Scanned

Schlumberger

FOUR — ARM HIGH RESOLUTION CONTINUOUS DIPMETER

COUNTY HARNEY
FIELD HARNEY BASIN
LOCATION 10 23S 29E
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 33 [illegible] FROM THE
NORTHEAST CORNER [illegible]

API SERIAL NO	SEC	TWP	RANGE
	10	23	29

Other Services:
DIL

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			
Run No.	ONE			
Depth—Driller	2525			
Depth—Logger (Schl.)	2517			
Btm. Log Interval	2515			
Top Log Interval	375			
Casing—Driller	16 @ 377	@	@	@
Casing Logger	375			
Bit Size	14			
Type Fluid in Hole	FRESH-GEL			
Dens. | Visc.	65 | 47			
pH | Fluid Loss	11.4 | 16.5 ml	ml	ml	ml
Source of Sample	CIRCULATED			
Rm @ Meas. Temp.	1.76 @ 86 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.16 @ 72 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	2.64 @ 86 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | C			
Rm @ BHT	1.52 @ 98 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	1800			
TIME Logger on Bottom	2330			
Max. Rec. Temp.	98 °F	°F	°F	°F
Equip. | Location	7763 | SAC			
Recorded By	NORTH			
Witnessed By Mr.	HOLLY			

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

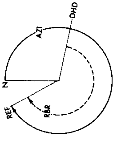
REMARKS: Service Order No. 475 Magnetic Declination [illegible]

Run No.	1	2	3	4
Tool Type	HDT-B			
HDP	D-738			
DDR | TTR	A-6			
DPI	F-14			
HDM	F-1726			
HDE	CB-1874			
HDS	D-1752			
Adapter Head 62	862			
UG | CG | SAH	- | - | -			
5" Film | 10" Film | 60"Record	A | - | A			
Analog | Digital	A | A			
TIME Circulation Stopped	1800			
TIME Schl. on Bottom	2330			

ROLL NO.	INTERVAL
1	2515-375

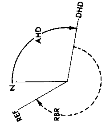
TOOL AZIMUTH AND HOLE DIRECTION CALCULATION DEFINITIONS

(DHD) HIGH SIDE OF TOOL — Direction from center of tool to upper side of tool.
(N) NORTH — Direction from center of tool to Magnetic North.
(REF) REFERENCE ELECTRODE — Direction from center of tool to #1 electrode.
(AZI) AZIMUTH OF REFERENCE ELECTRODE — Clockwise angle from N to REF.
(RBR) RELATIVE BEARING = Clockwise angle from DHD to REF.
(AHD) AZIMUTH OF HOLE DEV. (TOOL AXIS) = Clockwise angle from N to DHD.



LOW ANGLE UNIT ☒

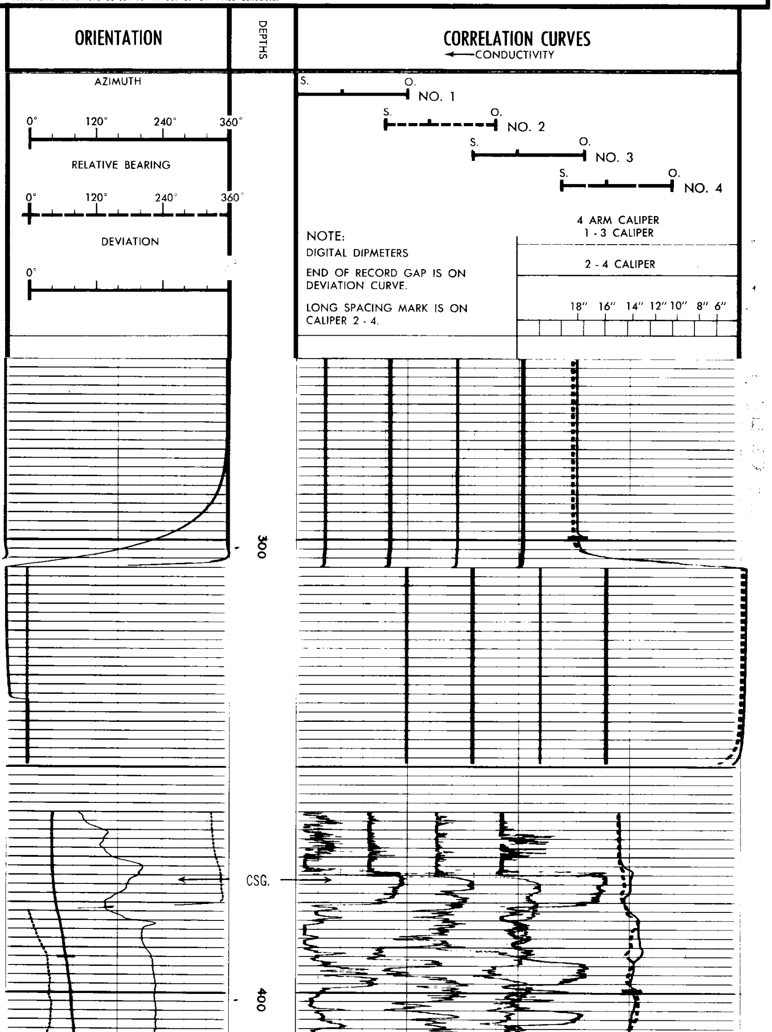
EXAMPLE
HDM - Low Angle Unit (0-36°)
AZI (solid curve) = 330°
RBR (dotted curve) = 230°
AHD = AZI — RBR = 330° - 230° = 100°



HIGH ANGLE UNIT ☐

EXAMPLE
HDM - High Angle Unit (0-72°)
AHD (solid curve) = 100°
RBR (dotted curve) = 230°
AZI = AHD + RBR = 100° + 230° = 330°

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.

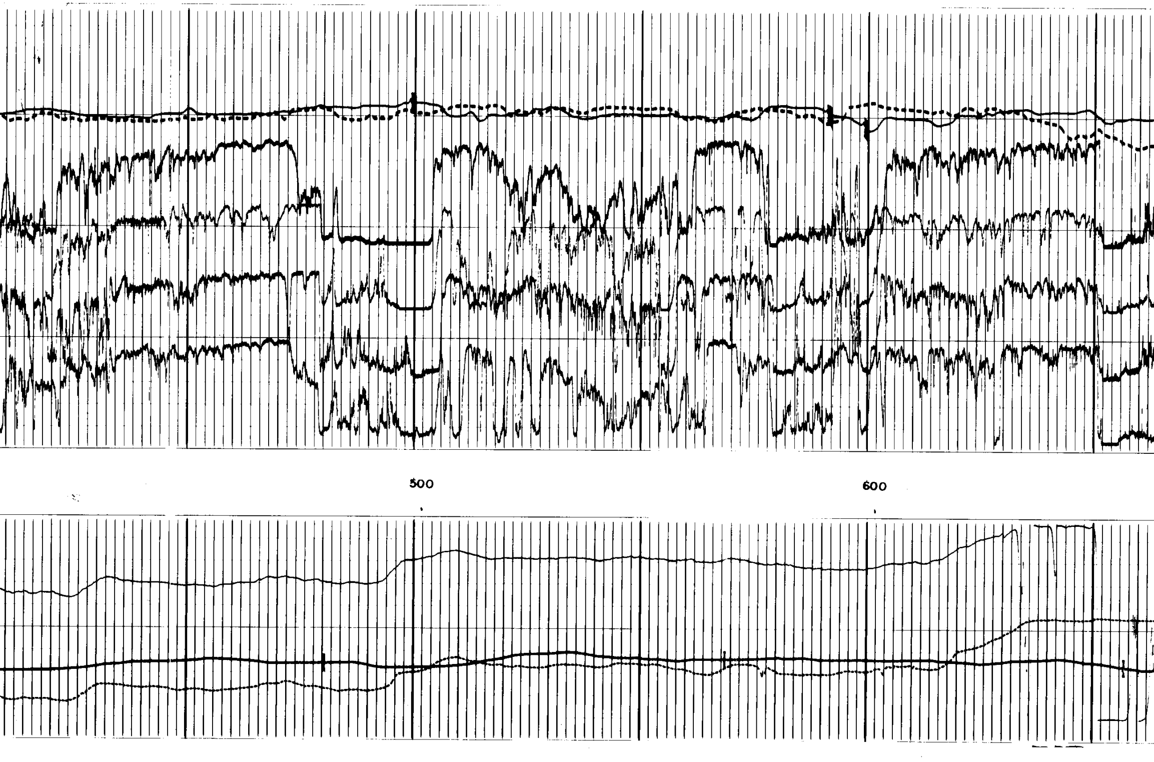


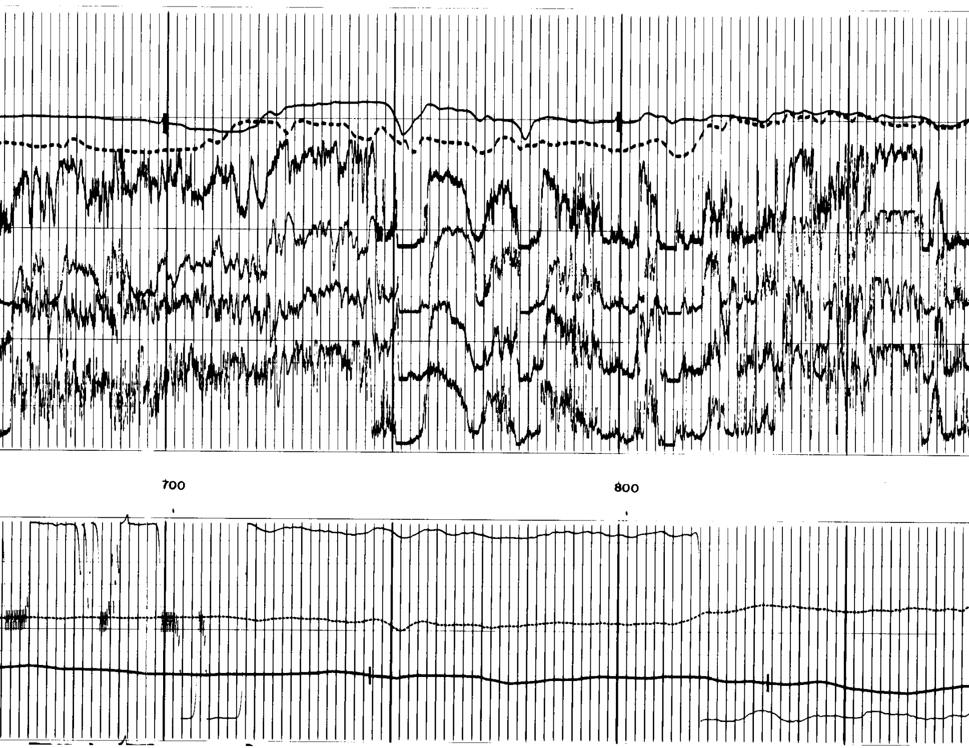
NOTE:

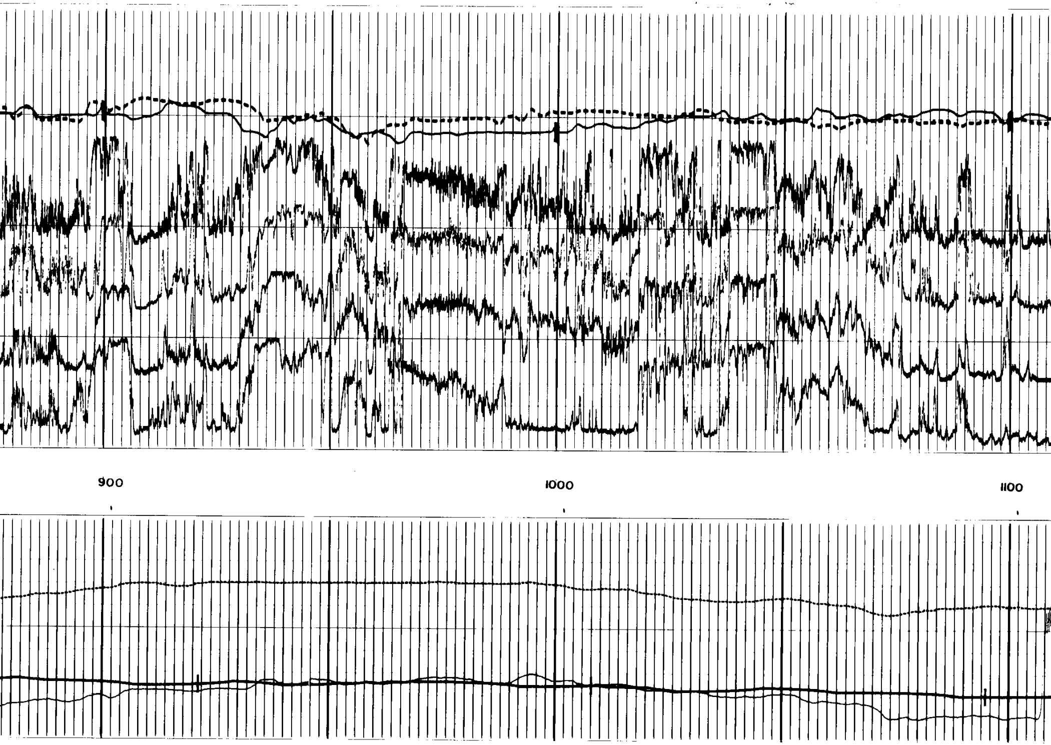
DIGITAL DIPMETERS

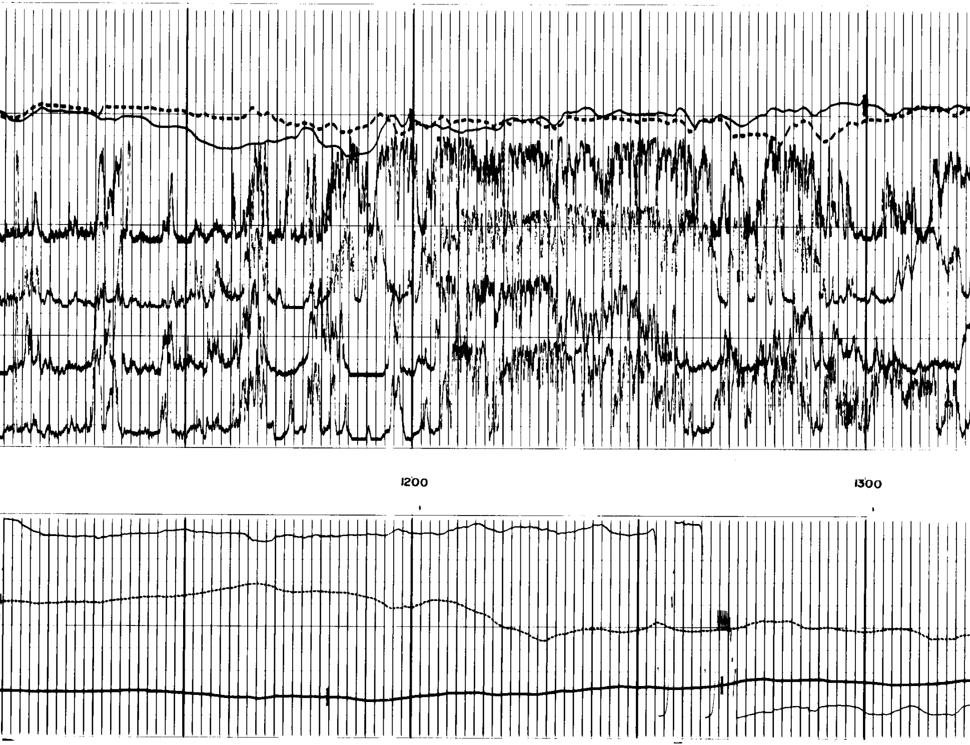
END OF RECORD GAP IS ON DEVIATION CURVE.

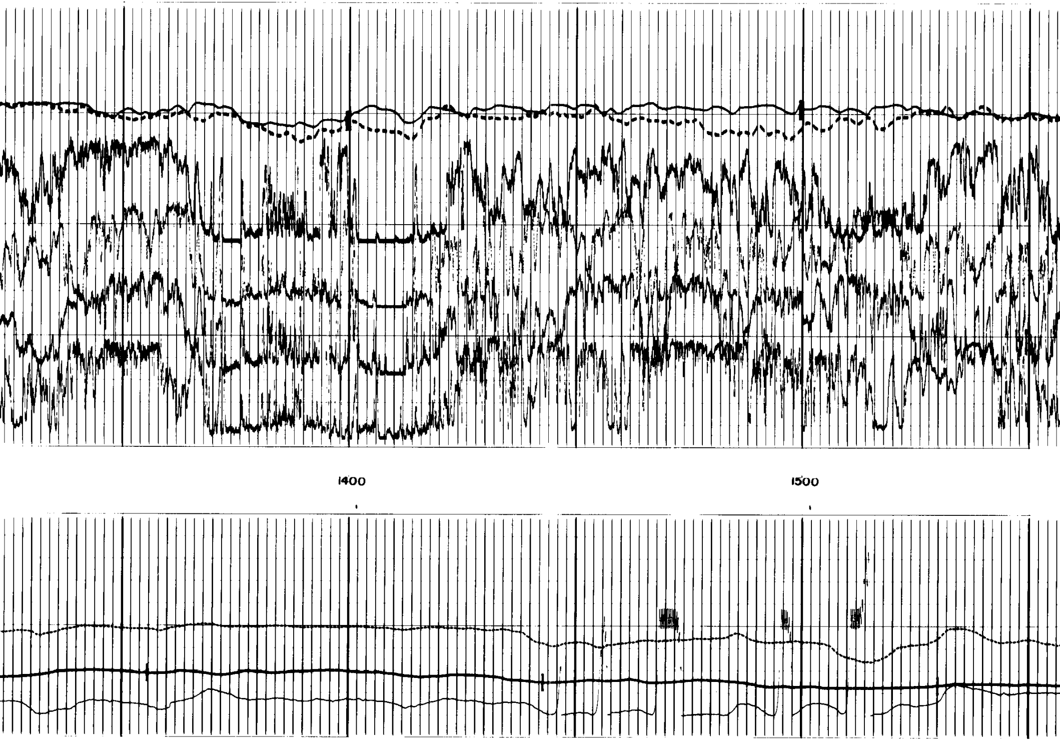
LONG SPACING MARK IS ON CALIPER 2 - 4.

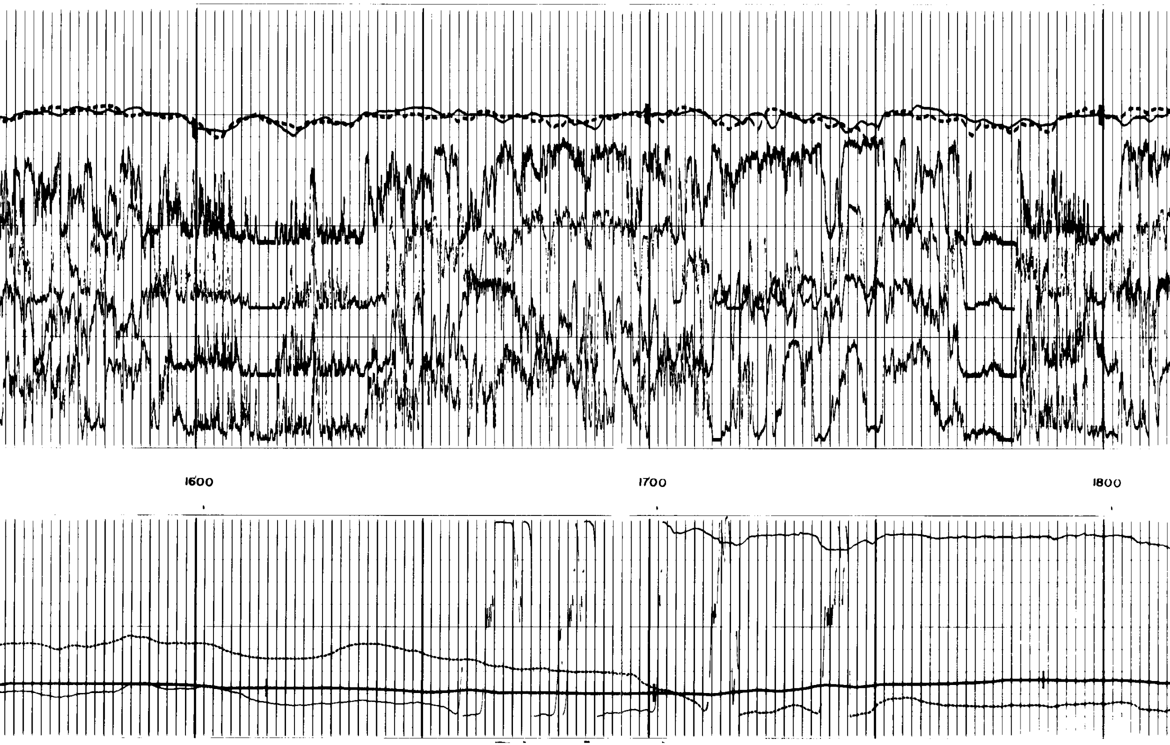


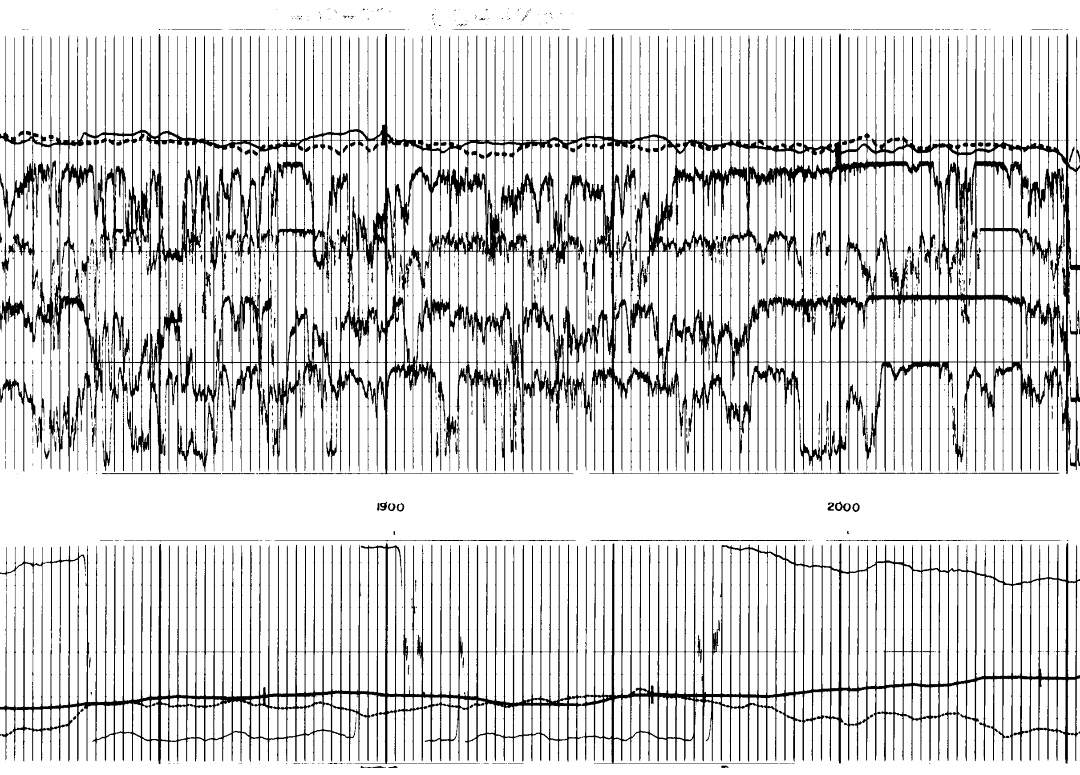


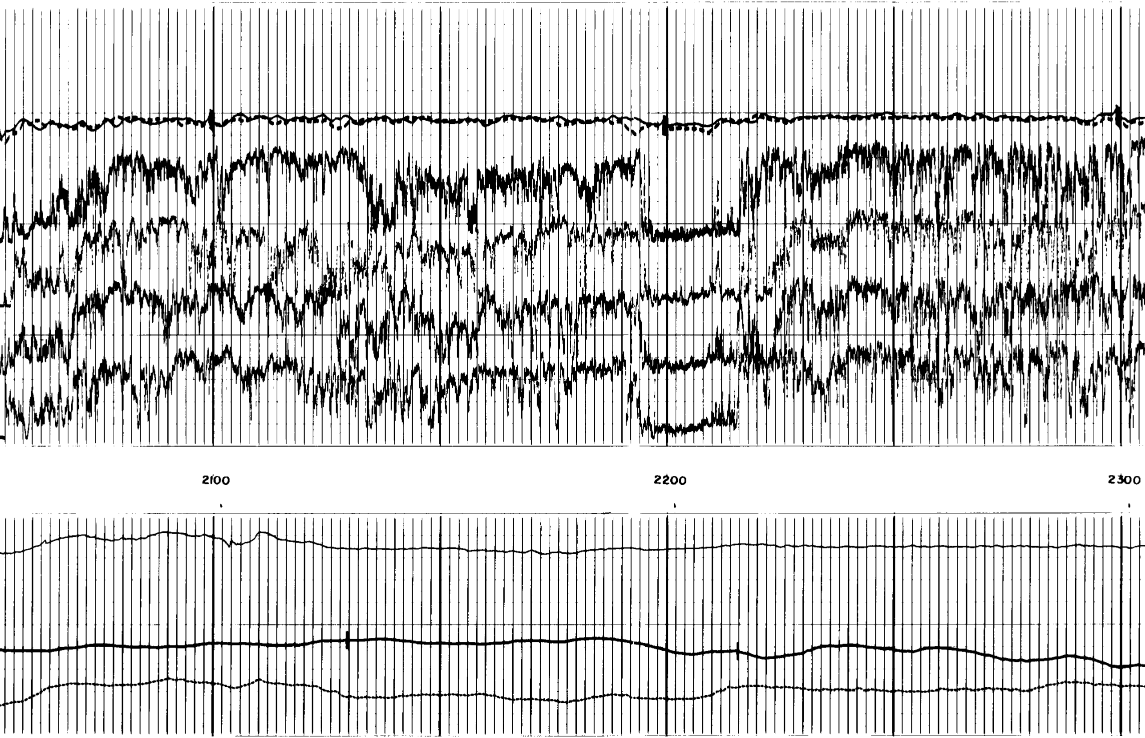


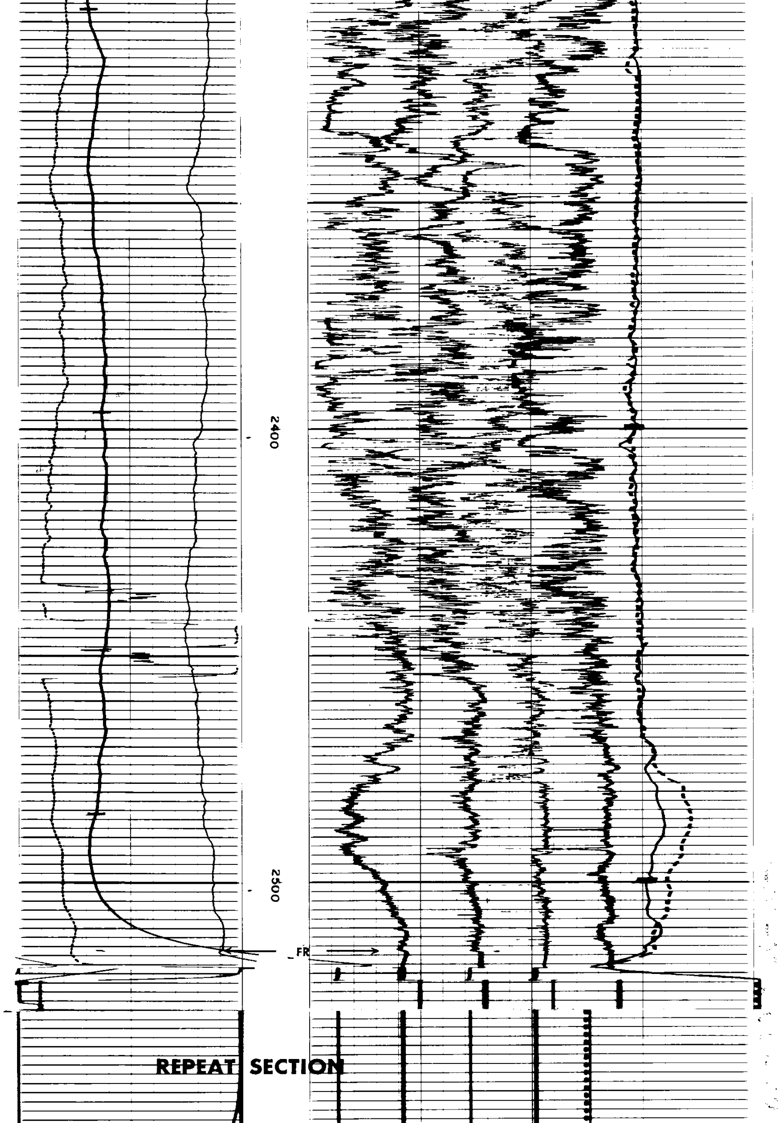


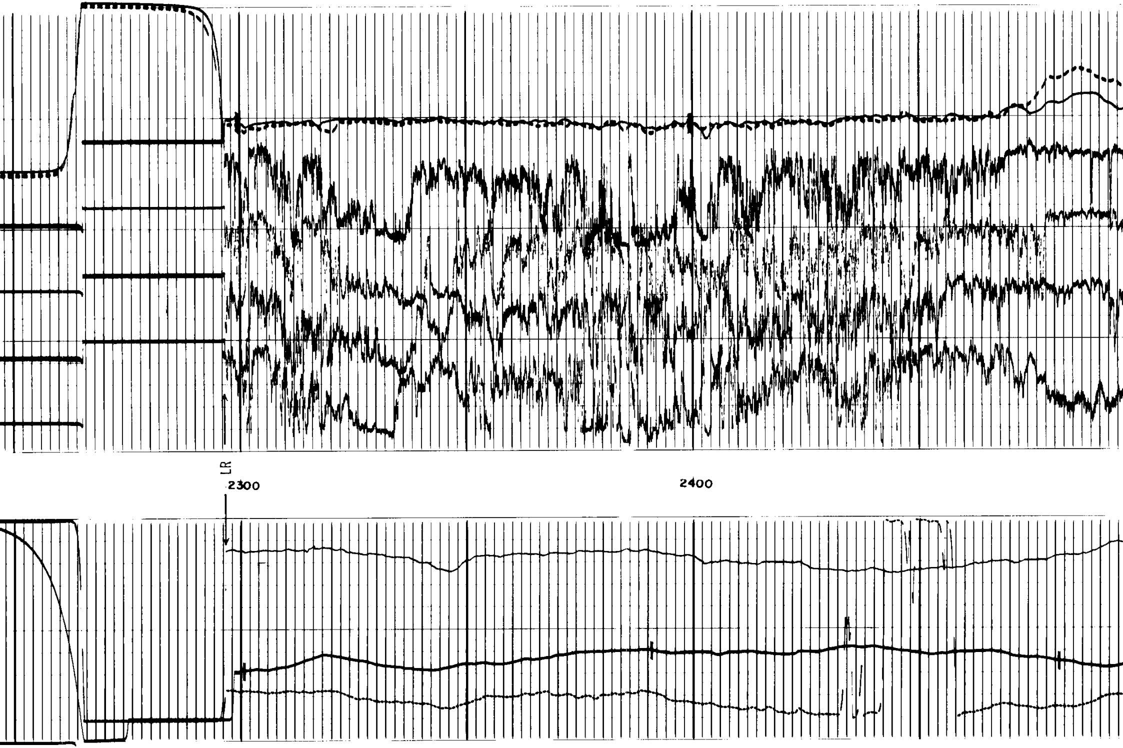


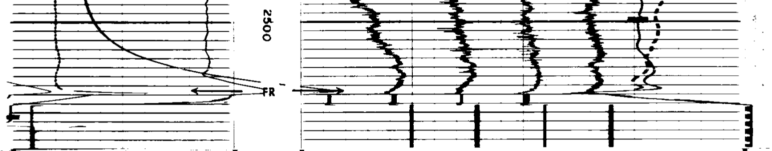












AZIMUTH

0° 120° 240° 360°

RELATIVE BEARING

0° 120° 240° 360°

DEVIATION

0°

S. O. NO. 1

S. O. NO. 2

S. O. NO. 3

S. O. NO. 4

4 ARM CALIPER
1 - 3 CALIPER

2 - 4 CALIPER

18" 16" 14" 12" 10" 8" 6"

NOTE:

DIGITAL DIPMETERS

END OF RECORD GAP IS ON DEVIATION CURVE.

LONG SPACING MARK IS ON CALIPER 2 - 4.

ORIENTATION

DEPTHS

CORRELATION CURVES

← CONDUCTIVITY