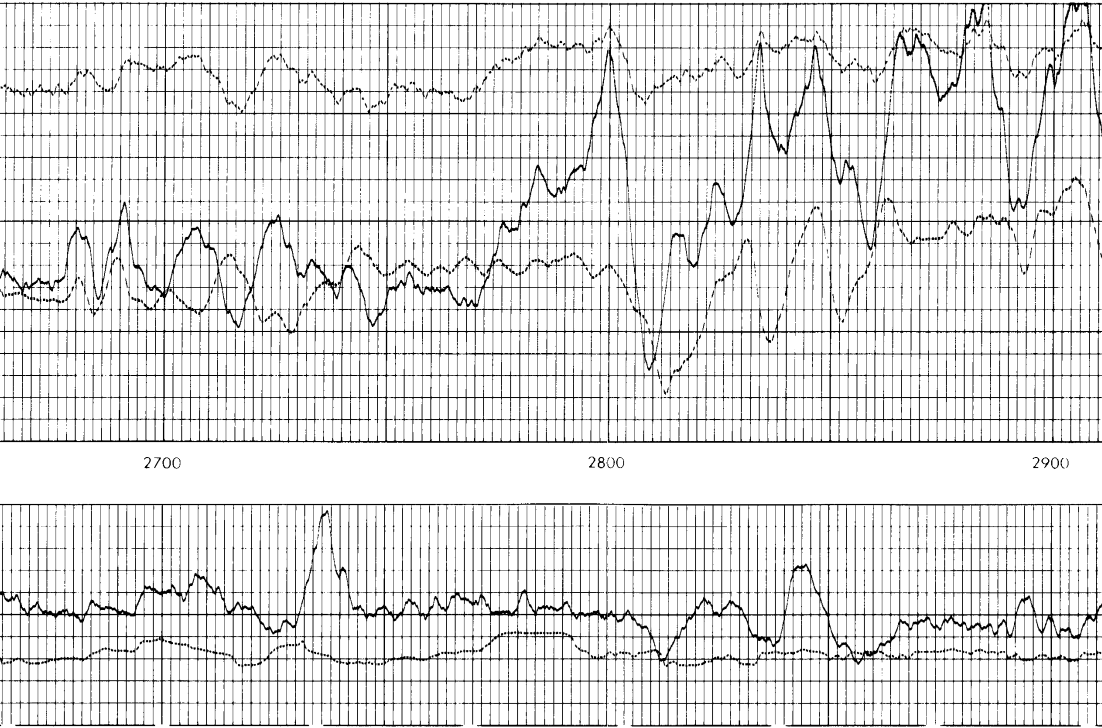


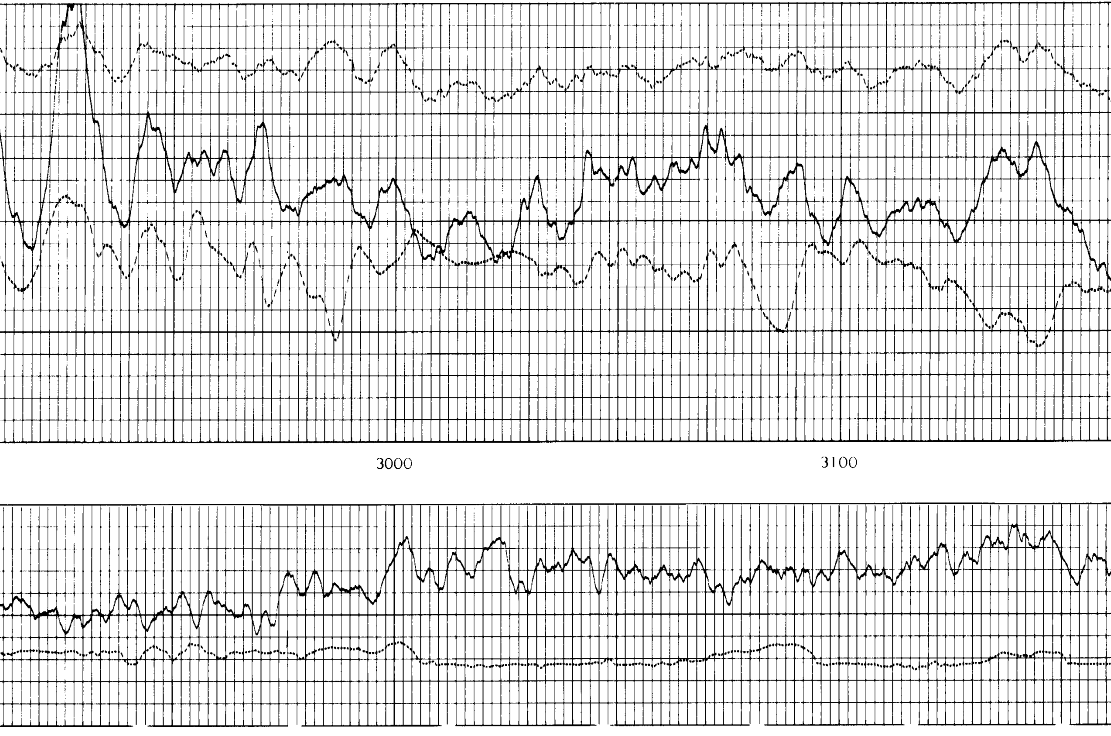


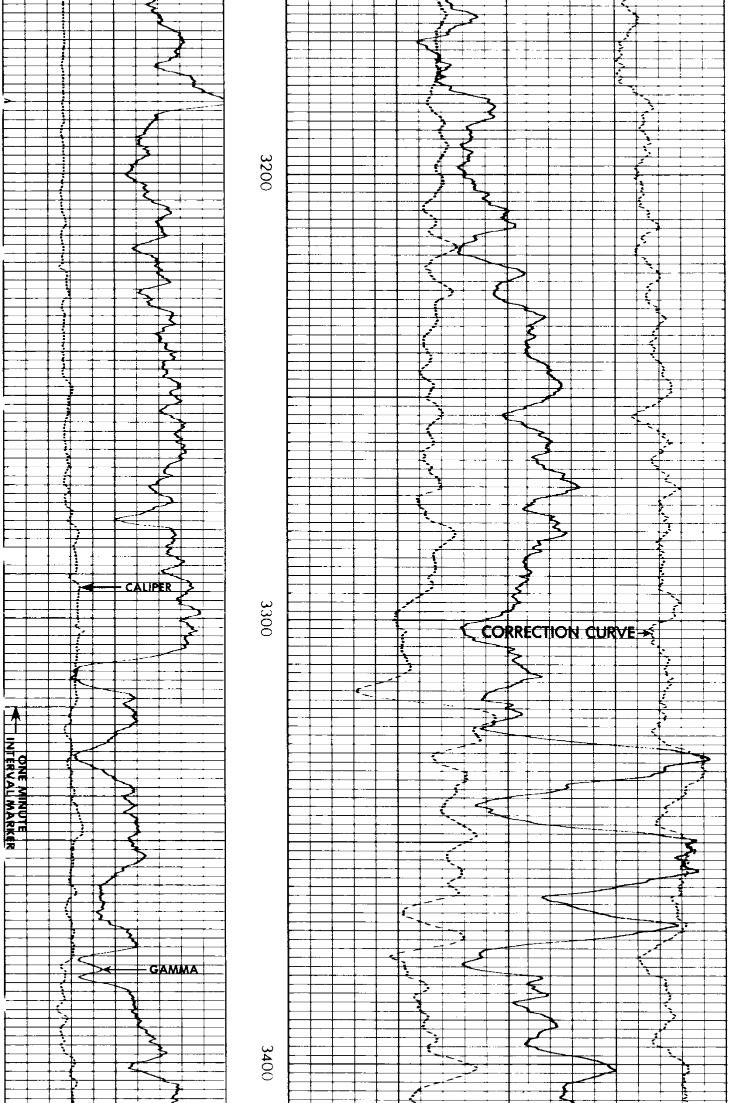


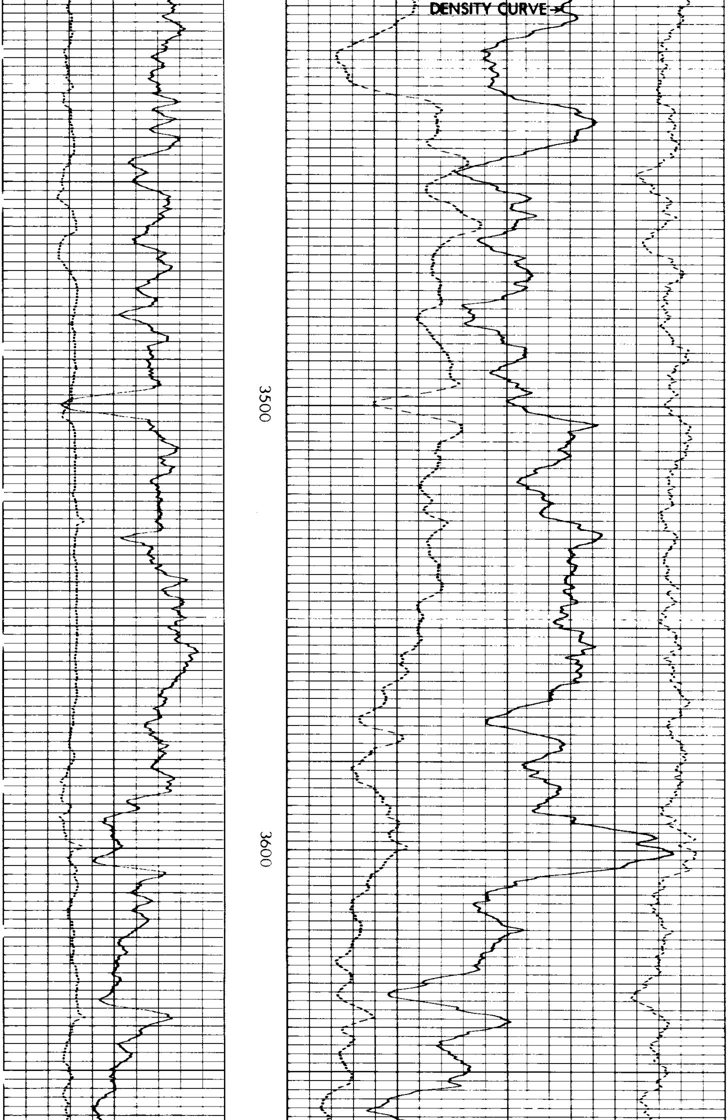


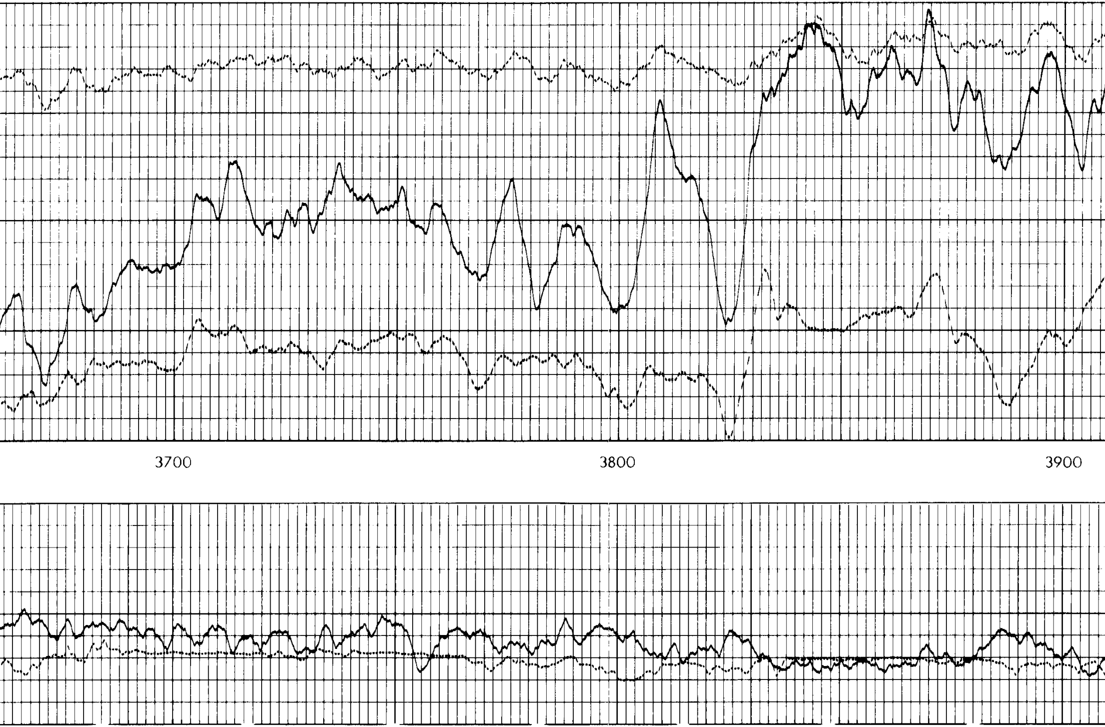


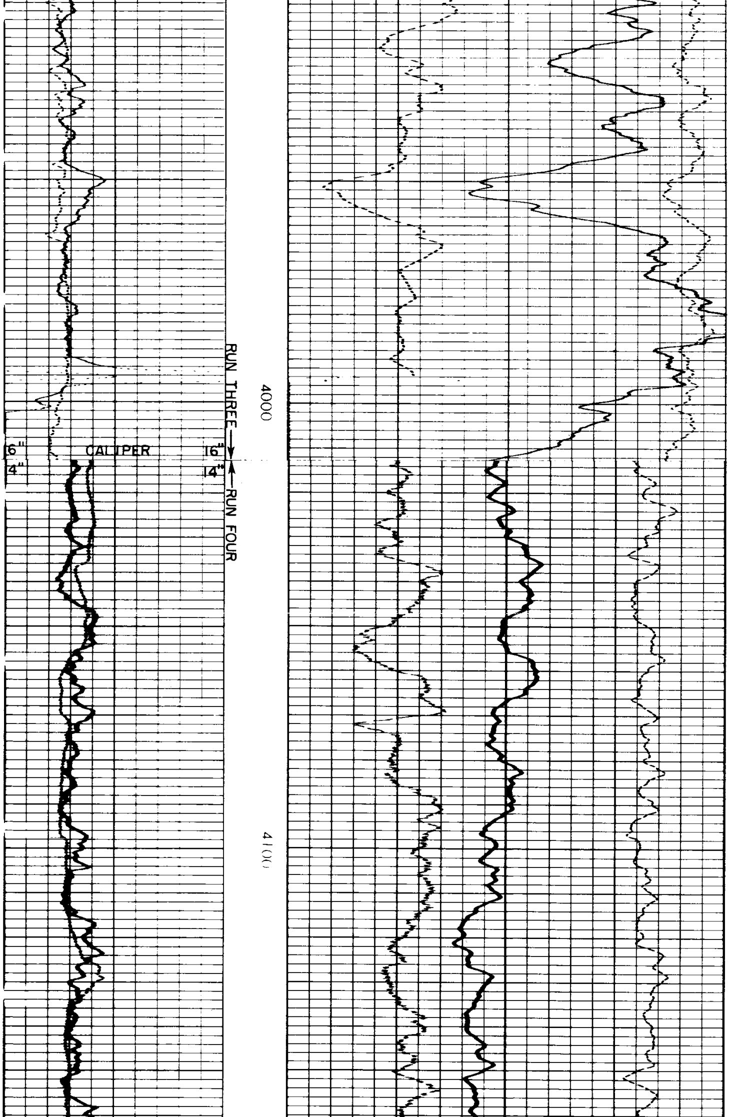


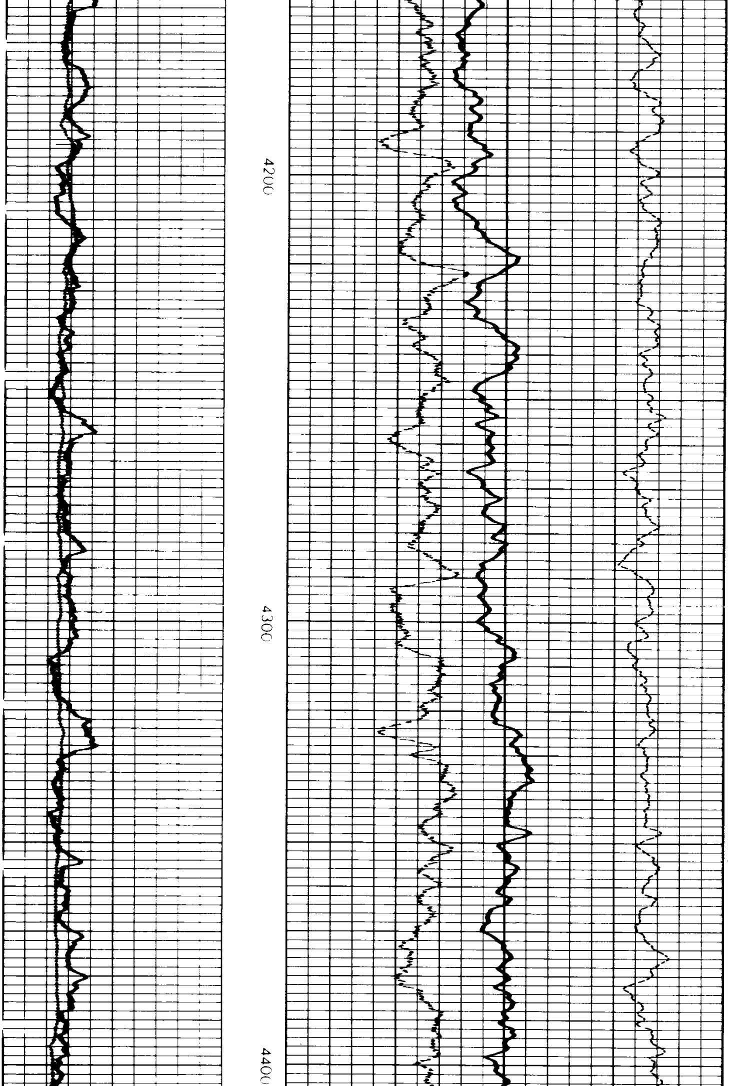


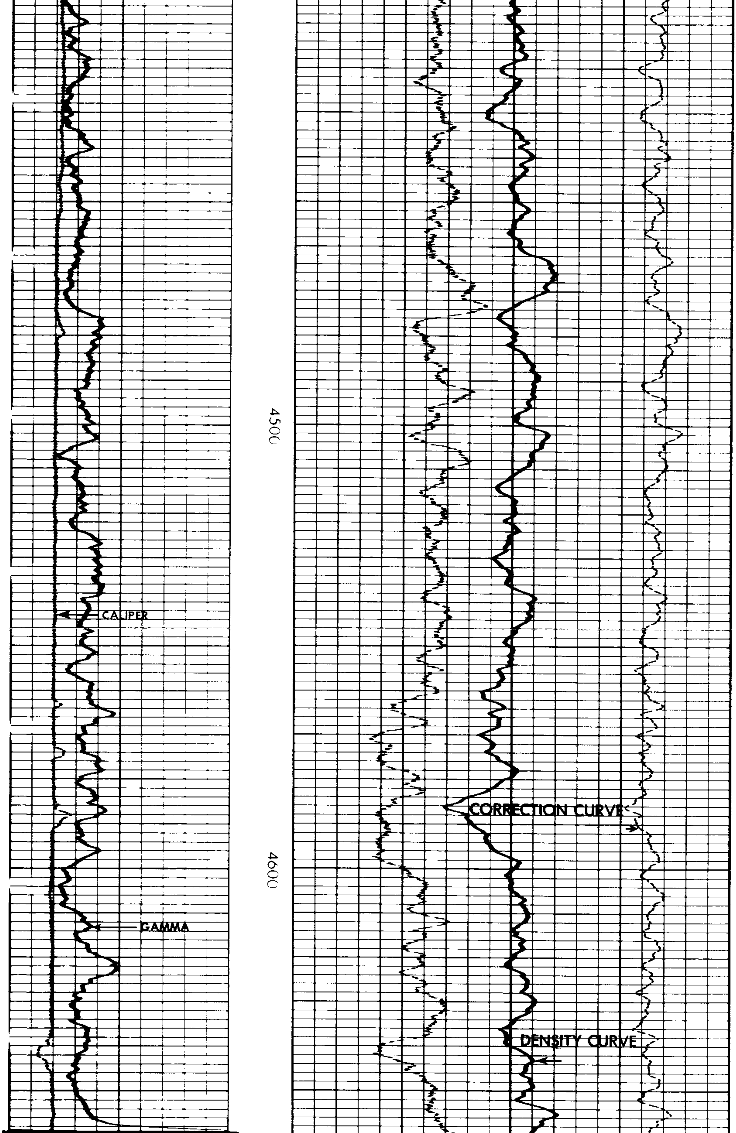


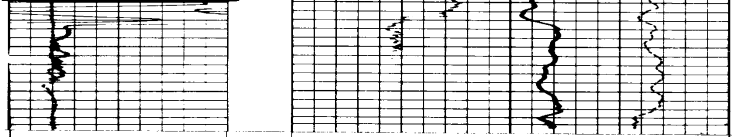












75 POROSITY (%) NEUTRON 15

75 POROSITY (%) DENSITY 15

1.5 2.5

CORRECTION GMS/CC
-.25 0 +.25

BULK DENSITY

Grams/cc (when $\frac{Z}{A} = 0.5$)

CALIPER

4 Average Diameter In. 14

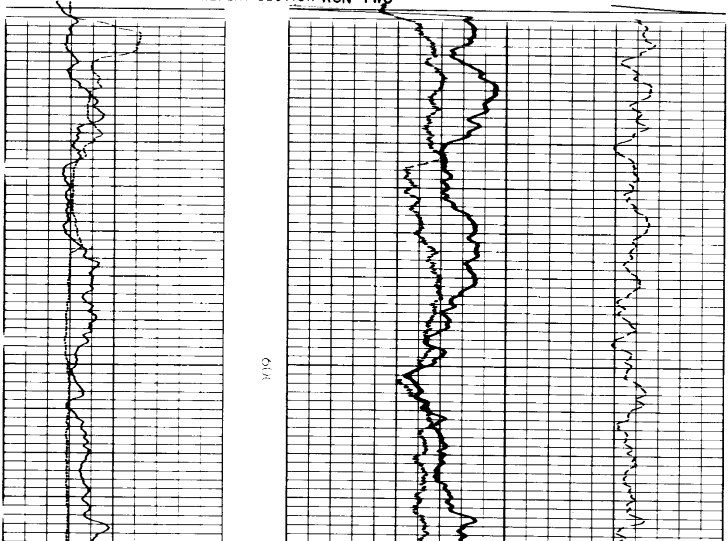
GAMMA

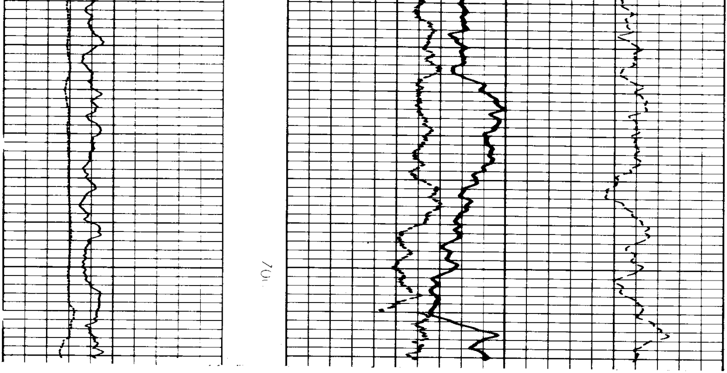
0 API Gamma Ray Units 100

AMERICAN QUASAR PETROLEUM COMPANY
HICKEY No. 9-12
LEBANON (API No. 36-043-00013)
LINN COUNTY, OREGON

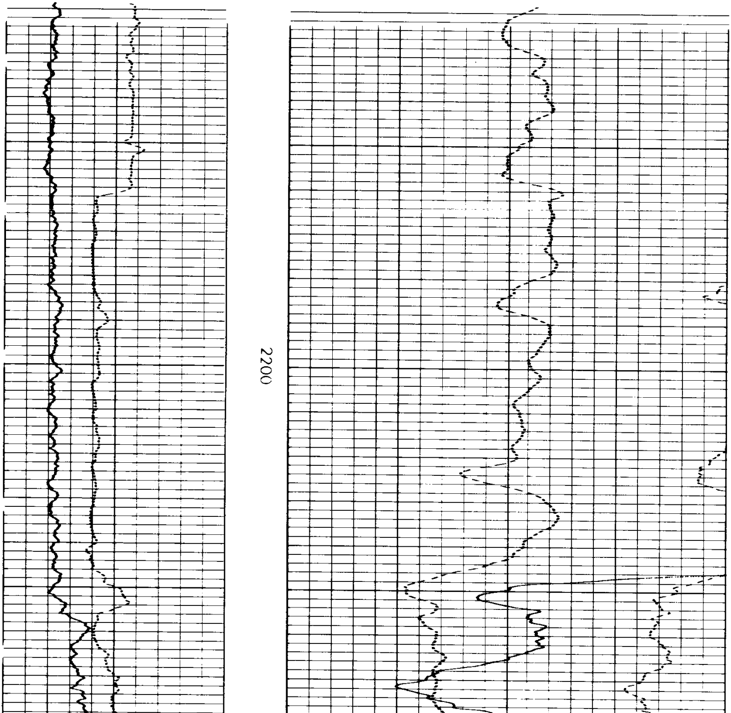
T.D. LOGGED 4690
T.D. DRILLER 4692
T.D. WELEX 4692
ELEV: K.B. 340.5 G.L. 329.6

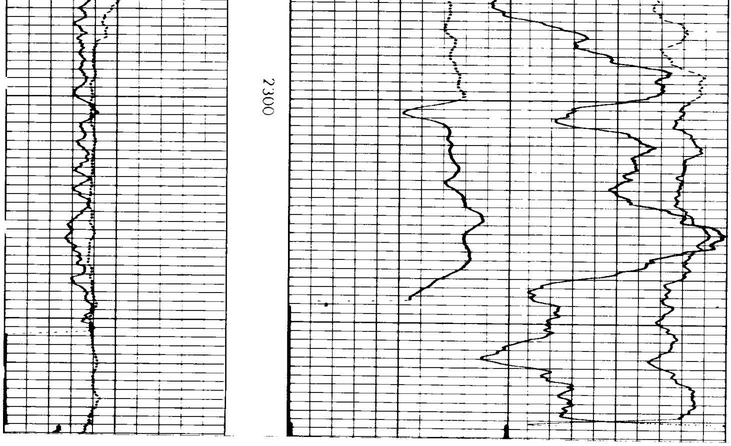
REPEAT SECTION RUN TWO

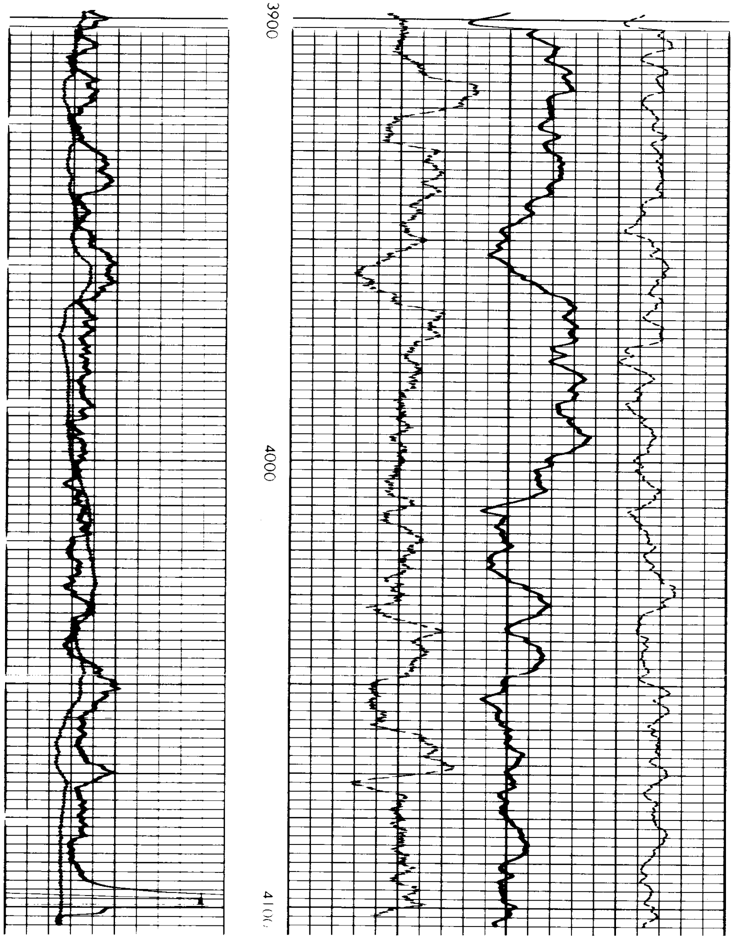




REPEAT SECTION RUN THREE





REPEAT SECTION RUN FOUR