Schlumberger

FOUR — ARM HIGH RESOLUTION CONTINUOUS DIPMETER

COUNTY COLUMBIA
FIELD WILDCAT
LOCATION 29-6N-4W
WELL QUASAR 29-14 CROWN ZELLERBACH
COMPANY AMERICAN QUASAR

COMPANY AMERICAN QUASAR PETROLEUM COMPANY

RECEIVED PTLD
JAN 23 1980
DEPT OF GEOLOGY

WELL QUASAR 29-14 CROWN ZELLERBACH

FIELD WILDCAT

COUNTY COLUMBIA **STATE** OREGON

LOCATION 251'NSL & 819'EWL

API SERIAL NO.	SEC.	TWP	RANGE
	29	6N	4W

Other Services:
DI-SFL
BHC
FDC/CNL/GR
HDT

Permanent Datum: GL ; Elev.: 566.9
Log Measured From KB 10 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 576.9
D.F. - -
G.L. 566.9

Date	11-1-79			
Run No.	ONE			
Depth—Driller	2880			
Depth—Logger (Schl.)	2864			
Btm. Log Interval	2863			
Top Log Interval	508			
Casing—Driller	7" @ 508	@	@	@
Casing—Logger	508			
Bit Size	6¼"			
Type Fluid in Hole	GEL			
Dens. | Visc.	9.4 | 58			
pH | Fluid Loss	10.8 | 7 ml	ml	ml	ml
Source of Sample	CIRCULATED			
Rm @ Meas. Temp.	2.56 @ 76 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	3.20 @ 58 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	3.34 @ 60 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | M			
Rm @ BHT	2.05 @ 95 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	1400 11-1			
TIME Logger on Bottom	2200			
Max. Rec. Temp.	95 °F	°F	°F	°F
Equip. | Location	8126 | SAC			
Recorded By	ANDERSEN			
Witnessed By Mr.	LONG			

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

REMARKS: Service Order No. 31511 Magnetic Declination

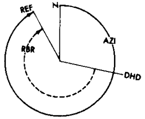
Run No.	1	2	3	4
Tool Type	HDT			
HDP	D-970			
DDR | TTR	--- | ----			
DPI	--			
HDM	F-1726			
HDE	1879			
HDS	1752			
Adapter Head	--			
UG | CG | SAH	-- | -- | --			
5" Film | 10" Film | 60" Record	X | -- | --			
Analog | Digital	-- | X			
TIME Circulation Stopped	1400			
TIME Schl. on Bottom	2200			

ROLL NO.	INTERVAL

TOOL AZIMUTH AND HOLE DIRECTION CALCULATION

DEFINITIONS

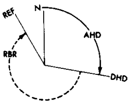
(DHD) HIGH SIDE OF TOOL = Direction from center of tool to upper side of tool.
(N) NORTH = Direction from center of tool to Magnetic North.
(REF) REFERENCE ELECTRODE = Direction from center of tool to #1 electrode.
(AZI) AZIMUTH OF REFERENCE ELECTRODE = Clockwise angle from N to REF.
(RBR) RELATIVE BEARING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



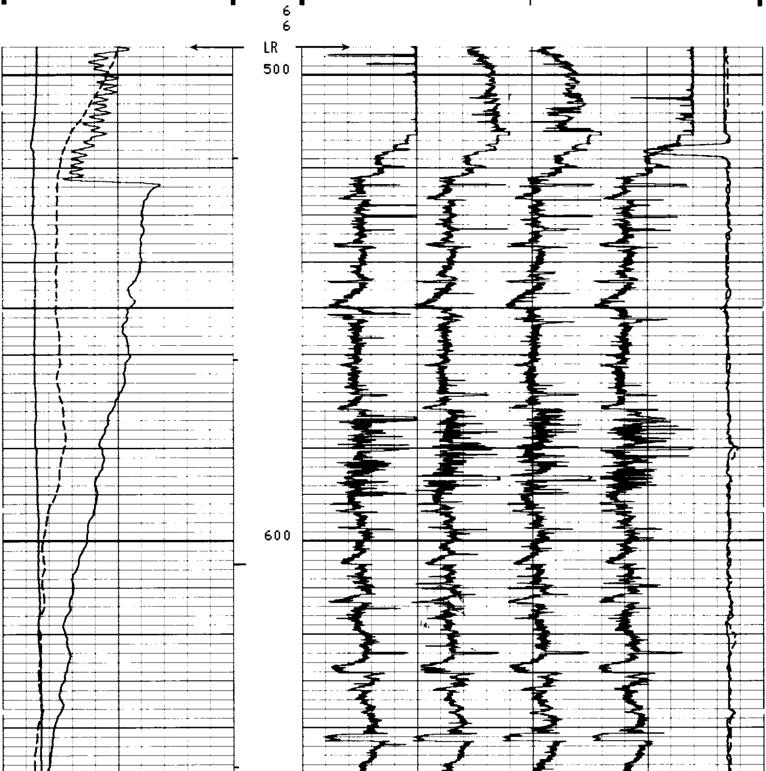
HIGH ANGLE UNIT ☐

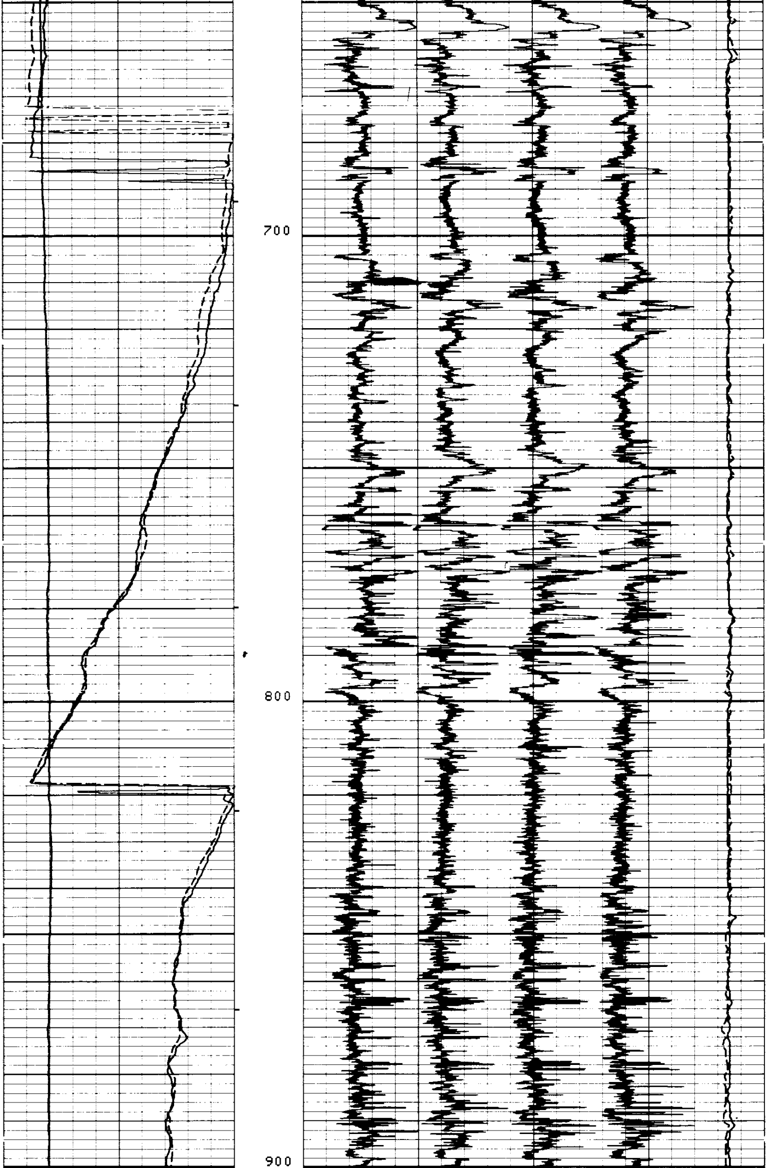
EXAMPLE

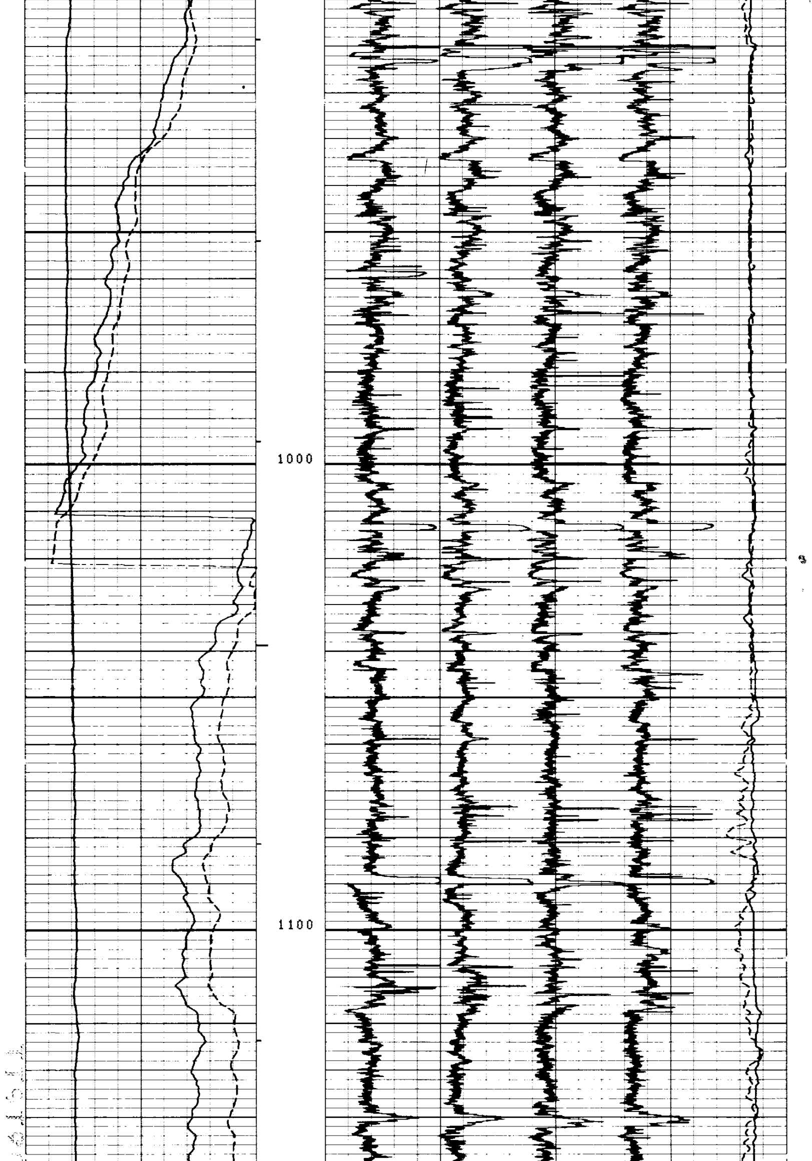
HDM - High Angle Unit (0-72°)
AHD (solid curve) = 100°
RBR (dotted curve) = 230°
AZI = AHD + RBR = 100° + 230° = 330°

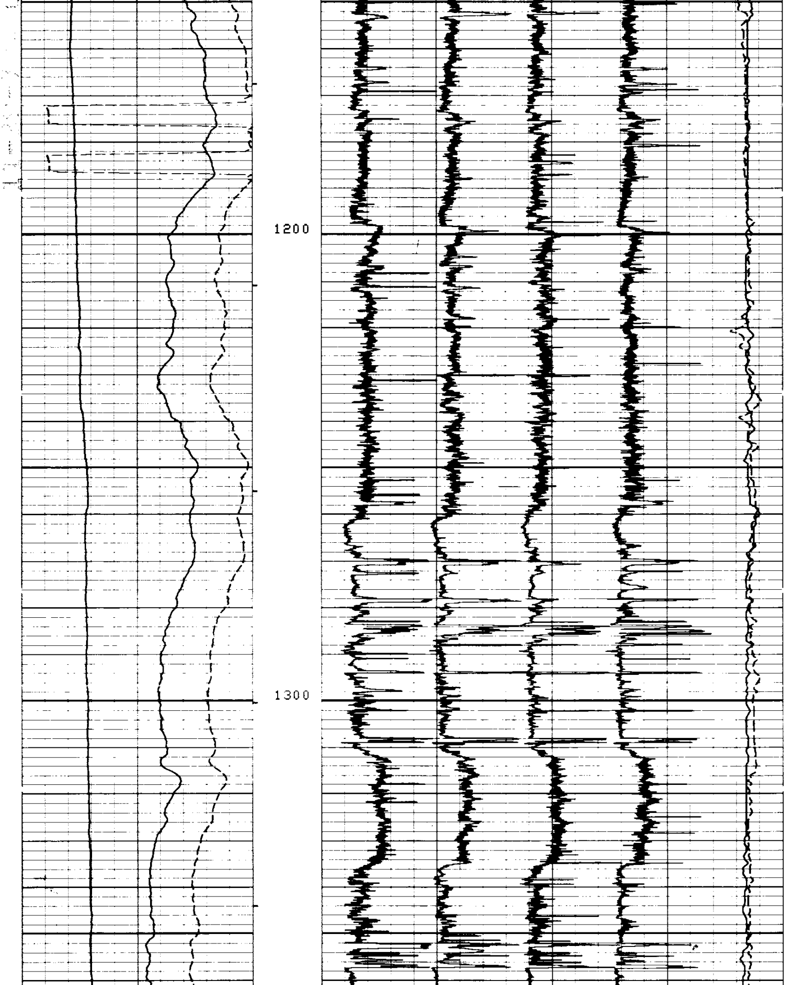
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

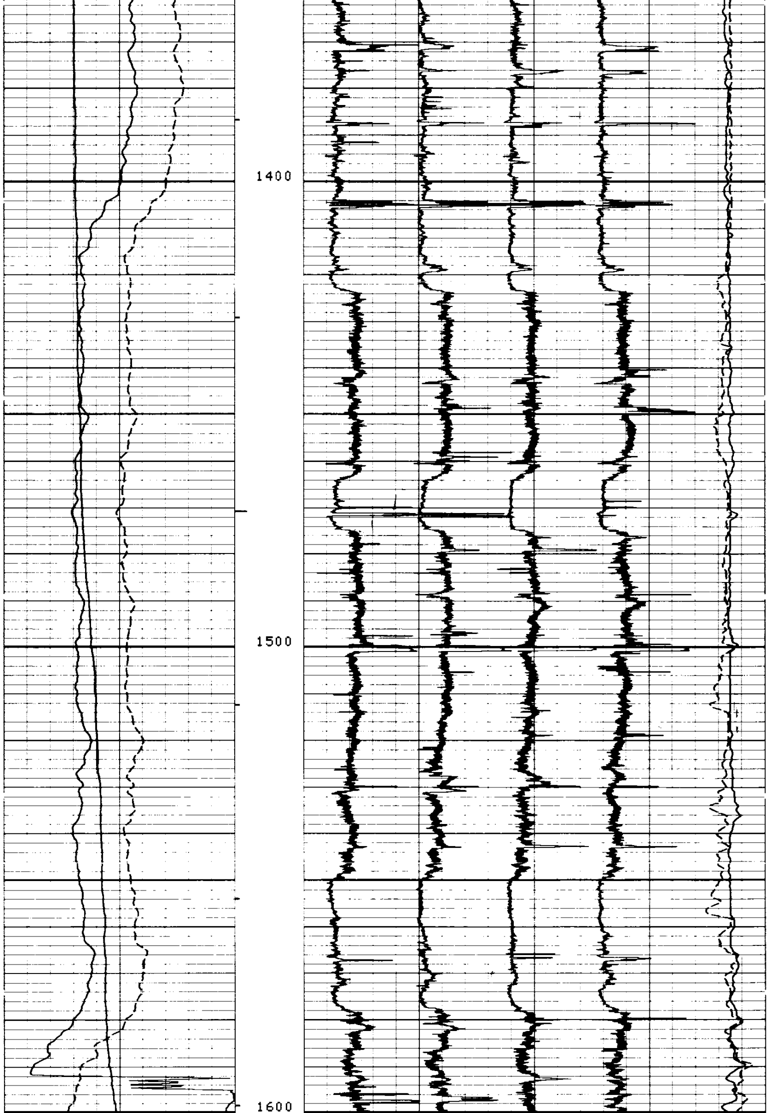
ORIENTATION	DEPTHS	CORRELATION CURVES ←CONDUCTIVITY
AZIMUTH 0° 120° 240° 360° RELATIVE BEARING 0° 120° 240° 360° DEVIATION 0° 9°		S. O. NO. 1 S. O. NO. 2 S. O. NO. 3 S. O. NO. 4 4 ARM CALIPER 1 - 3 CALIPER 2 - 4 CALIPER 15" 5"

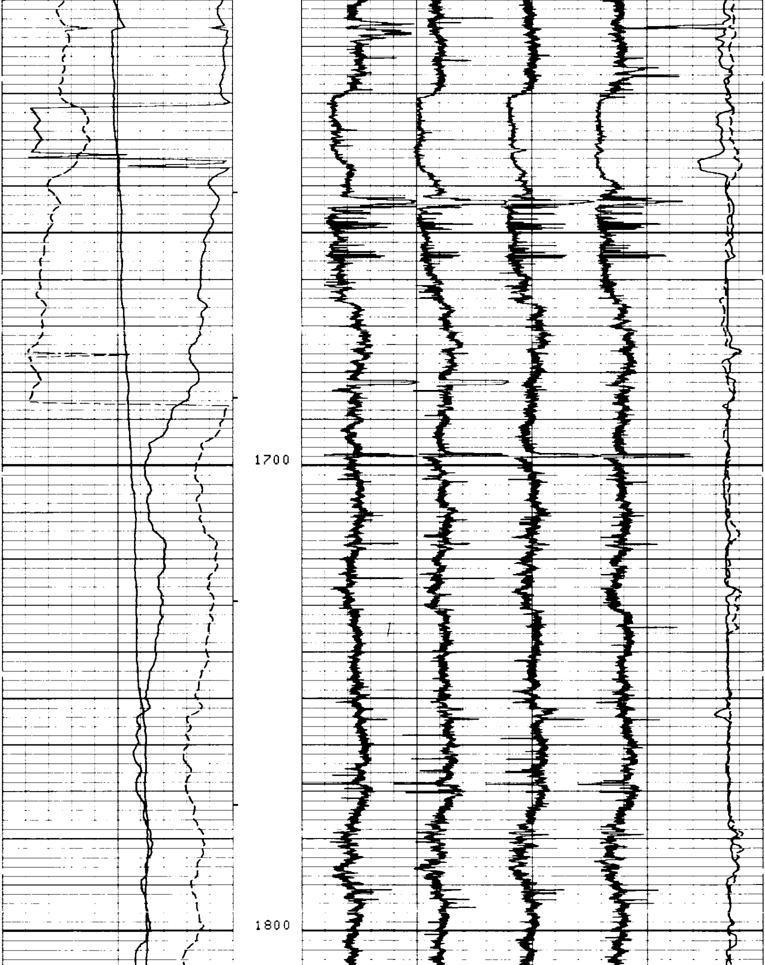


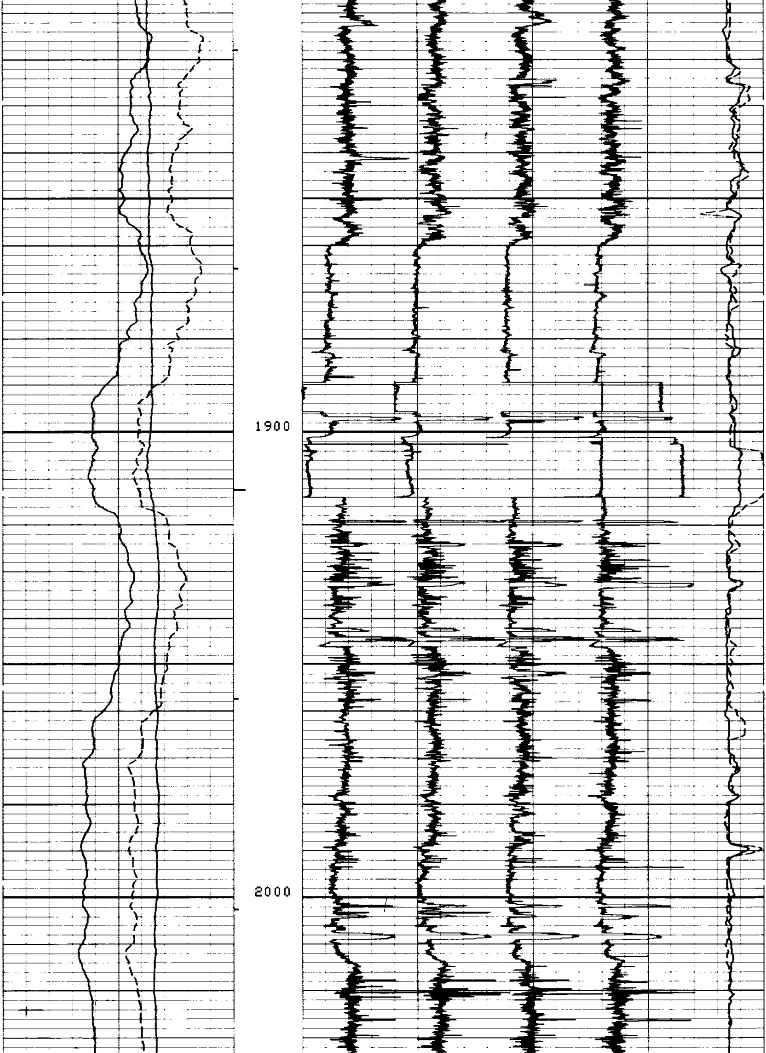


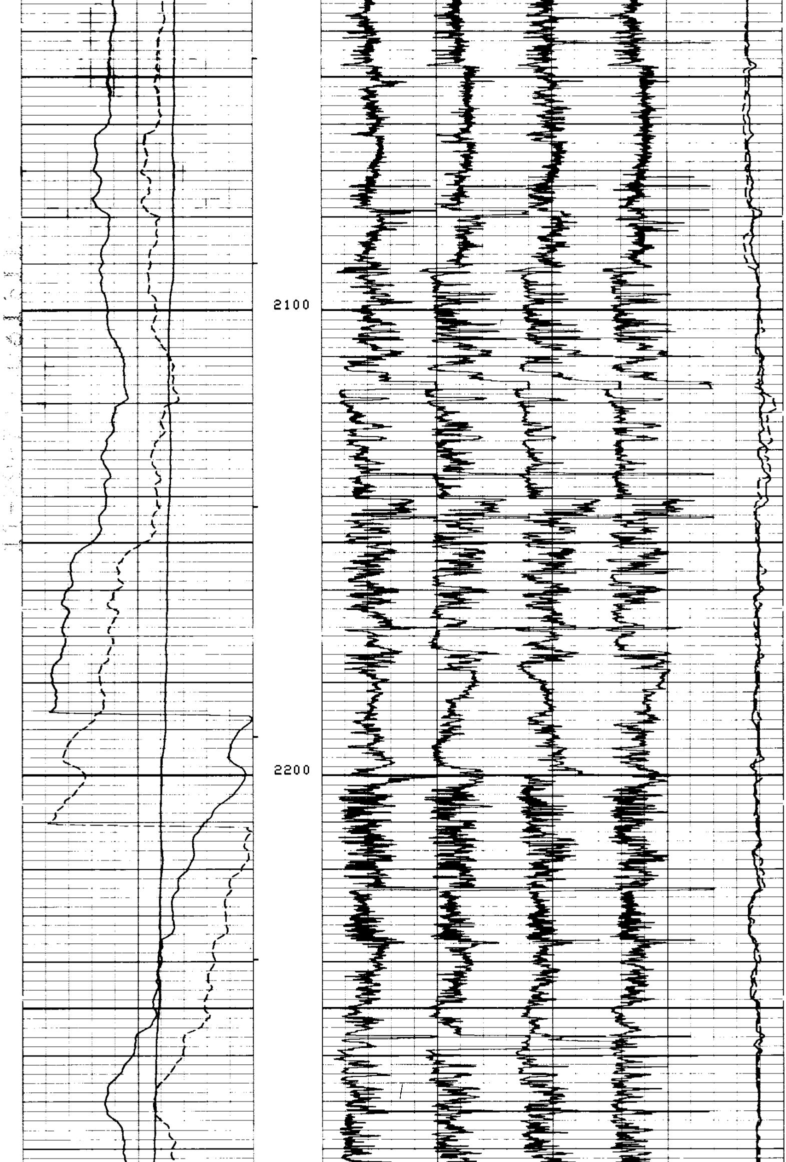


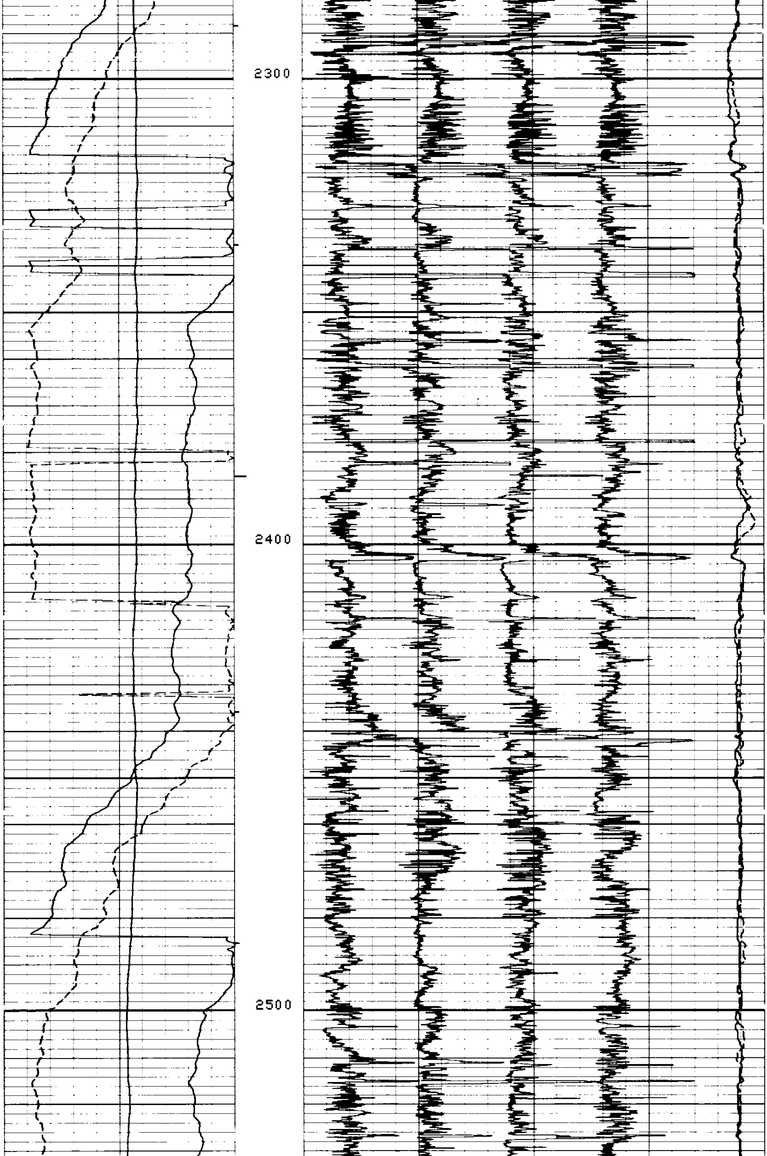


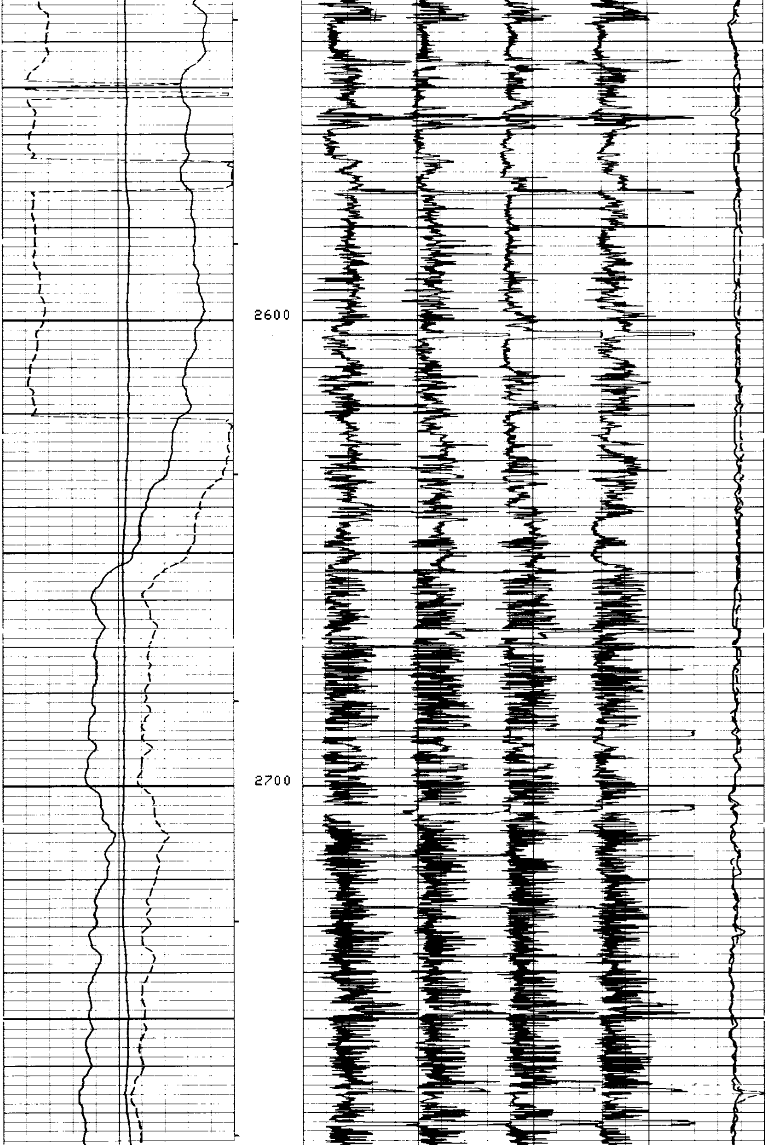


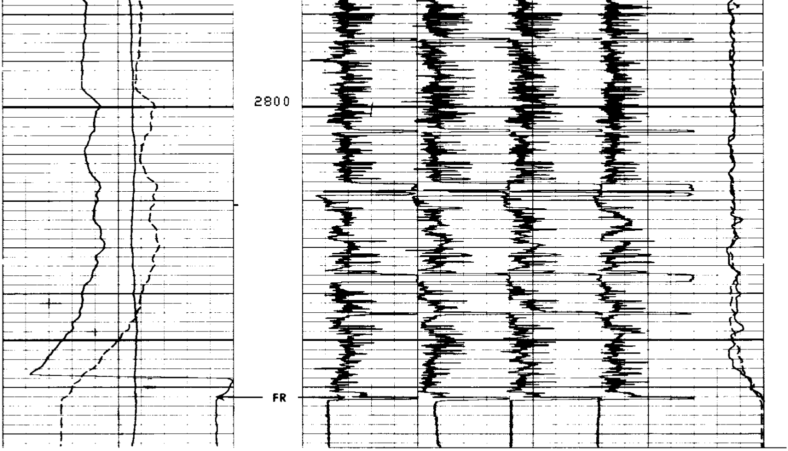












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REPEAT SECTION

5
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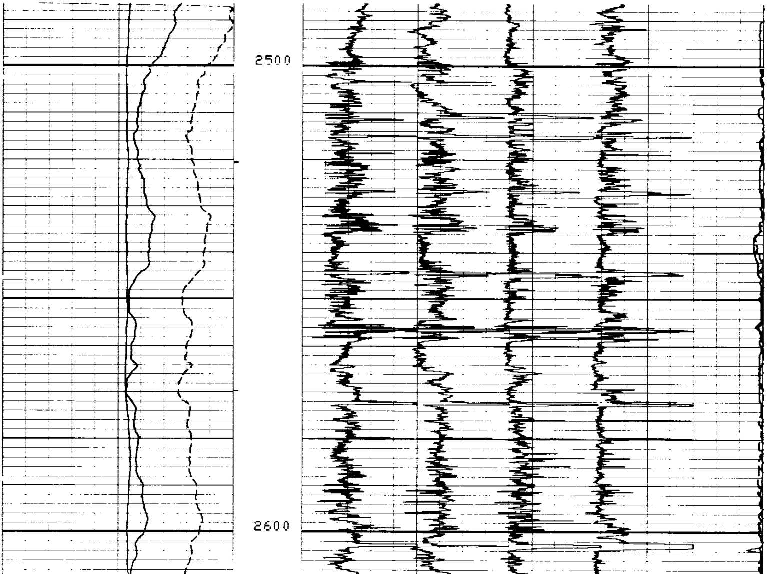

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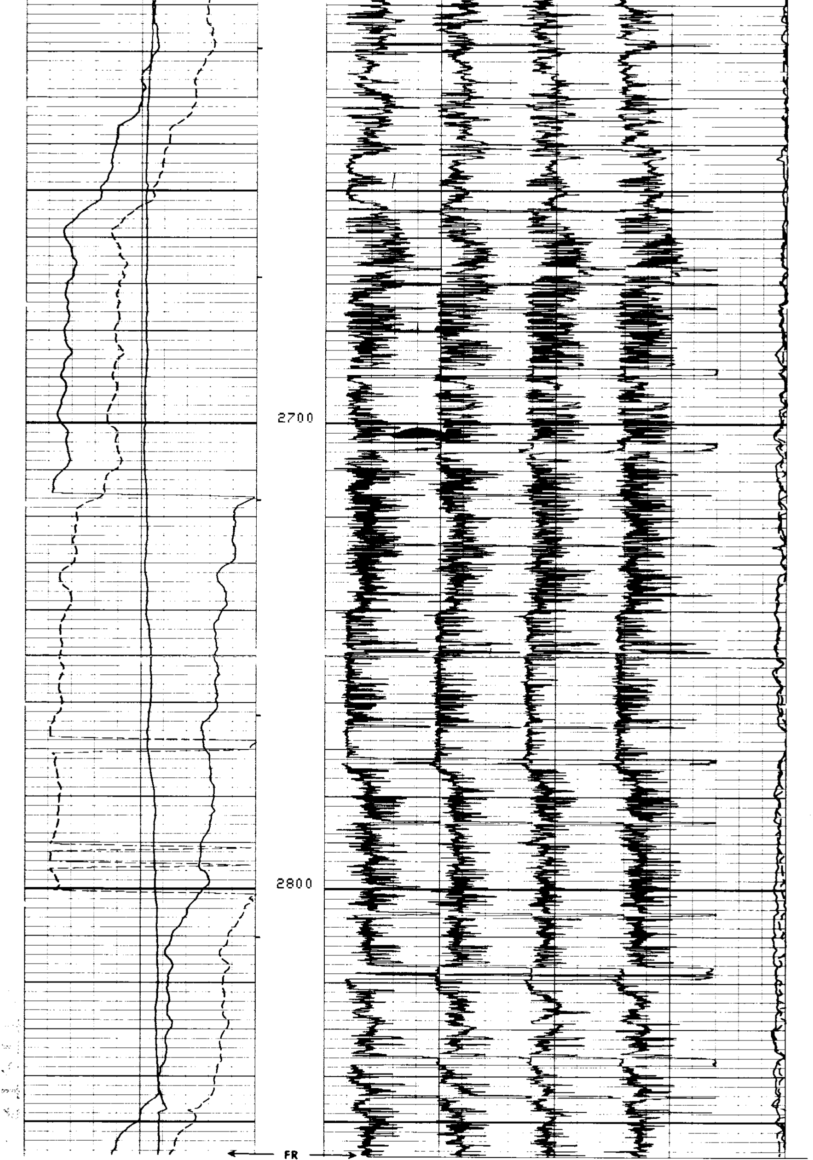

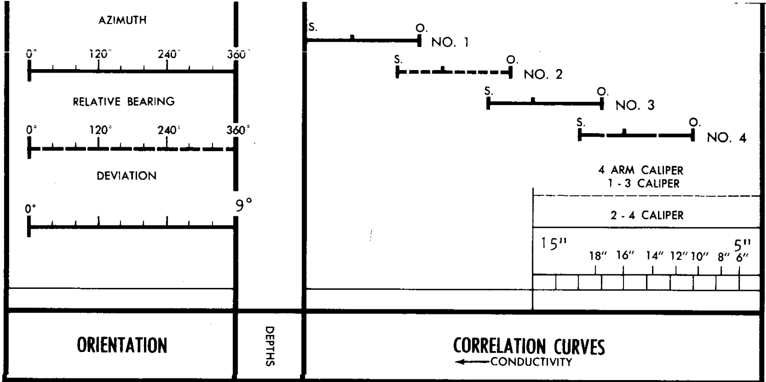

CALIBRATION RECORD

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                BEFORE SURVEY CALIBRATION SUMMARY


     PERFORMED:      79/11/01
     PROGRAM FILE:   HDT     (VERSION    14.4    79/09/05)


    HDT                  CALIPER CALIBRATION SUMMARY

                   MEASURED                       CALIBRATED
                SMALL    LARGE                 SMALL       LARGE        UNITS
       C1        6.3     13.1                   6.0        12.0          IN
       C2        6.5     13.3                   6.0        12.0          IN
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COMPANY AMERICAN QUASAR PETROLEUM COMPANY

WELL QUASAR 29-14 CROWN ZELLERBACH

FIELD WILDCAT

COUNTY COLUMBIA STATE OREGON

ROLL NO. __________

DEPTH INTERVAL THIS ROLL

From ________ To ________