Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON-FORMATION DENSITY

...	YOLO
FIELD	HARNEY BASIN
...ATION	10 23 29
WELL	FEDERAL NO. 1-10
COMPANY	MICHEL T. HALBOUTY

COMPANY MICHEL T. HALBOUTY

WELL FEDERAL NO. 1-10

FIELD HARNEY BASIN

COUNTY HARNEY STATE OREGON

LOCATION 334' WEST AND 2299' SOUTH FROM THE NORTHEAST CORNER

API SERIAL NO	SEC	TWP	RANGE
	10	23	29

Other Services:
DIL
HDT

Permanent Datum: GL ; Elev.: 4765
Log Measured From KB , 13 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4778
D.F.
G.L. 4765

Date	9-10-77			
Run No.	ONE			
Depth-Driller	6018			
Depth-Logger	6018			
Btm. Log Interval	6018			
Top Log Interval	2525			
Casing—Driller	10 @ 2525	@	@	@
Casing Logger	2525			
Bit Size	9			
Type Fluid in Hole	LOW SOLIDS AEREATED			
Dens. | Visc.	8.2 | 38			
pH | Fluid Loss	11.7 | 40.2 ml	ml	ml	ml
Source of Sample	CIRCULATED			
Rm @ Meas. Temp.	5.03 @ 60 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	4.98 @ 58 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	7.5 @ 60 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | C			
Rm @ BHT	3.12 @ 104 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	1930			
TIME Logger on Bottom	0900			
Max. Rec. Temp.	110 °F	°F	°F	°F
Equip. | Location	7731 | SACTO			
Recorded By	CRAWFORD/BRASFIELD			
Witnessed By Mr.	MOSELEY/YECKE			

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

RUN NO.	ONE			
Service Order No.	[illegible]			
Fluid Level	[illegible]			
Salinity, PPM CL.	--			
Speed - F.P.M.	[illegible]			

EQUIPMENT DATA				
Dens. Panel	EJ-1262			
Dens. Cart.	G-139			
Dens. Skid.	E-213			
Dens. Sonde	EC-392			
Dens. Source	5153			
Dens. Calibrator	1177			
Neut. Panel	AB-405			
Neut. Cart.	A-409			
Neut. Source	495			
Neut. Calibrator	AE-594			
GR Cart.	TAB-199			
Memorizer Panel	BA-337			
Tape Recorder (TTR)	--			
Depth Encoder (DRE)	--			
Pressure Wheel (CPW)	--			
Centralizers: Enter Spring, Standoffs, In-line, or None — Type	BOW			
Centralizers — No.	ONE			
Centralizers — S. O. — Inches	ECCENTERED			

CALIBRATION DATA					
GR	BKG. CPS	26			
GR	Source CPS	230			
GR	Sens. - Cal	0-150			
GR	T. C. - Cal	TWO			
CNL	Short Spacing - Before Log	2271			
CNL	Long Spacing - Before Log	1000			
CNL	Short Spacing - After Log	2269			
CNL	Long Spacing - After Log	1000			
FDC	P¹ — Before Log	109.0			
FDC	P² — Before Log	191.1			
FDC	P¹ — After Log	[illegible]			
FDC	P² — After Log	[illegible]			

Type Log	Depth		

REMARKS:

LOGGING DATA

DEPTH		CNP			FDC				GR			
Top	Bottom	Porosity Scale	Matrix	Auto Corr. or Hole Size Setting	Porosity Scale	Grain Density	Liquid Density	Hole Fluid	Sens. Logged	T. C.	Zero. Div. Left	Scale Per 100 Div.
2525	6018	0-60	OHSS	AUTO	--	2.65	1.0	LIQ	0-150	2	0	150

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.

CALIPER DIAM. IN INCHES

6" 16"

GAMMA RAY API UNITS

150

DEPTH

POROSITY INDEX % OHSS MATRIX

COMPENSATED NEUTRON POROSITY

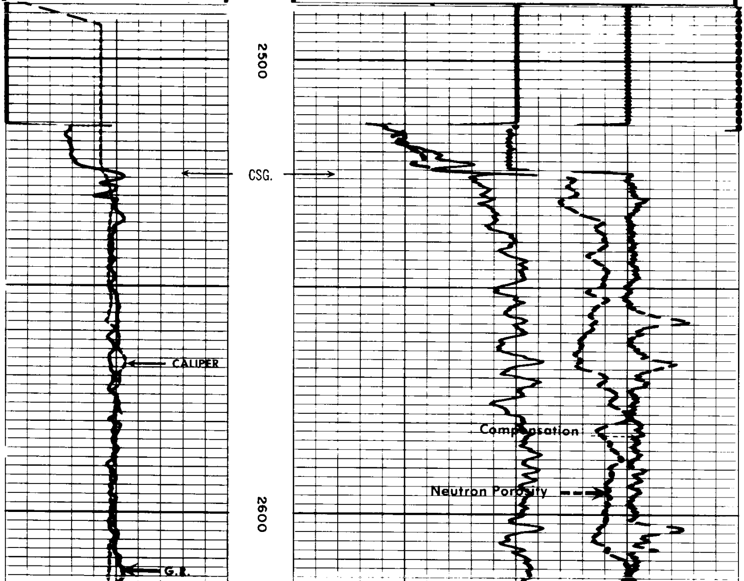
30 0

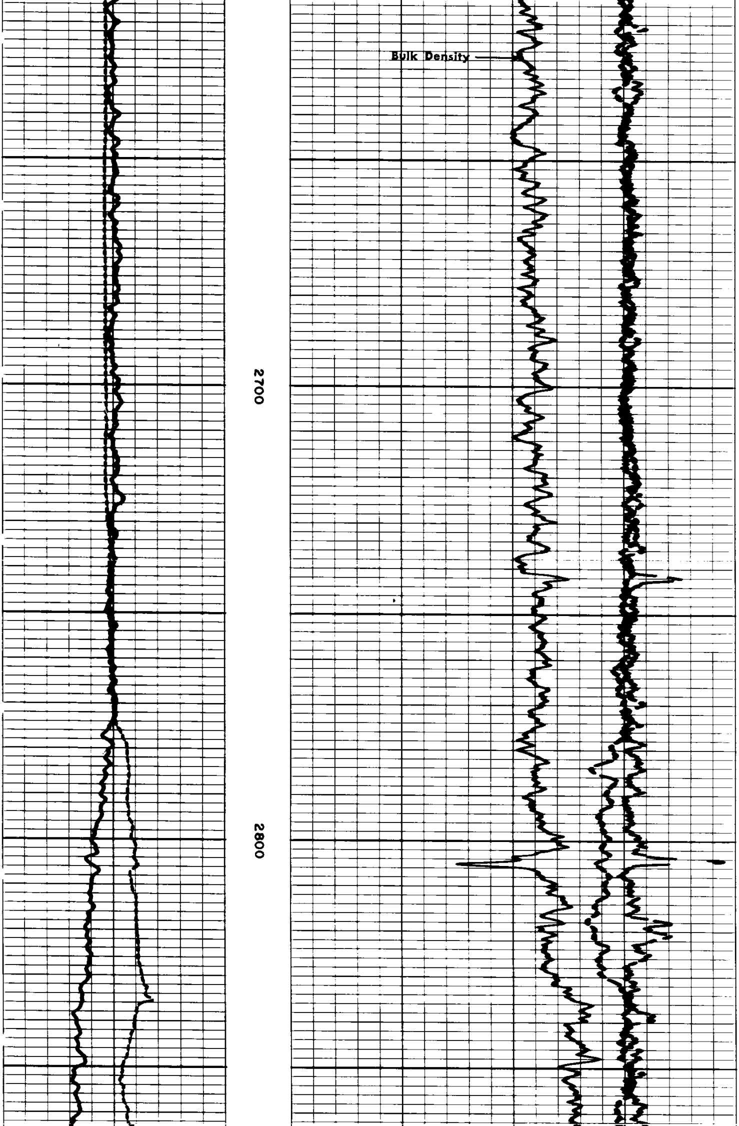
CORRECTION GRAMS CC

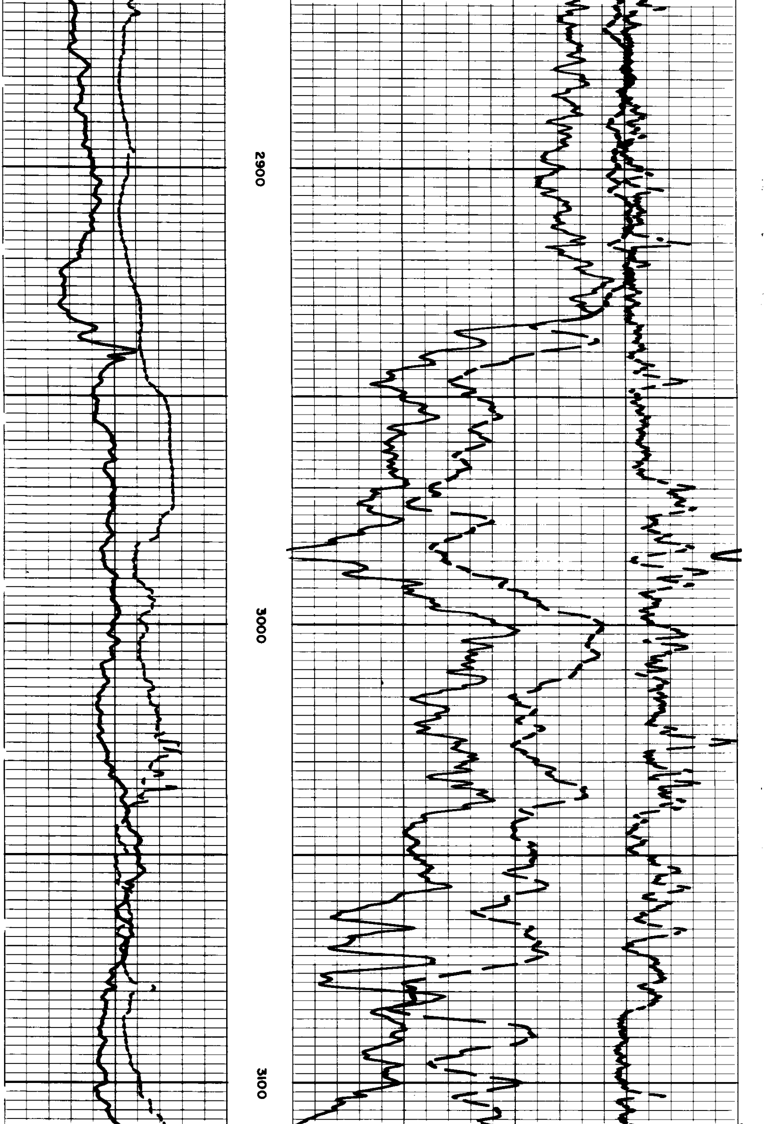
-.25 0 .25

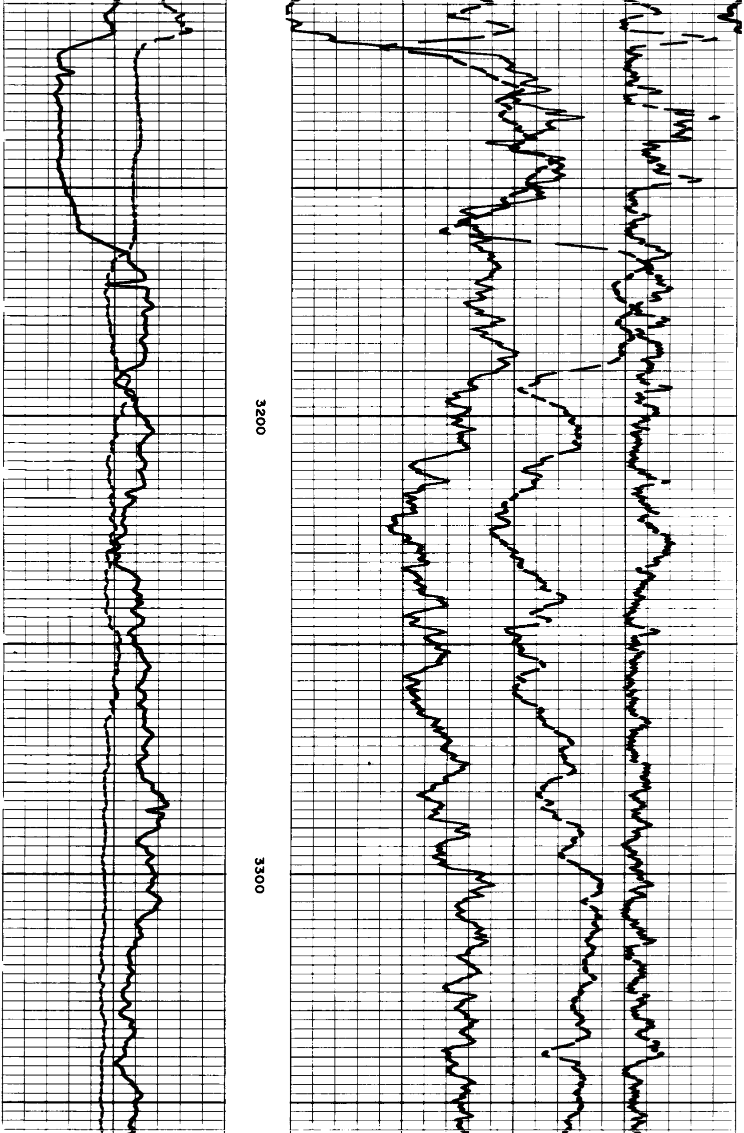
BULK DENSITY GRAMS CC

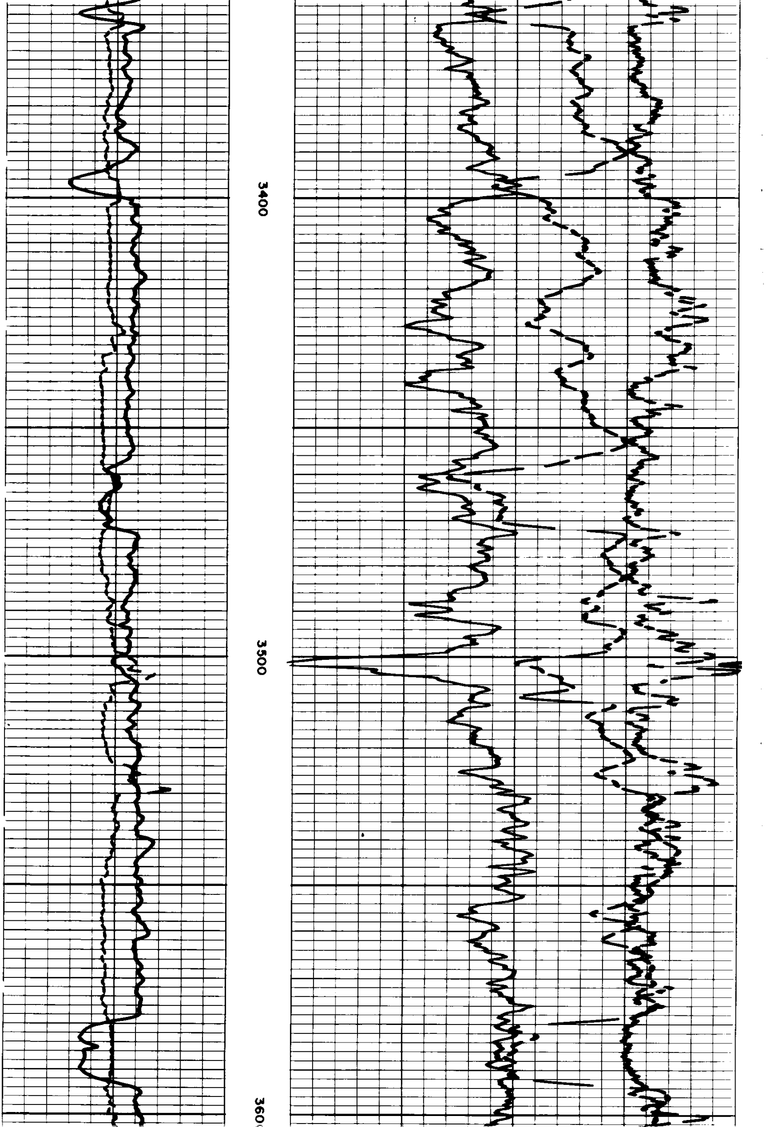
2.5

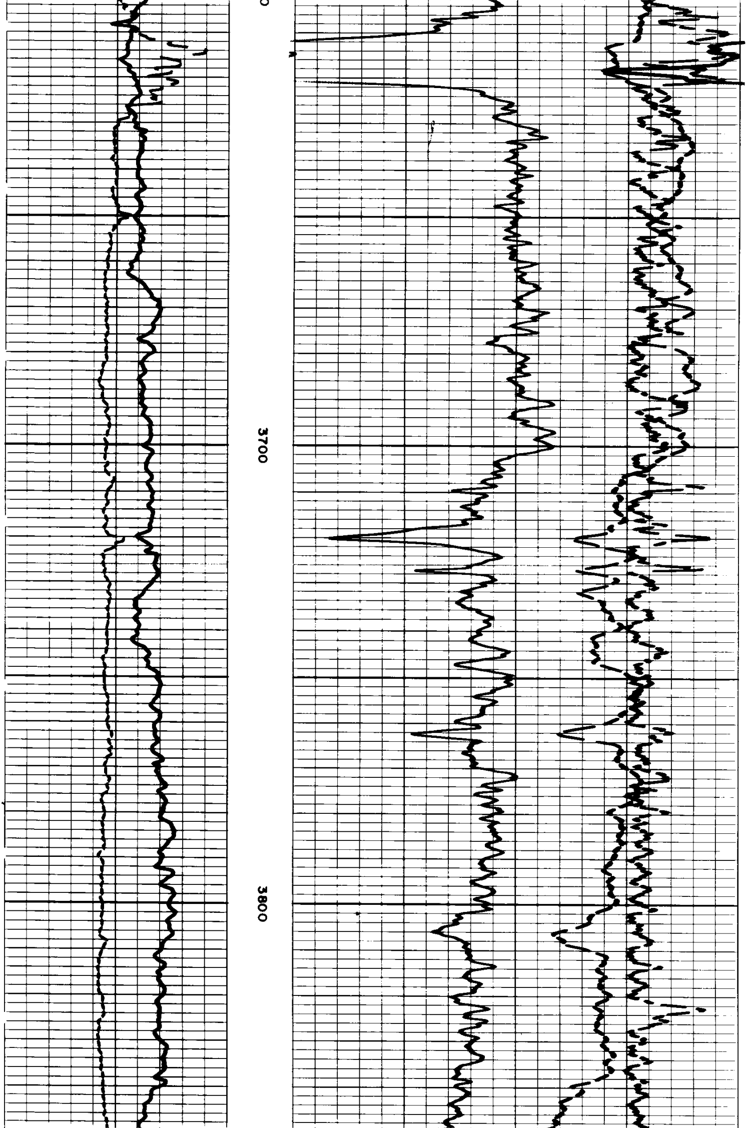


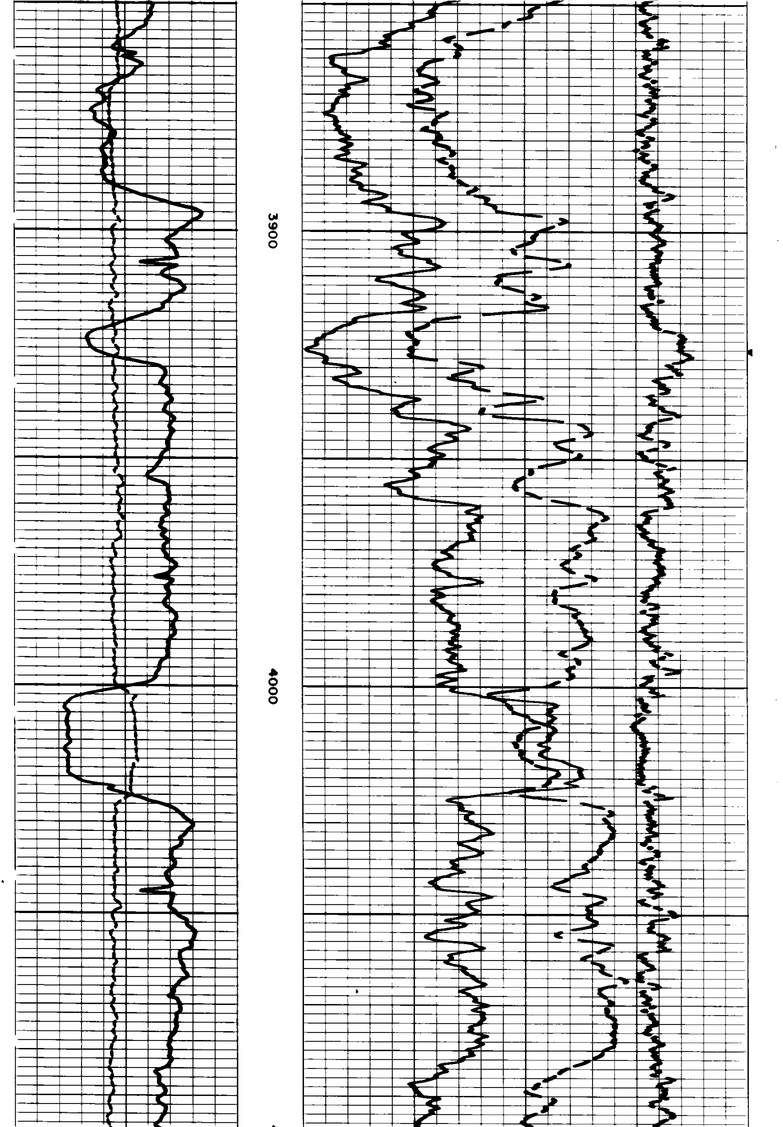


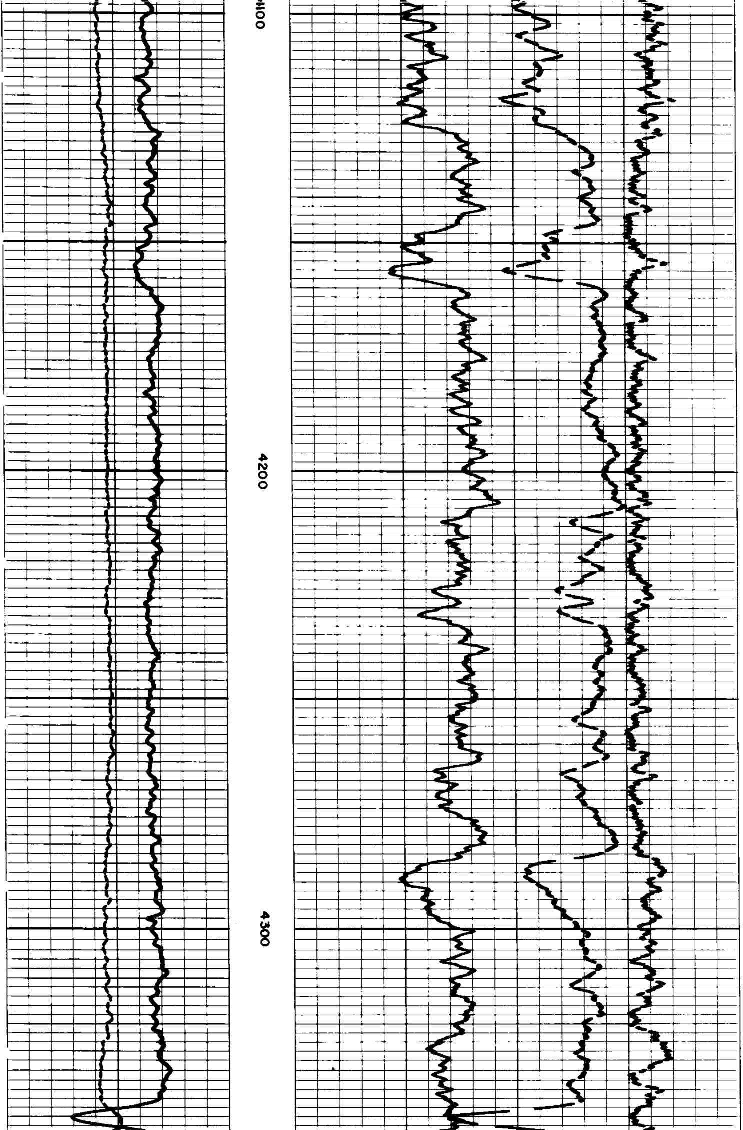


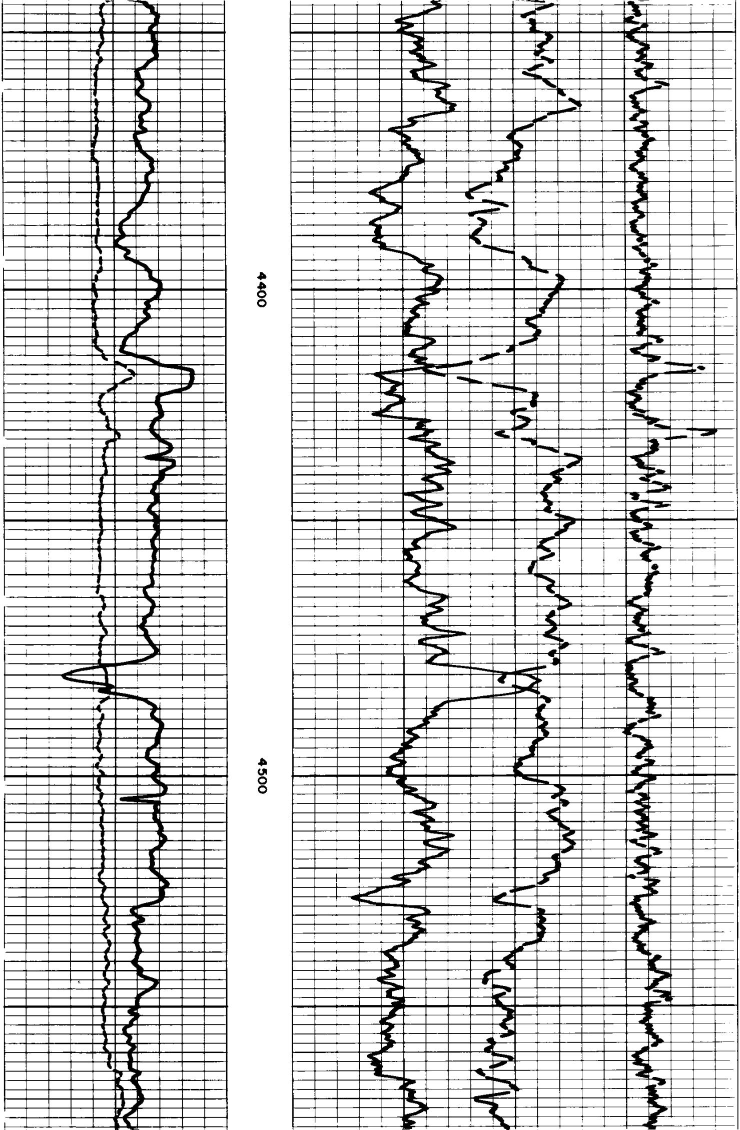


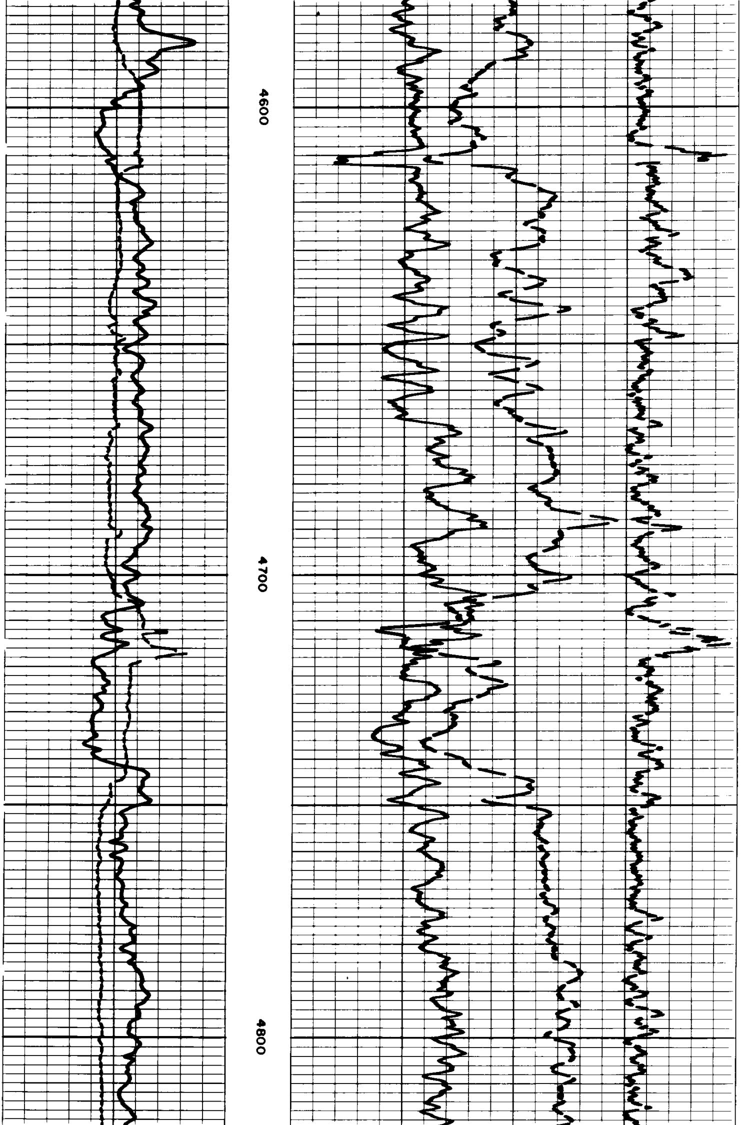


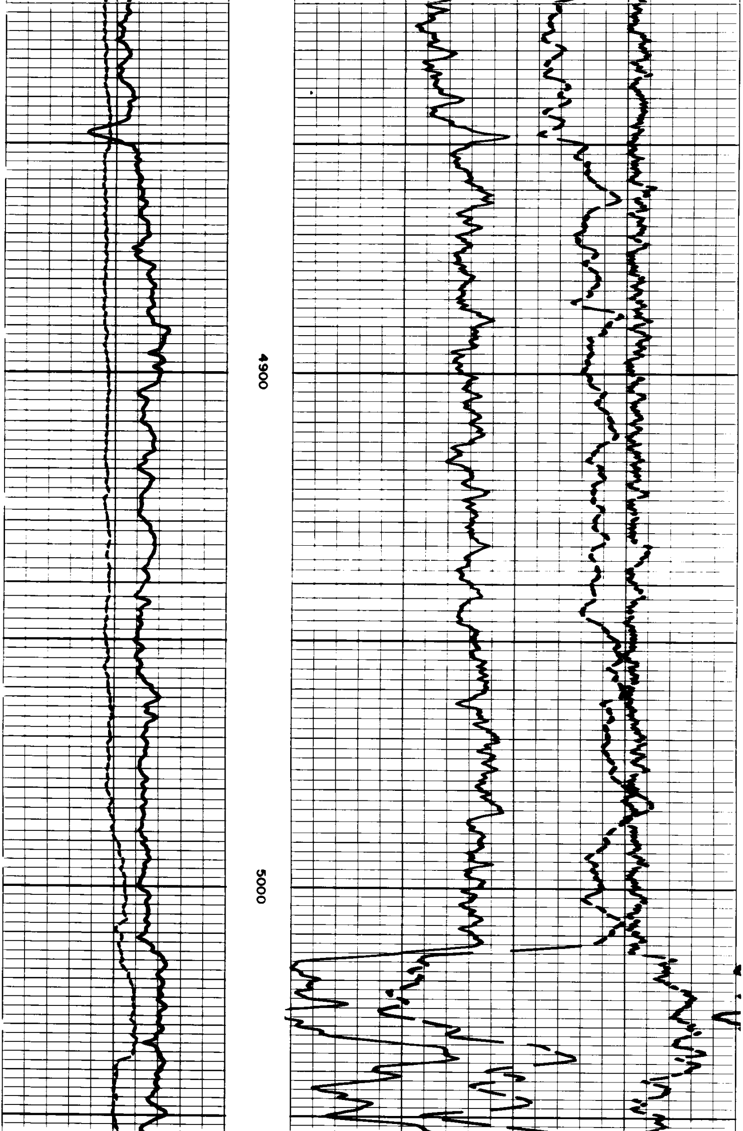


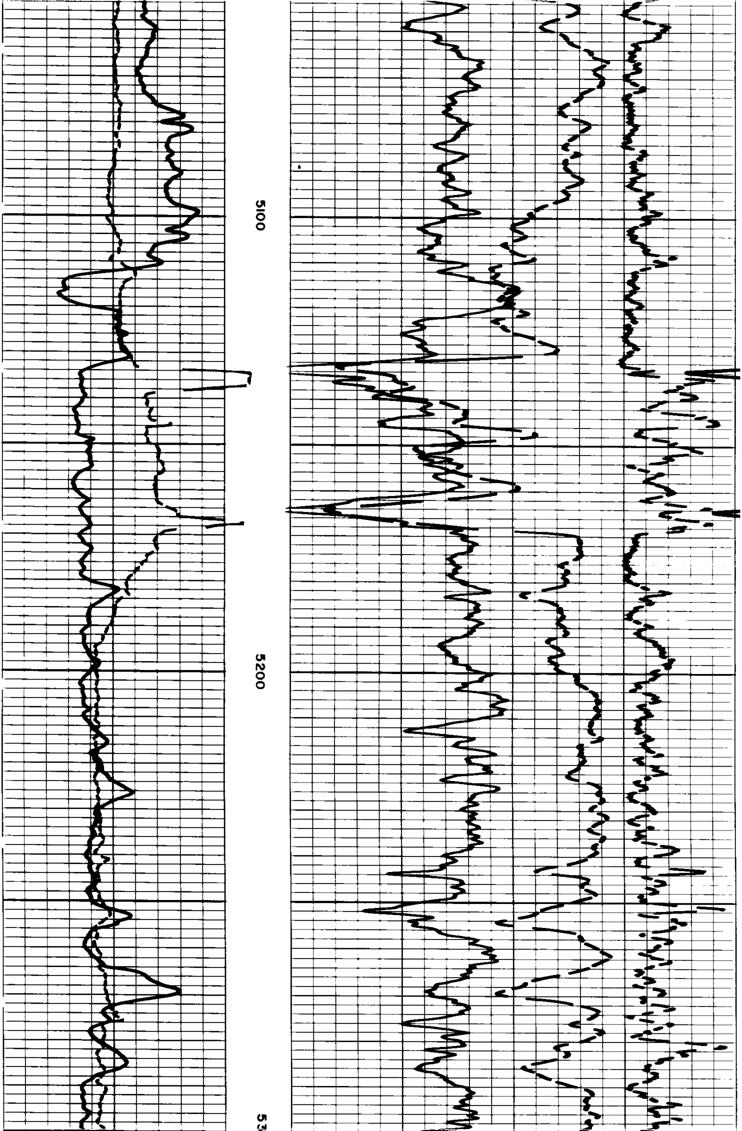


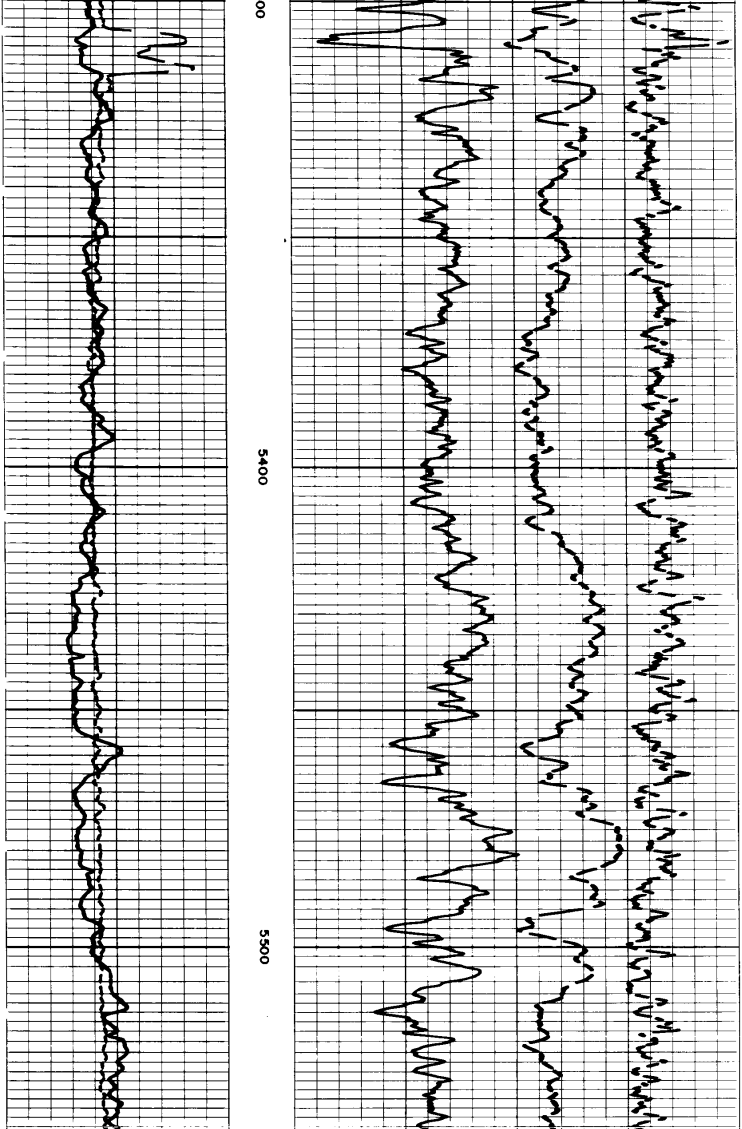


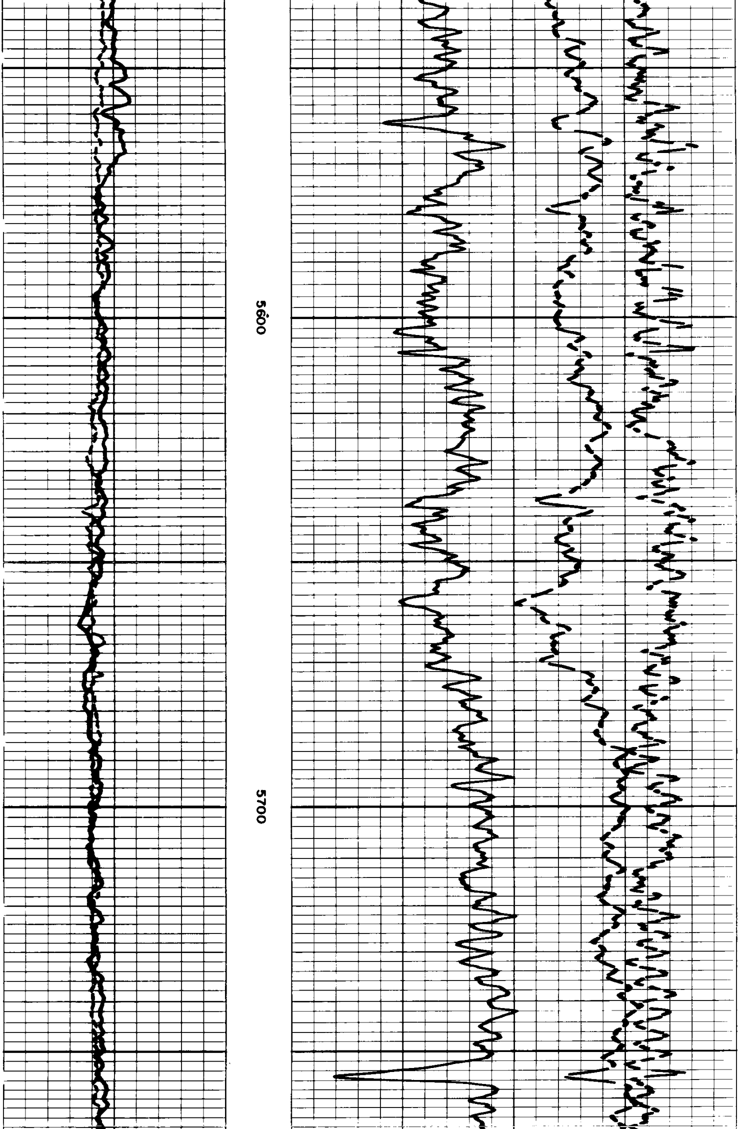


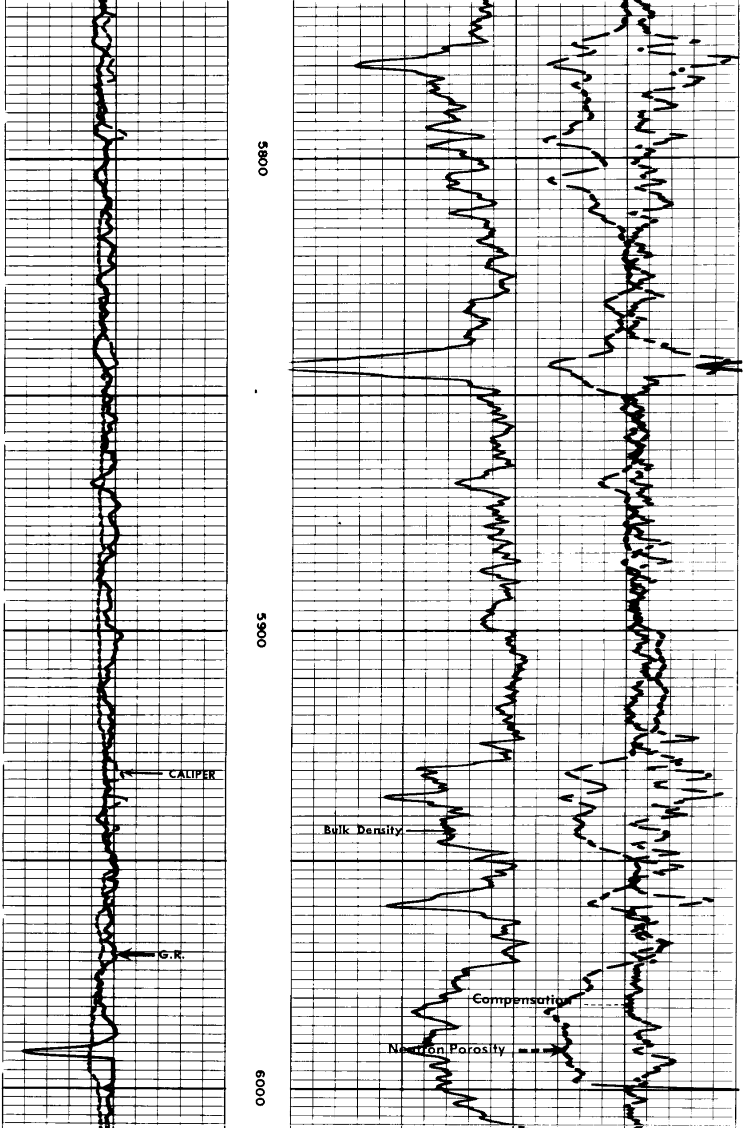


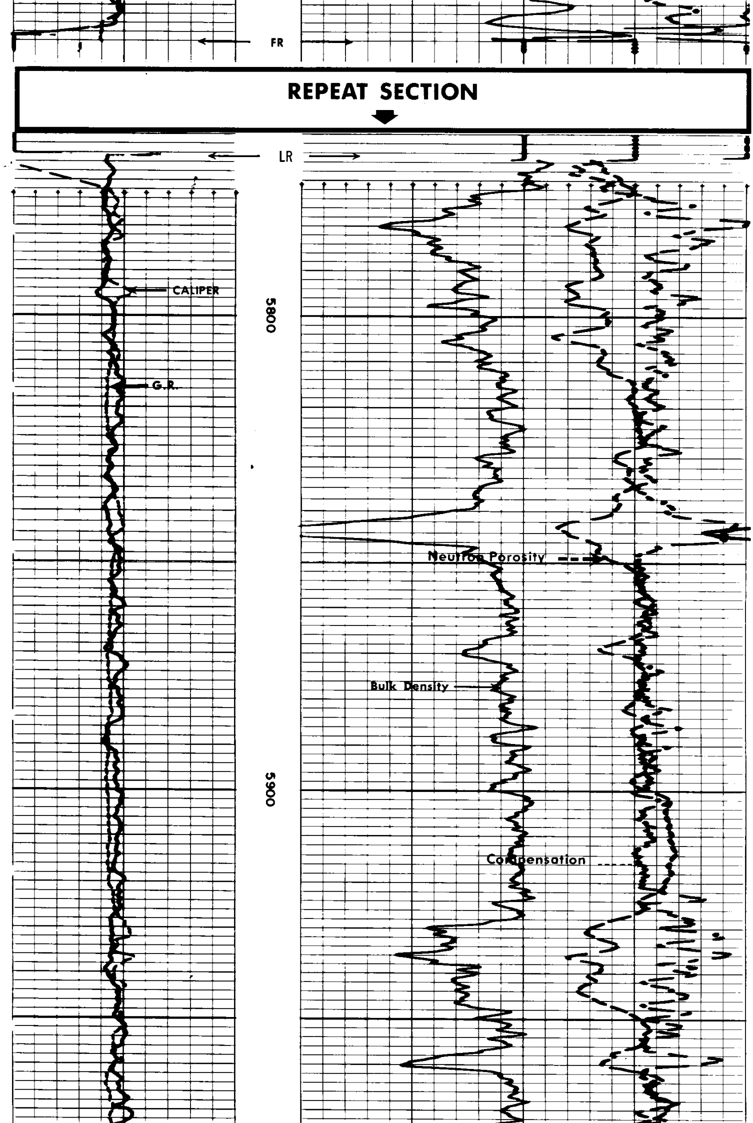


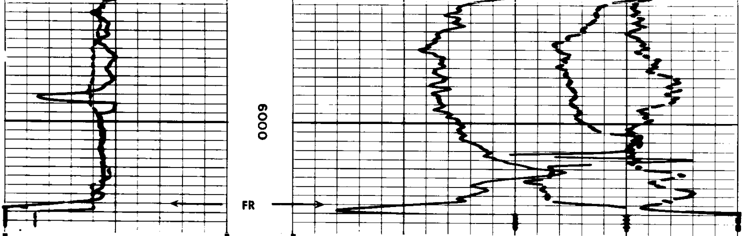












GAMMA RAY API UNITS

0 150

150 300

CALIPER DIAM. IN INCHES

6" 16"

COMPENSATED NEUTRON POROSITY

60 30 0

BULK DENSITY GRAMS/CC

2.0 2.5 3.0

CORRECTION GRAMS/CC

−.25 0 +.25

~END OF LOG~