GL04390

Schlumberger

FOUR – ARM HIGH RESOLUTION
CONTINUOUS DIPMETER

COUNT[redacted]
FIELD
LOCATI
WELL BEOWAWE 85-18
COMPANY CHEVRON U.S.A., INC.

COMPANY CHEVRON U.S.A., INC.
WELL BEOWAWE 85-18
FIELD BEOWAWE GEYSERS
COUNTY LANDER **STATE** NEVADA

LOCATION 2960'SOUTH & 80'WEST FROM THE NORTHEAST 1/4 OF

API SERIAL NO.	SEC.	TWP	RANGE
	18	31N	48E

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

Permanent Datum: GL ; Elev.: 4920
Log Measured From KB 15 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 4935
D.F. – –
G.L. 4920

Date	5-11-80			
Run No.	TWO			
Depth—Driller	4543			
Depth—Logger (Schl.)	4543			
Btm. Log Interval	4318			
Top Log Interval	2937			
Casing—Driller	9 5/8" @ 2937	@	@	@
Casing—Logger	2937			
Bit Size	8 3/4"			
Type Fluid in Hole	GEL			
Dens. | Visc.	8.9 | 43			
pH | Fluid Loss	9.4 | 8 ml	ml	ml	ml
Source of Sample	CIRCULATED			
Rm @ Meas. Temp.	4.5 @ 52 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	4.68 @ 48 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	3.16 @ 58 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | M			
Rm @ BHT	1.07 @ 240°F	@ °F	@ °F	@ °F
TIME Circulation Stopped	5-9 1830			
TIME Logger on Bottom	5-11 1300			
Max. Rec. Temp.	240 °F	°F	°F	°F
Equip. | Location	7763 | SAC			
Recorded By	ANDERSEN			
Witnessed By Mr.	IOVENETTI			

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

REMARKS: Service Order No. 123994 Magnetic Declination
HYDRALIC COMPENSATOR RUPTURED OPENING SONDE. RAN LOG WITHOUT PAD PRESSURE.

Run No.		1	2	3	4
Tool Type		HDT			
HDP		CSU			
DDR	TTR	– –			
DPI		– –			
HDM					
HDE					
HDS					
Adapter Head					
UG | CG | SAH					
5" Film | 10" Film | 60"Record		X			
Analog | Digital		X			
TIME Circulation Stopped		5-9 1830			
TIME Schl. on Bottom		5-11 1300			

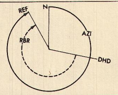
ROLL NO.	INTERVAL

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.

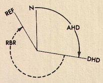
DEFINITIONS

(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.


REF
N
AZI
RBR
DHD

LOW ANGLE UNIT ☒

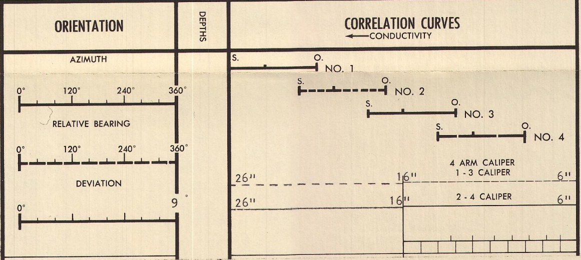
EXAMPLE
HDM - Low Angle Unit (0-36°)
AZI (solid curve) = 330°
RBR (dotted curve) = 230°
AHD = AZI − RBR = 330° − 230° = 100°

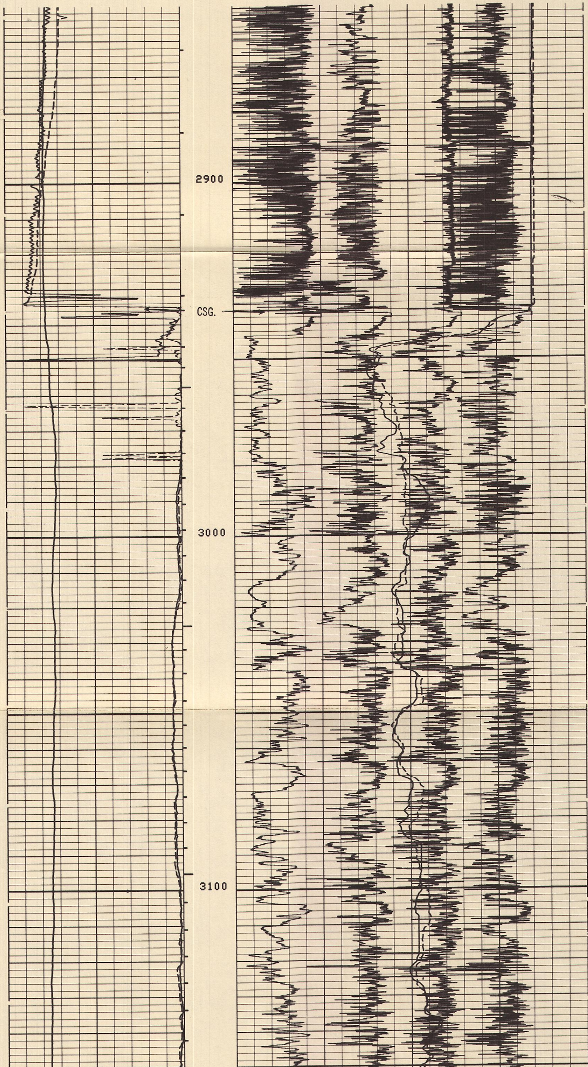

REF
N
AHD
RBR
DHD

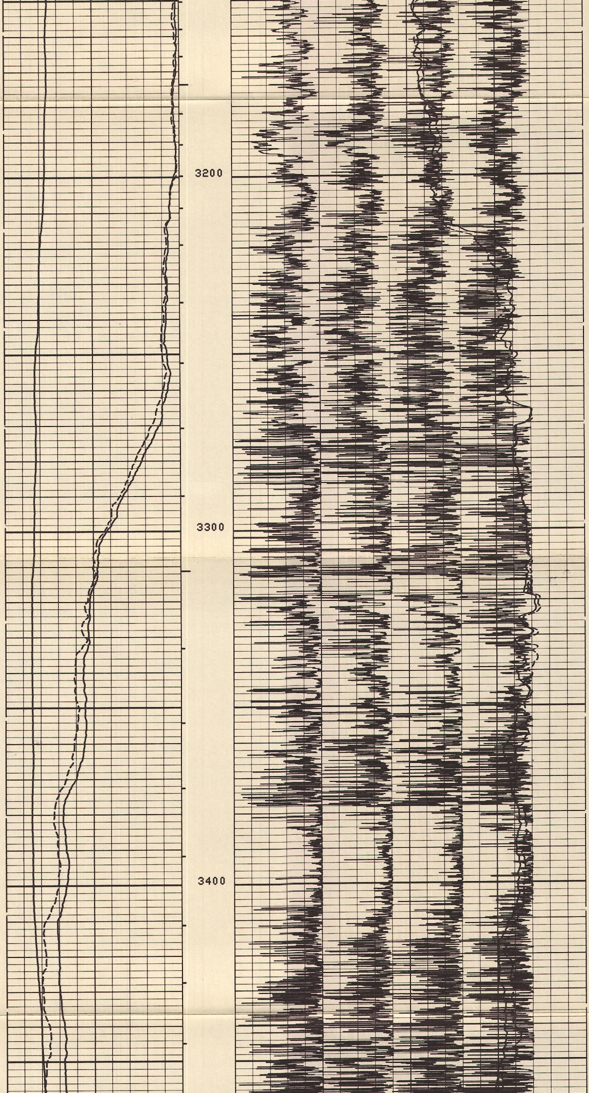
HIGH ANGLE UNIT ☐

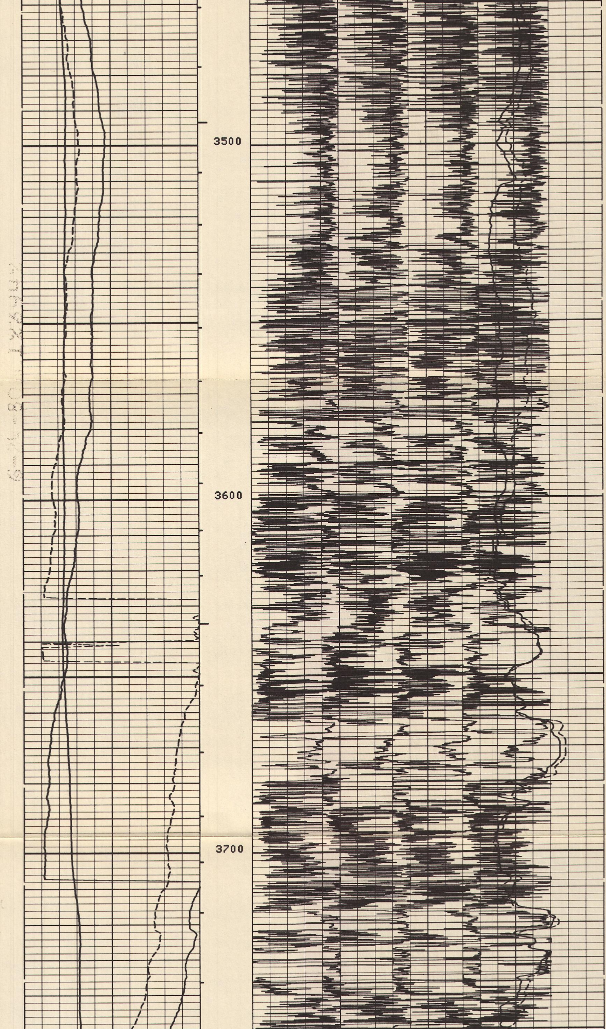
EXAMPLE
HDM - High Angle Unit (0-72°)
AHD (solid curve) = 100°
RBR (dotted curve) = 230°
AZI = AHD + RBR = 100° + 230° = 330°

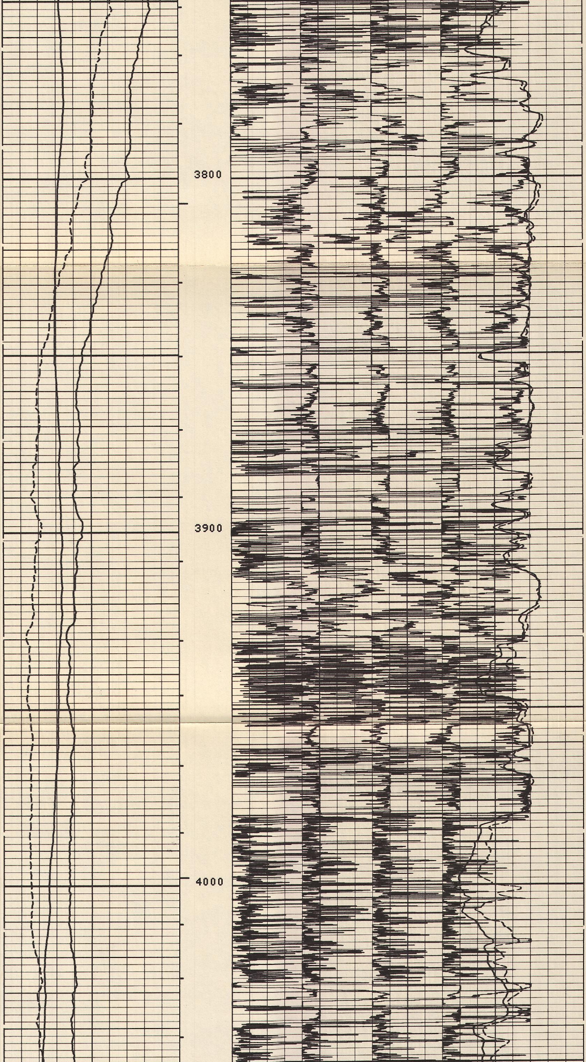
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

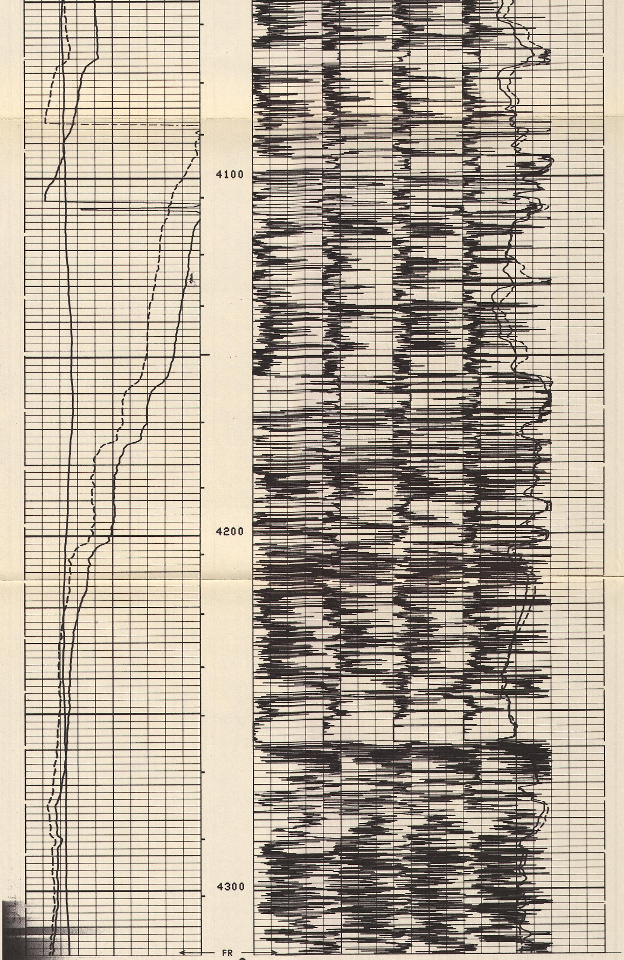

ORIENTATION
DEPTHS
CORRELATION CURVES
←CONDUCTIVITY
AZIMUTH
0°
120°
240°
360°
RELATIVE BEARING
0°
120°
240°
360°
DEVIATION
0°
9°
S.
O.
NO. 1
S.
O.
NO. 2
S.
O.
NO. 3
S.
O.
NO. 4
4 ARM CALIPER
1 - 3 CALIPER
26"
16"
6"
2 - 4 CALIPER
26"
16"
6"











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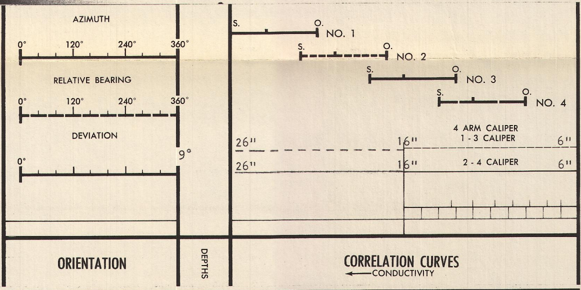
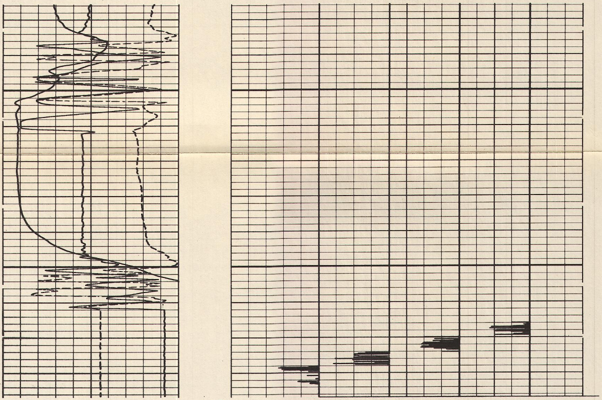

AZIMUTH
0°
120°
240°
360°
RELATIVE BEARING
0°
120°
240°
360°
DEVIATION
0°
9°
S.
O.
NO. 1
S.
O.
NO. 2
S.
O.
NO. 3
S.
O.
NO. 4
4 ARM CALIPER
1 - 3 CALIPER
26"
16"
6"
2 - 4 CALIPER
26"
16"
6"
ORIENTATION
DEPTHS
CORRELATION CURVES
CONDUCTIVITY

CALIBRATION BEFORE SURVEY

3
3



3
3
3
3
3
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
DO		0.0	BHS		OPEN	FPHI		PHIX
STYP		STAN	MCT	DEG	36	BS	INCH	8.750

2
2
2
2
2
2

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                 BEFORE SURVEY CALIBRATION SUMMARY

      PERFORMED:      80/05/10
      PROGRAM FILE:   HDT    (VERSION    16.4    00/00/00)

     HDT              CALIPER CALIBRATION SUMMARY

              MEASURED                        CALIBRATED
            SMALL   LARGE                SMALL      LARGE        UNITS
      C1     6.9    13.4                  6.0       12.0          IN
      C2     6.8    13.4                  6.0       12.0          IN
                        2
                        2
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COMPANY CHEVRON U.S.A., INC.

WELL BEOWAWE 85-18

FIELD BEOWAWE GEYSERS

COUNTY LANDER STATE NEVADA

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