Scanned

Schlumberger

DUAL INDUCTION - Spherically Focused Log
WITH LINEAR CORRELATION LOG

COUNTY HARNEY
FIELD HARNEY BASIN
LOCATION 10 23S 29E
WELL FEDERAL NO. 1-10
COMPANY MICHEL T. HALBOUTY

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WELL FEDERAL NO. 1-10
FIELD HARNEY BASIN
COUNTY HARNLY STATE ORIGON

LOCATION
334' WEST & 2299' SOUTH FROM
THE NORTHEAST CORNER OF

API SERIAL NO.	SEC.	TWP	RANGE
	10	23S	29E

Other Services:
HDT
FDC/CNL/GR

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	7-23-77	9-10-77		
Run No.	ONE	TWO		
Depth—Driller	2525	6000		
Depth—Logger	2520	6021		
Btm. Log Interval	2514	6015		
Top Log Interval	377	2525		
Casing—Driller	16" @377	10 [illegible]" @2525	@	@
Casing—Logger	377	2525		
Bit Size	1[illegible]"	9 "		
Type Fluid in Hole	FRESH-GEL	LOW SOLIDS AERATED		
Dens. | Visc.	6[illegible] | 47	8.[illegible] | 38	|	|
pH | Fluid Loss	11.[illegible] | 18.8 ml	11.7 | 40.2 ml	| ml	| ml
Source of Sample	CIRCULATED	CIRCULATED		
Rm @ Meas. Temp.	1.76 @86 °F	5.03 @60 °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.98 @72 °F	4.98 @58 °F	@ °F	@ °F
Rmc @ Meas. Temp.	2.64 @86 °F	7.5 @60 °F	@ °F	@ °F
Source: Rmf | Rmc	M | C	M | C	|	|
Rm @ BHT	1.52 @98 °F	3.12 @104 °F	@ °F	@ °F
TIME Circulation Stopped	1300	1930		
TIME Logger on Bottom	2030	0700		
Max. Rec. Temp.	98 °F	104 °F	°F	°F
Equip. | Location	7763 | SAC	7731 | SAC	|	|
Recorded By	NORTH	CRAWFORD		
Witnessed By	MOSLEY	MOSLEY		

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

Run No.	ONE	TWO		
Service Order No.	[illegible]	[illegible]		
Fluid Level	FULL	FULL		
Salinity - PPM CL.	- -	- -		
Speed - F.P.M.	100	100		
EQUIPMENT DATA				
Panel No.	[illegible]	DD-439		
Cart No.	[illegible]	39[illegible]		
Sonde No.	FA-13	FA-35		
Mem. Panel No.	DA-233	DA-337		
G.R. Panel No.	- -	-		
G.R. Cart. No.	- -	- -		
Tape Recorder - (TTR)	- -	- -		
Depth Encoder - (DRE)	- -	- -		
Pressure Wheel (CPW)	- -	- -		
Type Centralizers	FIN	FIN		
Stand Off - Inches	3"	1.5"		
CALIBRATION DATA				
Sonde Error - ILM	8.8	8.[illegible]		
Sonde Error - ILD	8.3	6.0		
G.R. BKG. - CPS.	- -	- -		
G.R. Source - CPS	- -	- -		
LOGGING DATA				
S.E. Log - ILM	8.8	8.2		
S.E. Log -ILD	8.3	6.0		
S.E. - Set in Hole - Depth	- -	- -		
S.E. Corr. - Hole Size	- -	- -		
G.R. Scale per 100 Div.	- -	- -		
G.R. - T.C.	- -	- -		
G.R. Sens.	- -	- -		

SCALE CHANGES

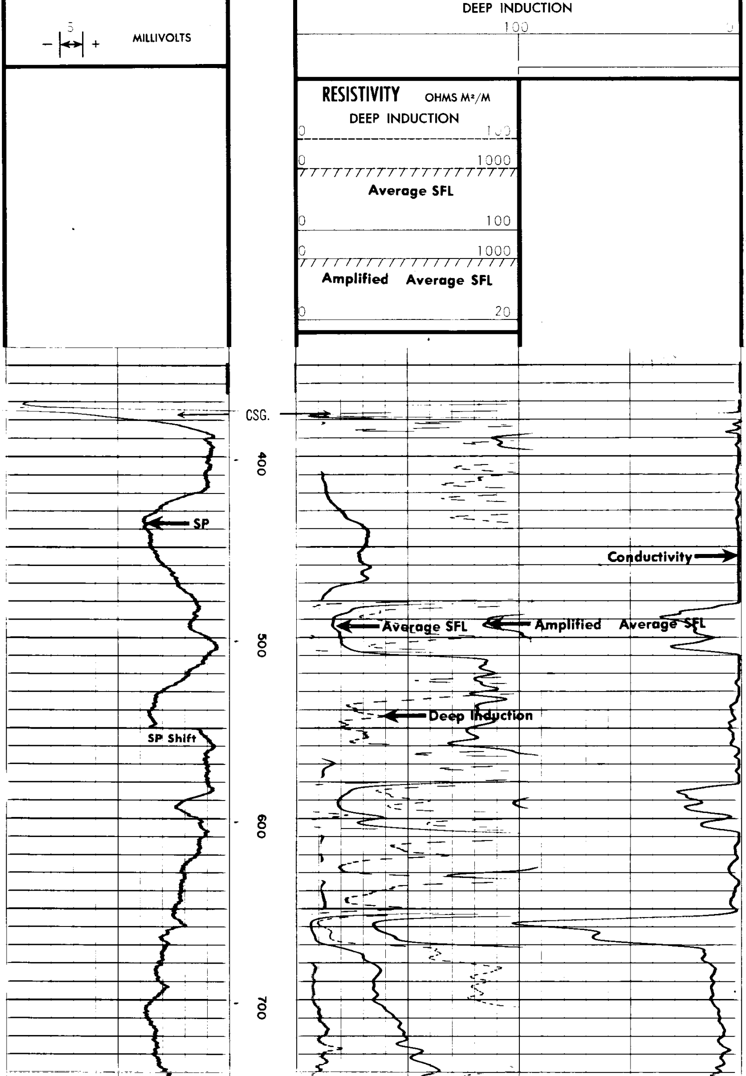
Type Log	Depth	Scale Up Hole	Scale Down Hole

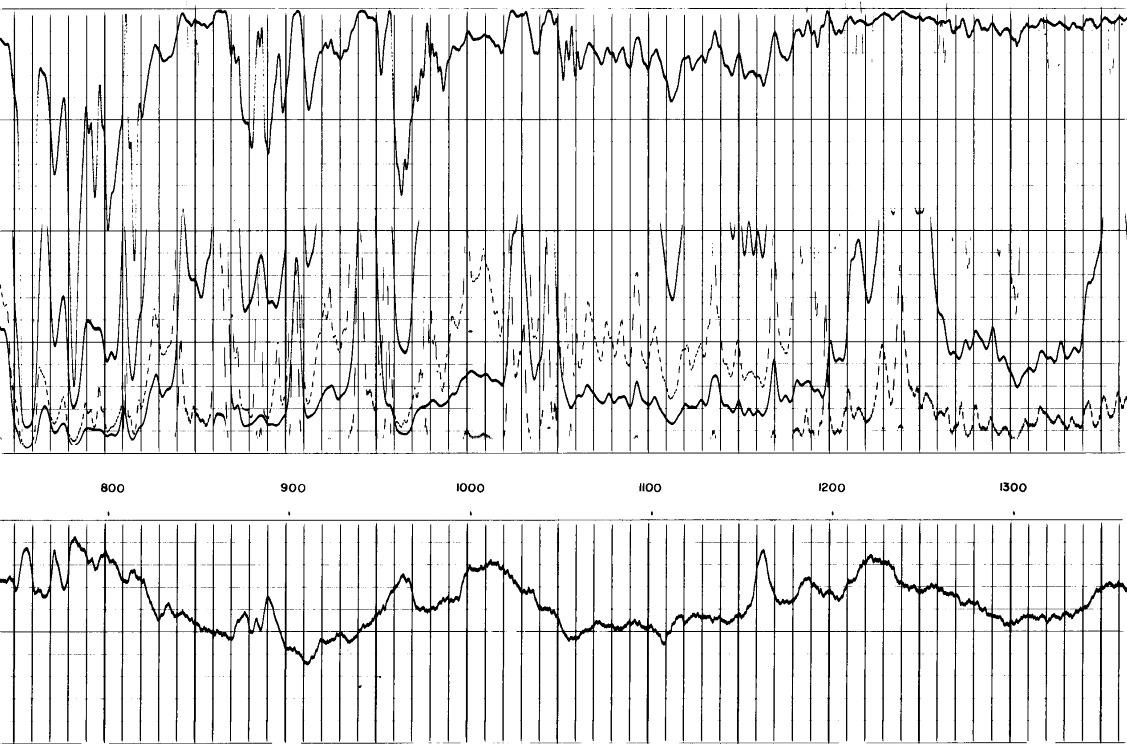
REMARKS

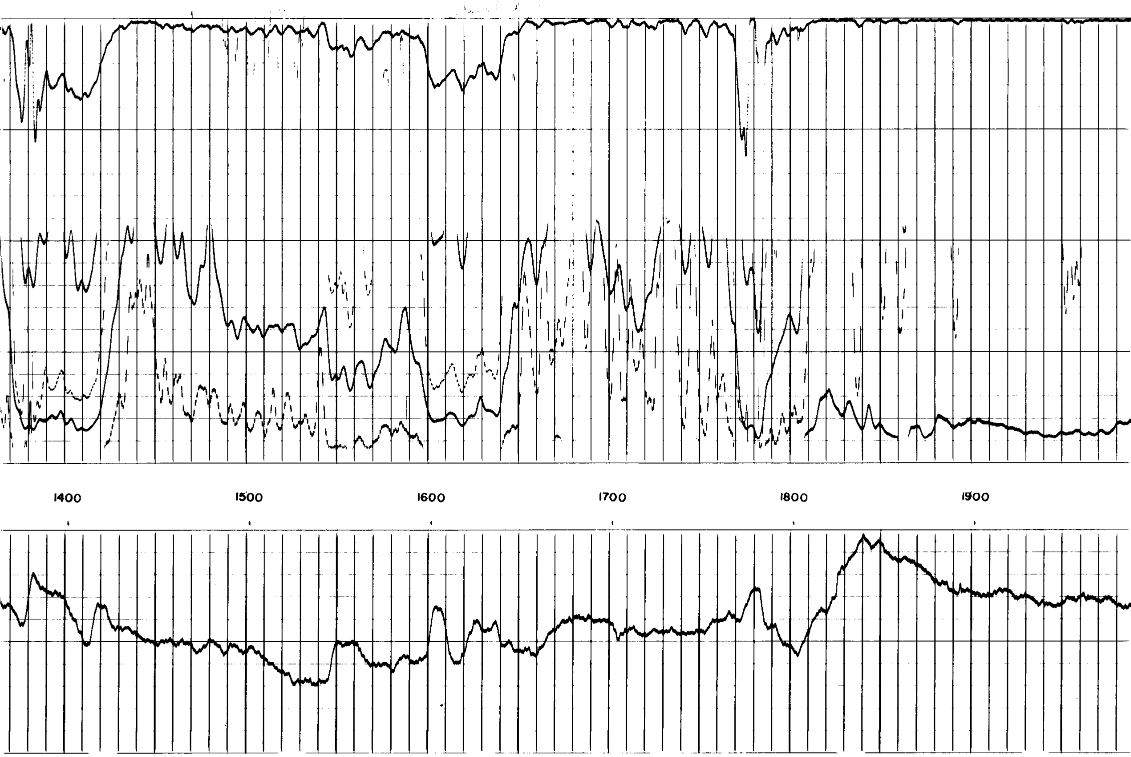
[illegible]

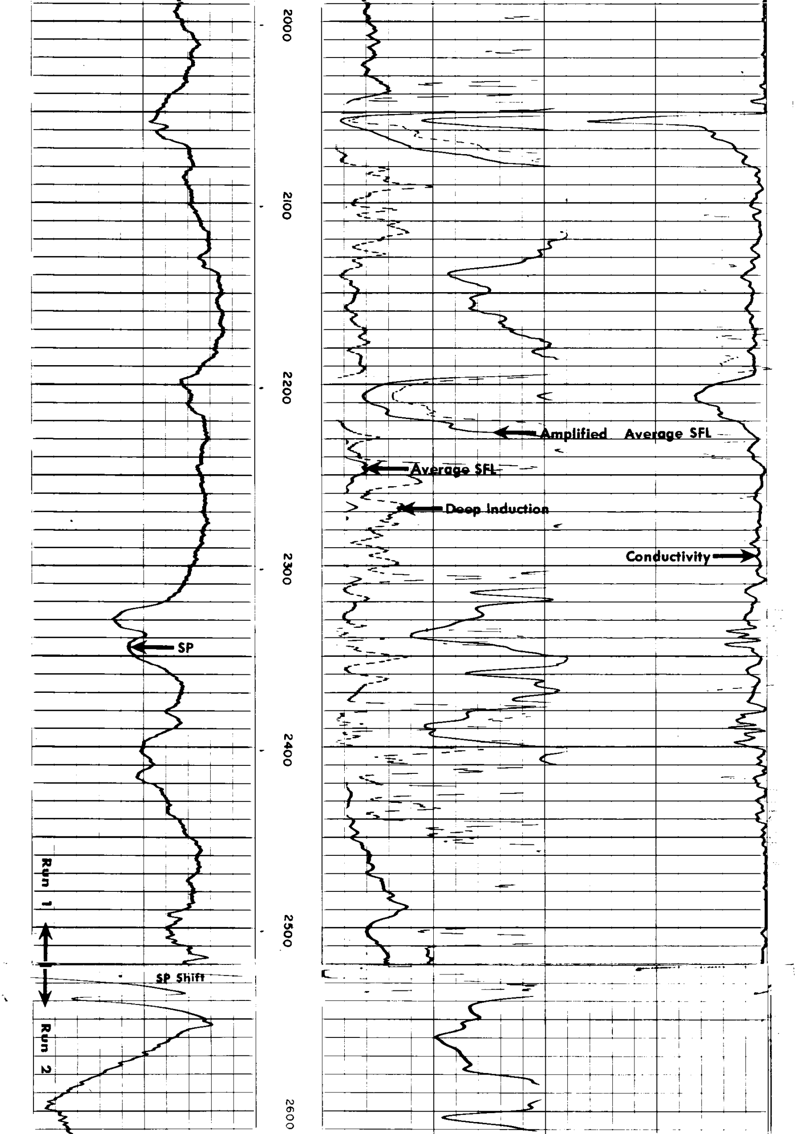
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

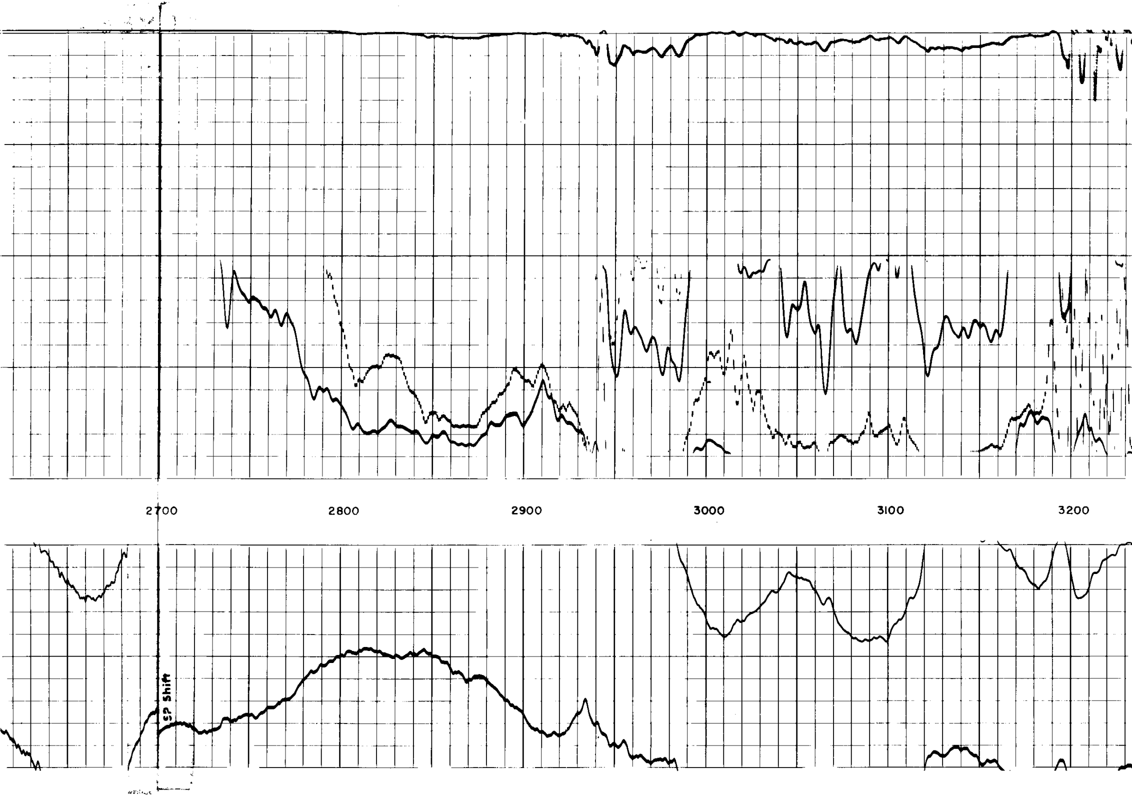
SPONTANEOUS-POTENTIAL | CONDUCTIVITY MILLIMHOS/M = $\frac{1000}{\text{OHMS M}^2/\text{M}}$

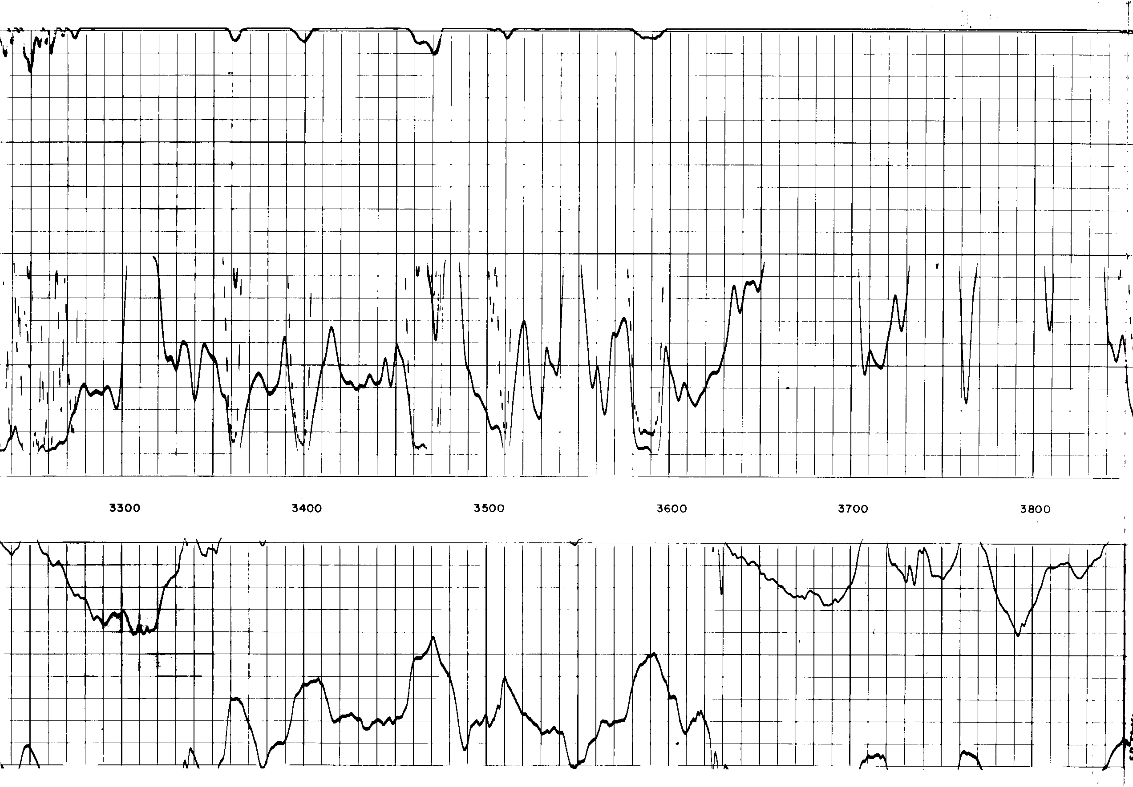


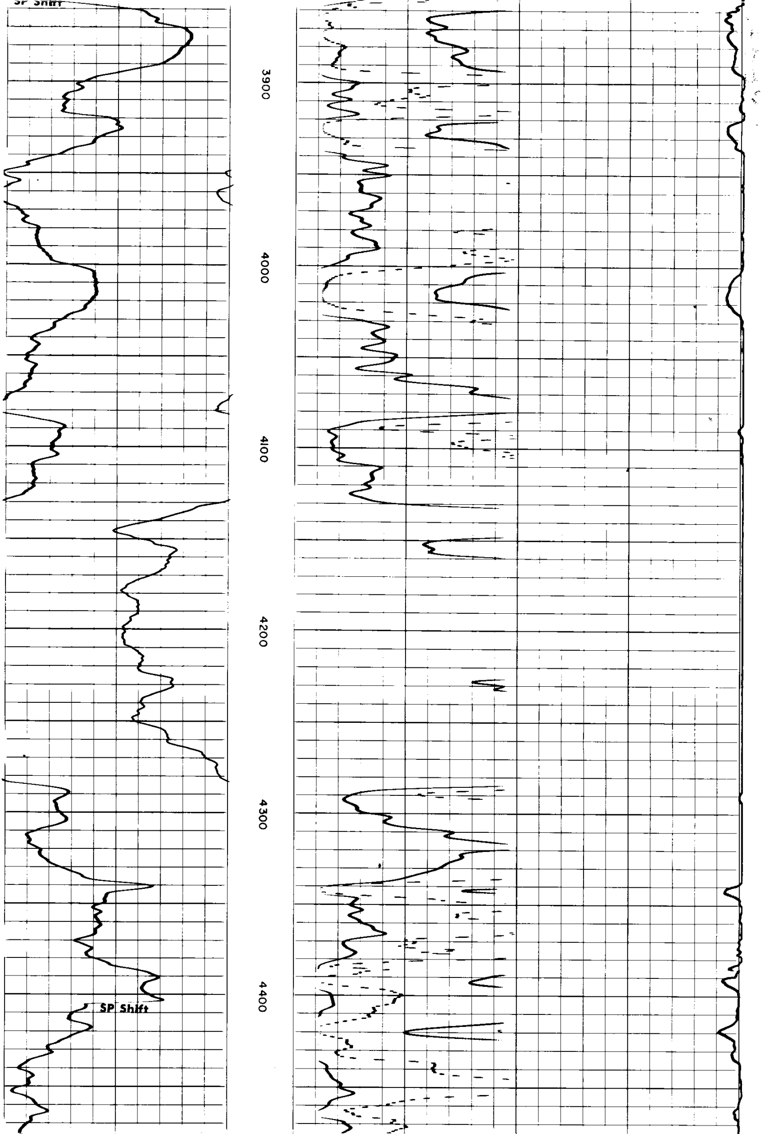


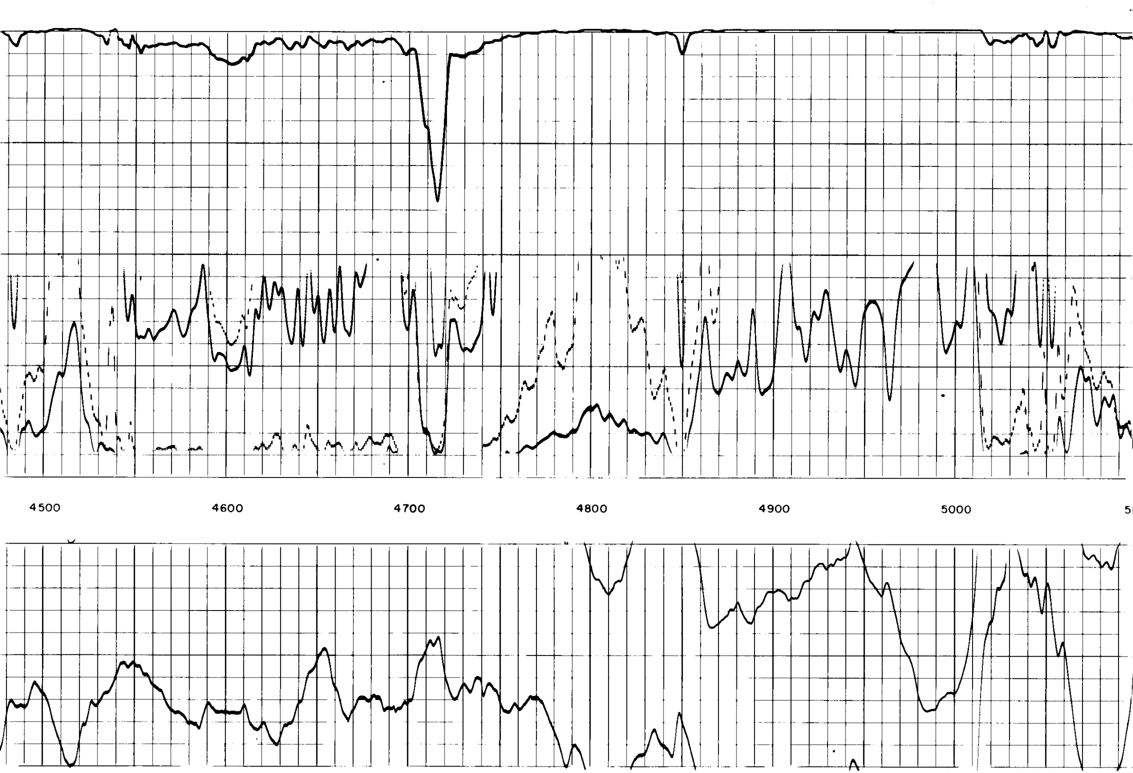


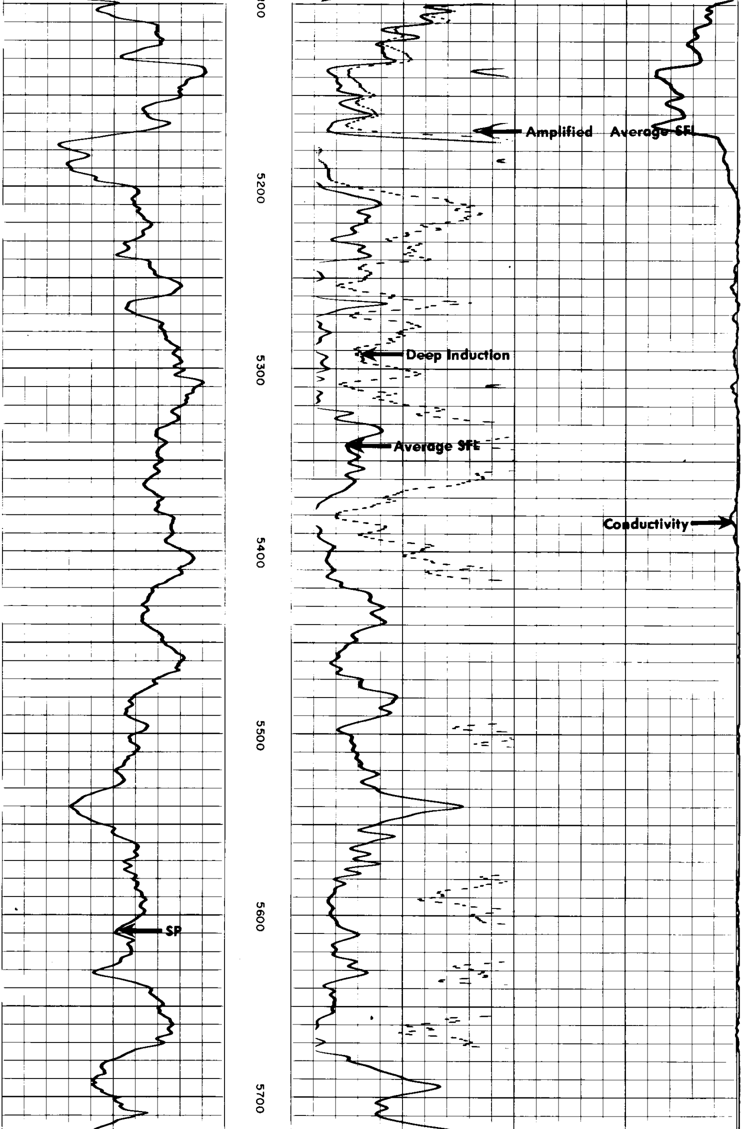


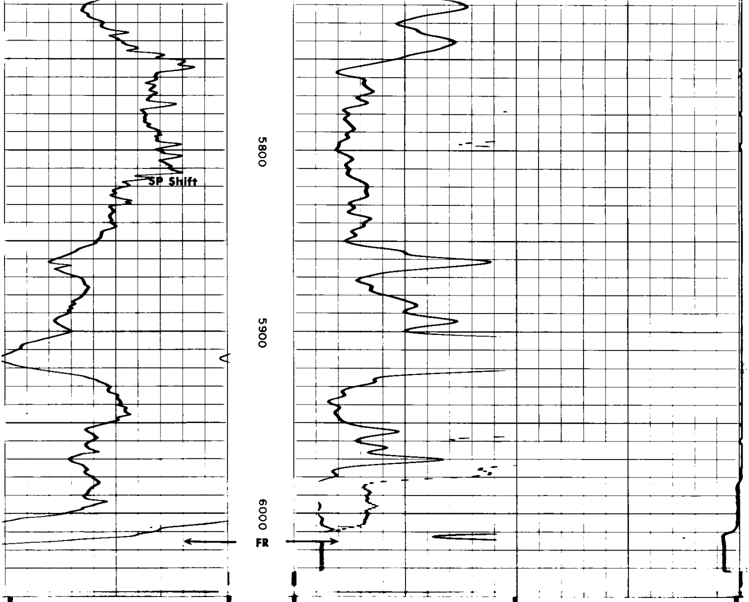












RESISTIVITY OHMS M²/M

Average SFL

0 100

0 1000

DEEP INDUCTION

0 100

0 1000

Amplified Average SFL

0 20

CONDUCTIVITY MILLIMHOS/M = $\frac{1000}{\text{OHMS M}^2\text{/M}}$

DEEP INDUCTION

200 100 0

SPONTANEOUS-POTENTIAL

5

– |←→| + MILLIVOLTS

DEPTHS

COMPANY MICHEL T. HALBOUTY

WELL FEDERAL NO. 1-10

FIELD HARNEY BASIN

COUNTY HARNEY **STATE** OREGON ~END~

SCHL. FR 6015

SCHL. TD 6021

DRLR. TD 6000

Elev: KB 4778

DF - -

GL 4765