CC 12

Schlumberger

APR 23 1980

FOUR – ARM HIGH RESOLUTION
CONTINUOUS DIPMETER

COUNTY COLUMBIA
FIELD MIST-NEHALEM BASIN
LOCATION 14-6N-5W
WELL COLUMBIA COUNTY NO. 12 REDRILL NO. 1
COMPANY REICHHOLD ENERGY

COMPANY REICHHOLD ENERGY CORPORATION

WELL COLUMBIA COUNTY NO. 12 REDRILL NO.1

FIELD MIST-NEHALEM BASIN

COUNTY COLUMBIA **STATE** OREGON

LOCATION 39'SOUTH & 209'EAST OF THE NORTHWEST CORNER OF:

API SERIAL NO.

SEC. 14 TWP. 6N RANGE 5W

Other Services: DI-SFL

Permanent Datum: GL ; Elev.: 797.65
Log Measured From KB10.8 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 808.45
D.F. --
G.L. 797.65

Date	3-1-80			
Run No.	ONE			
Depth—Driller	3364			
Depth—Logger (Schl.)	3364			
Btm. Log Interval	3360			
Top Log Interval	398			
Casing—Driller	7" @ 399	@	@	@
Casing—Logger	398			
Bit Size	6¼"			
Type Fluid in Hole	LIGNOSULFONATE			
Dens. | Visc.	81 | 47	|	|	|
pH | Fluid Loss	10.5 | 5 ml	| ml	| ml	| ml
Source of Sample	CIRCULATION			
Rm @ Meas. Temp.	1.38 @ 61 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.34 @ 40 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	2.10 @ 40 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | M	|	|	|
Rm @ BHT	0.82 @ 94 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	1000			
TIME Logger on Bottom	1530			
Max. Rec. Temp.	94 °F	°F	°F	°F
Equip. | Location	8126 | SAC	|	|	|
Recorded By	FINNELL			
Witnessed By Mr.	BRUER			

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

REMARKS: Service Order No. 123951 Magnetic Declination 20°

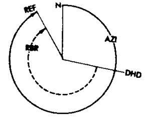
Run No.	1	2	3	4
Tool Type	HDT-D			
HDP	958			
DDR | TTR	---- | ---	|	|	|
DPI	--			
HDM	--			
HDE	--			
HDS	1718			
Adapter Head	--			
UG | CG | SAH	--- | --- | --	| |	| |	| |
5" Film | 10" Film | 60" Record	X | |	| |	| |	| |
Analog | Digital	| X	|	|	|
TIME Circulation Stopped	1000			
TIME Schl. on Bottom	1530			

ROLL NO.	INTERVAL

TOOL AZIMUTH AND HOLE DIRECTION CALCULATION

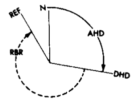
DEFINITIONS

(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.


REF
N
AZI
RBR
DHD

LOW ANGLE UNIT ☒

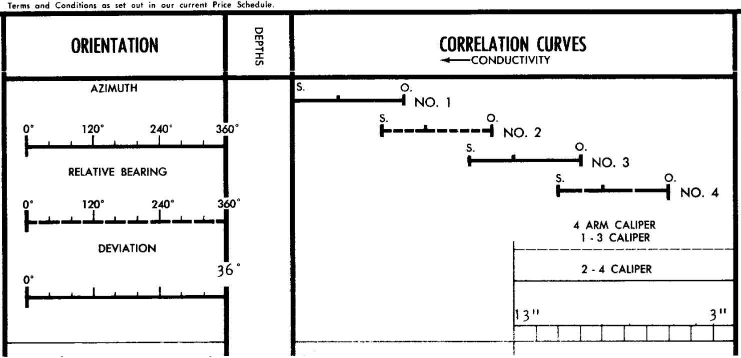
EXAMPLE
HDM - Low Angle Unit (0-36°)
AZI (solid curve) = 330°
RBR (dotted curve) = 230°
AHD = AZI − RBR = 330° − 230° = 100°


REF
N
AHD
RBR
DHD

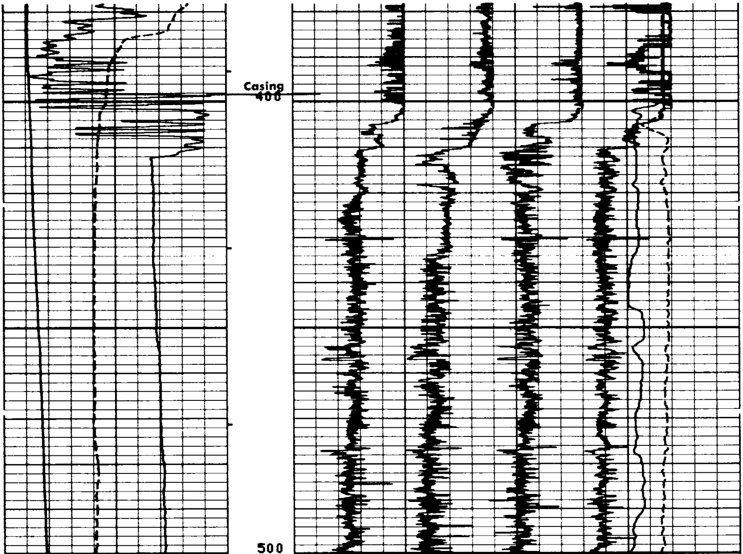
HIGH ANGLE UNIT ☐

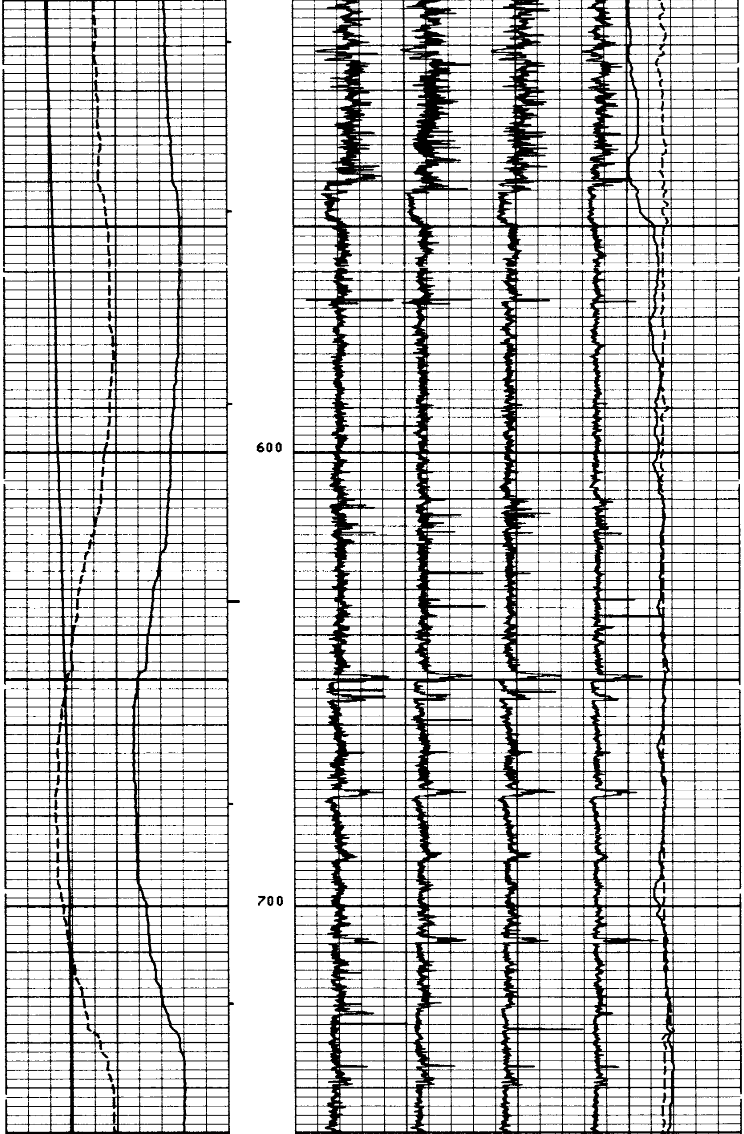
EXAMPLE
HDM - High Angle Unit (0-72°)
AHD (solid curve) = 100°
RBR (dotted curve) = 230°
AZI = AHD + RBR = 100° + 230° = 330°

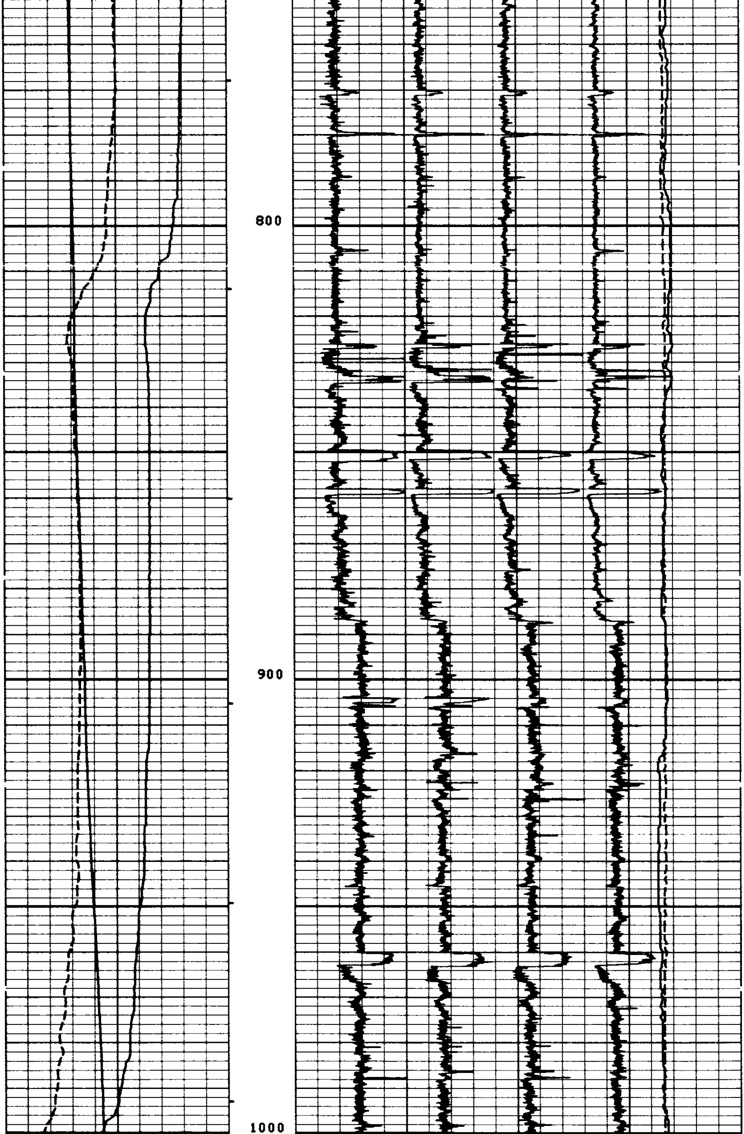
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

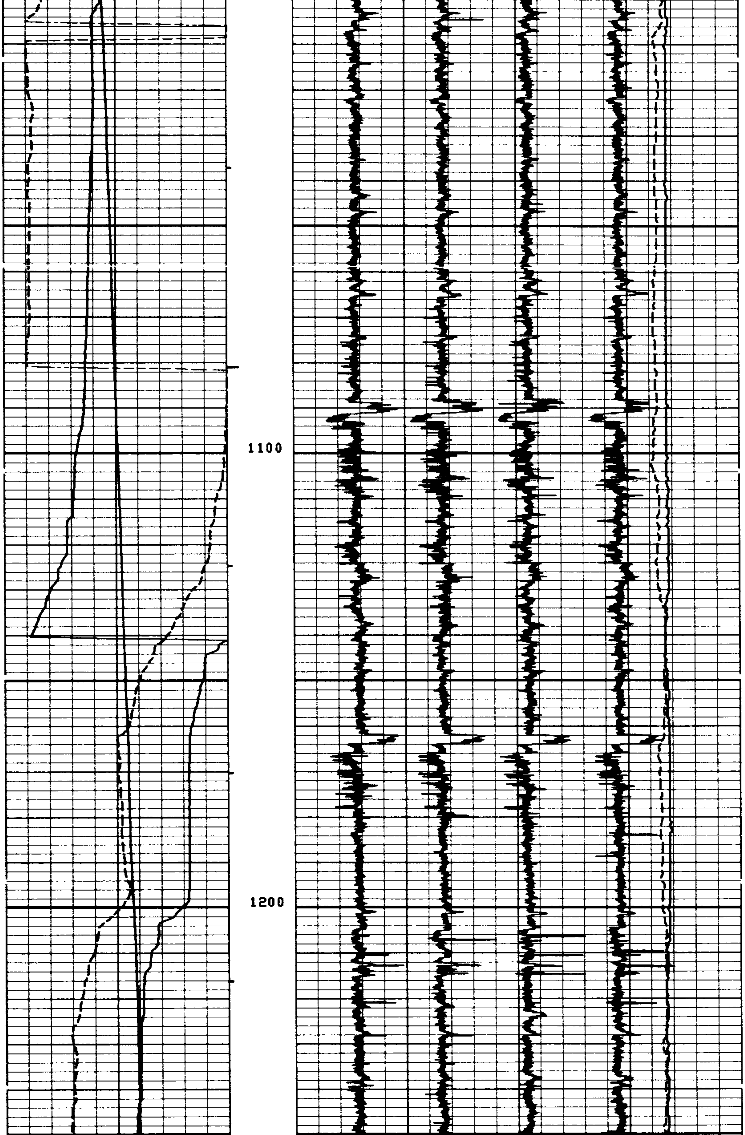

ORIENTATION
DEPTHS
CORRELATION CURVES
CONDUCTIVITY
AZIMUTH
0°
120°
240°
360°
RELATIVE BEARING
0°
120°
240°
360°
DEVIATION
0°
36°
S.
O.
NO. 1
S.
O.
NO. 2
S.
O.
NO. 3
S.
O.
NO. 4
4 ARM CALIPER
1 - 3 CALIPER
2 - 4 CALIPER
13"
3"

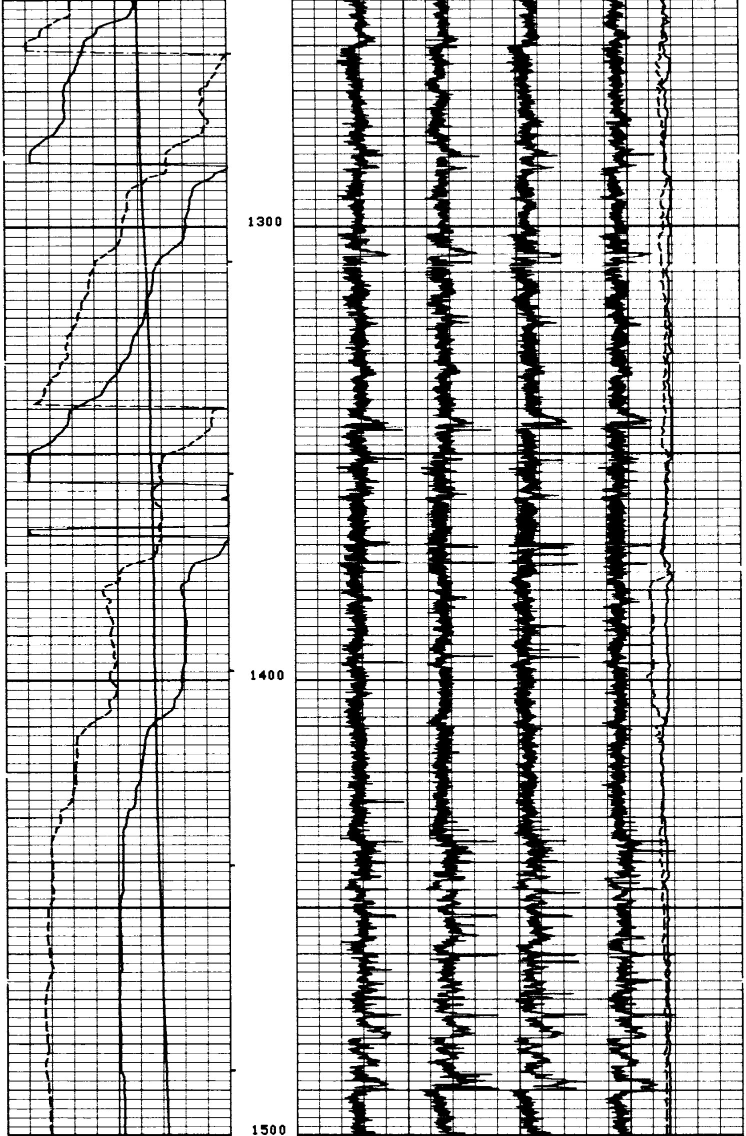
3

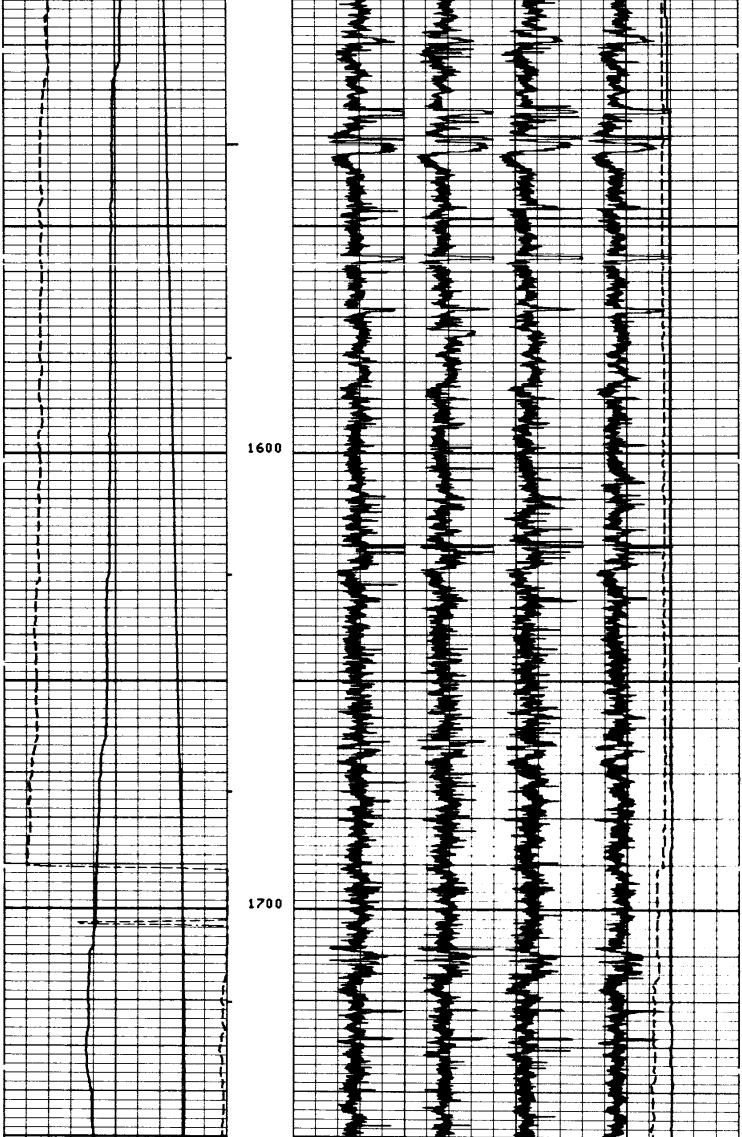


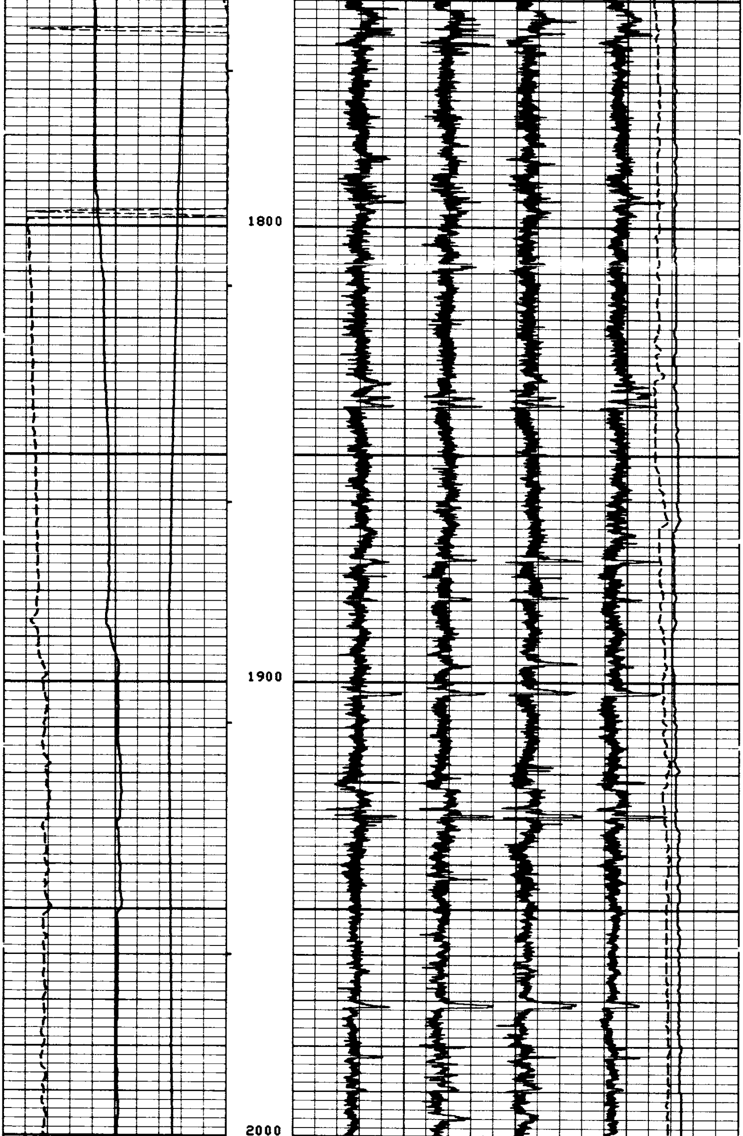


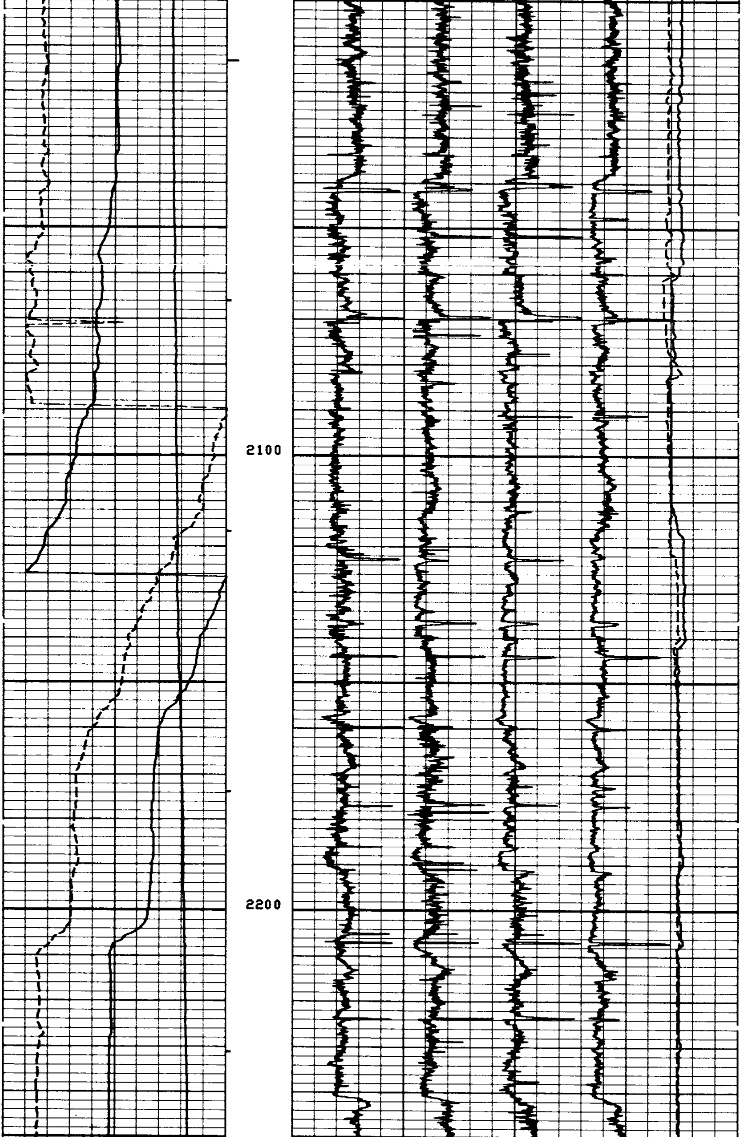


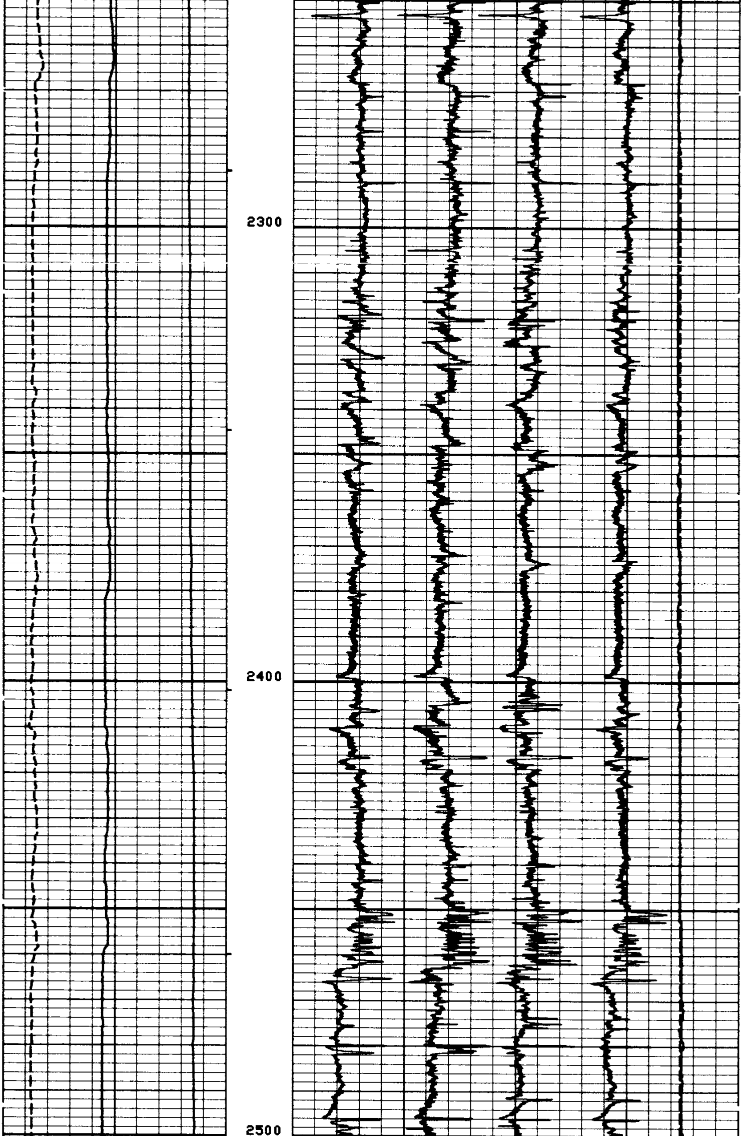


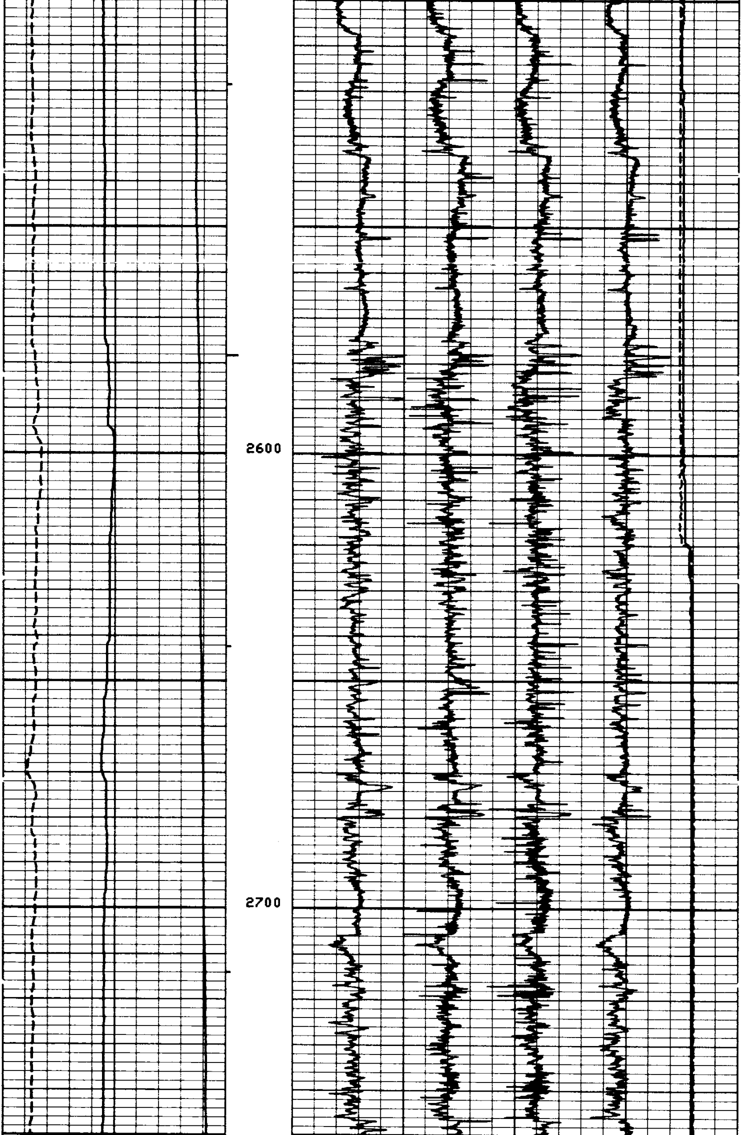


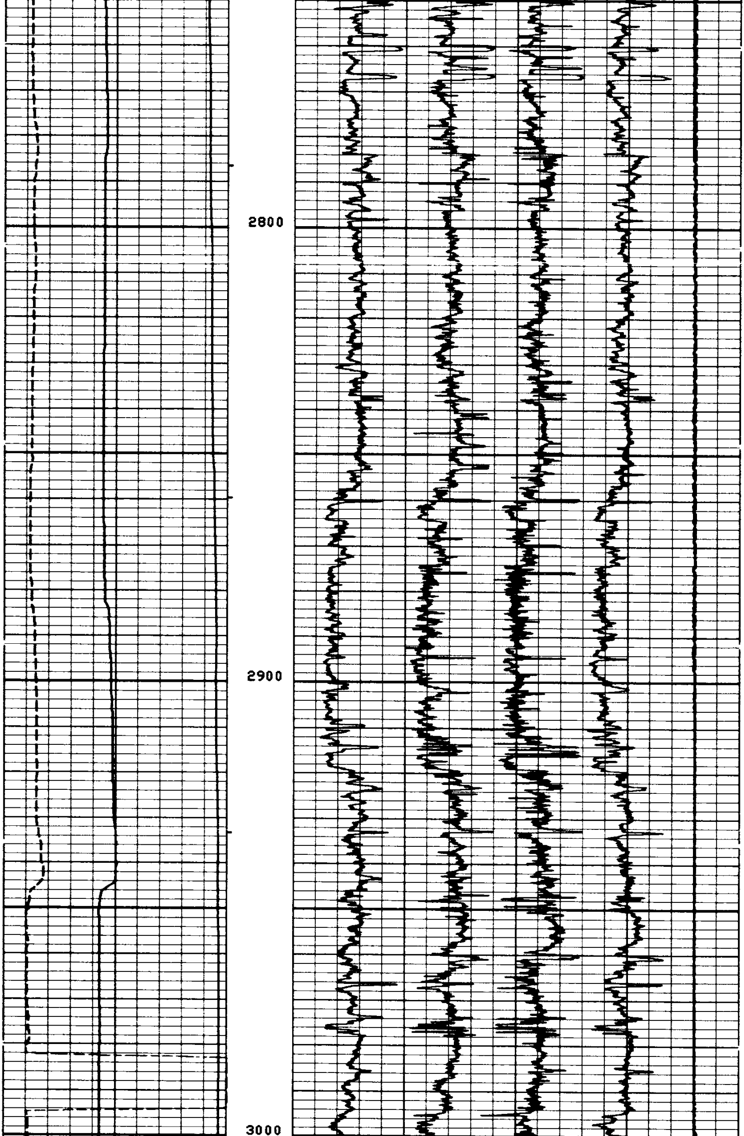


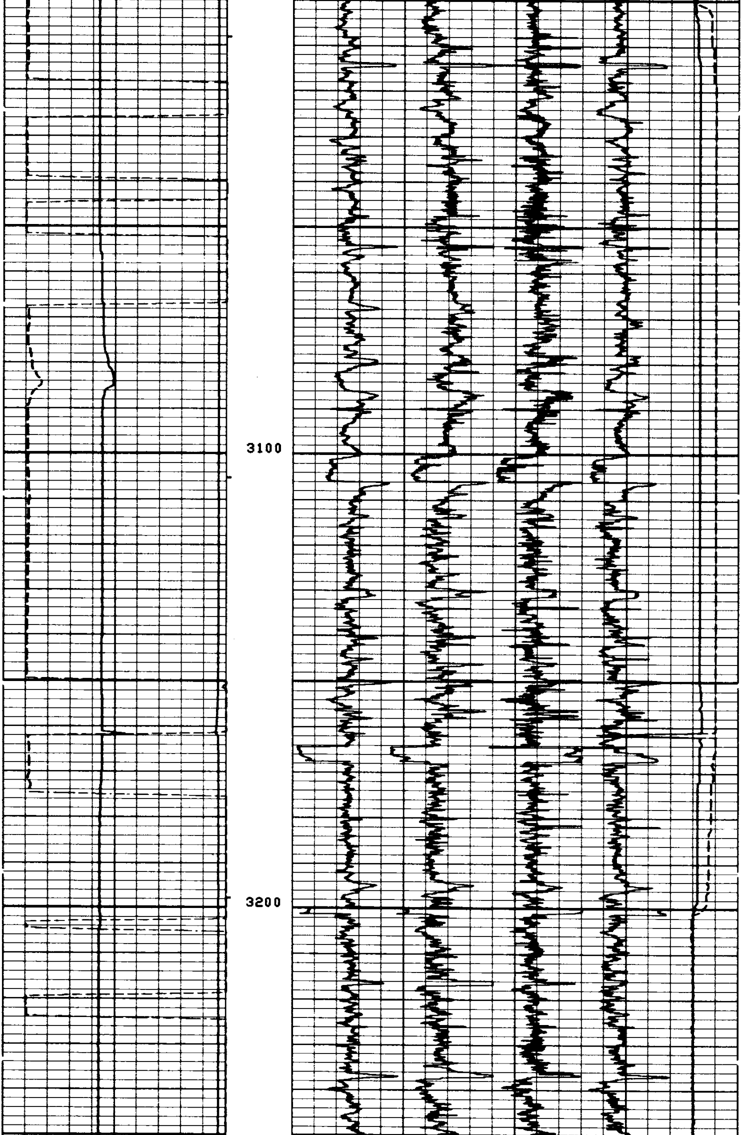


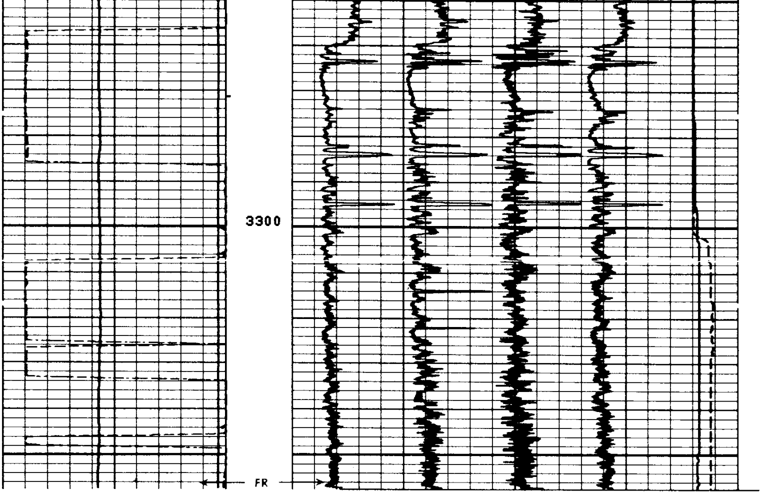




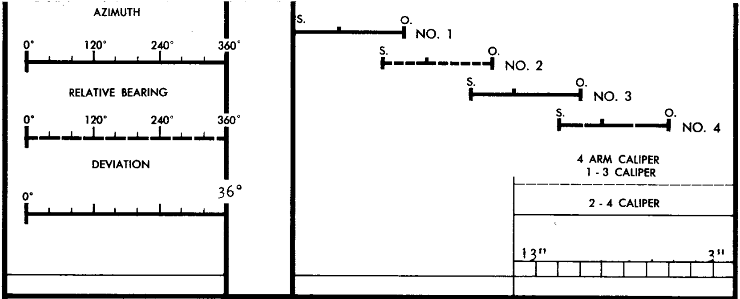








3
3


AZIMUTH
0°
120°
240°
360°
RELATIVE BEARING
0°
120°
240°
360°
DEVIATION
0°
36°
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
13"
3"

ORIENTATION

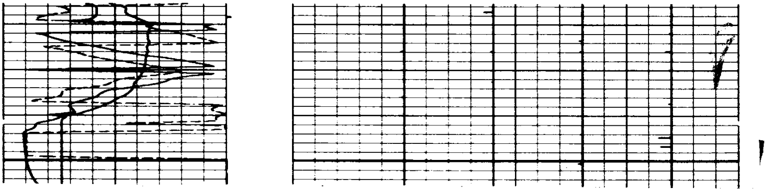
DEPTHS

CORRELATION CURVES

← CONDUCTIVITY

CALIBRATION RECORD

9
9



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                 BEFORE SURVEY CALIBRATION SUMMARY

    PERFORMED:      80/03/14
    PROGRAM FILE:   HDT    (VERSION    14.4    79/09/05)

   HDT                 CALIPER CALIBRATION SUMMARY

              MEASURED                      CALIBRATED
           SMALL   LARGE                 SMALL      LARGE       UNITS
      C1    7.0    13.4                   6.0        12.0        IN
      C2    7.1    13.5                   6.0        12.0        IN
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COUNTY COLUMBIA STATE OREGON