CC 44-04-65

COUNTY COLUMBIA
FIELD or LOCATION 4-6N-5W
WELL NO. 44-4
COMPANY REICHHOLD ENERGY

Schlumberger

FOUR — ARM HIGH RESOLUTION CONTINUOUS DIPMETER
(COMPUTED)

COMPANY REICHHOLD ENERGY CORPORATION
WELL COLUMBIA NO. 44-4
FIELD MIST NEHALEM BASIN
COUNTY COLUMBIA STATE OREGON

LOCATION: 1304' NORTH & 313' WEST FROM THE SOUTHEAST CORNER OF:
Sec. 4 Twp. 6N Rge. 5W

Other Services:
DI-SFL
BHC

Permanent Datum: GL, Elev. 1063.76
Log Measured From KB, 10.5 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 1074.26
D.F. --
G.L. 1063.76

RECEIVED-PTLD
JUL 10 1980
DEPT OF GEOLOGY & MINERAL INDUS

Date	5-26-80			
Run No.	ONE			
Depth—Driller	3060			
Depth—Logger	3060			
Btm. Log Interval	3060			
Top Log Interval	406			
Casing—Driller	7" @ 407	@	@	@
Casing—Logger	406			
Bit Size	6¼"			
Type Fluid in Hole	LIGNOSULFONATE			
Dens. | Visc.	69 | 43			
pH | Fluid Loss	9.5 | -- ml	ml	ml	ml
Source of Sample	FLOWLINE			
R_m @ Meas. Temp.	5.16 @ 50 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	5.51 @ 52 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	3.66 @ 52 °F	@ °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	M | M			
R_m @ BHT	3.06 @ 89 °F	@ °F	@ °F	@ °F
Time Since Circ.	14½ HOURS			
Max. Rec. Temp.	89 °F	°F	°F	°F
Equip. | Location	8126 | SAC			
Recorded By	LINDGREN/CLAGUE			
Witnessed By	BRUER			

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

Changes in Mud Type or Additional Samples				
Date | Sample No.				
Depth—Driller				
Type Fluid in Hole				
Dens. | Visc.				
ph | Fluid Loss		ml		
Source of Sample				
R_m @ Meas. Temp.	@	°F	@	°F
R_{mf} @ Meas. Temp.	@	°F	@	°F
R_{mc} @ Meas. Temp.	@	°F	@	°F
Source: R_{mf} | R_{mc}				
R_m @ BHT	@	°F	@	°F
R_{mf} @ BHT	@	°F	@	°F
R_{mc} @ BHT	@	°F	@	°F

Run No.	1	2	3	4
Tool Type	HDT-D			
HDM No.	1726			
Magnetic Declination	21°			
Analog Panel No.	--			
Digital Panel No.	DAM 752			
Correlated By	--			
Computed By	PCDCC			
Plotted By	PCDCC			
Remarks —	SERVICE ORDER NO. 123914			

"Any directional computations made from the dipmeter log must be regarded as approximate only. This is because the dipmeter log indicates the orientation of the instrument itself, rather than the direction and amount of the wall drift. Therefore, we do not and cannot guarantee the accuracy of such directional computations, and we shall not, except in the case of willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained that may result from any such computations."

TABLE OF VERTICAL DISPLACEMENT IN FEET CORRESPONDING TO VARIOUS HORIZONTAL DISTANCES AND ANGLES OF DIP

DIP ANGLES (degrees)	VERTICAL DISPLACEMENT FOR HORIZONTAL DISTANCES OF 100′	1000′	1 mile (5280′)	DIP ANGLES (degrees)	VERTICAL DISPLACEMENT FOR HORIZONTAL DISTANCES OF 100′	1000′	1 mile (5280′)
1	1.75	17.5	92.2	19	34.4	344.	1818.
2	3.5	35.	184.	20	36.4	364.	1922.
3	5.2	52.	277.	21	38.4	384.	2027.
4	7.0	70.	369.	22	40.4	404.	2133.
5	8.8	88.	462.	23	42.5	425.	2241.
6	10.5	105.	555.	24	44.5	445.	2351.
7	12.3	123.	648.	25	46.6	466.	2462.
8	14.1	141.	742.	30	57.7	577.	3048.
9	15.8	158.	836.	35	70.0	700.	3697.
10	17.6	176.	931.	40	83.9	839.	4430.
11	19.4	194.	1026.	45	100.0	1000.	5280.
12	21.3	213.	1122.	50	119.2	1192.	6293.
13	23.1	231.	1219.	55	142.8	1428.	7540.
14	24.9	249.	1316.	60	173.2	1732.	9145.
15	26.8	268.	1415.	65	214.4	2144.	11323.
16	28.7	287.	1514.	70	274.8	2748.	14507.
17	30.6	306.	1614.	75	373.2	3732.	19705.
18	32.5	325.	1716.	80	567.1	5671.	29945.

To obtain vertical displacements corresponding to multiples of hundreds feet, thousands of feet or miles, multiply the number found in the table by the number of hundreds, thousands or miles.

Example: The formation dip is 16 degrees. The vertical displacement occurring at a spot 660 feet away from the well is desired. The table shows 28.7 feet per 100 feet for 16° dip. Therefore 28.7 x 6.60 = 189.42, or 189. feet.

N

GRAPHIC PRESENTATION

CORRELATION CURVE	DEPTHS	TRUE DIP ANGLE AND DIRECTION	DRIFT & DIRECTION OF SONDE
		0° 10° 20° 30° 40° 50° 60° 70° 80° 90°	0° 10°

5.8 [illegible] 129140

REICHHOLD ENERGY CORP.
COLUMBIA #44-4
MIST-NEHALEM FIELD
COLUMBIA COUNTY, OREGON
RUN NO. ONE 26-MAY-80
P.C.D.C.
ARROW PLOT FROM CLUSTER PROGRAM

CORRELATION LENGTH 4 FT.
STEP LENGTH 2 FT.
SEARCH ANGLE 30 DEGREES X2
HDT-G CSU PDP/11

JOB 4417.00

SCHLUMBERGER

FOOT DUO-DECIM

DIPMETER ARROW PLOT

SCHLUMBERGER

CORRELATION CURVE	DEPTHS	DIP ANGLE AND DIRECTION	BOREHOLE DRIFT
		0 10 20 30 40 50 60 70 80 90	0 10

POOLED ARROW PLOT

2 LEVELS POOLED WHEN WITHIN

3.5 DEGREES SOLID ANGLE

BLACK ARROWS ARE POOLED RESULTS

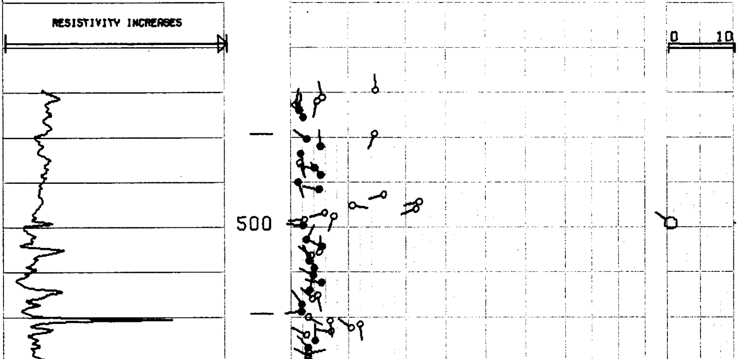
CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 30 DEGREES X2

PC0130023518307001020420

ZONE FROM 426 TO 3047



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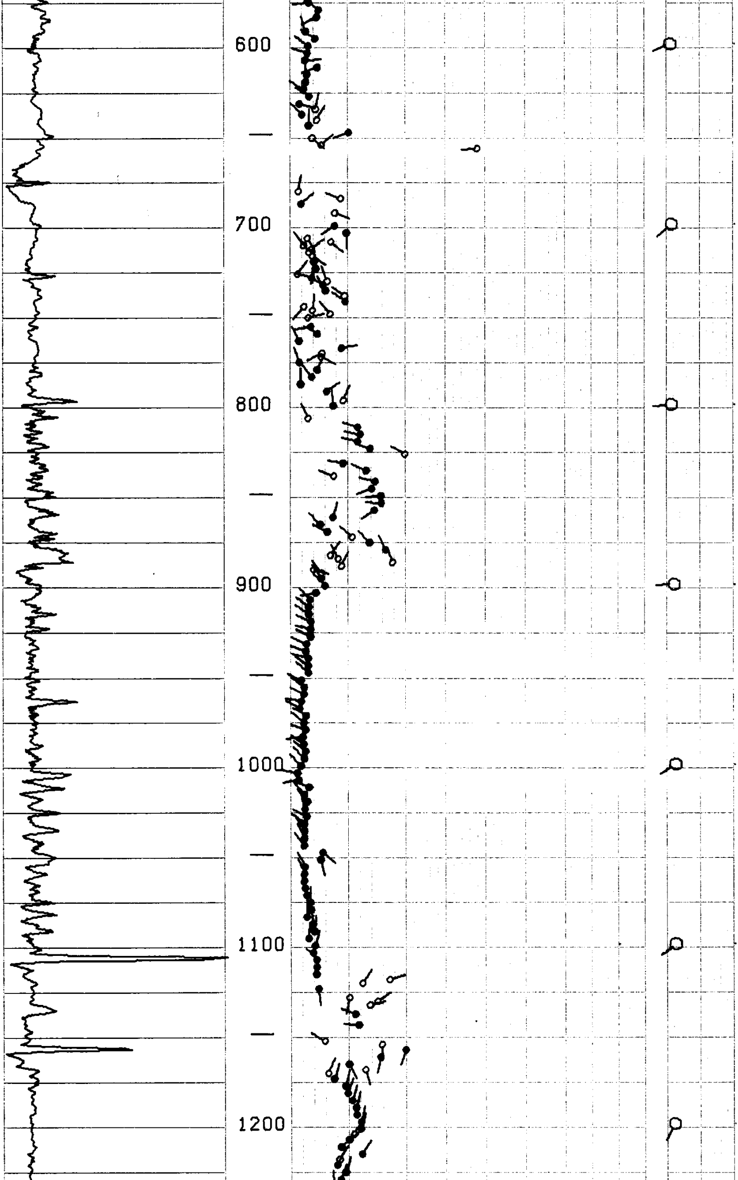
FOOT DUO-DECI



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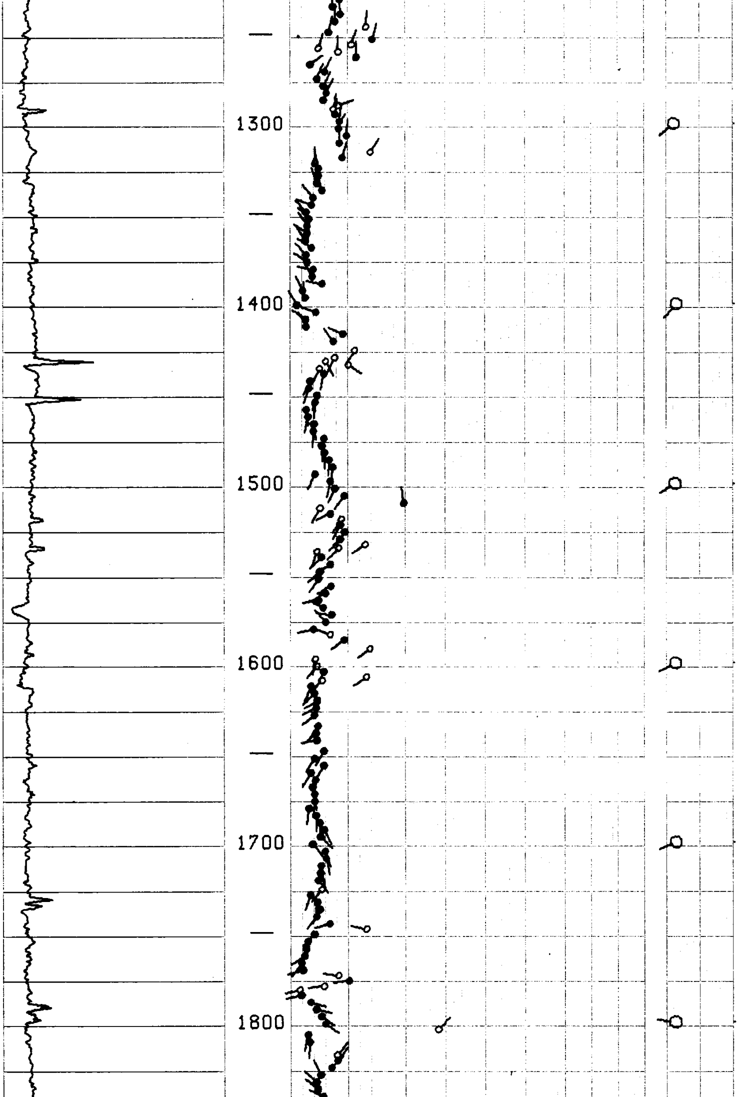
ARROW PLOT

SCHLUMBERGER DIPMETER A



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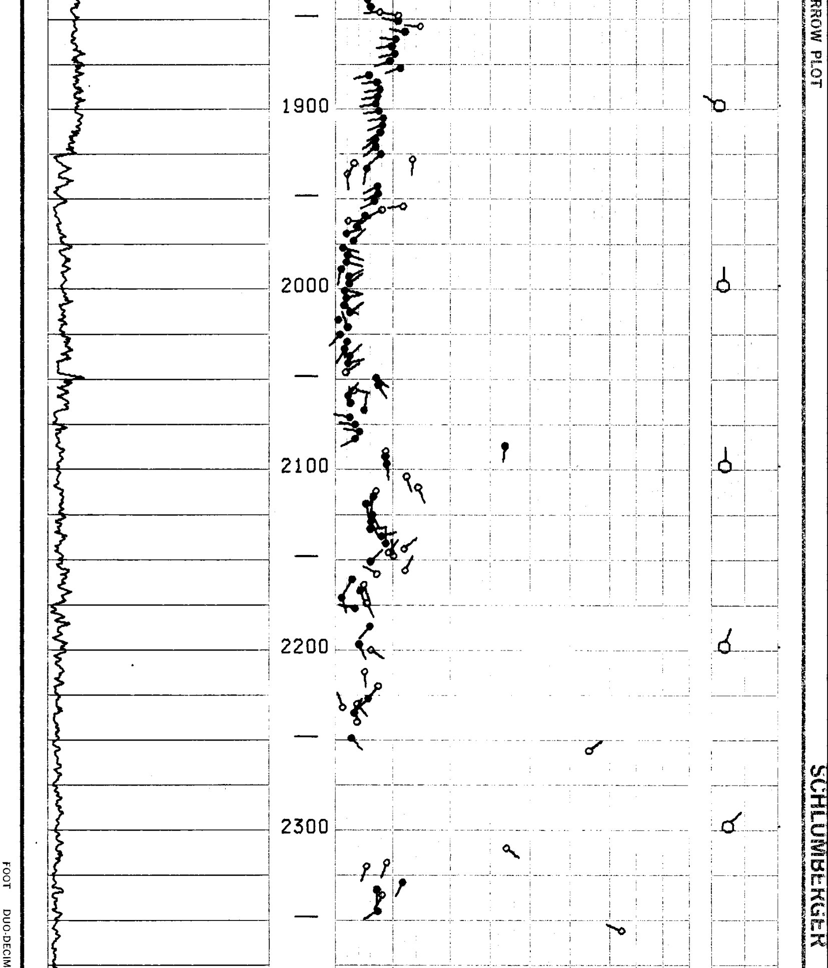
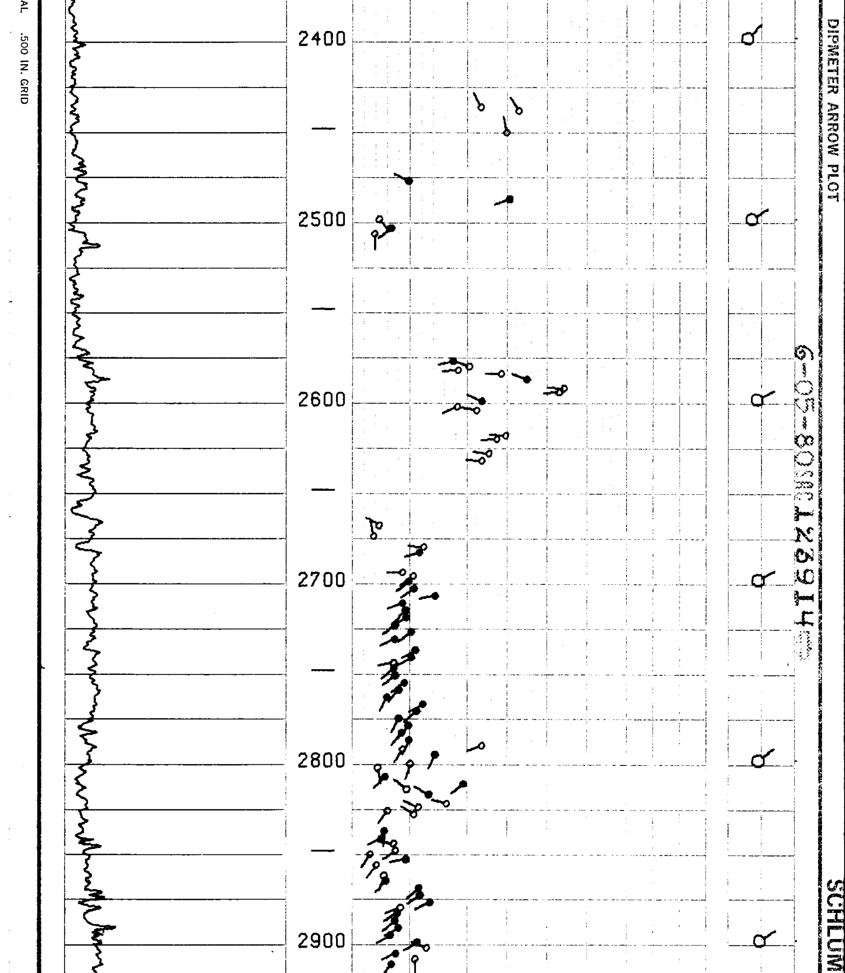
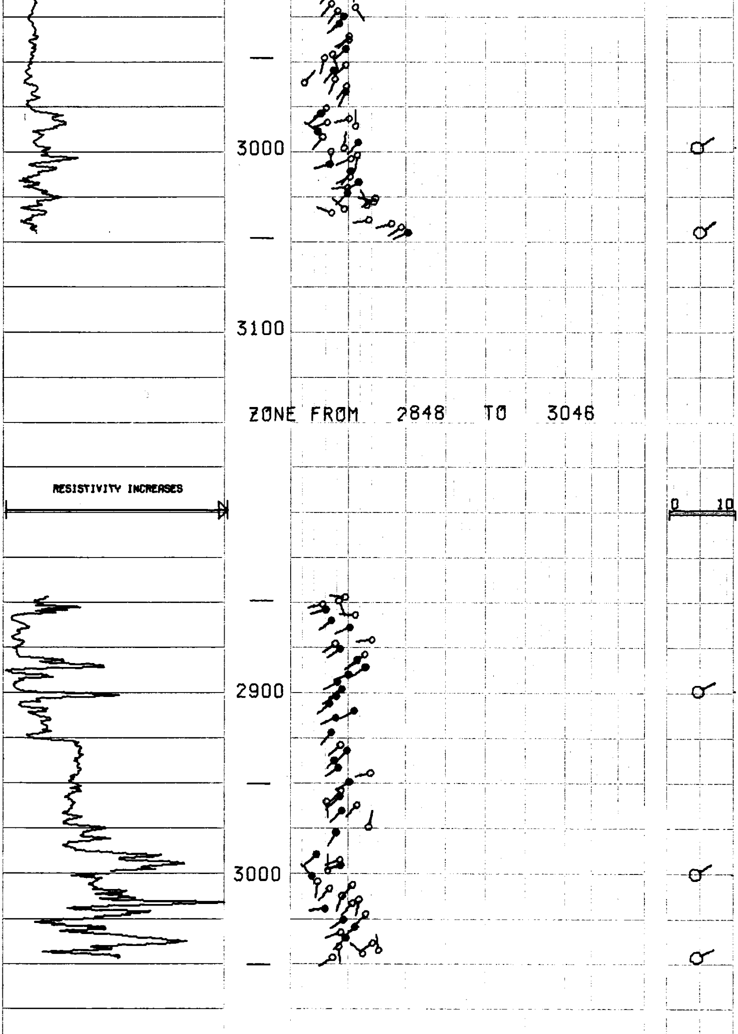




BERGER DIPMETER ARROW PLOT SCH



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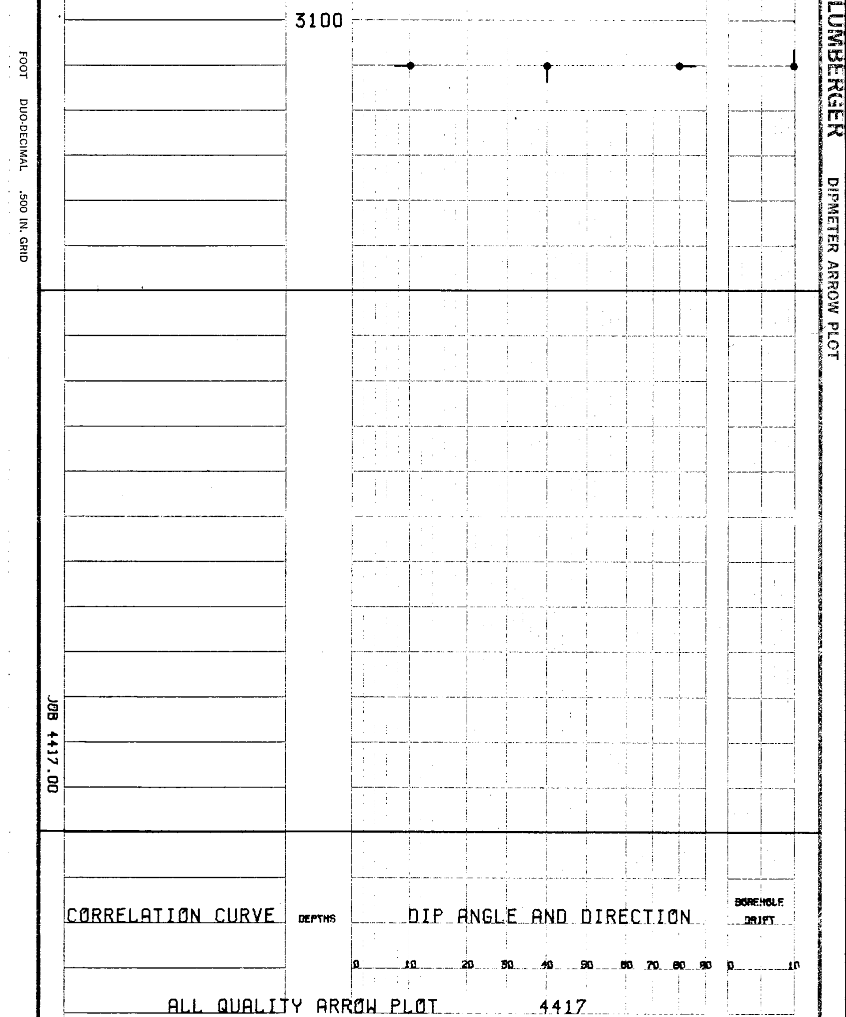


SCHLUMBERGER DIPMETER ARROW PLOT

FOOT DUO-DECIMAL .500 IN. GRID

FROM THE CLUSTER PROGRAM

BLACK ARROWS ARE HIGHEST QUALITY

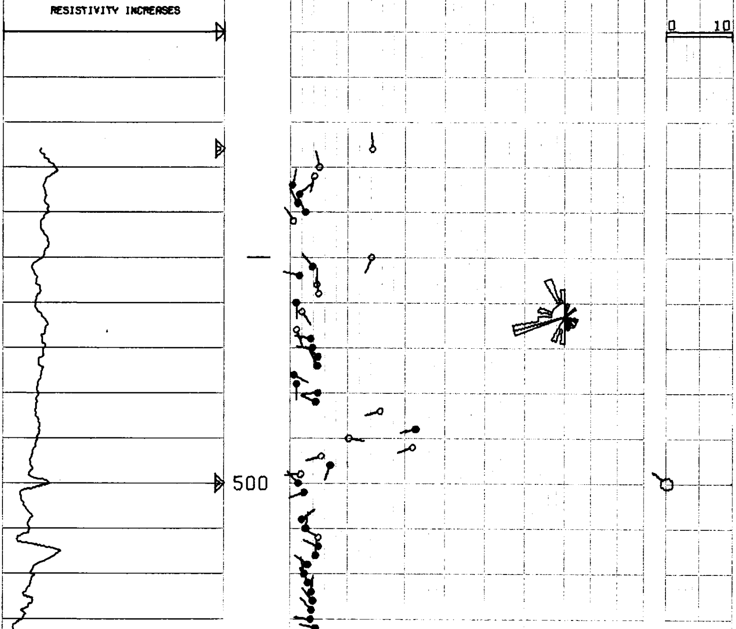
CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 30 DEGREES X2

PC0130023518307001020420

ZONE FROM 426 TO 3048



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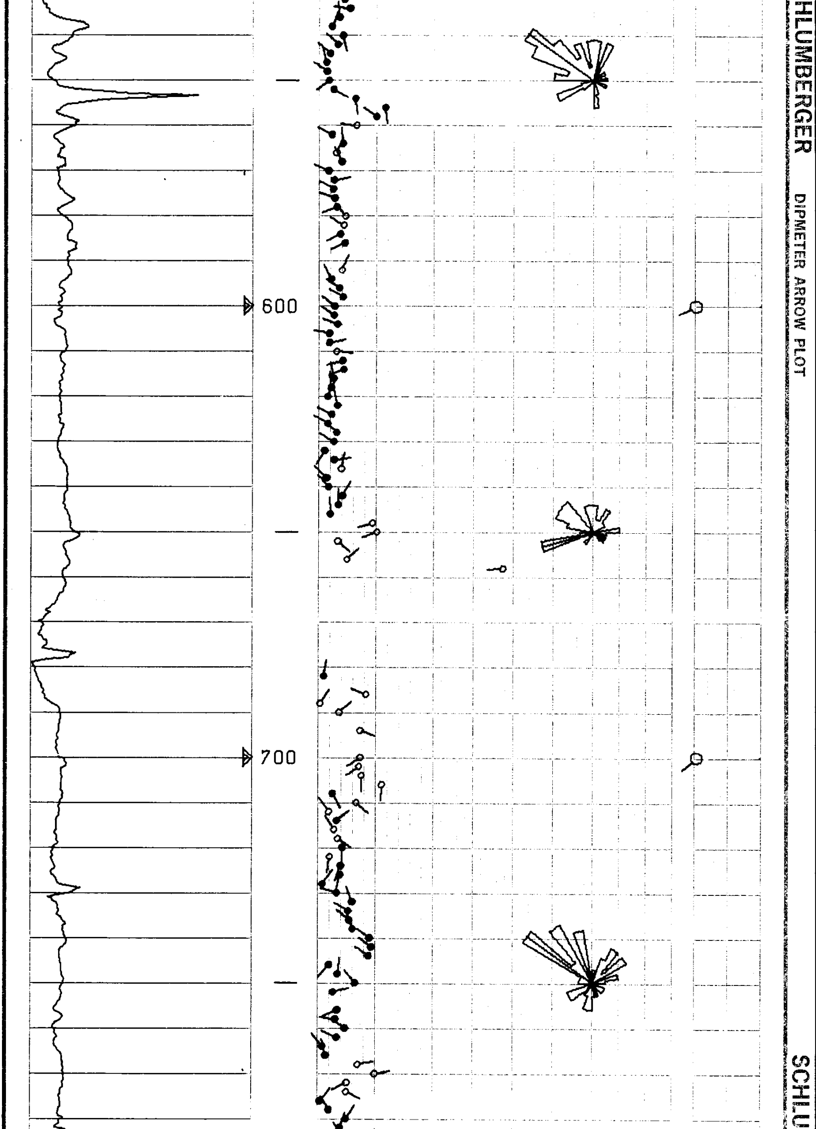
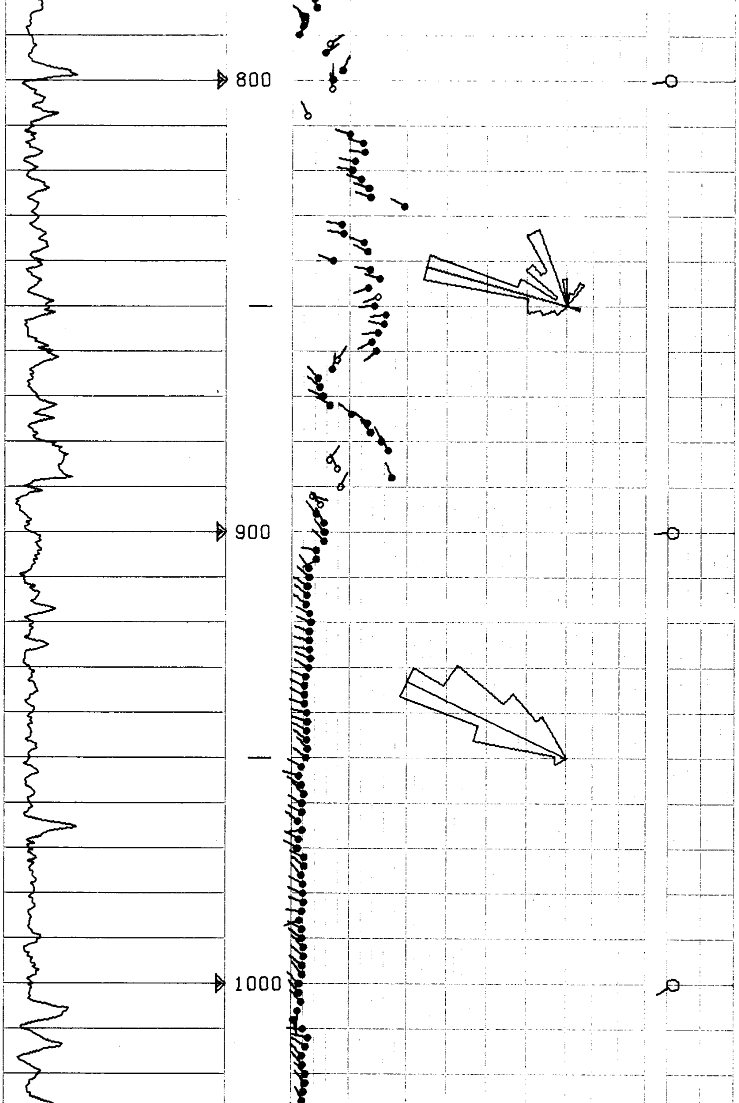


MBERGER DIPMETER ARROW PLOT SCHLUM

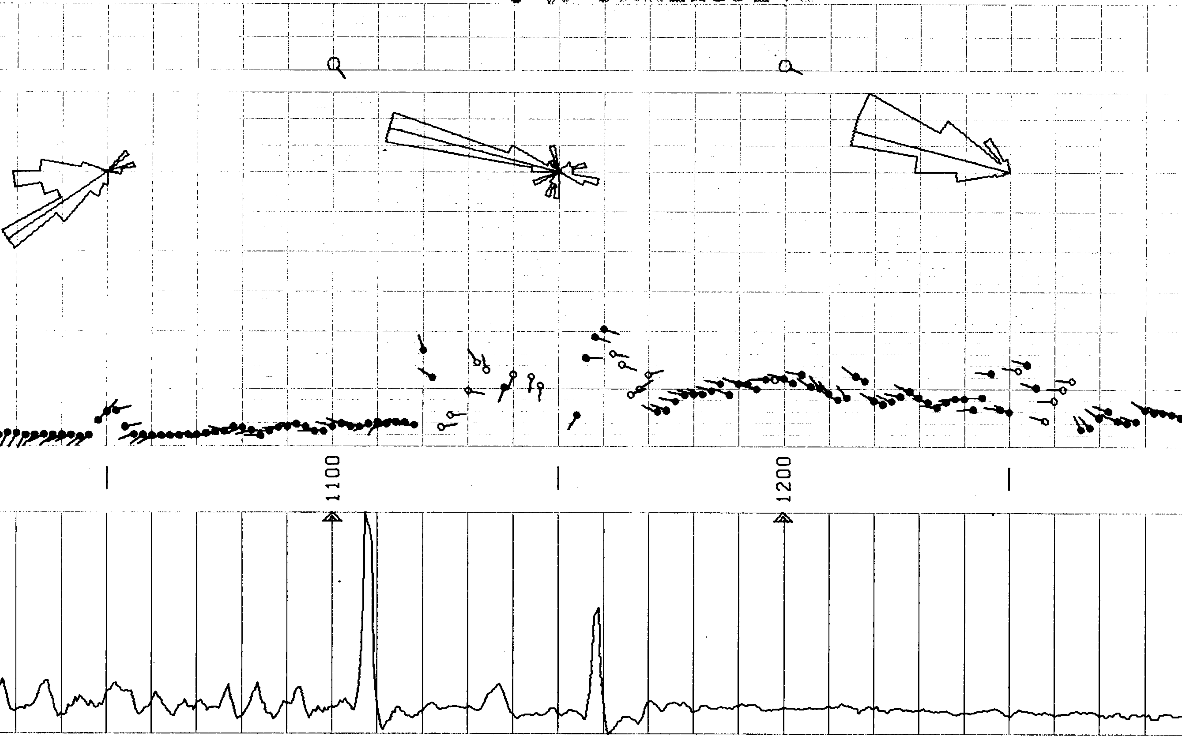


FOOT DUO-DECIMAL .500 IN. GRID

BERGER DIPMETER ARROW PLOT

SCHLUMBERGER

6-05-80SAC123914

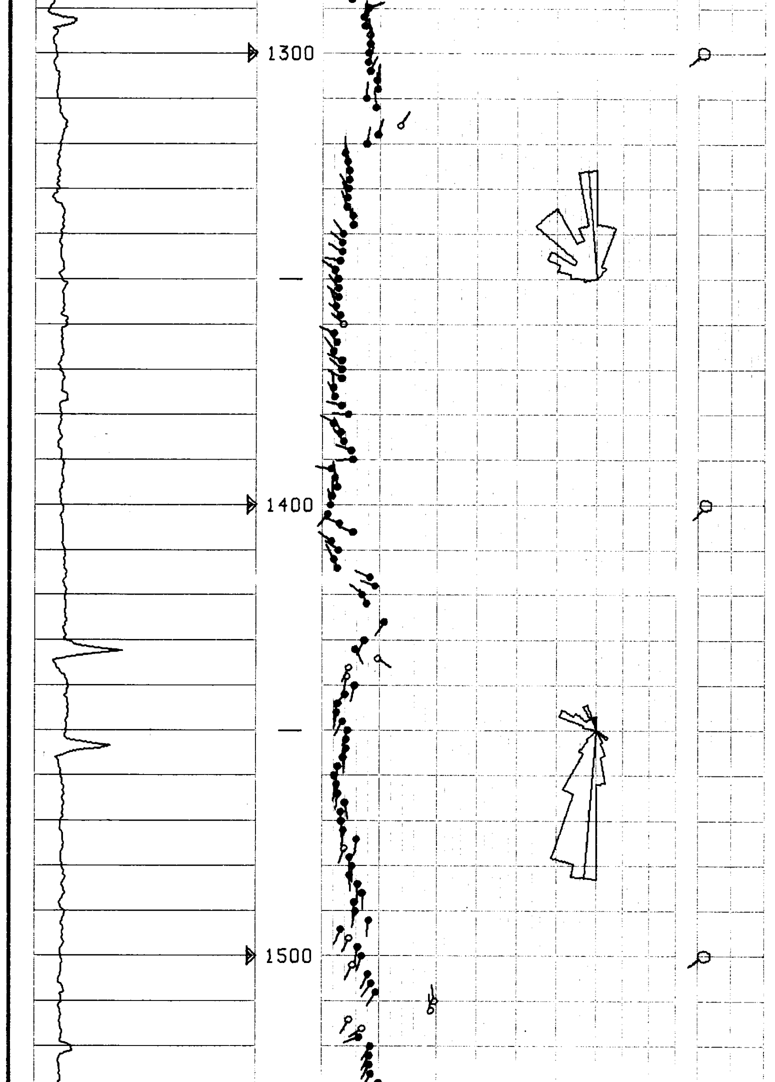


FOOT DUO-DECIMAL .500 IN. GRID

FOOT DUO-DEC

DIPMETER ARROW PLOT

SCHLUMBERGER

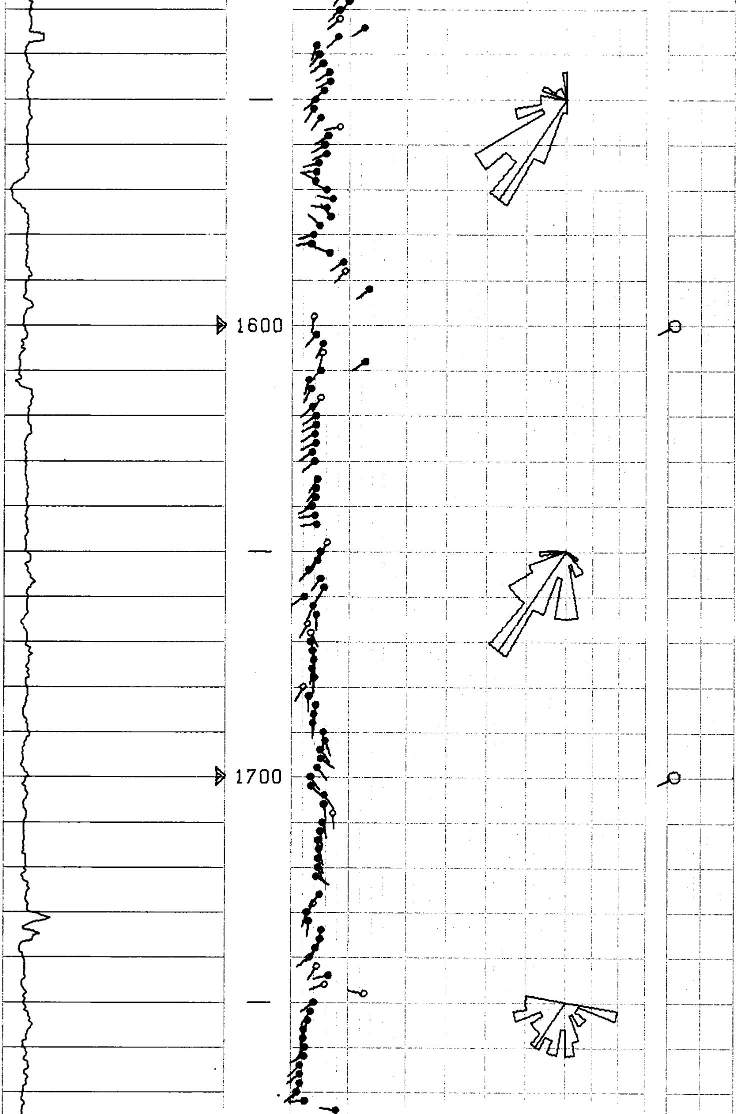


IMAL .500 IN. GRID

FOOT DUO-DEC

DIPMETER ARROW PLOT

SCHLUMBERGER



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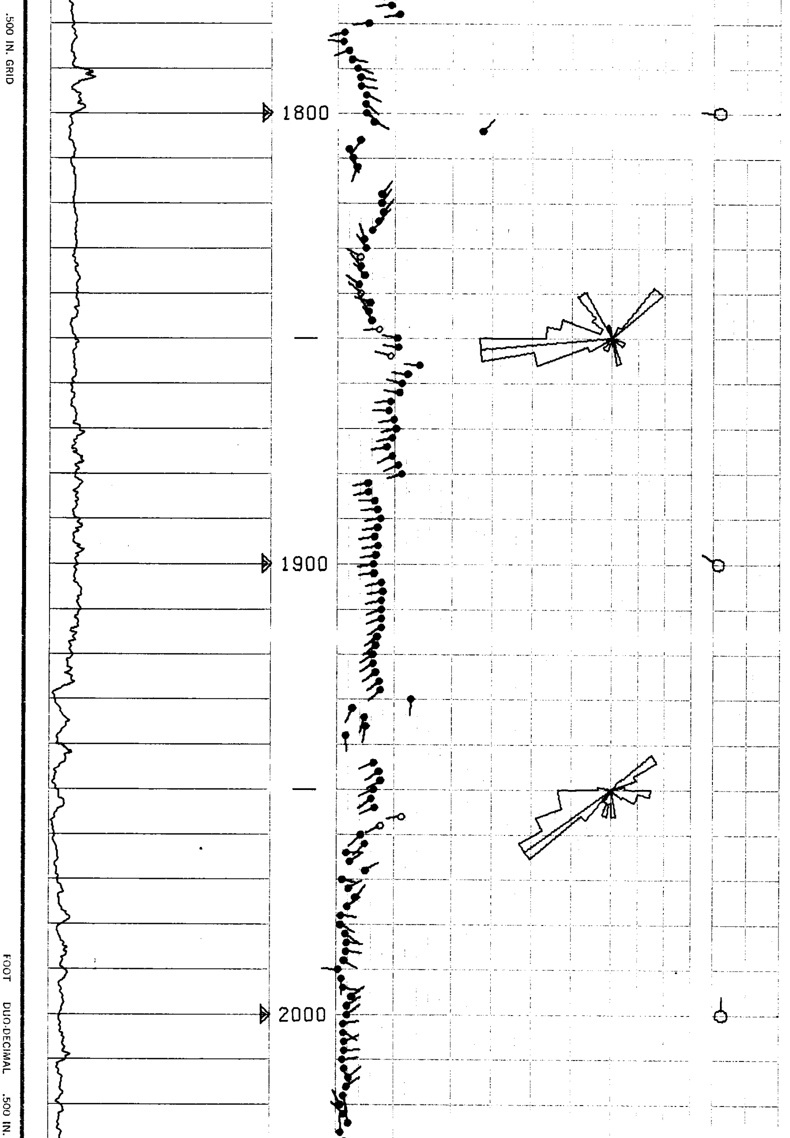
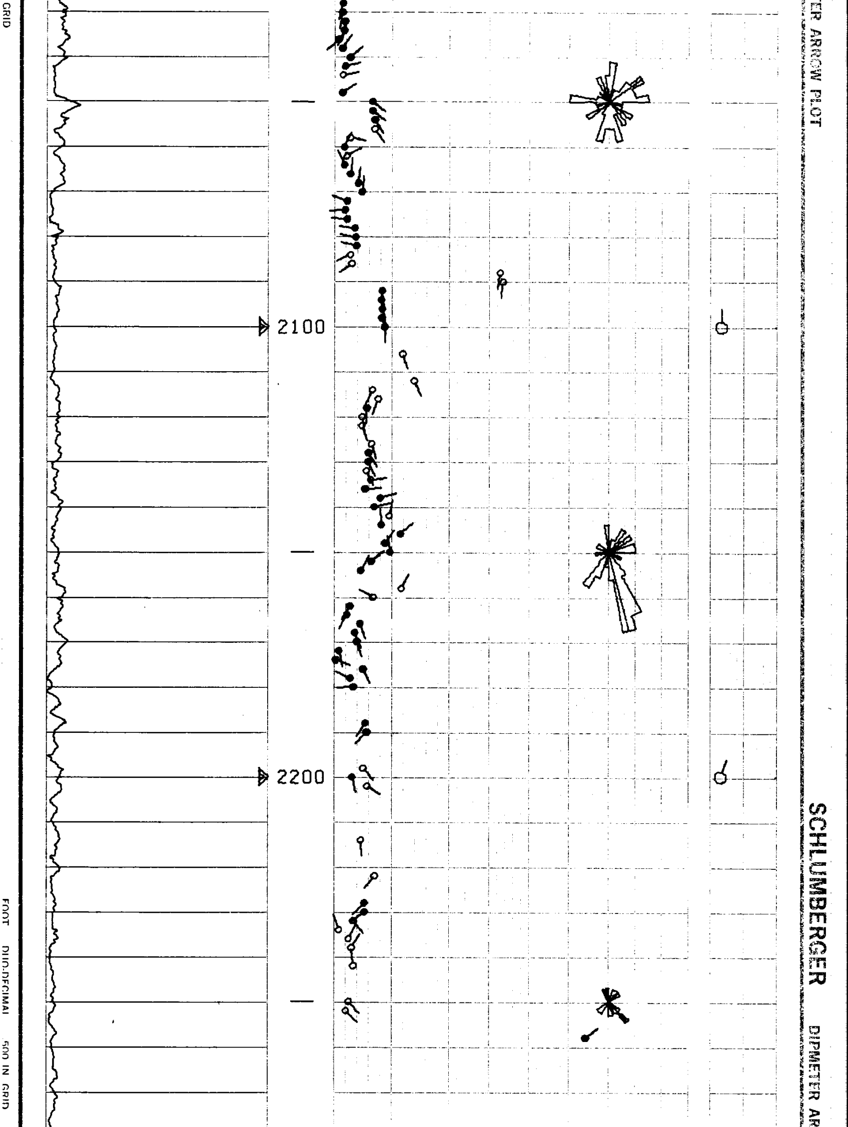
FOOT DUO-DECIMAL

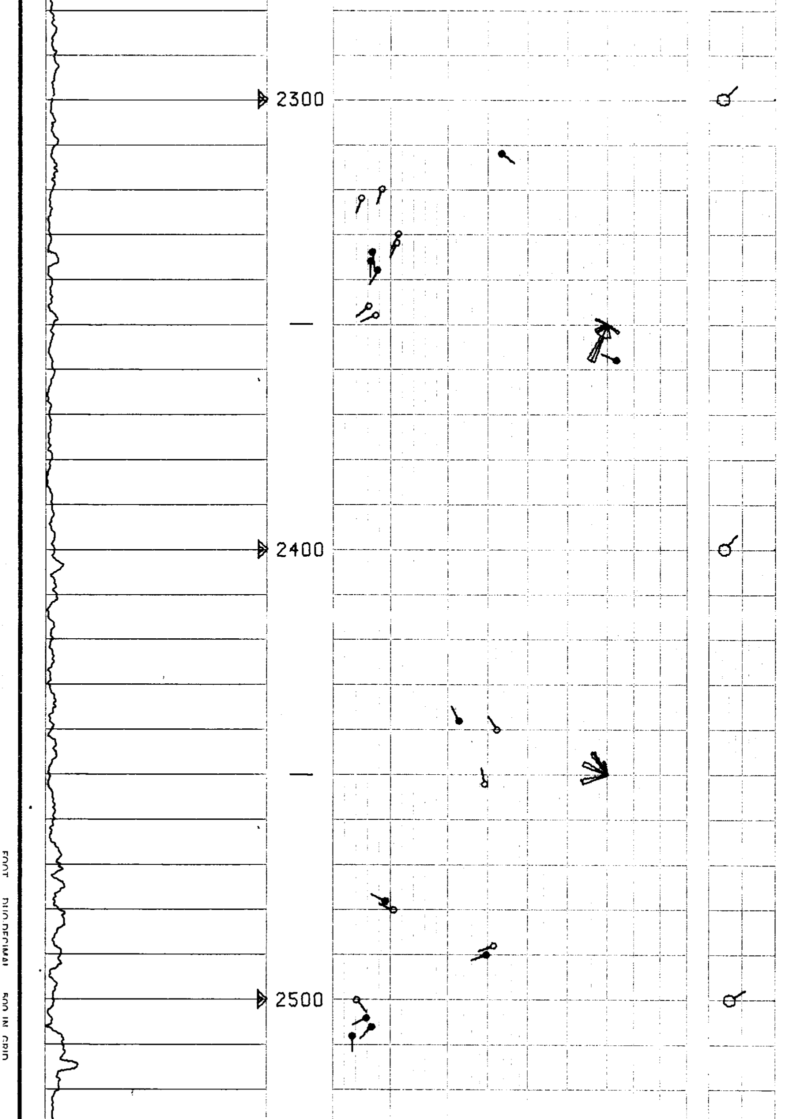
DIPMETER ARROW PLOT

SCHLUMBERGER DIPMET



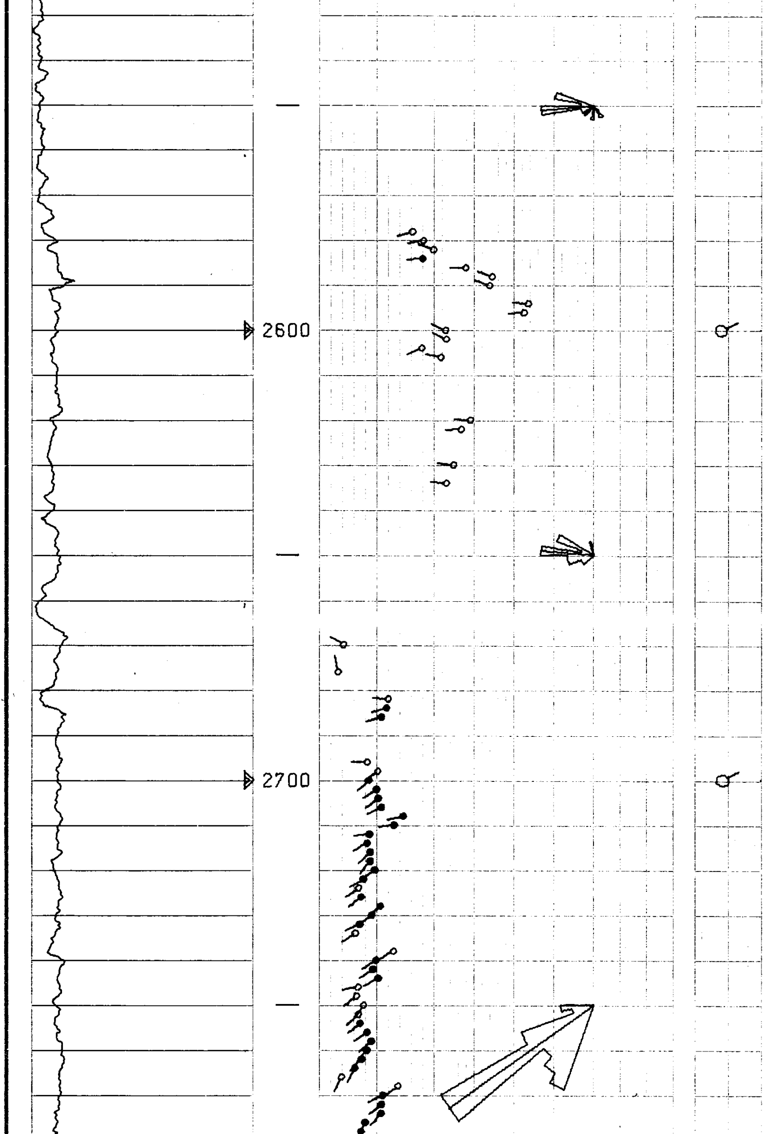


SCHLUMBERGER · DIPMETER ARROW PLOT



PLOT

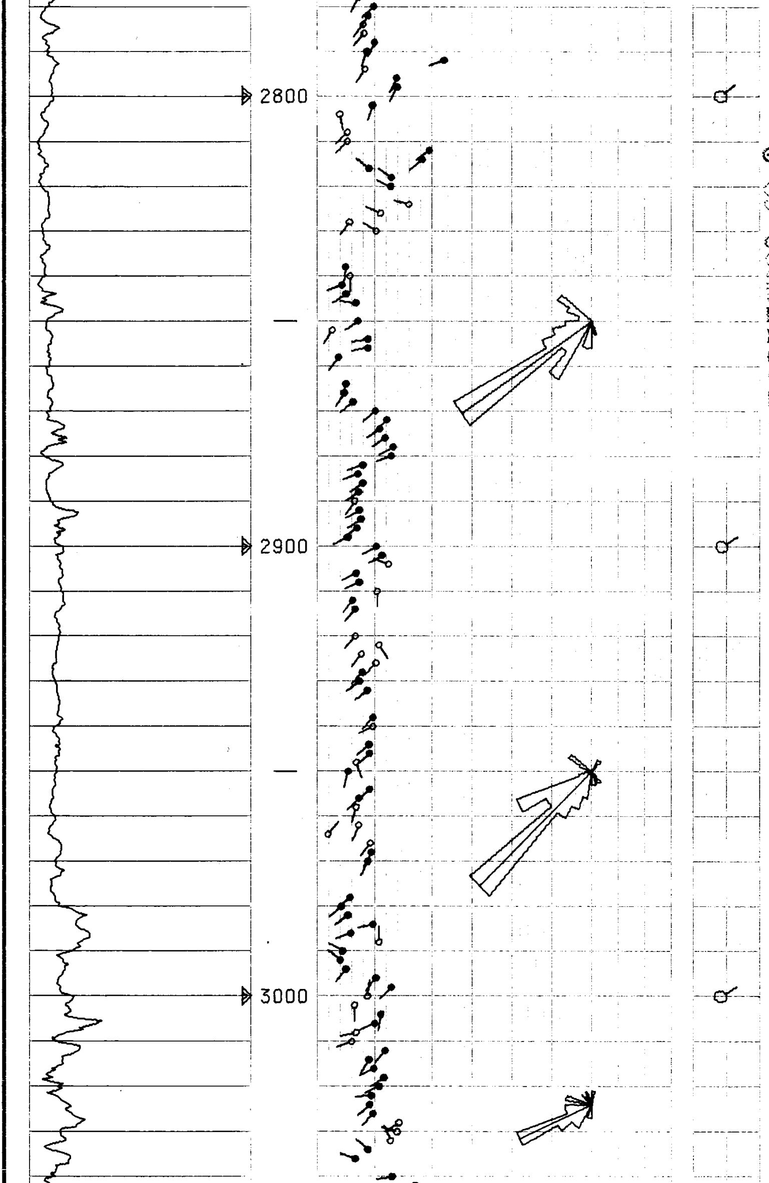
SCHLUMBERGER DIPMETER ARROW PLOT

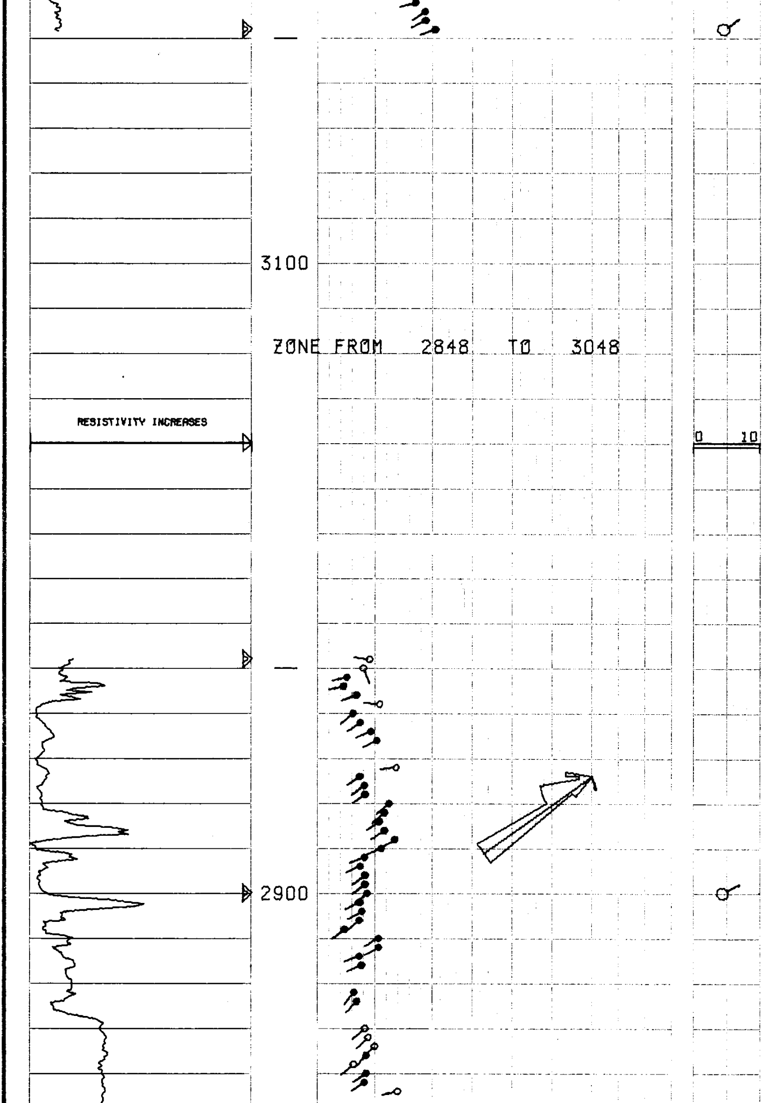


SCHLUMBERGER

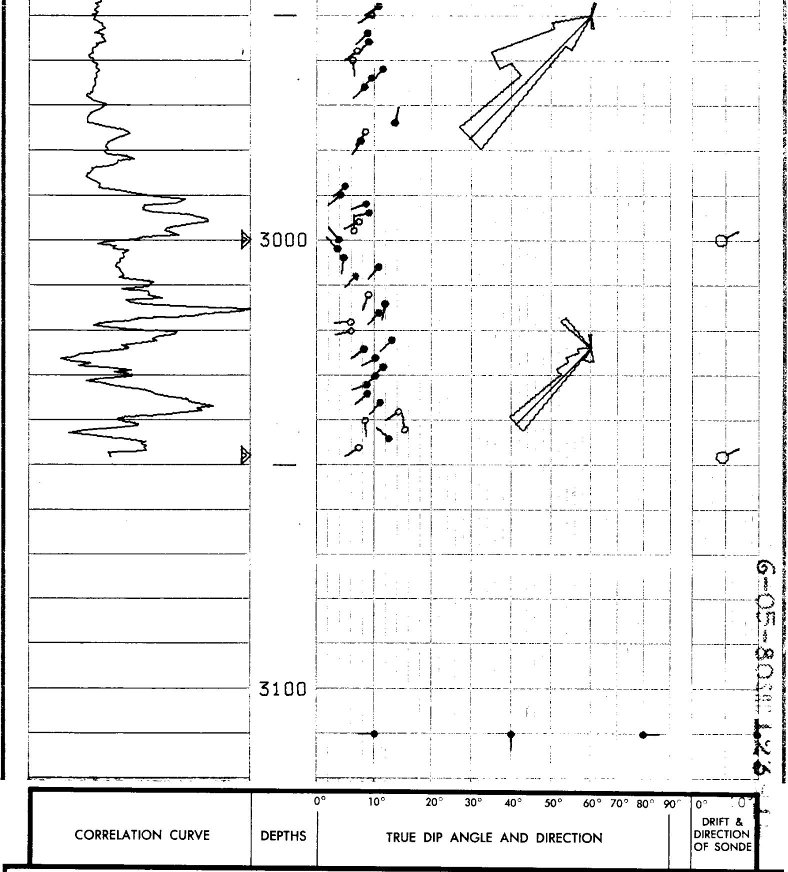
DIPMETER ARROW PLOT

6-05-08SW1 23914





SCHLUMBERGER DIPMETER ARROW PLOT



COMPANY REICHHOLD ENERGY CORPORATION
WELL COLUMBIA NO. 44-4
FIELD MIST NEHALEM BASIN
COUNTY COLUMBIA STATE OREGON

Rm 5.16 @ 50 °F
Rmf 5.51 @ 52 °F
Rmc 3.66 @ 52 °F
BHT 89 °F

SCHL. FR 3060
SCHL. TD 3060
DRLR TD 3060
Elev:
KB 1074.26
DF --
GL 1063.76