Schlumberger

FOUR—ARM HIGH RESOLUTION CONTINUOUS DIPMETER

COMPANY	AMERICAN QUASAR PETROLEUM COMPANY
WELL	CROWN ZELLERBACH NO. 30-33
FIELD	MIST NEHALEM BASIN
COUNTY	COLUMBIA
STATE	OREGON

COUNTY	COLUMBIA
FIELD	MIST NEHALEM BASIN
LOCATION	30-6N-4W
WELL	CROWN ZELLERBACH NO. 30-33
COMPANY	AMERICAN QUASAR

LOCATION: 1493' NORTH & 2179' WEST OF THE SOUTHEAST CORNER OF:

Other Services: DIL BHC

API SERIAL NO	SEC.	TWP	RANGE
	30	6N	4W

Permanent Datum: GL ; Elev.: 832.4

Log Measured From KB 10.5 Ft. Above Perm. Datum

Drilling Measured From KB

Elev.: K.B. 842.9

D.F. --

G.L. 832.4

RECEIVED-PTLD
NOV 19 1980
DEPT OF GEOLOGY & MIN[illegible]

Date	10-26-80			
Run No.	ONE			
Depth—Driller	2350			
Depth—Logger (Schl.)	2350			
Btm. Log Interval	2350			
Top Log Interval	525			
Casing—Driller	7" @ [illegible]	@	@	@
Casing—Logger	525			
Bit Size	6[illegible]"			
Type Fluid in Hole	LIGNOSULFONATE			
Dens. | Visc.	68 | 41			
pH | Fluid Loss	10.5 | 5.5 ml	ml	ml	ml
Source of Sample	CIRCULATION			
Rm @ Meas. Temp.	3.41 @ 54 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	2.23 @ 41 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	2.53 @ 41 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | M			
Rm @ BHT	2.25 @ 82 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	2300 10/25			
TIME Logger on Bottom	0300			
Max. Rec. Temp.	82 °F	°F	°F	°F
Equip. | Location	8126 | SAC			
Recorded By	ANDERSEN/STEFANI			
Witnessed By Mr.	GREGG			

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

REMARKS: Service Order No. 123841 Magnetic Declination 21°E

Run No.	1	2	3	4
Tool Type	STD			
HDP	752			
DDR | TTR	-			
DPI	-			
HDM	-			
HDE	-			
HDS	-			
Adapter Head	-			
UG | CG | SAH	-			
5" Film | 10" Film | 60" Record	X			
Analog | Digital	X (Digital)			
TIME Circulation Stopped	2300			
TIME Schl. on Bottom	0300			

ROLL NO.	INTERVAL

TOOL AZIMUTH AND HOLE DIRECTION CALCULATION

DEFINITIONS

(DHD) HIGH SIDE OF TOOL = Direction from center of tool to upper side of tool.

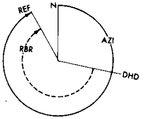
(N) NORTH = Direction from center of tool to Magnetic North.

(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 ☒

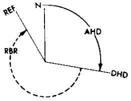
EXAMPLE

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.

ORIENTATION	DEPTHS	CORRELATION CURVES ←CONDUCTIVITY

PARAMETERS

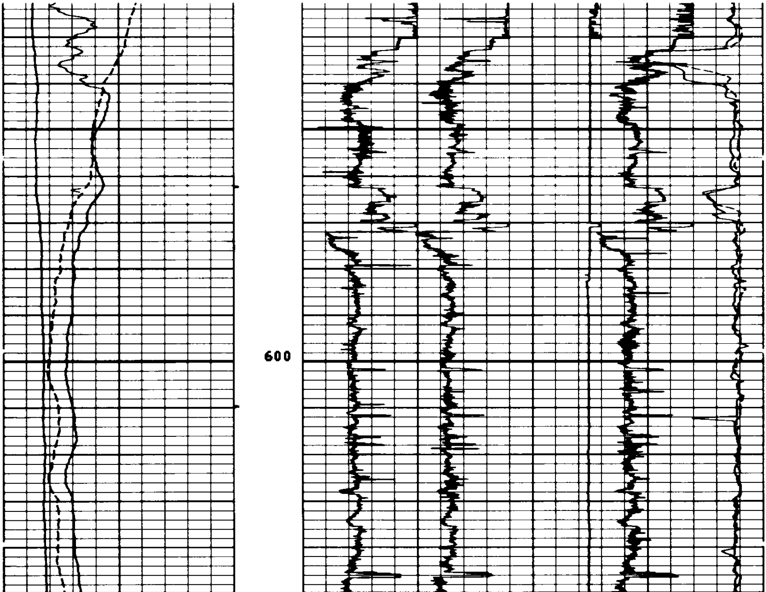
NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
STYP		STAN	MCT	DEG	36	BS	INCH	6.250
DO		0.0	BHS		OPEN	FPHI		PHIX

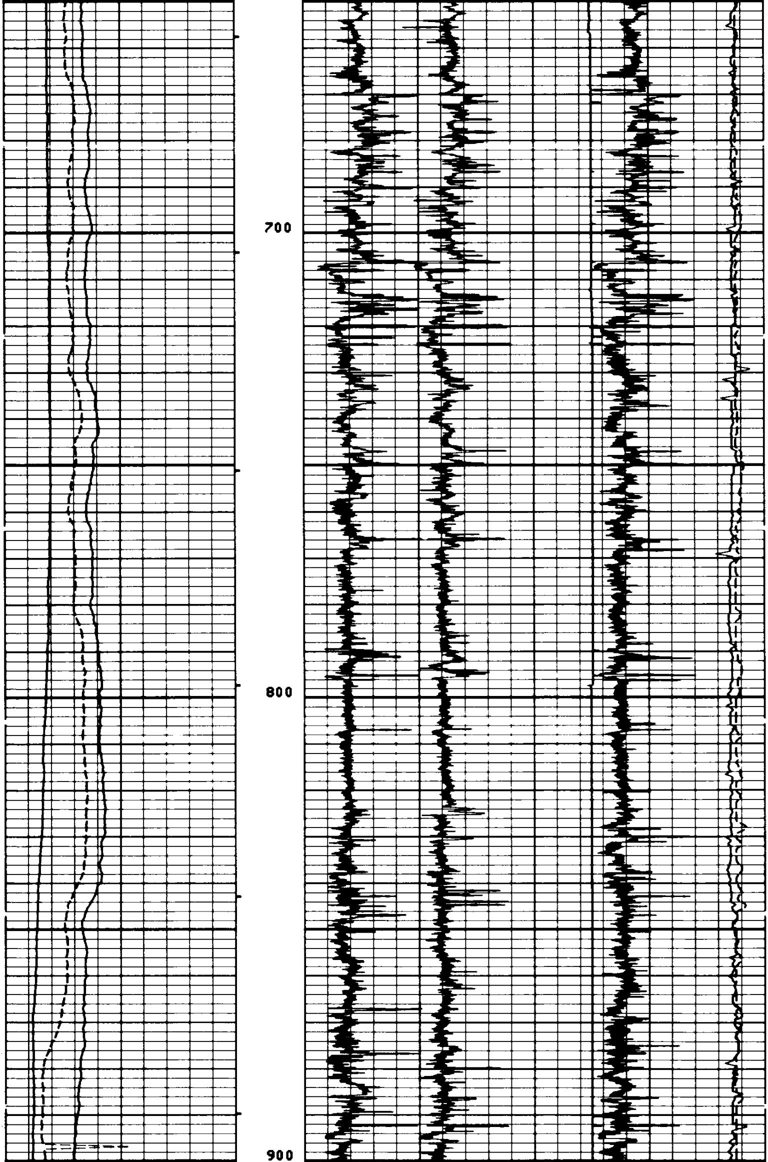
DEVI(DEG)
-1.000 9.000
RB (DEG)
-40.00 360.0
AZIM(DEG)
-40.00 360.0

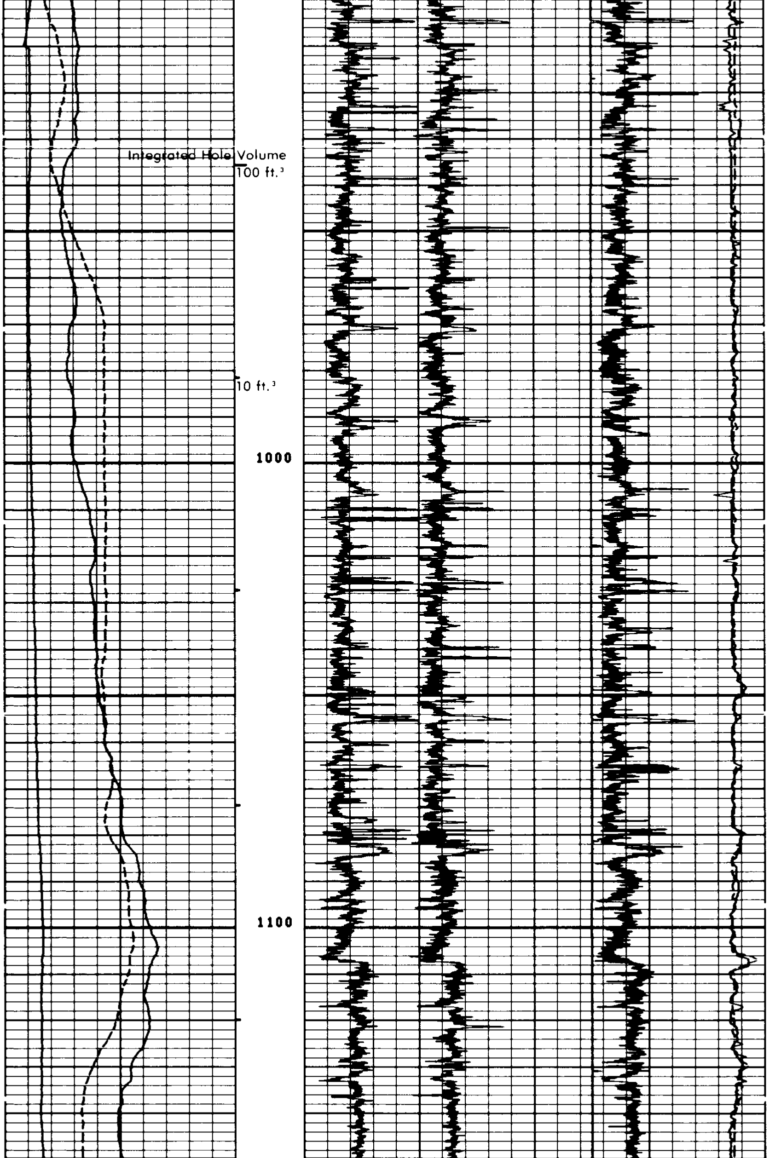
C2 (INCH)
25.00 5.000
C1 (INCH)
25.00 5.000

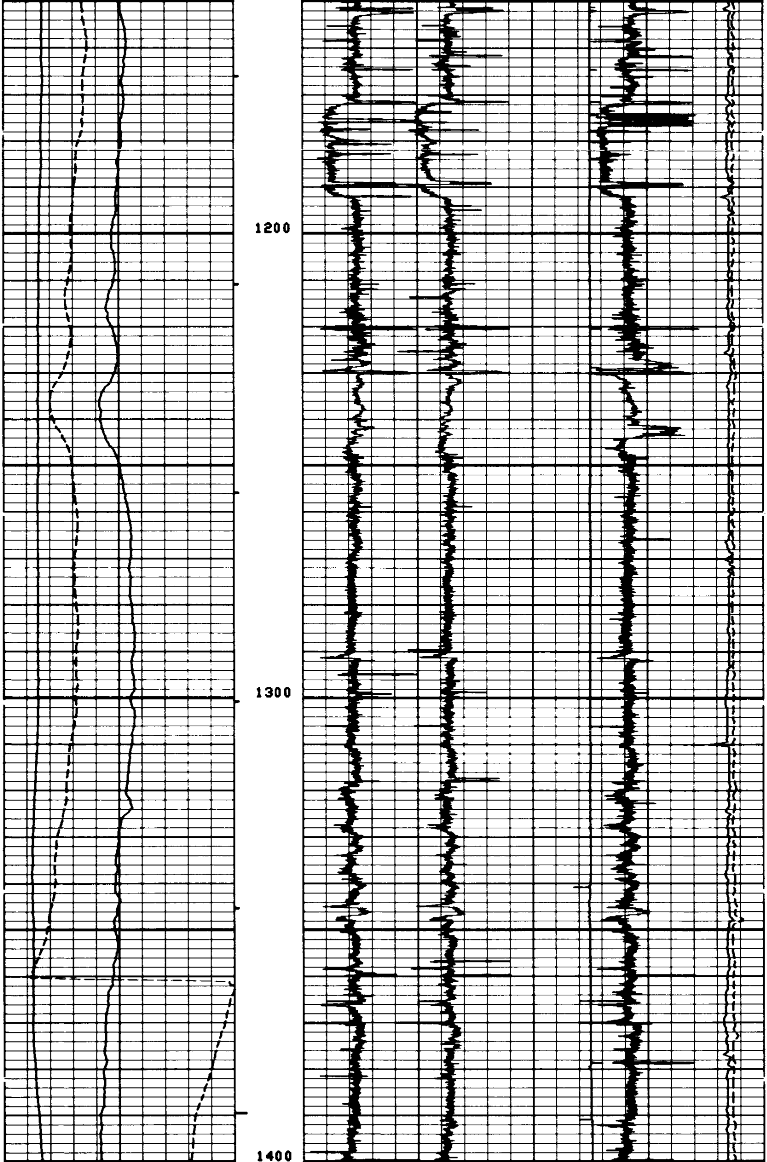
FILE

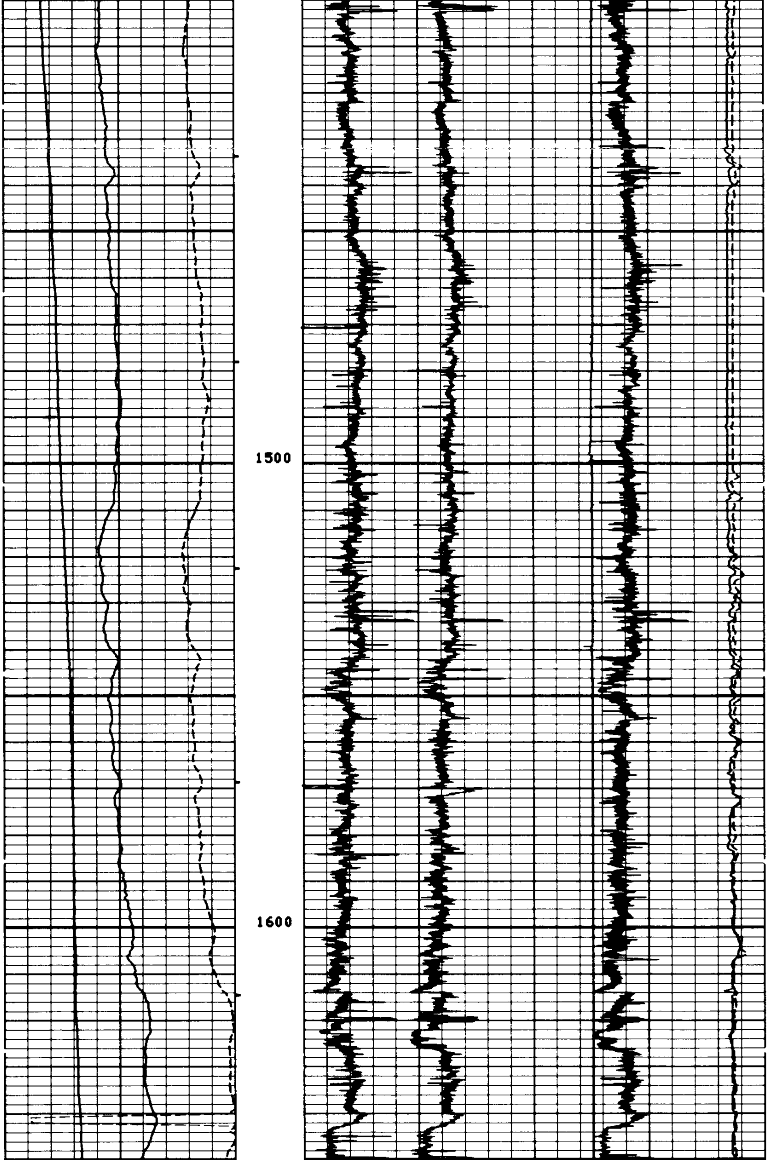
5

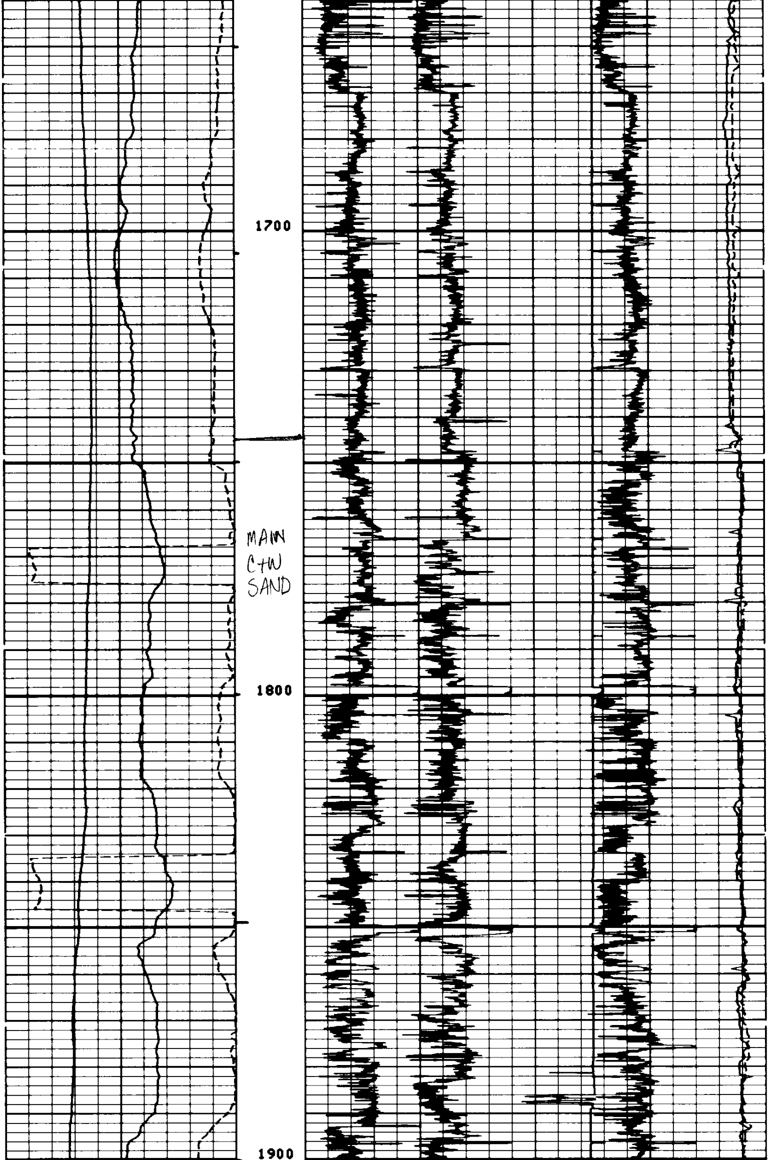


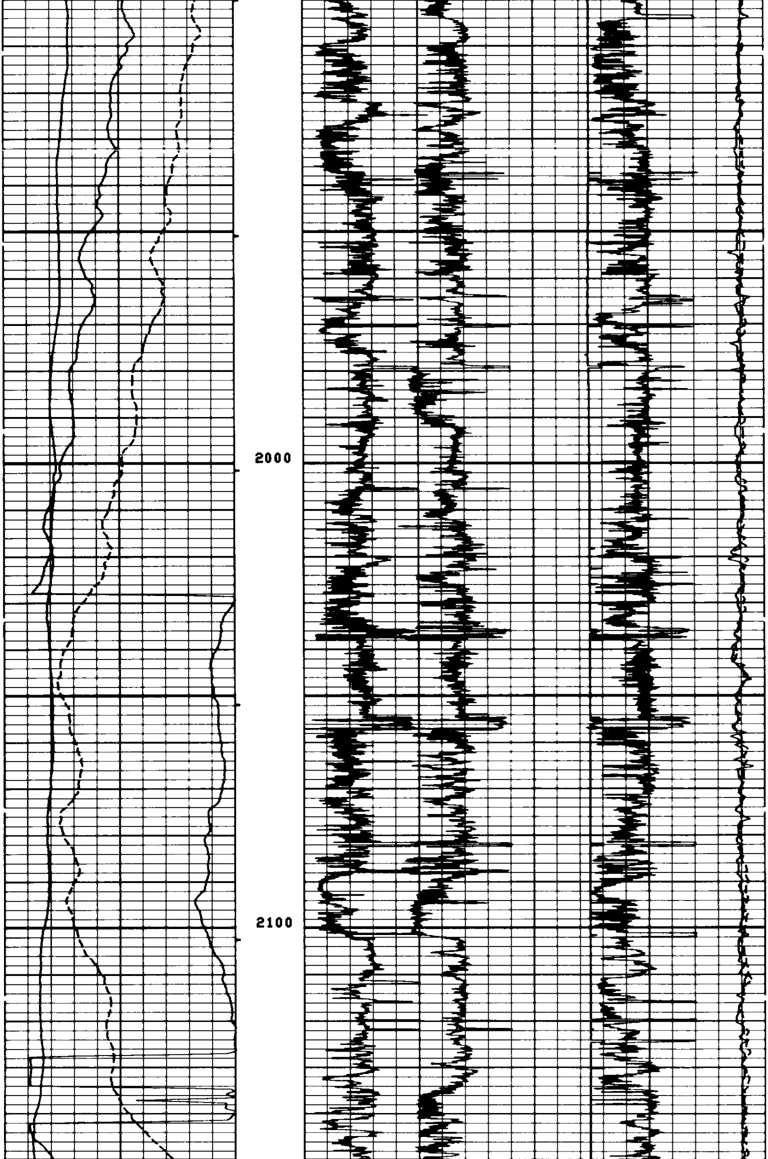


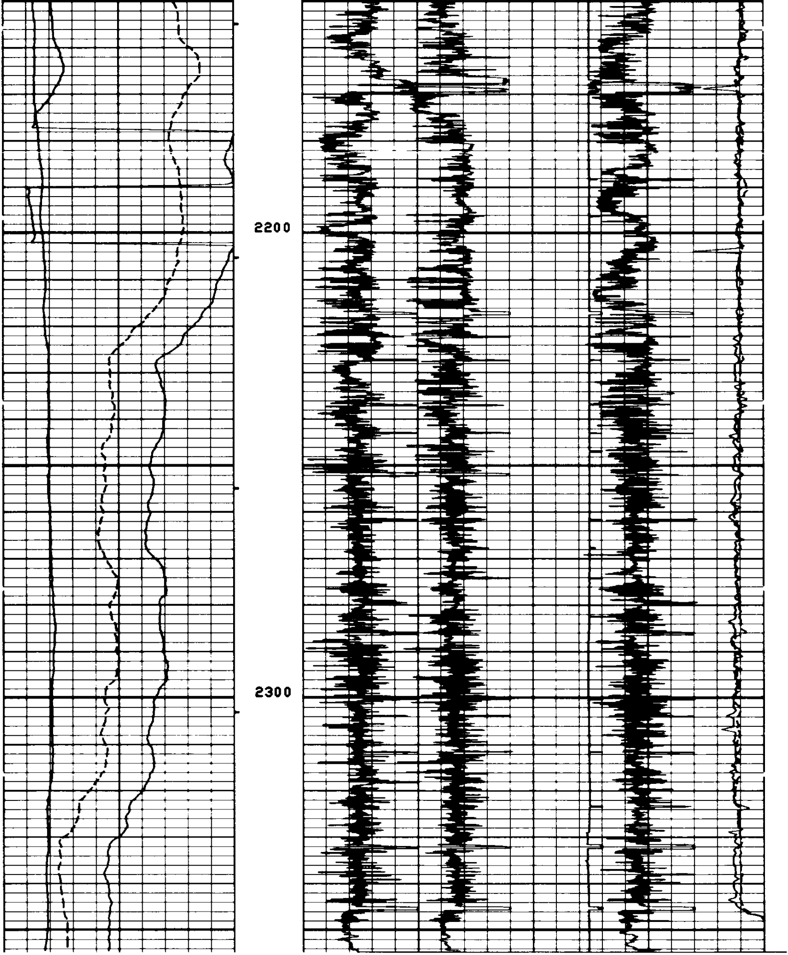












FILE

5

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

C2 (INCH)	
25.00	5.000
C1 (INCH)	
25.00	5.000

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

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

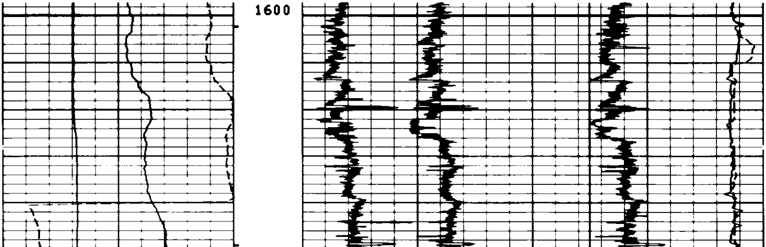
DEVI(DEG)	
-1.000	9.000
RB (DEG)	
-40.00	360.0
AZIM(DEG)	
-40.00	360.0

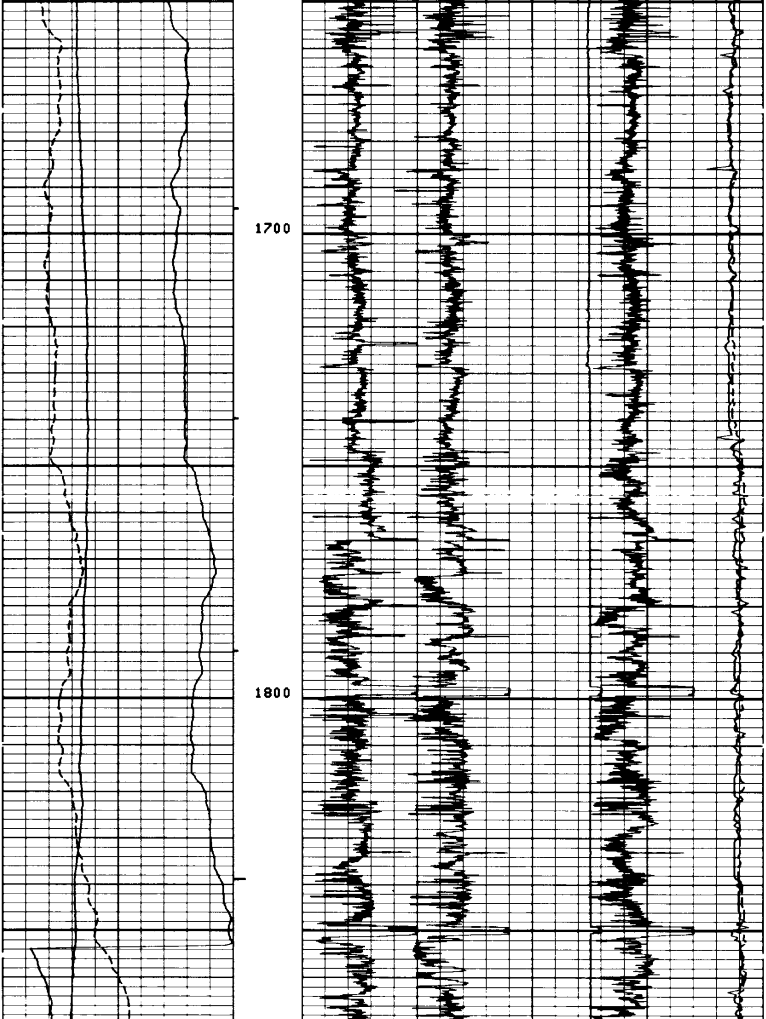
C2 (INCH)	
25.00	5.000
C1 (INCH)	
25.00	5.000

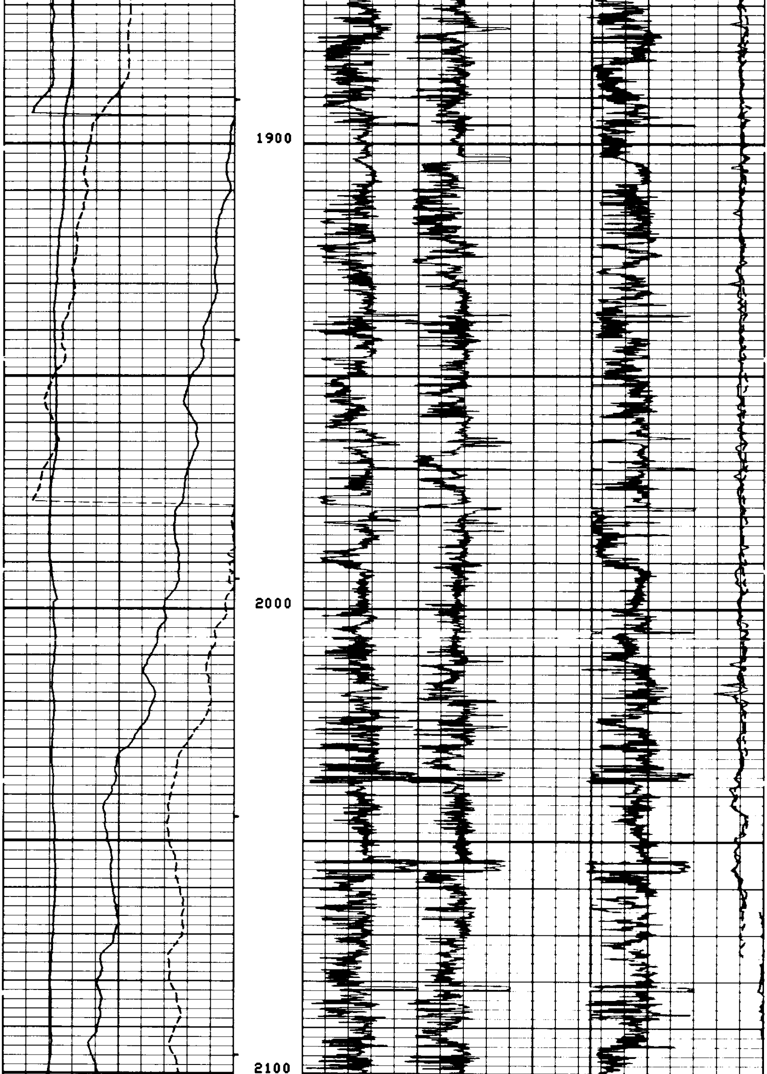
FILE

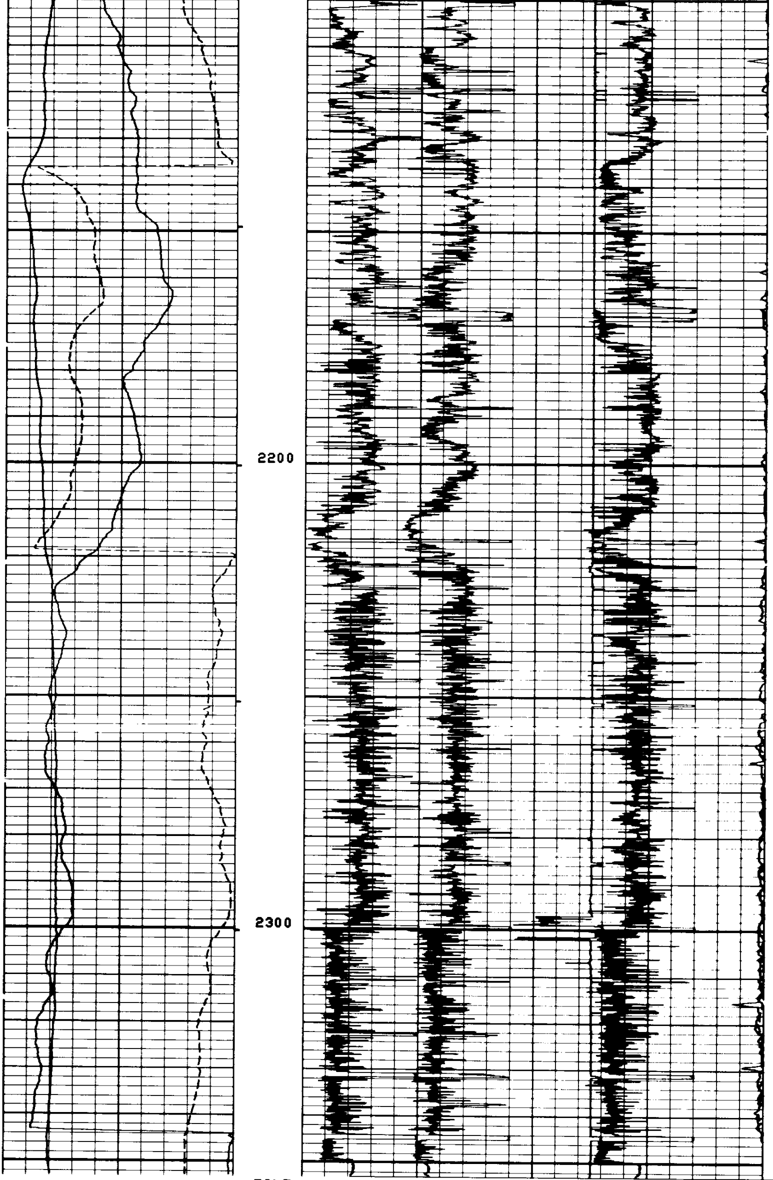
4

REPEAT SECTION









FILE

FILE

4

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

CALIBRATION RECORD

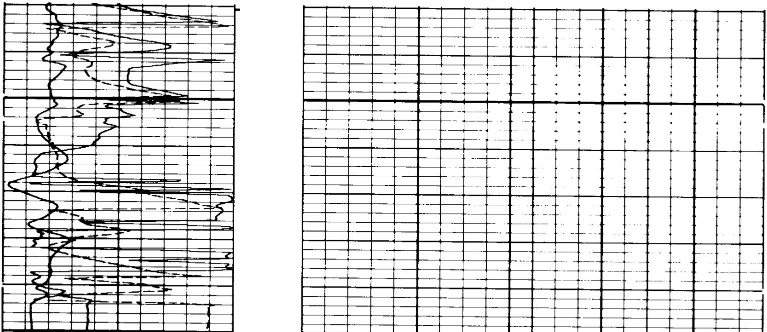
PARAMETERS

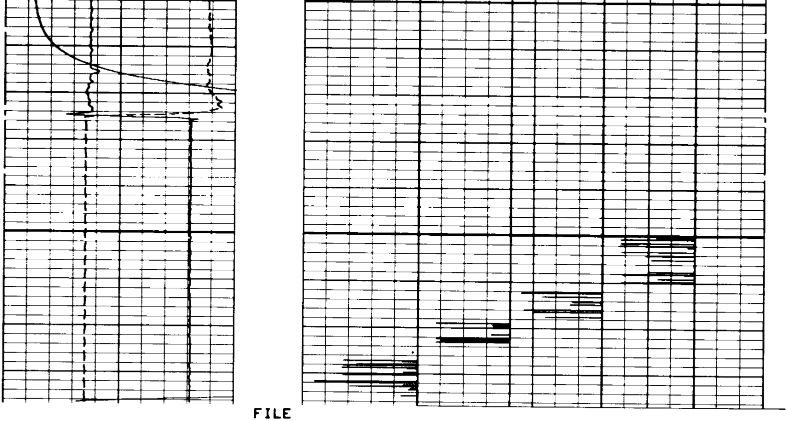
NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
STYP		STAN	MCT	DEG	36	BS	INCH	6.250
DO		0.0	BHS		OPEN	FPHI		PHIX

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

3





FILE

3

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

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 80/10/25
PROGRAM FILE: HDT (VERSION 18.2 80/ 4/29)

HDT

CALIPER CALIBRATION SUMMARY

	MEASURED		CALIBRATED		
	SMALL	LARGE	SMALL	LARGE	UNITS
C1	6.6	13.3	6.0	12.0	IN
C2	6.4	13.3	6.0	12.0	IN

FILE

ORIENTATION	DEPTHS	CORRELATION CURVES ← CONDUCTIVITY

COMPANY AMERICAN QUASAR PETROLEUM COMPANY

WELL CROWN ZELLERBACH NO. 30-33

FIELD MIST NEHALEM BASIN

COUNTY COLUMBIA STATE OREGON

ROLL NO. ________

DEPTH INTERVAL THIS ROLL

From ________ To ________

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