Rau 18-14-64 #RD1

Schlumberger

FOUR — ARM HIGH RESOLUTION CONTINUOUS DIPMETER

COUNTY COLUMBIA
FIELD MIST
LOCATION 18-6N-5W
WELL RAU NO. 18-14 RD
COMPANY AMERICAN QUASAR

COMPANY AMERICAN QUASAR PETROLEUM COMPANY

RECEIVED NOV 24 1980 DEPT OF GEOLOGY

WELL RAU NO. 18-14 RD

FIELD MIST MEHALEM BASIN

COUNTY COLUMBIA **STATE** OREGON

LOCATION 900'NORTH & 1099.41'EAST FROM THE SOUTHWEST CORNER OF:

API SERIAL NO.	SEC.	TWP	RANGE
	18	6N	5W

Other Services:
DIL
BHC
FDC/CNL/GR

Permanent Datum: GL ; Elev.: 583
Log Measured From KB 10.5 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 593.5
D.F. --
G.L. 583.0

Date	9-15-80			
Run No.	ONE			
Depth—Driller	2440			
Depth—Logger (Schl.)	2440			
Btm. Log Interval	2439			
Top Log Interval	515			
Casing—Driller	7" @ 515	@	@	@
Casing—Logger	515			
Bit Size	6¼"			
Type Fluid in Hole	Q-BROXIN			
Dens. | Visc.	9.7 | 40			
pH | Fluid Loss	10.5 | 5.8 ml	ml	ml	ml
Source of Sample	CIRCULATION			
Rm @ Meas. Temp.	2.23 @ 65 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	2.57 @ 48 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	3.39 @ 68 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | M			
Rm @ BHT	1.76 @ 84 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	2330 9/14			
TIME Logger on Bottom	0915			
Max. Rec. Temp.	84 °F	°F	°F	°F
Equip. | Location	8128 | SAC			
Recorded By	LANGFORD			
Witnessed By Mr.	T. SMITH			

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

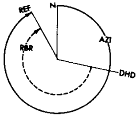
REMARKS: Service Order No. 135729 Magnetic Declination 20°
REPEAT AT TOP DUE TO BOREHOLE CONDITIONS.

Run No.	1	2	3	4
Tool Type	HDT-D			
HDP	962			
DDR | TTR	-			
DPI	-			
HDM	819			
HDE	2996			
HDS	1954			
Adapter Head	-			
UG | CG | SAH	-			
5" Film | 10" Film | 60" Record	X			
Analog | Digital	| X			
TIME Circulation Stopped	2330			
TIME Schl. on Bottom	0915			

ROLL NO.	INTERVAL

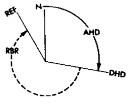
TOOL AZIMUTH AND HOLE DIRECTION CALCULATION DEFINITIONS

(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.

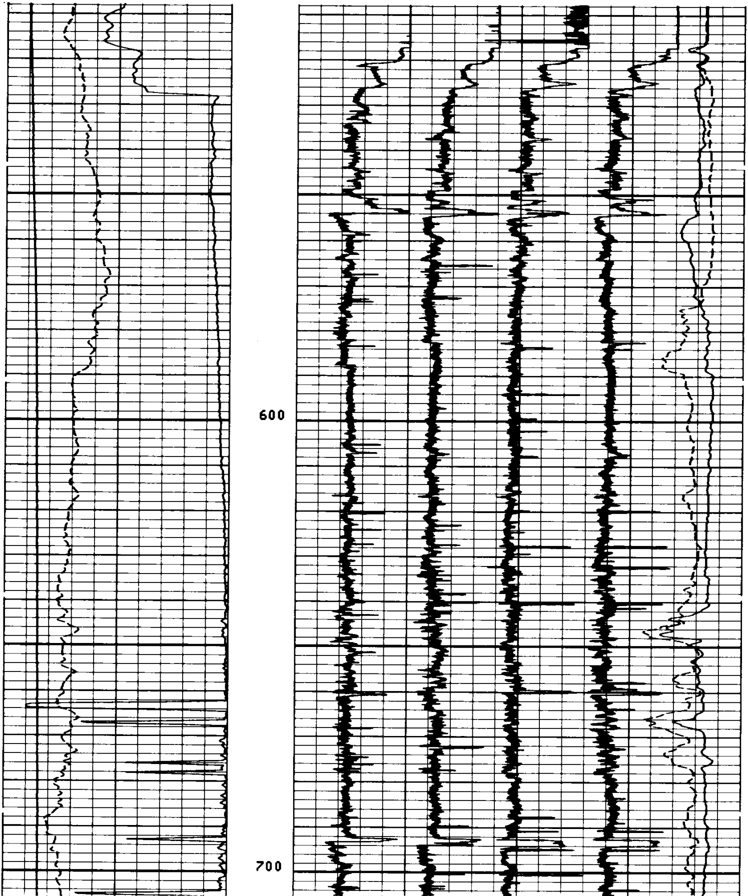
ORIENTATION	DEPTHS	CORRELATION CURVES ←CONDUCTIVITY

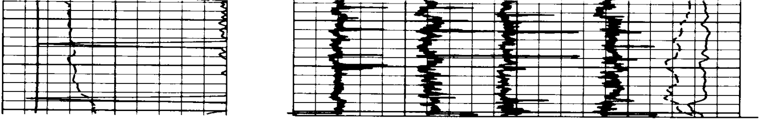
REPEAT SECTION

DEVI(DEG)		C2 (INCH)	
-8.000	72.00	25.00	5.000
RB (DEG)		C1 (INCH)	
-40.00	360.0	25.00	5.000
AZIM(DEG)			
-40.00	360.0		

FILE

5





FILE

5

DEVI(DEG)
-8.000 72.00
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	72	BS	INCH	6.250
DO		0.0	BHS		OPEN	FPHI		PHIX

PARAMETERS

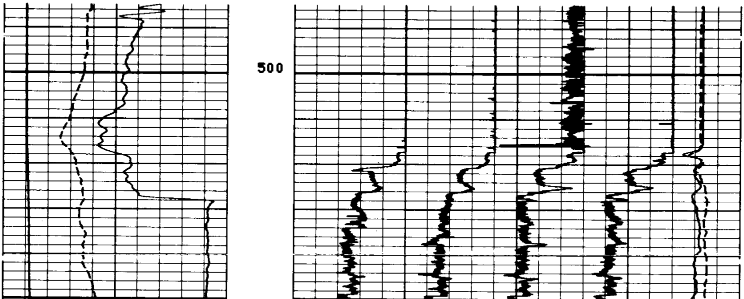
NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
STYP		STAN	MCT	DEG	72	BS	INCH	6.250
DO		0.0	BHS		OPEN	FPHI		PHIX

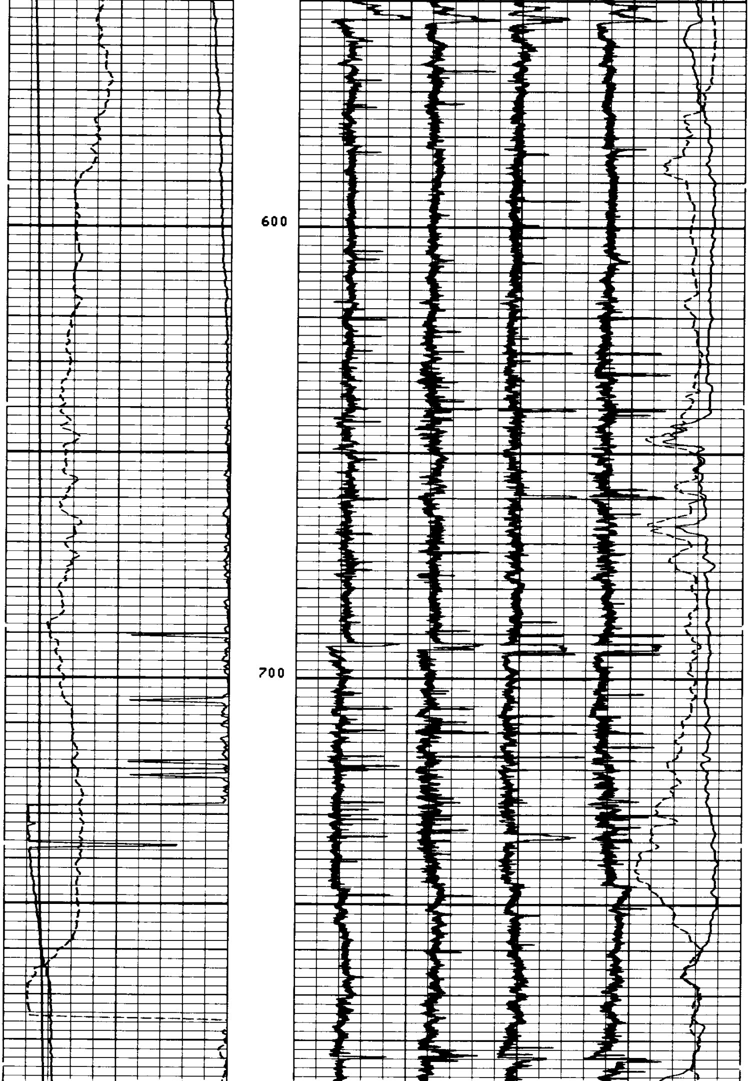
DEVI(DEG)
-8.000 72.00
RB (DEG)
-40.00 360.0
AZIM(DEG)
-40.00 360.0

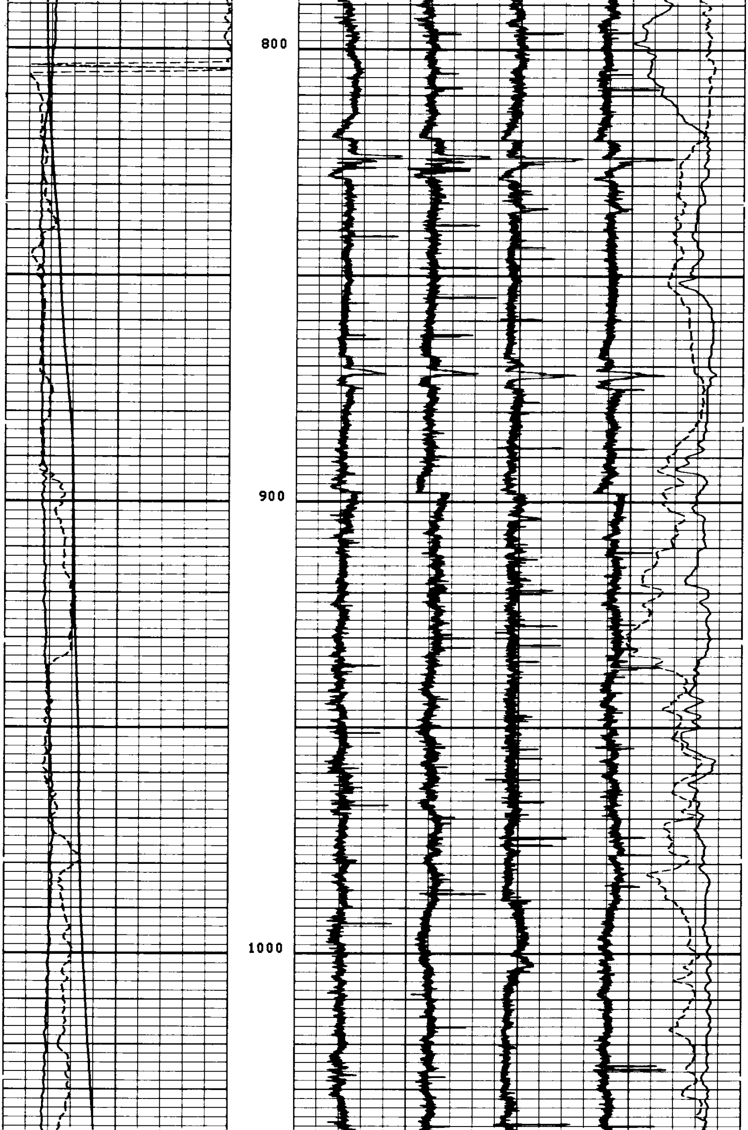
C2 (INCH)
25.00 5.000
C1 (INCH)
25.00 5.000

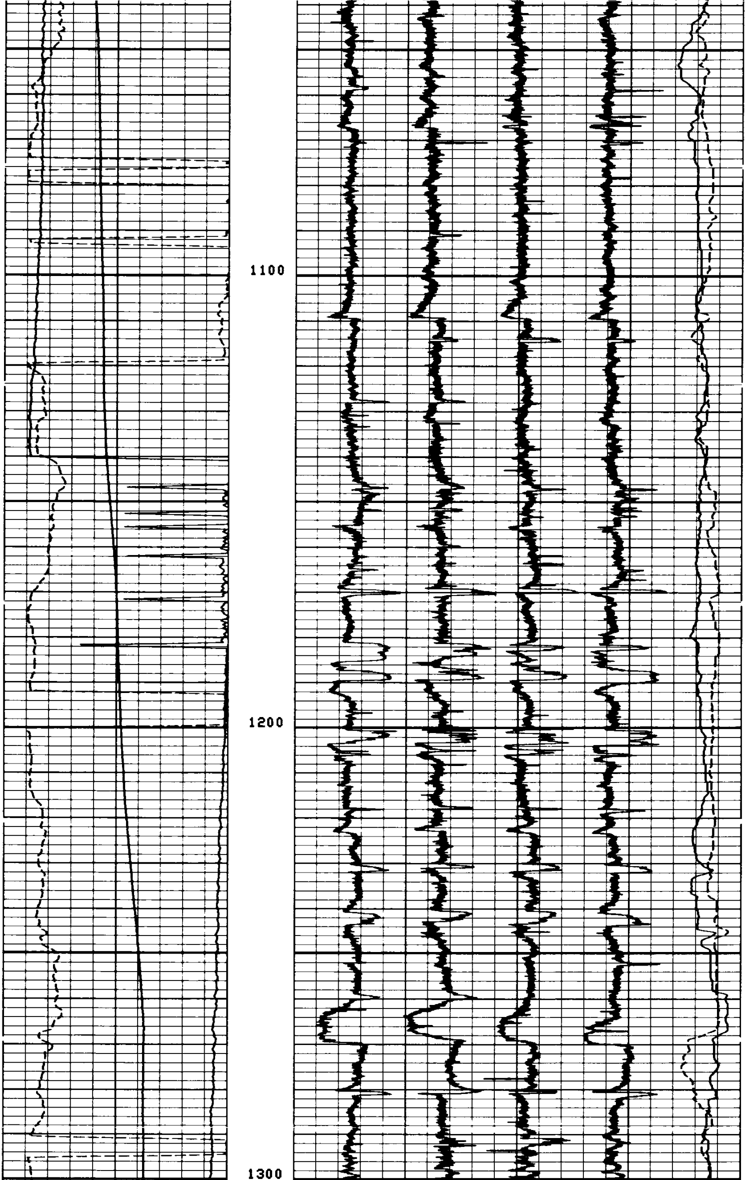
FILE

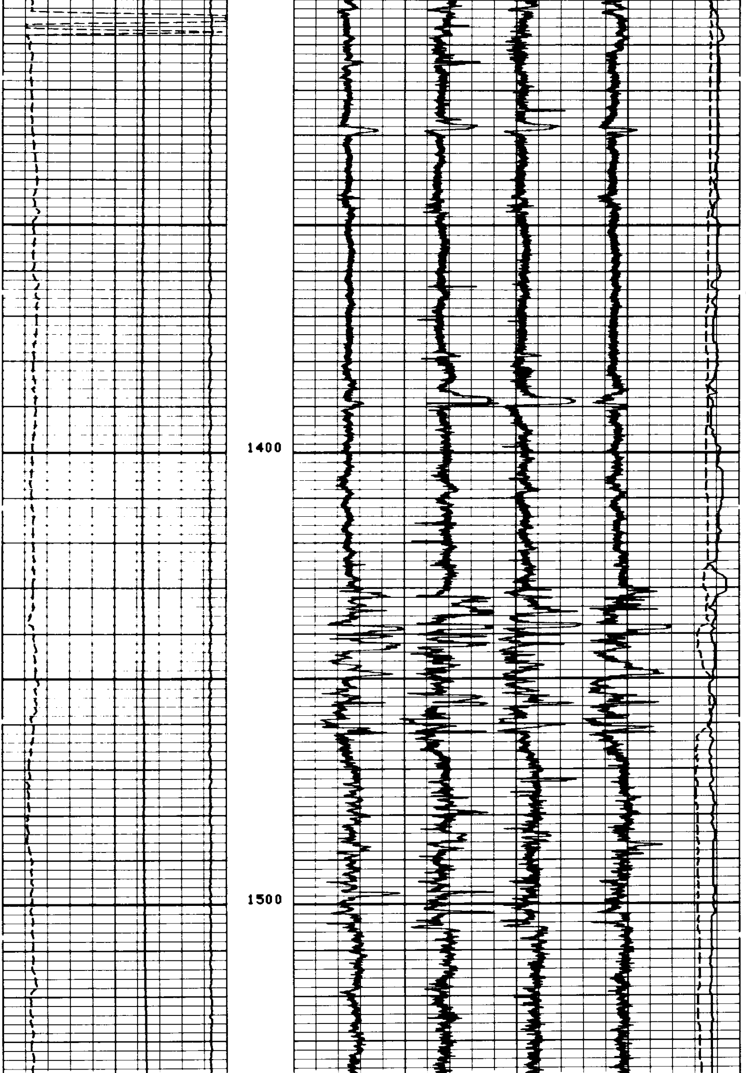
4

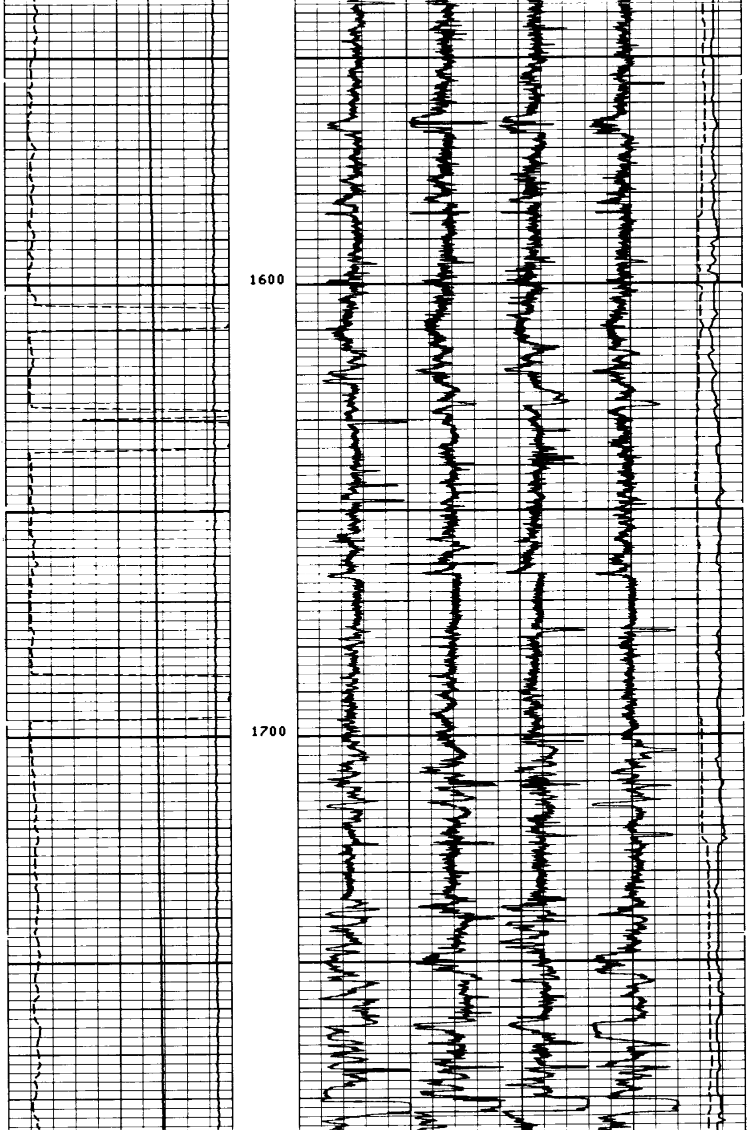


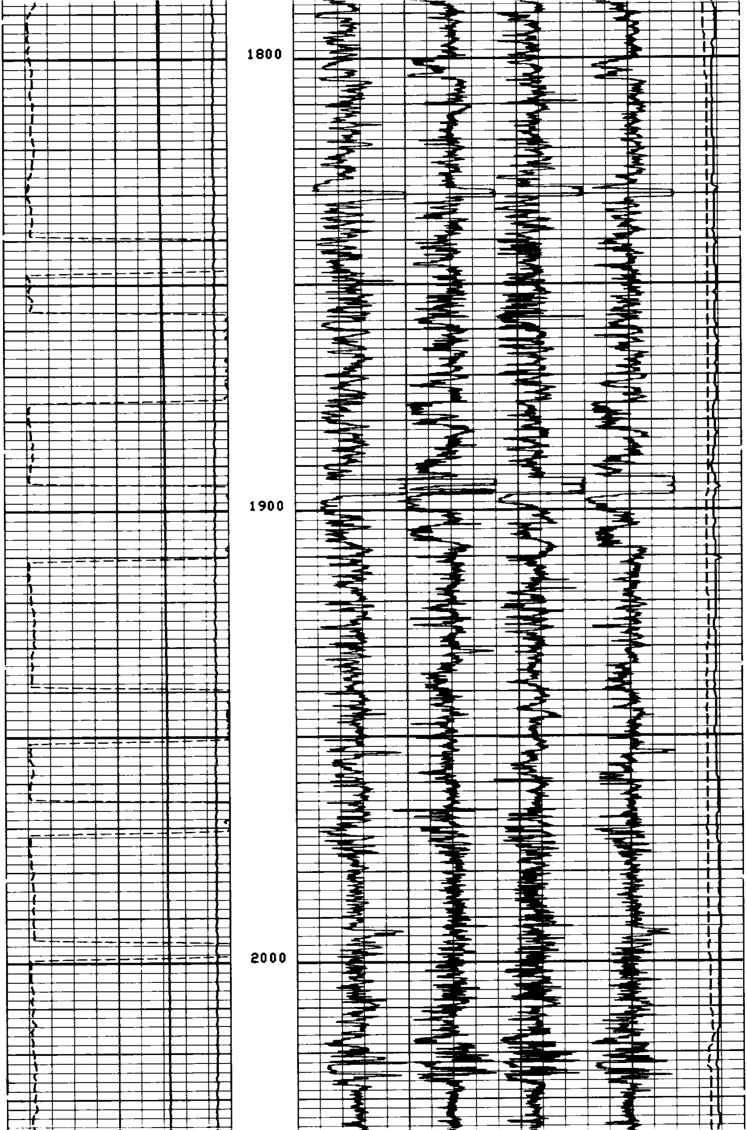


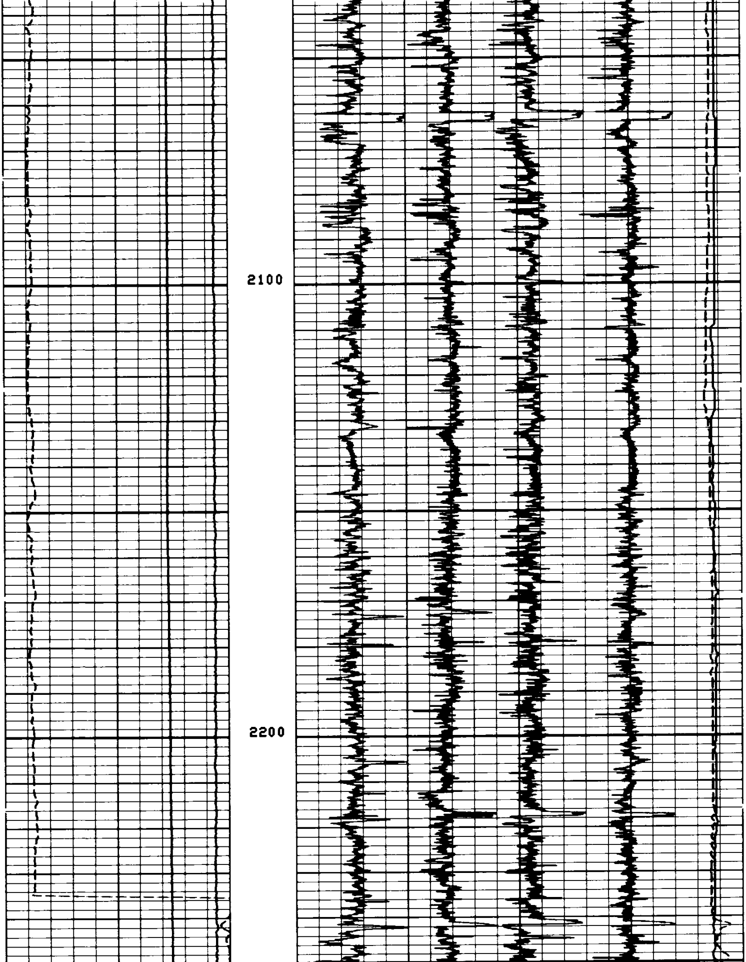


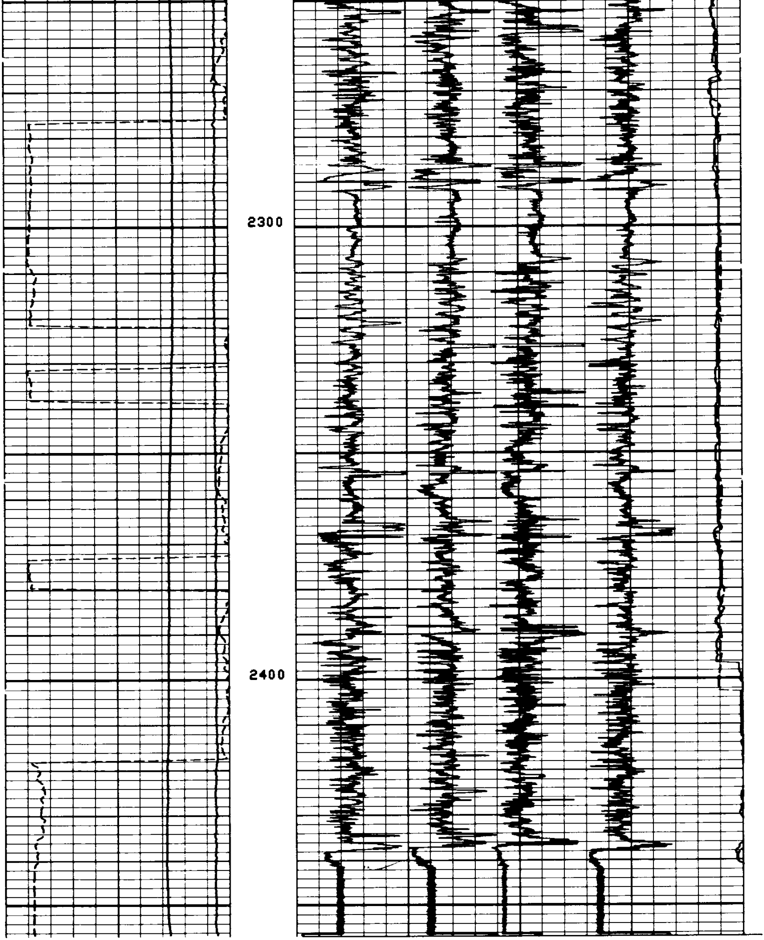












FILE

4

DEVI(DEG)
-8.000 72.00
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	72	BS	INCH	6.250
DO		0.0	BHS		OPEN	FPHI		PHIX

CALIBRATION RECORD

PARAMETERS

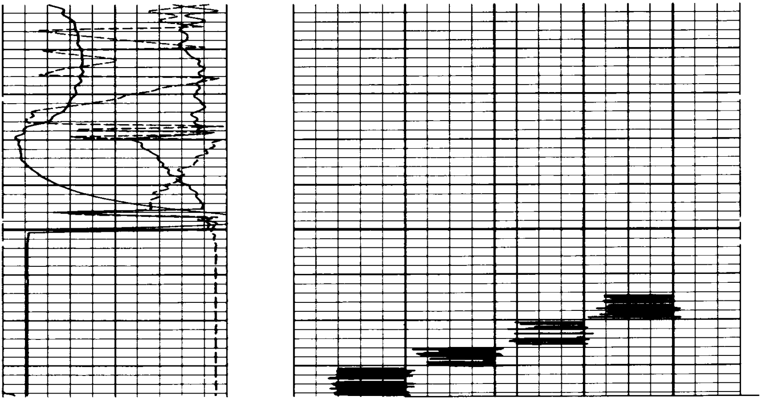
NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE
STYP		STAN	MCT	DEG	72	BS	INCH	6.250
DO		0.0	BHS		OPEN	FPHI		PHIX

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

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

FILE

3



FILE

3

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	72	BS	INCH	6.250
DO		0.0	BHS		OPEN	FPHI		PHIX

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                 BEFORE SURVEY CALIBRATION SUMMARY

  PERFORMED:      80/09/14
  PROGRAM FILE: HDT     (VERSION     18.2     80/ 4/29)

 HDT                CALIPER CALIBRATION SUMMARY

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

                            2
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ORIENTATION	DEPTHS	CORRELATION CURVES ← CONDUCTIVITY

COMPANY AMERICAN QUASAR PETROLEUM COMPANY

WELL RAU NO. 18-14 RD

FIELD MIST NEHALEM BASIN

COUNTY COLUMBIA 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