COUNTY LINN
FIELD CORVALIS
LOCATION 33-11S-4W
WELL M&P FARMS NO.33-24
COMPANY AMERICAN QUASAR

Schlumberger

FOUR - ARM HIGH RESOLUTION CONTINUOUS DIPMETER

COMPANY AMERICAN QUASAR PETROLEUM COMPANY
WELL M & P FARMS NO. 33-24
FIELD CORVALIS
COUNTY LINN STATE OREGON

MAR 20 1981

LOCATION			
1980'FWL & 660'FSL			
API SERIAL NO.	SEC.	TWP	RANGE
	33	11S	4W

Other Services:
DIL
BHC
FDC/CNL/GR

Elev.: K.B. 231.0
D.F. --
G.L. 220.5

Permanent Datum: GL ; Elev.: 220.5
Log Measured From KB 10.5 Ft. Above Perm. Datum
Drilling Measured From KB

Date	3-4-81			
Run No.	ONE			
Depth—Driller	4275			
Depth—Logger (Schl.)	4265			
Btm. Log Interval	4265			
Top Log Interval	520			
Casing—Driller	7" @ 515	@	@	@
Casing—Logger	520			
Bit Size	6¼"			
Type Fluid in Hole	GEL-LIGNITE			
Dens. | Visc.	76 | 49	|	|	|
pH | Fluid Loss	9.5 | 4.9 ml	| ml	| ml	| ml
Source of Sample	CIRCULATION			
Rm @ Meas. Temp.	0.85 @ 62 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	0.98 @ 47 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	1.75 @ 47 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | M	|	|	|
Rm @ BHT	0.53 @ 101°F	@ °F	@ °F	@ °F
TIME Circulation Stopped	2100			
TIME Logger on Bottom	1130 3/5			
Max. Rec. Temp.	101 °F	°F	°F	°F
Equip. | Location	8128 | SAC	|	|	|
Recorded By	FINNELL			
Witnessed By	MANN			

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

REMARKS: Service Order No. 205745 Magnetic Declination 20° E

Run No.		1		2		3		4	
Tool Type		HDT-D							
HDP		962							
DDR -	TTR	-							
DPI -		-							
HDM -		-							
HDE -		-							
HDS		1949							
Adapter Head		-							
UG | CG	SAH								
5" Film | 10" Film	60" Record	X							
Analog	Digital		X						
TIME Circulation Stopped		2100							
TIME Schl. on Bottom		1130							

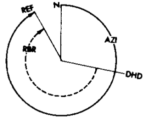
ROLL NO.	INTERVAL

TOOL AZIMUTH AND HOLE DIRECTION CALCULATION

(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.

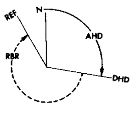
DEFINITIONS

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

ORIENTATION	DEPTHS	CORRELATION CURVES ←CONDUCTIVITY

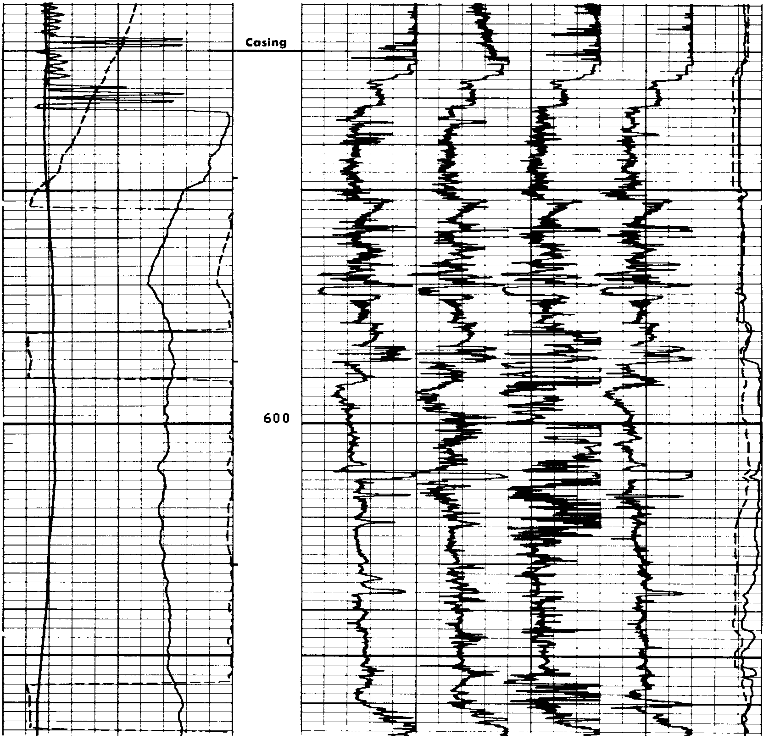
PARAMETERS

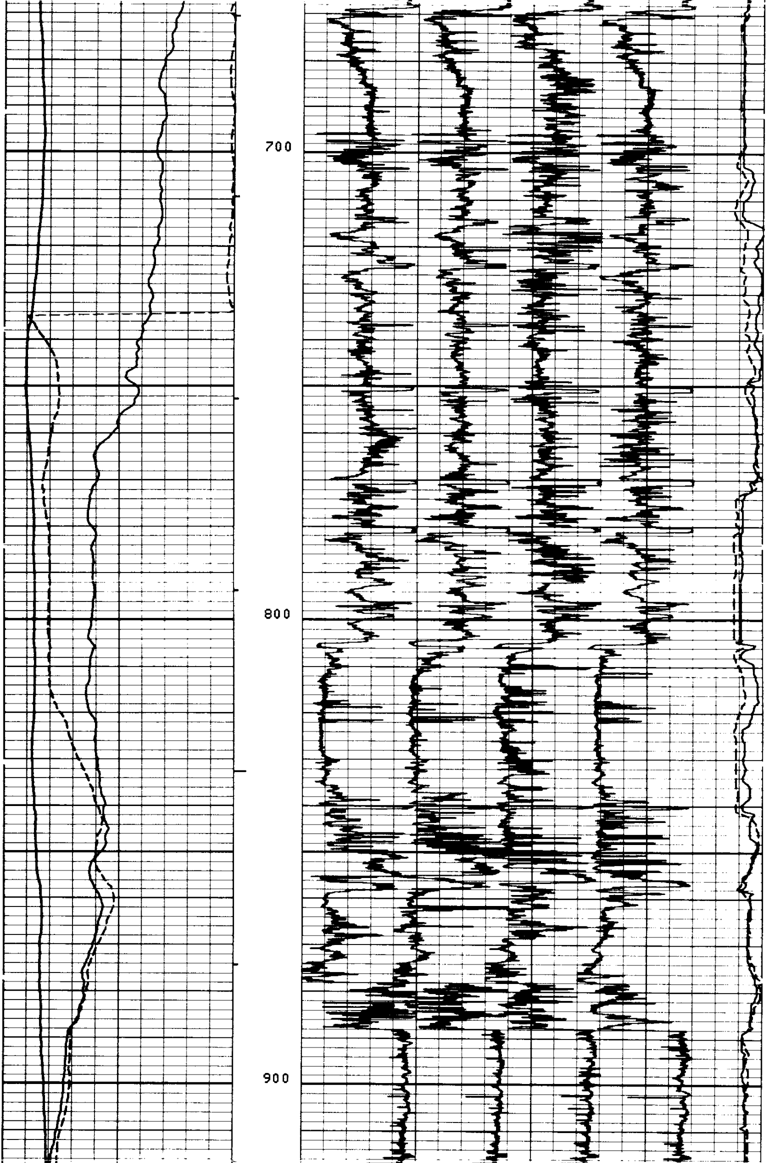
NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
STYP		STAN	MCT	DEG	36	BS	INCH	6.250
DO		0.0	BHS		OPEN	FPHI		PHIX

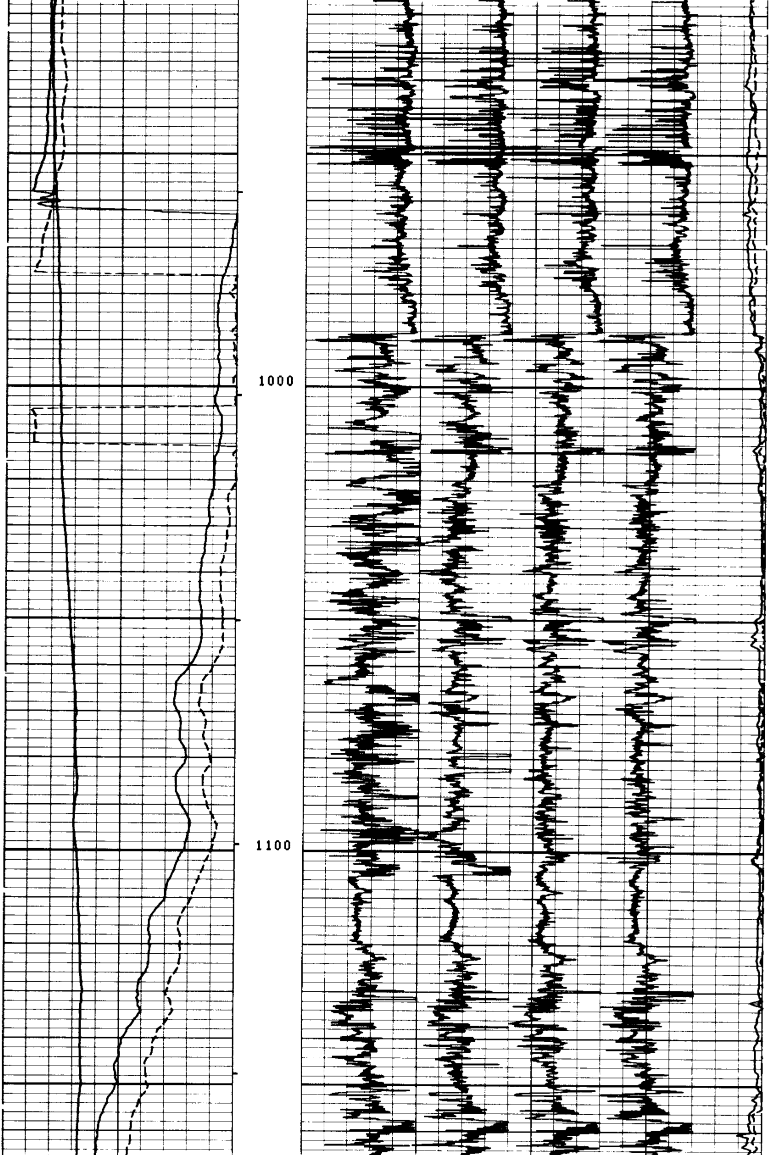
Curve	Left	Right
DEVI(DEG)	-1.000	9.000
RB (DEG)	-40.00	360.0
AZIM(DEG)	-40.00	360.0
C2 (INCH)	26.00	6.000
C1 (INCH)	26.00	6.000

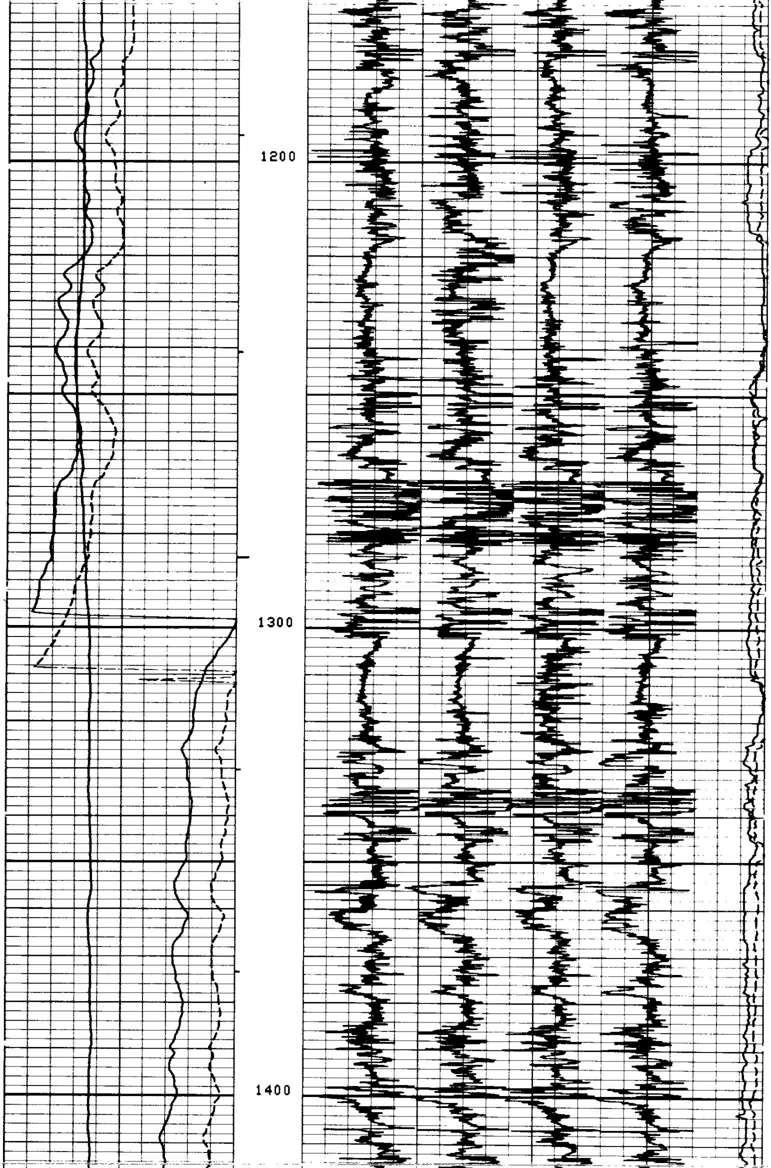
FILE

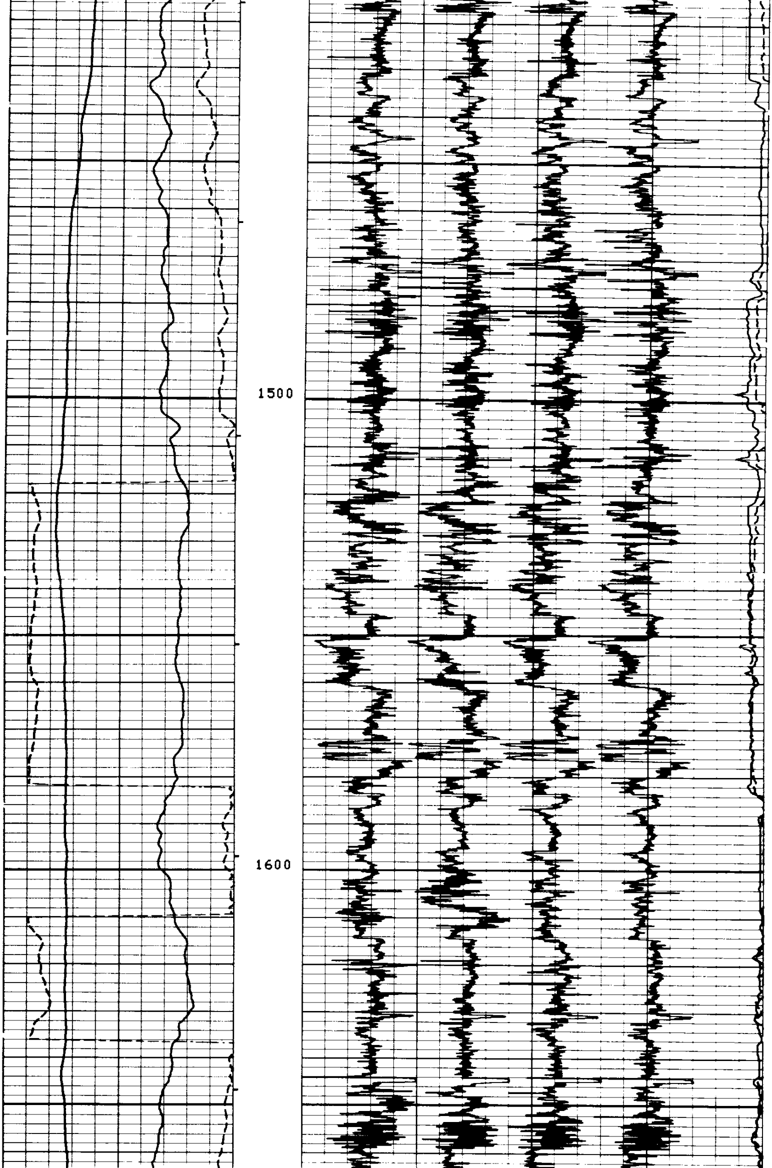
1

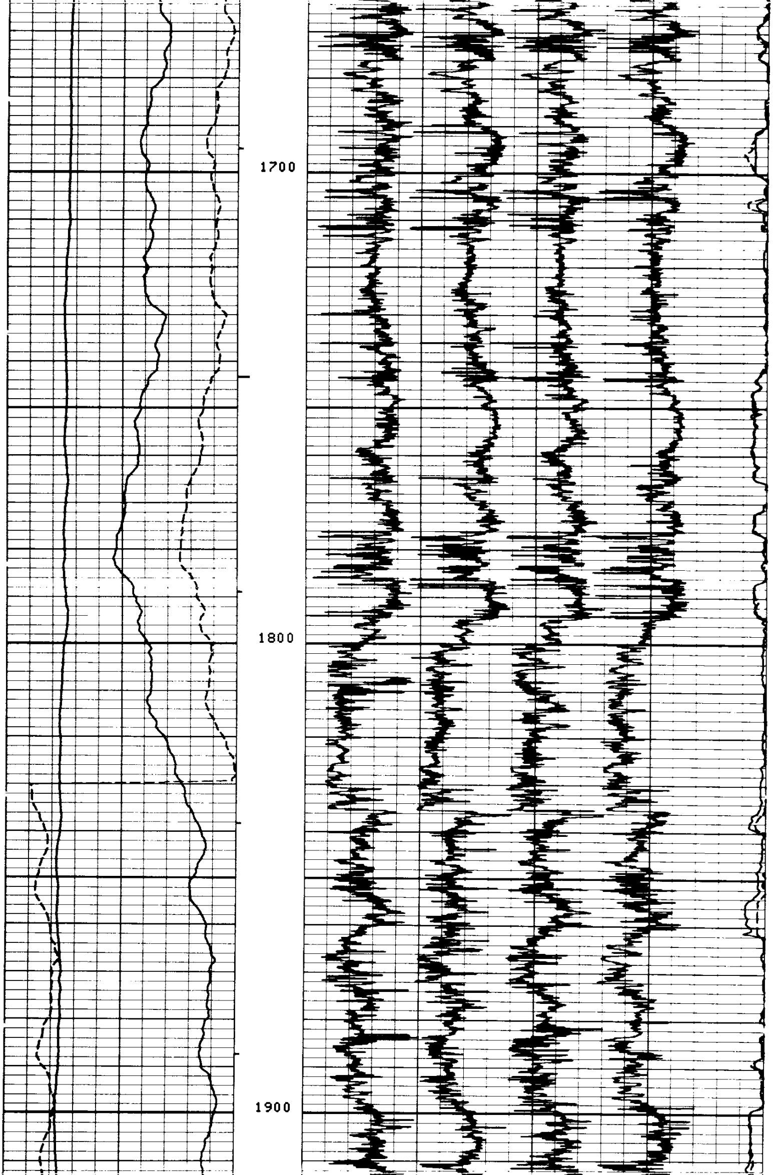


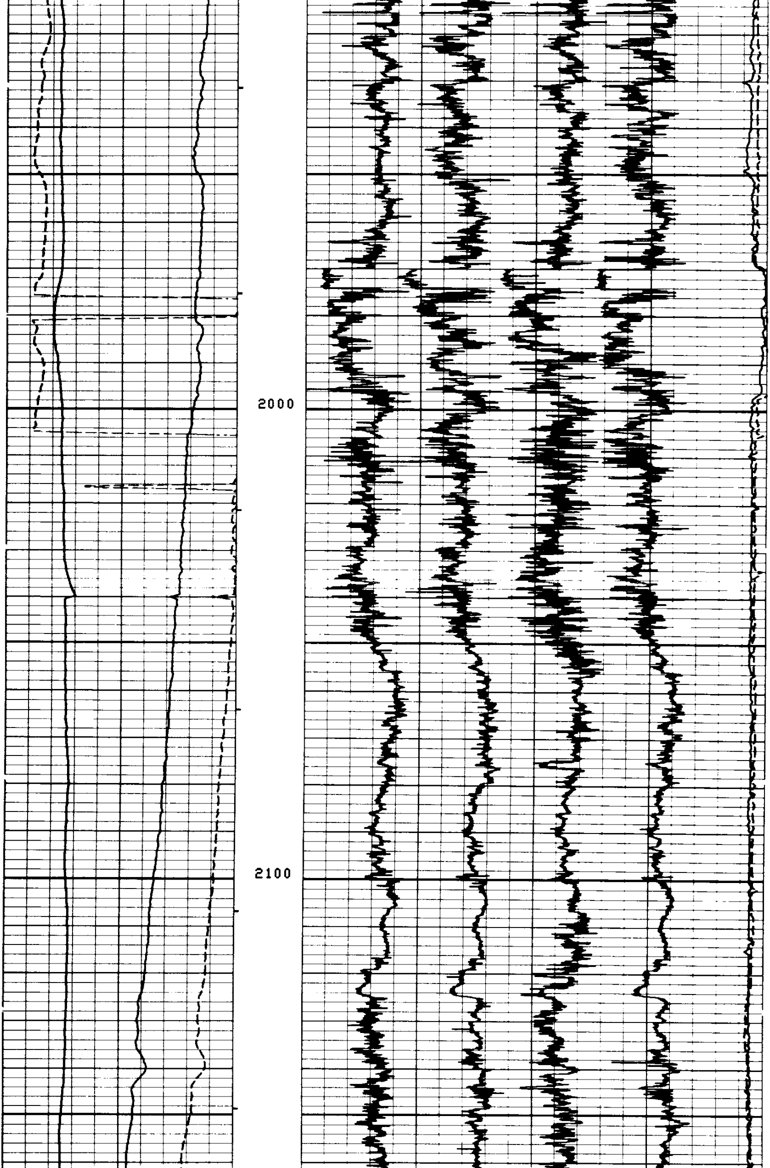


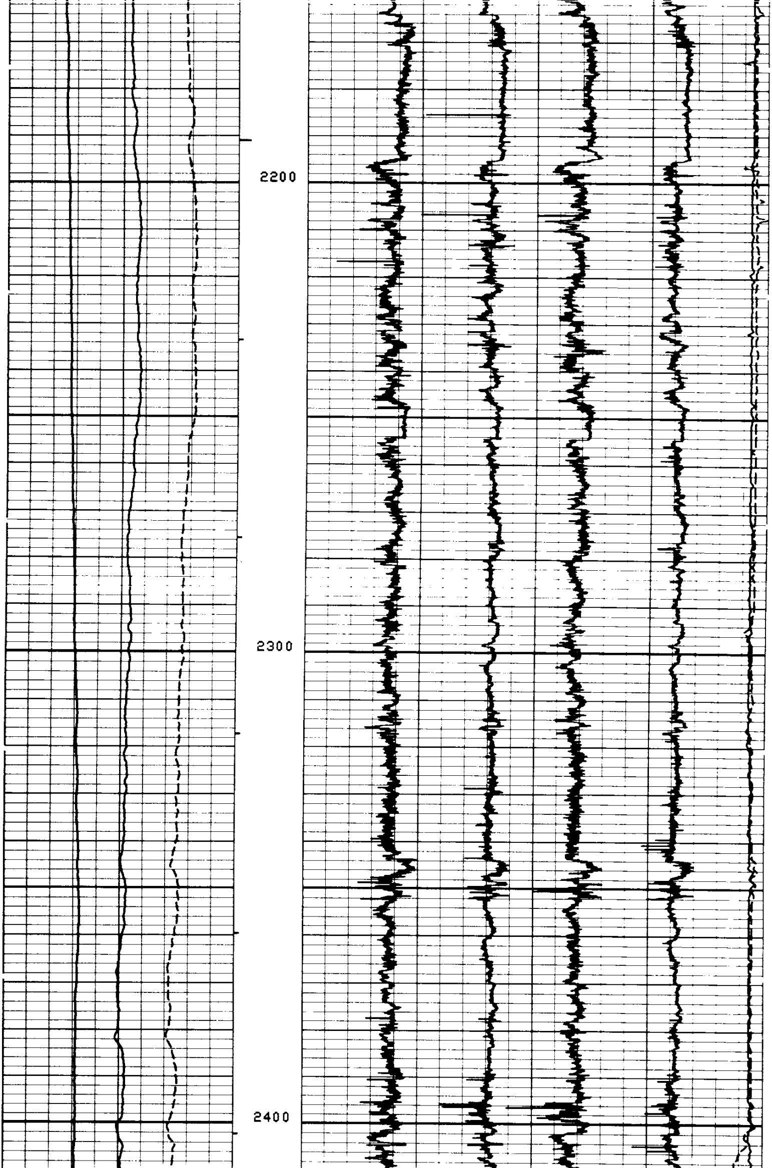


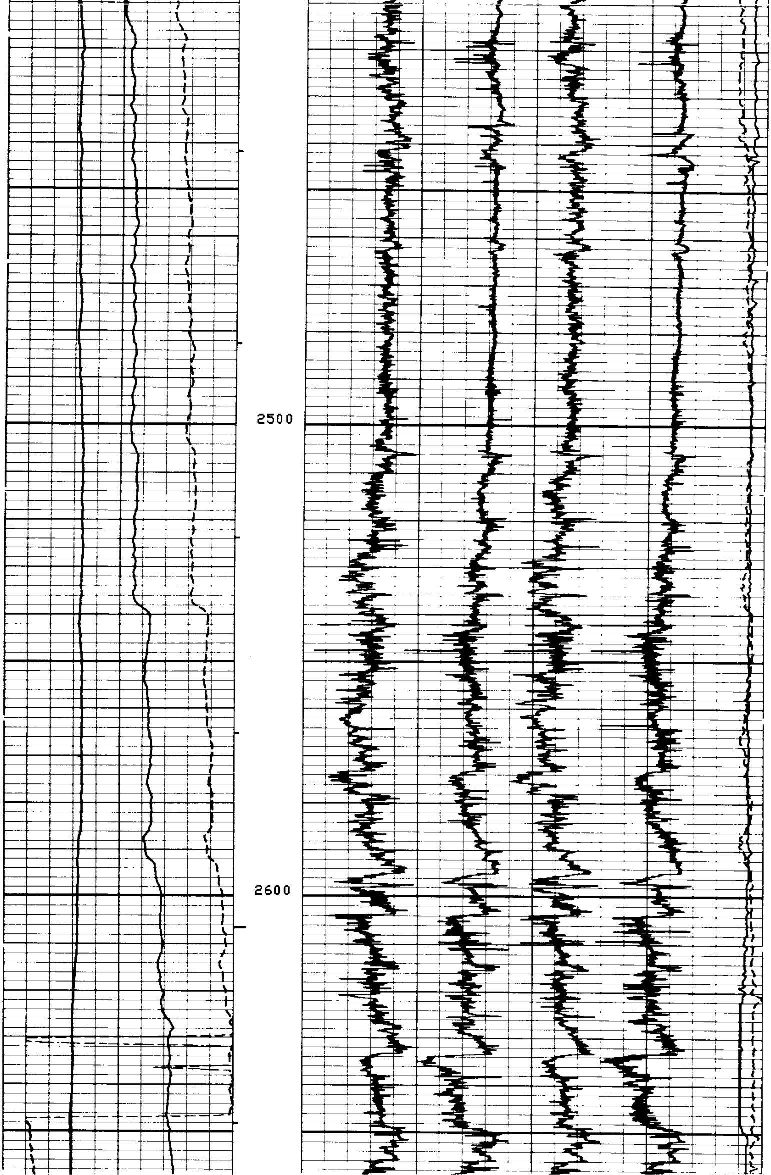


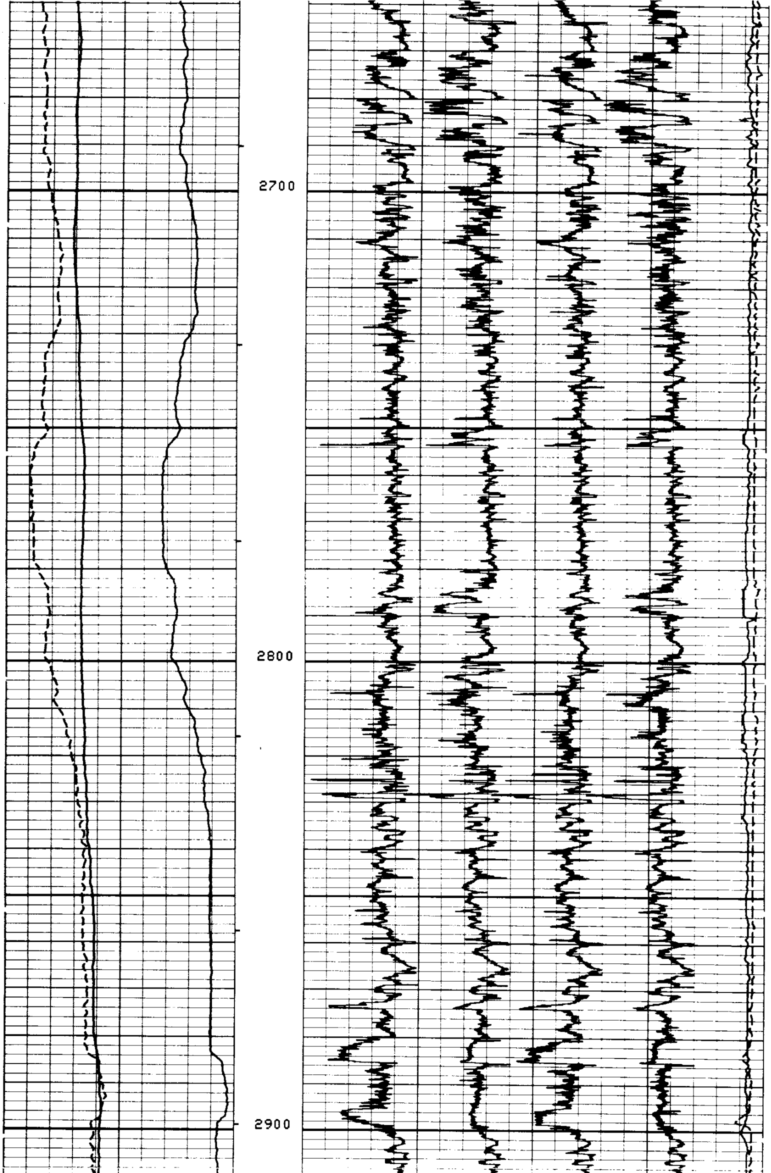


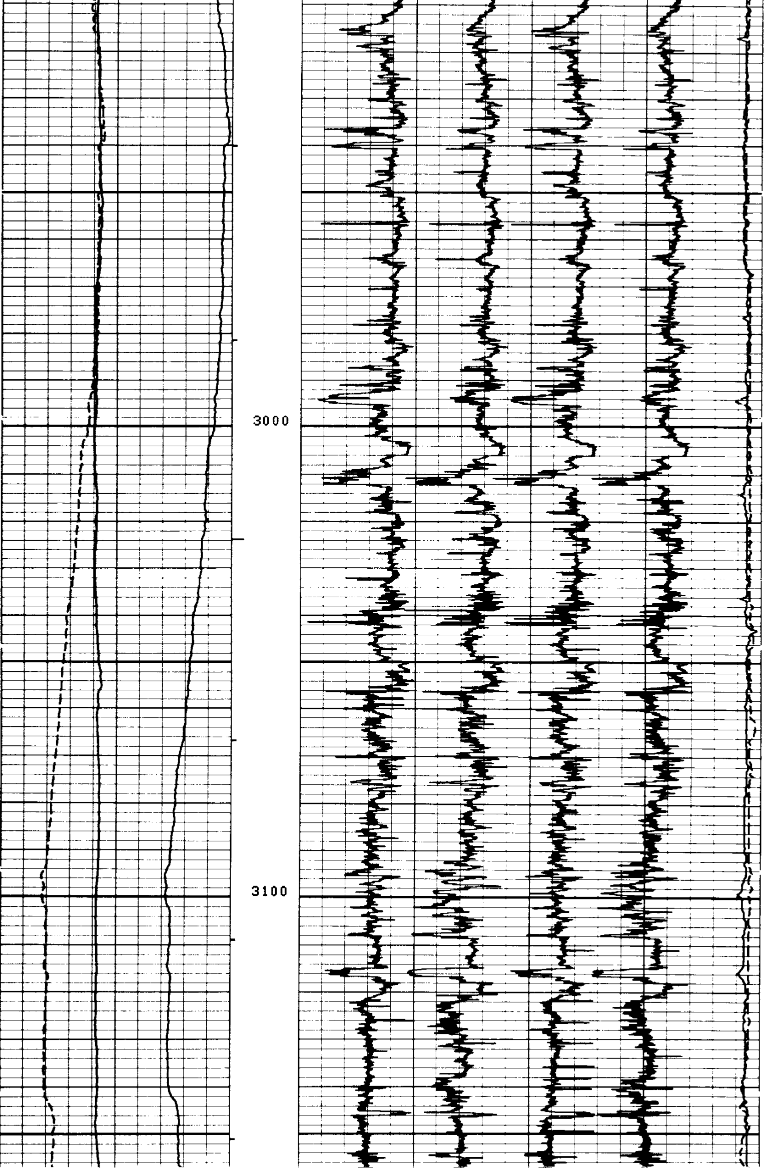


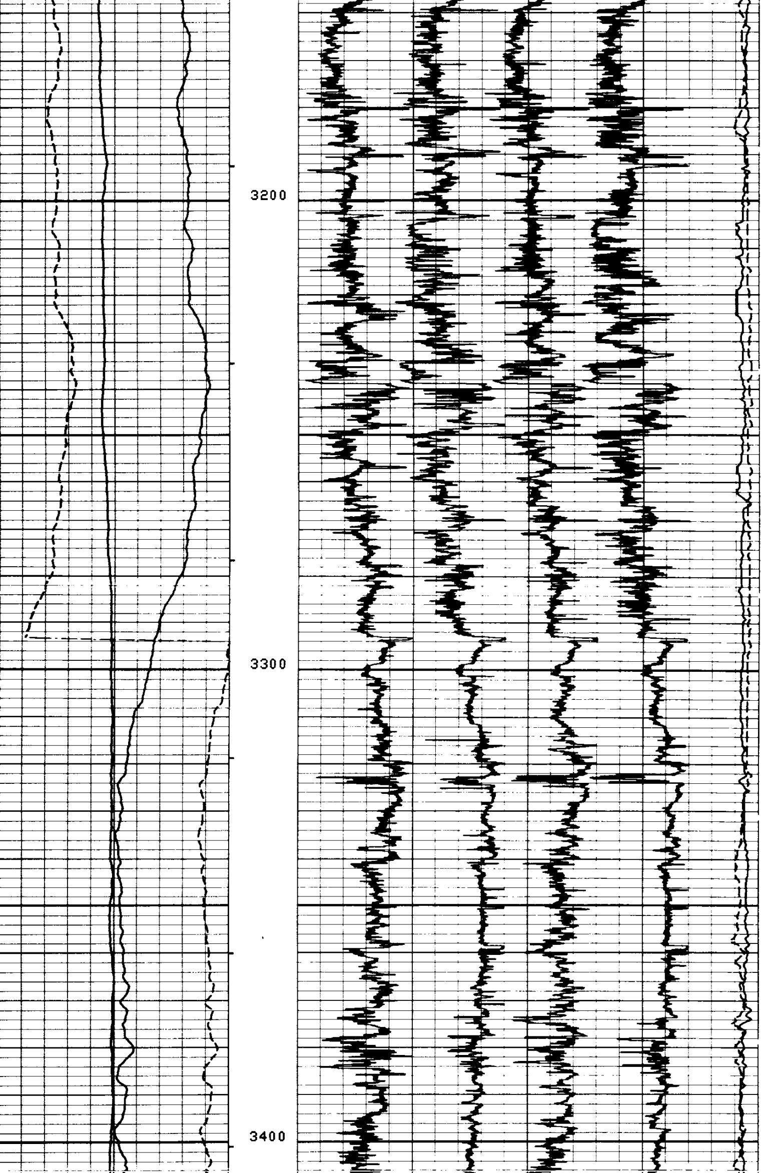


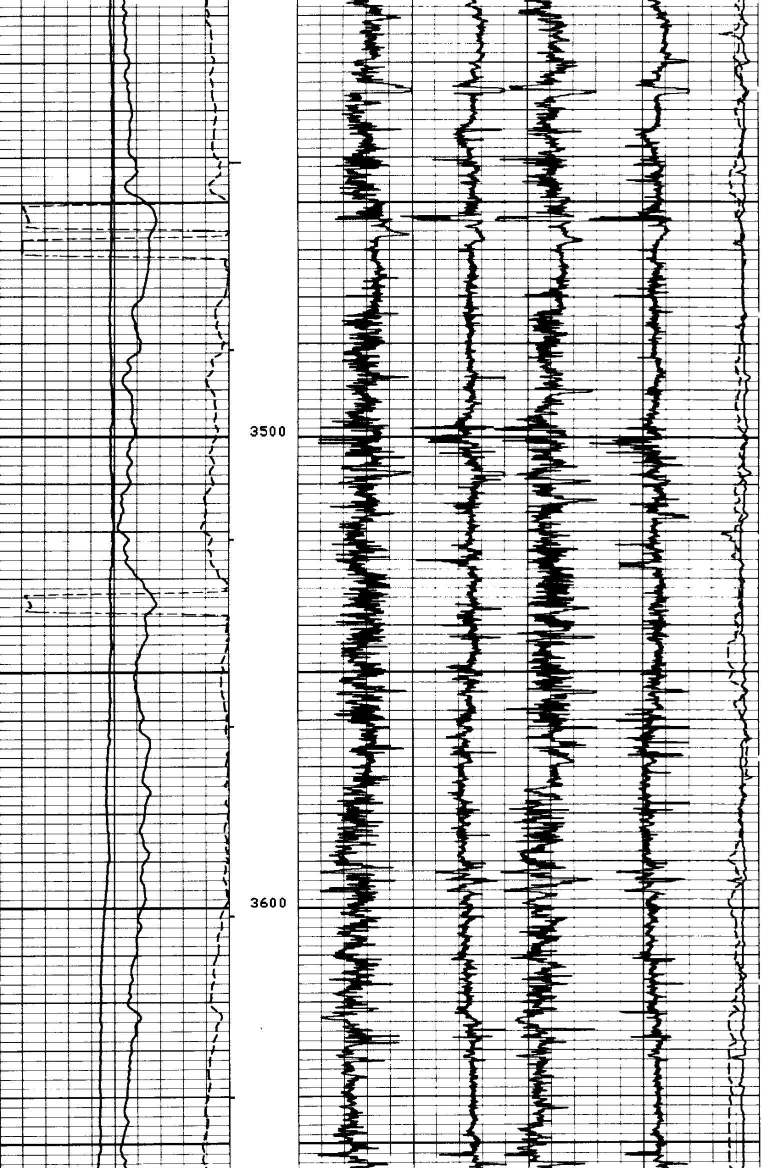


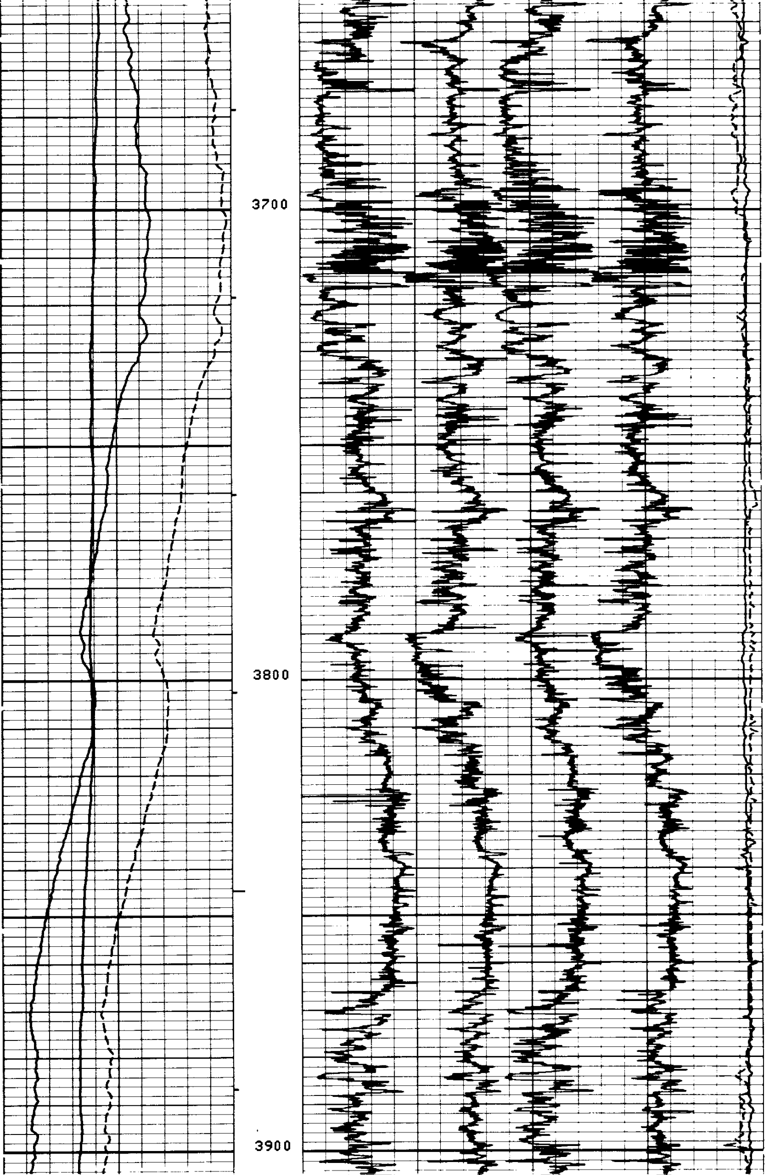


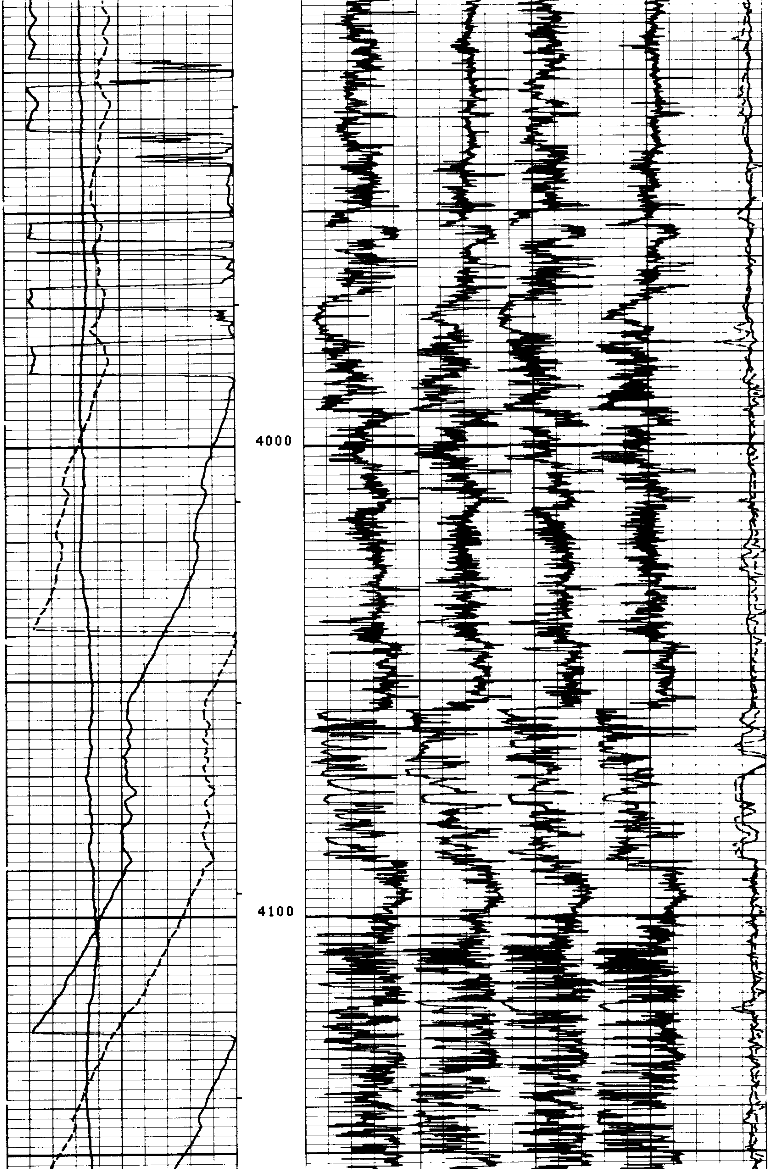


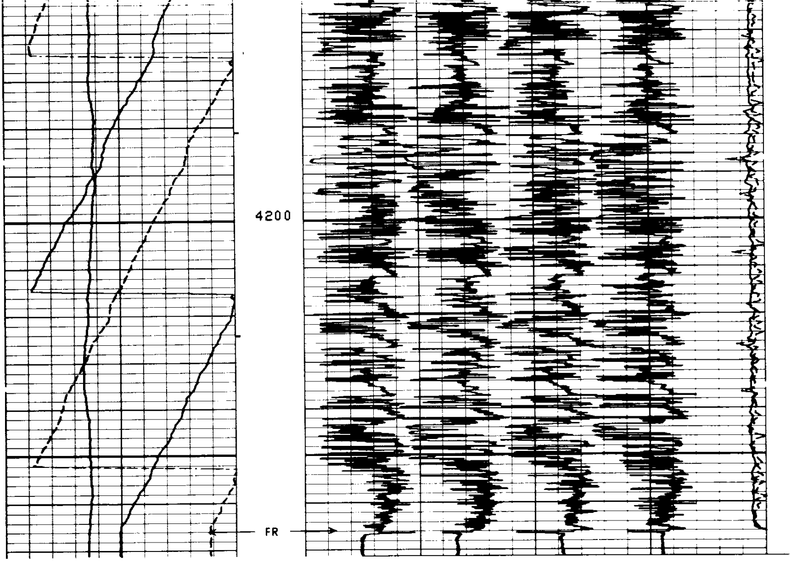












FILE

1

DEVI(DEG)		C2 (INCH)	
-1.000	9.000	26.00	6.000
RB (DEG)		C1 (INCH)	
-40.00	360.0	26.00	6.000
AZIM(DEG)			
-40.00	360.0		

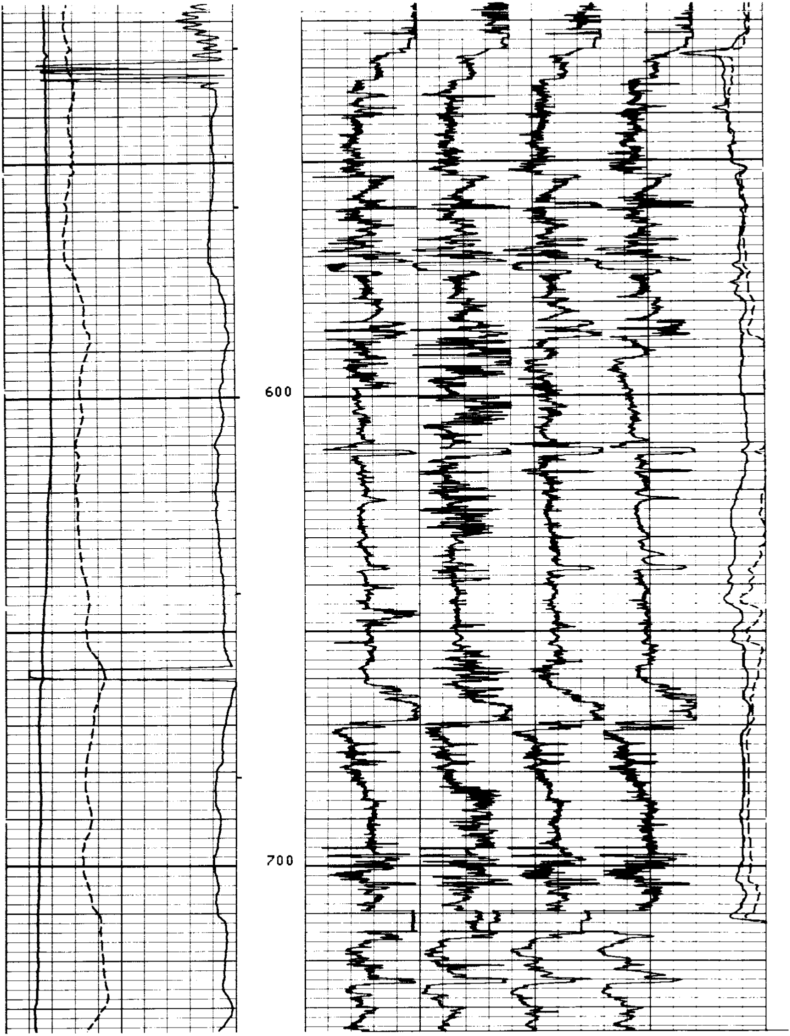
PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
STYP		STAN	MCT	DEG	36	BS	INCH	6.250
DO		0.0	BHS		OPEN	FPHI		PHIX

DEVI(DEG)		C2 (INCH)	
-1.000	9.000	26.00	6.000
RB (DEG)		C1 (INCH)	
-40.00	360.0	26.00	6.000
AZIM(DEG)			
-40.00	360.0		

FILE REPEAT

2



FILE

2

DEVI(DEG)
-1.000 9.000
RB (DEG)
-40.00 360.0
AZIM(DEG)
-40.00 360.0

C2 (INCH)
26.00 6.000
C1 (INCH)
26.00 6.000

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
STYP		STAN	MCT	DEG	36	BS	INCH	6.250
DO		0.0	BHS		OPEN	FPHI		PHIX

PARAMETERS

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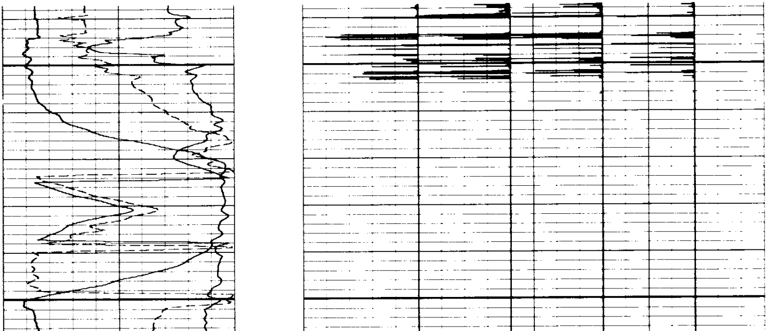
-1.000 9.000
RB (DEG)
-40.00 360.0
AZIM(DEG)
-40.00 360.0

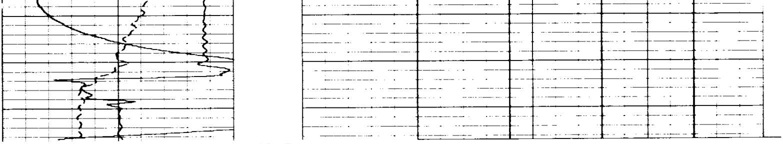
C2 (INCH)
26.00 6.000
C1 (INCH)
26.00 6.000

FILE

1

CALIBRATION RECORD





FILE

1

DEVI(DEG)		C2 (INCH)	
-1.000	9.000		
RB (DEG)			
-40.00	360.0	26.00	6.000
AZIM(DEG)		C1 (INCH)	
-40.00	360.0	26.00	6.000

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
STYP		STAN	MCT	DEG	36	BS	INCH	6.250
DO		0.0	BHS		OPEN	FPHI		PHIX

BEFORE SURVEY CALIBRATION SUMMARY

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PERFORMED:      81/03/05
PROGRAM FILE: HDT     (VERSION     18.2     80/ 4/29)
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HDT CALIBRATION SUMMARY

HDT CALIPER CALIBRATION SUMMARY

	MEASURED		CALIBRATED		UNITS
	SMALL	LARGE	SMALL	LARGE	
C1	8.6	13.2	8.0	12.0	IN
C2	8.5	13.3	8.0	12.0	IN

FILE

1

ORIENTATION	DEPTHS	CORRELATION CURVES ←CONDUCTIVITY

COMPANY AMERICAN QUASAR PETROLEUM COMPANY

WELL M & P FARMS NO. 33-24

FIELD CORVALIS

COUNTY LINN STATE OREGON

HIGH RESOLUTION DIPMETER CALIBRATION CODING

1. MECHANICAL ZERO
2. ELECTRICAL ZERO
3. FULL SCALE ADJUST
4. CALIPER ADJUST AT 6" AND 16" CALIPER 1-3 IS CODED
5. CALIPER ADJUST AT 6" AND 16" CALIPER 2-4 IS SOLID
6. PAD #1 RESPONSE CHECK
7. PAD #2 RESPONSE CHECK
8. PAD #3 RESPONSE CHECK
9. PAD #4 RESPONSE CHECK
10. SONDE HANGING VERTICALLY
11. TOOL AND PAD #1 POINTED NORTH
12. TOOL ROTATING