2"

Schlumberger

COMPENSATED FORMATION DENSITY LOG
Gamma-Gamma

COUNTY
FIELD or
LOCATION
WELL
COMPANY

COMPANY STANDARD OIL COMPANY
OF CALIFORNIA
WELL BLUE MOUNTAIN UNIT #1
FIELD EXPLORATORY
COUNTY MALHEUR STATE OREGON

Location: 2430' FSL & 200' FWL
Sec. 34 Twp. 37S Rge. 41E

Other Services: DIL, BHC, CNL
HDT.

Permanent Datum: GL ; Elev.: 5591
Log Measured From KB , 17 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 5608
D.F.
G.L. 5591

Date	7-2-73	8-4-73		
Run No.	ONE	TWO		
Depth—Driller	2015	8414		
Depth—Logger	2015	8421		
Btm. Log Interval	2014 *	8420 **		
Top Log Interval	172	2015		
Casing—Driller	16 @ 171	10 3/4 @ 2015	@	@
Casing—Logger	172	2015		
Bit Size	15"	9 7/8"		
Type Fluid in Hole	GEL-DEXTRID	DEXTRID-GEL		
Fluid Level	FULL	FULL		
Dens. | Visc.	68 | 19	67½ | 55		
pH | Fluid Los	8.5 | 8 ml	8.0 | 7.6 ml	ml	ml
Source of Sample	CIRCULATED	FLOWLINE		
Rm @ Meas. Temp.	2.38 @ 90 °F	2.18 @ 95 °F	@ °F	@ °F
Rmf @ Meas. Temp.	2.29 @ 85 °F	2.03 @ 82 °F	@ °F	@ °F
Rmc @ Meas. Temp.	2.0 @ 85 °F	2.88 @ 82 °F	@ °F	@ °F
Source: Rmf | Rmc	M | C	M | M		
Rm @ BHT	2.3 @ 98 °F	1.05 @ 184 °F	@ °F	@ °F
Time Since Circ.	7	8 HRS.		
Max. Rec. Temp.	98 °F	184 °F	°F	°F
Equip. | Location	5106 | SAC	5106 | SAC		
Recorded By	ANDERSEN	FRIDLEY		
Witnessed By	GILBERT	YECKL		

SWS-1381-G

* 172'-2014' (Compensated & Neutron Formation Density)
** 2015-8420' (Compensated Formation Density)

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

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES

Date | Sample No.		
Depth - Driller		
Type Fluid		
Source of Sample		
Rm @ Meas. Temp.	@ °F	@ °F
Rmf @ Meas. Temp.	@ °F	@ °F
Rmc @ Meas. Temp.	@ °F	@ °F
Rm @ BHT	@ °F	@ °F
Dens. | Visc.		
ph | Fluid Loss	ml	ml
% Water by Vol.		
% Oil by Vol.		
% Solids by Vol.		
Solids Av. Sp. Gr.		

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

LOGGING DATA

FDC Selectors					
Liquid Density	Grain Density	Hole Fluid	Porosity Scale	From	To
.00	2.65	LIQ.		8420	2015

EQUIPMENT DATA

Run No.	
Panel No.	
Cart No.	
Skid No.	
Sonde No.	
Source	
Calibrator	
GR Cart.	
TTR	
Mem Panel	

REMARKS

Service Order No. - 84253
API Serial No. -

BREAK CIRC. : 0930 8-4

OFF BOTTOM : 1730 8-4

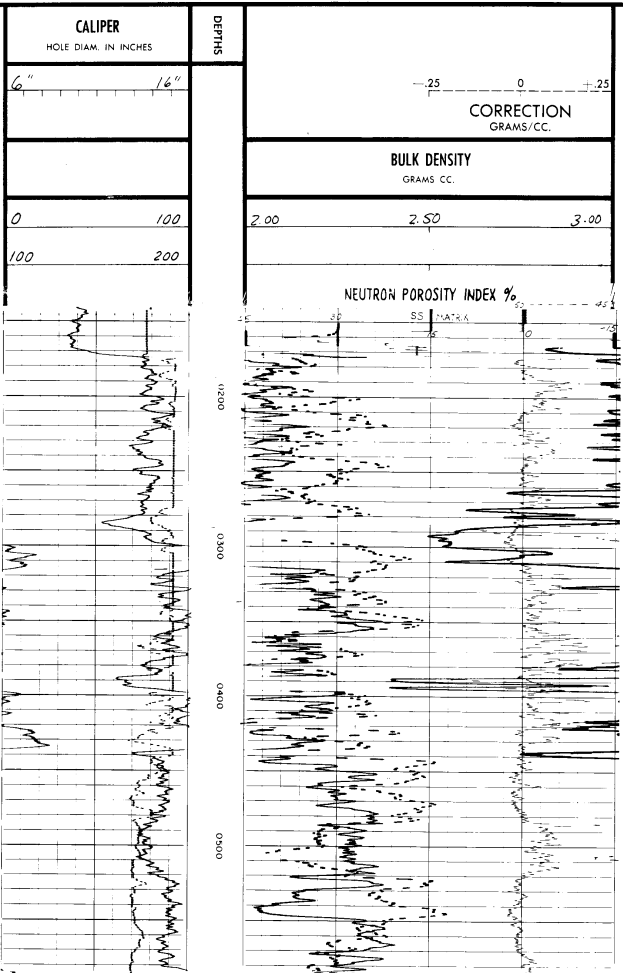
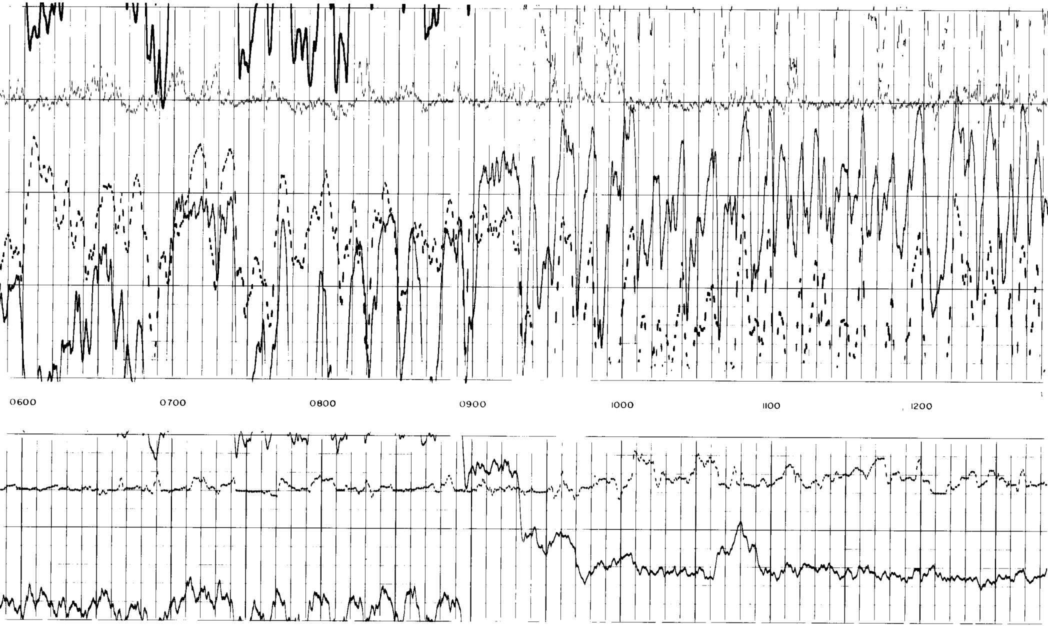
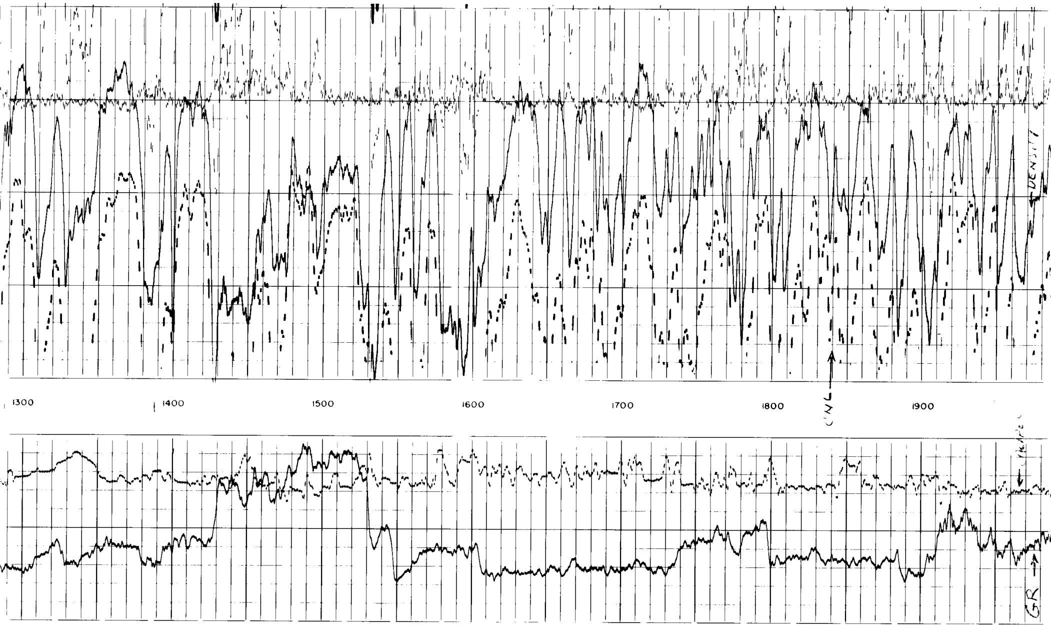
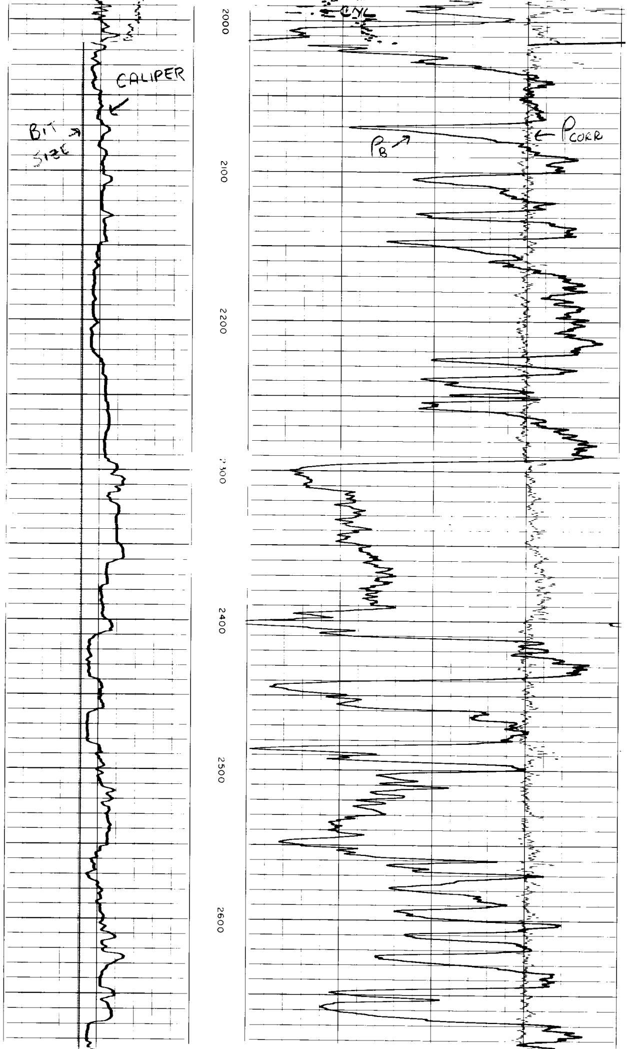
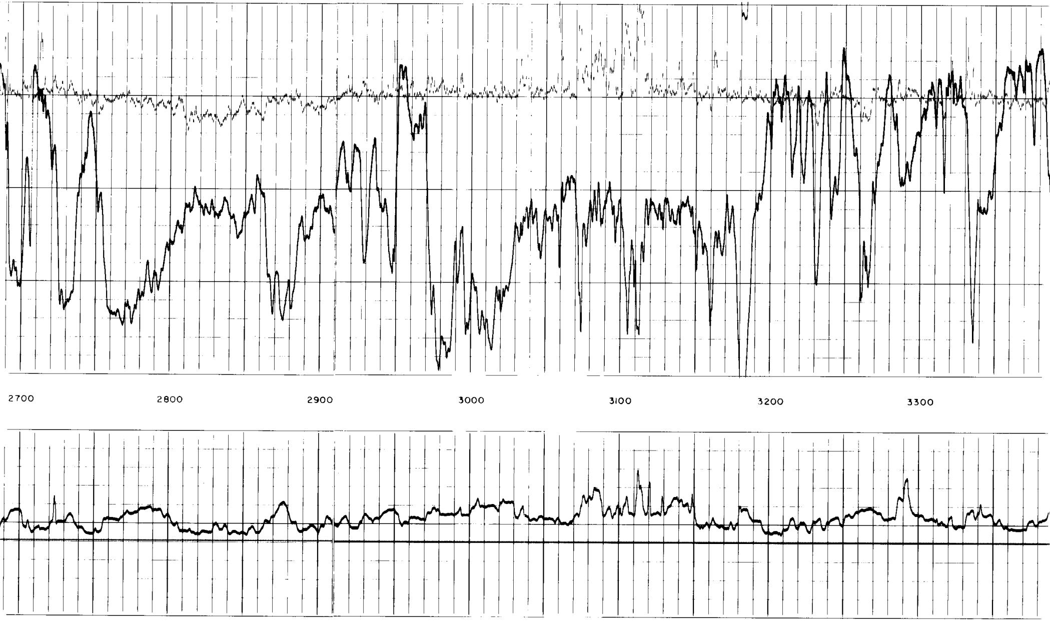
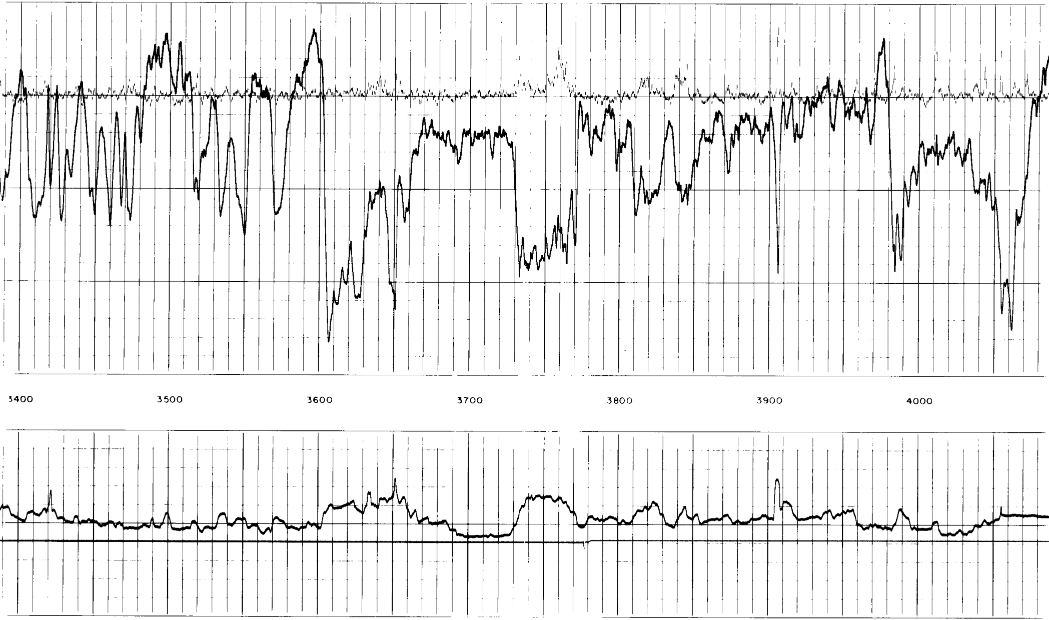
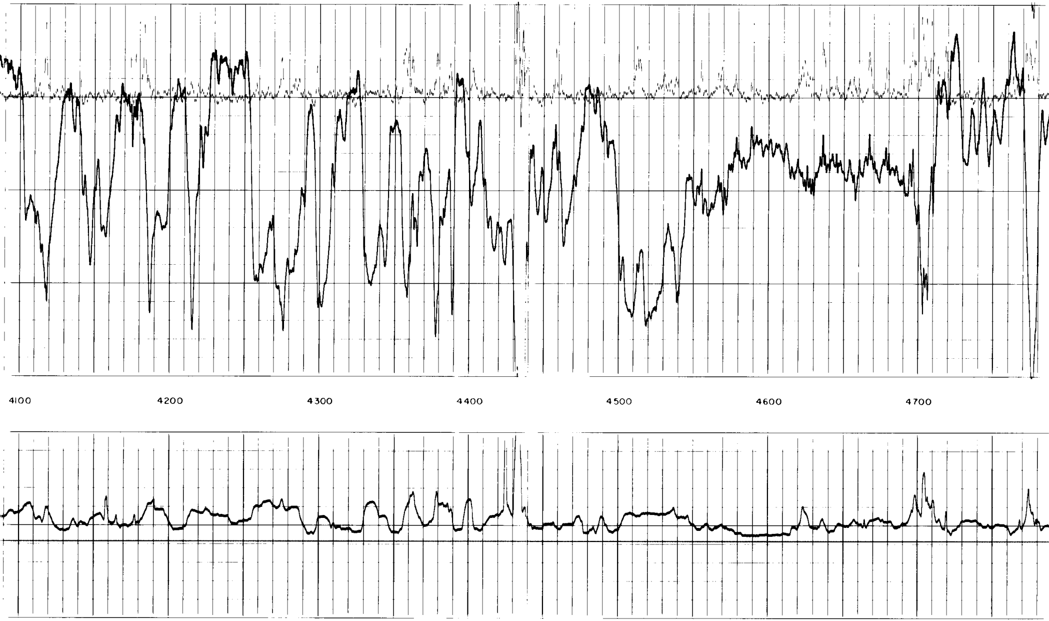
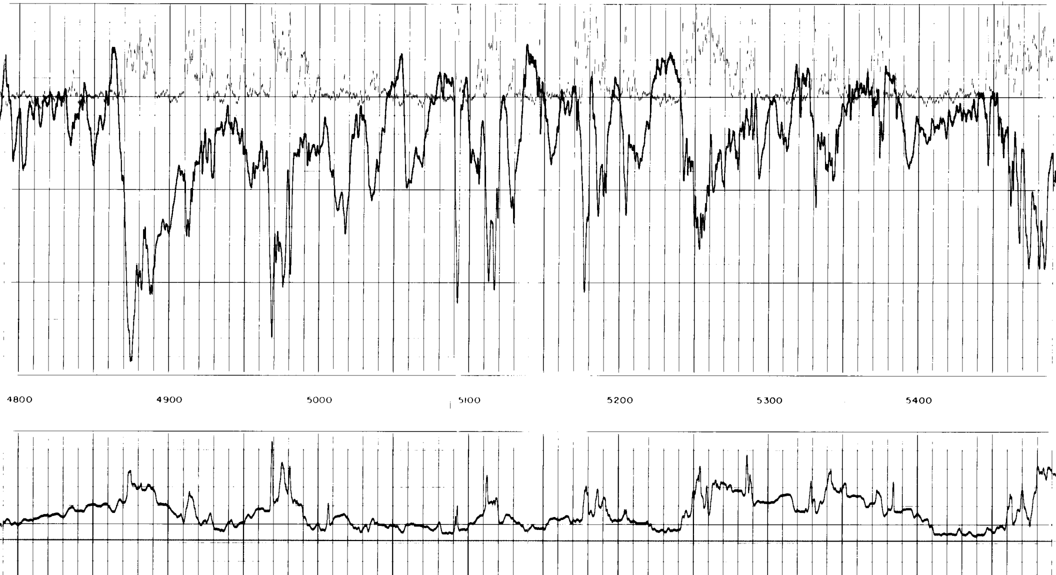
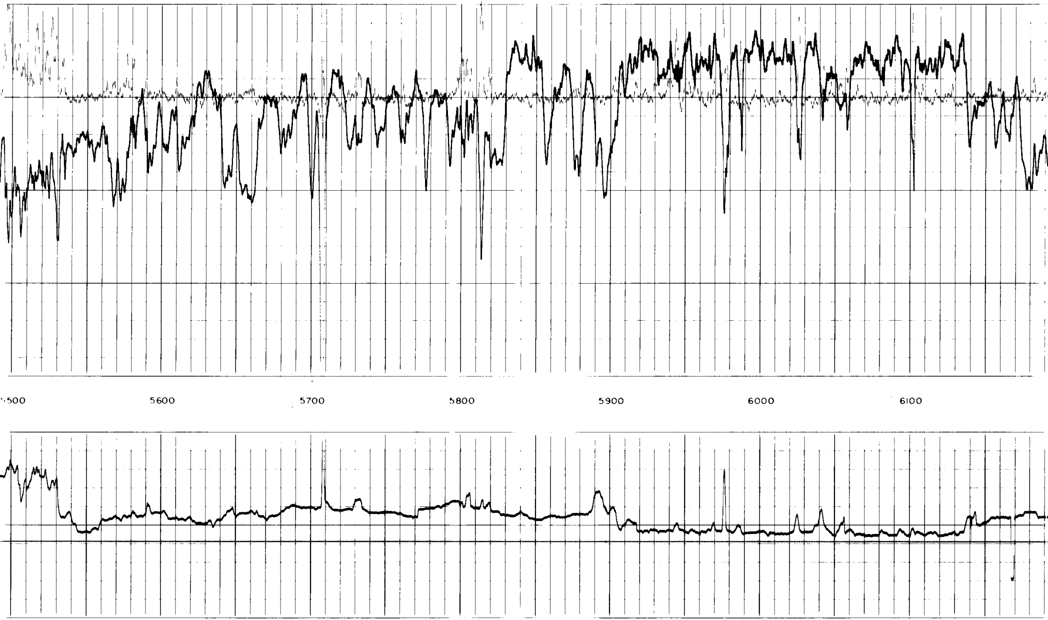
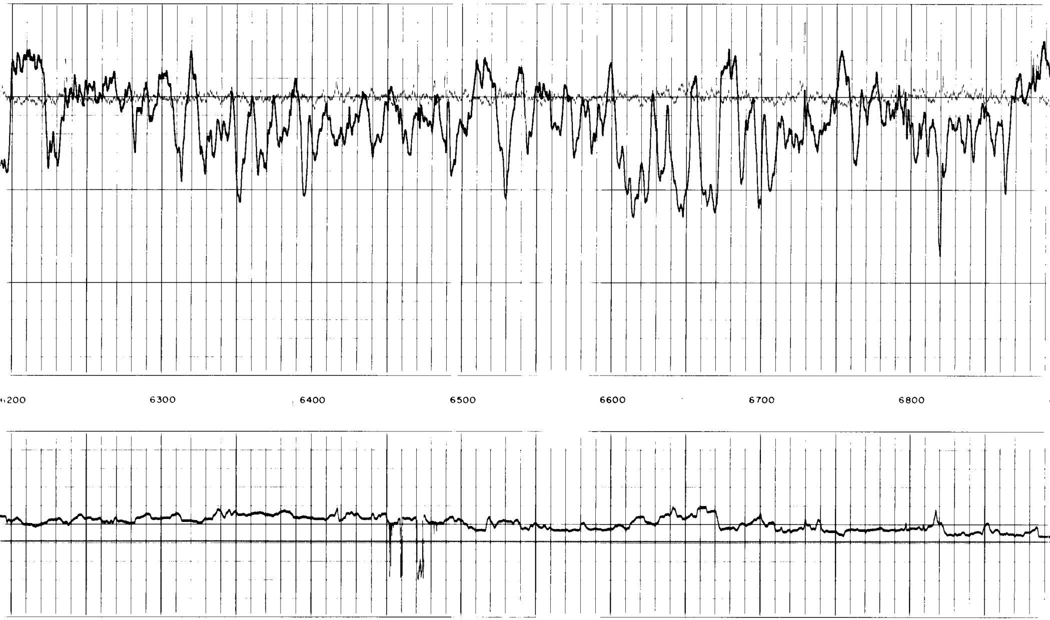
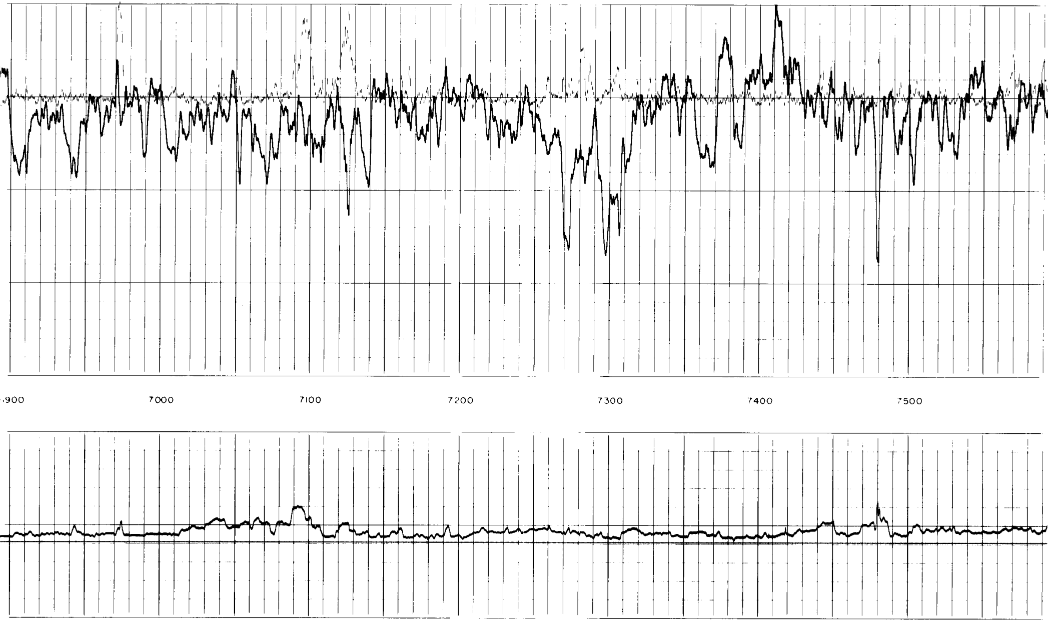
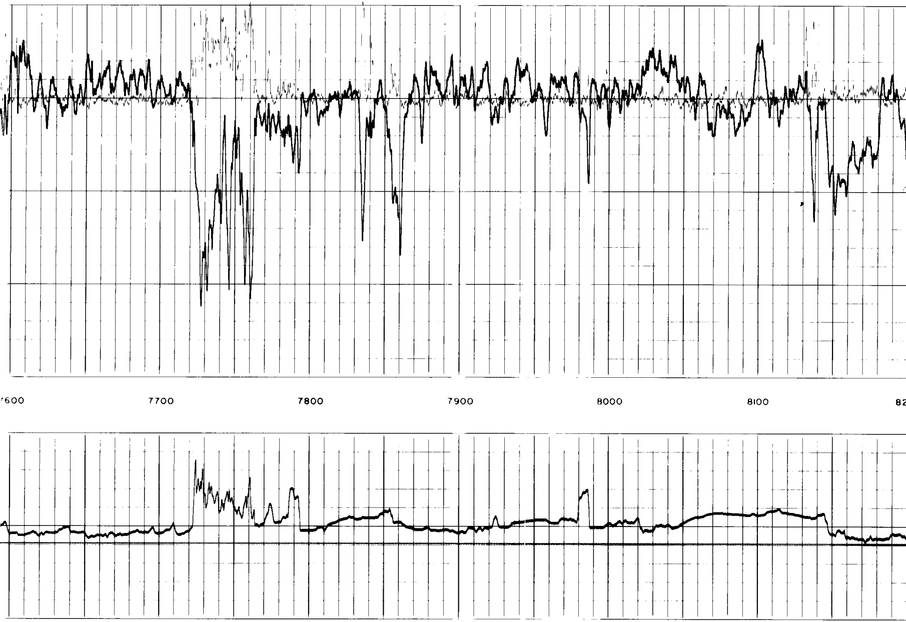
BIT SIZE/CASING DATA

Bit	From	To	Csg. Size	Csg. Wt.	From	To
9 7/8	2015	TD	10 3/4		0	2015

CALIBRATION DATA

Run No.	Gamma Ray			FDC — Before Log — ACPS		FDC — After Log — ACPS	
	API Scale	Background CPS	Total CPS	P_1	P_2	P_1	P_2
1				403	702	403	702

2								
3								
4								

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 7 of our General Terms and Conditions as set out in our current Price Schedule.