CC 32-33-75 + RD 1

Schlumberger

FOUR – ARM HIGH RESOLUTION CONTINUOUS DIPMETER
(COMPUTED)

COUNTY COLUMBIA
FIELD or LOCATION 33-7N-5W, WB&M
WELL COLUMBIA COUNTY 32-33 REDRILL #1
COMPANY REICHHOLD ENERGY

COMPANY REICHHOLD ENERGY CORPORATION
WELL COLUMBIA COUNTY 32-33 REDRILL #1
FIELD MIST
COUNTY COLUMBIA STATE OREGON

LOCATION
244.5' NORTH & 6.77' WEST FROM THE CENTER OF:
Sec. 33 Twp. 7N Rge. 5W,WB&M

Other Services:
DIL
BHC

Permanent Datum: GL, Elev. 1092.8
Log Measured From KB 11.4 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 1104.2
D.F. N/A
G.L. 1092.8

Date	11 AUG 82			
Run No.	1			
Depth—Driller	3030.0			
Depth—Logger	3030.0			
Btm. Log Interval	3016.0			
Top Log Interval	1800.0			
Casing—Driller	7" @ 480	@	@	@
Casing—Logger	481			
Bit Size	6¼"			
Type Fluid in Hole	LIGNOSULFO-NATE			
Dens. | Visc.	10.3 | 55.0	|	|	|
pH | Fluid Loss	9.0 | 4.4 ml	| ml	| ml	| ml
Source of Sample	FLOWLINE			
R_m @ Meas. Temp.	1.87 @ 70°F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	1.86 @ 64°F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	1.66 @ 63°F	@ °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	M | M	|	|	|
R_m @ BHT	1.37 @ 98°F	@ °F	@ °F	@ °F
Time Since Circ.	1000			
Max. Rec. Temp.	98°F	°F	°F	°F
Equip. | Location	8076 | SAC	|	|	|
Recorded By	COLLINS			
Witnessed By	WILLIAMSON			

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		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	HDSD			
HDM No.	1726			
Magnetic Declination	20° E			
Analog Panel No.	–			
Digital Panel No.	1891			
Correlated By	PCDCC			
Computed By	PCDCC			
Plotted By	PCDCC			

Remarks — HDM-LOW ANGLE UNIT (0-36°).
SERVICE ORDER NO. 304031.

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.

SWS-1854-B

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°

REICHHOLD ENERGY
COLUMBIA COUNTY 32-33
MIST FIELD
COLUMBIA COUNTY, OREGON
RUN NO. ONE 11-AUG-82
P.C.D.C.
ARROW PLOT FROM CLUSTER PROGRAM

CORRELATION LENGTH 4 FT.
STEP LENGTH 2 FT.
SEARCH ANGLE 70 DEGREES X1
HDT-G CSU VAX 11/780

JOB 6632

80

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 70 DEGREES X1

PC0130023518307001020420

ZONE FROM 500 TO 3006

CORRELATION CURVE | DEPTHS | DIP ANGLE AND DIRECTION | BOREHOLE DRIFT

CALIPERS

8 C1-3 — — — C2-4 ------ 18

RESISTIVITY INCREASES

0 10 20 30 40 50 60 70 80 90

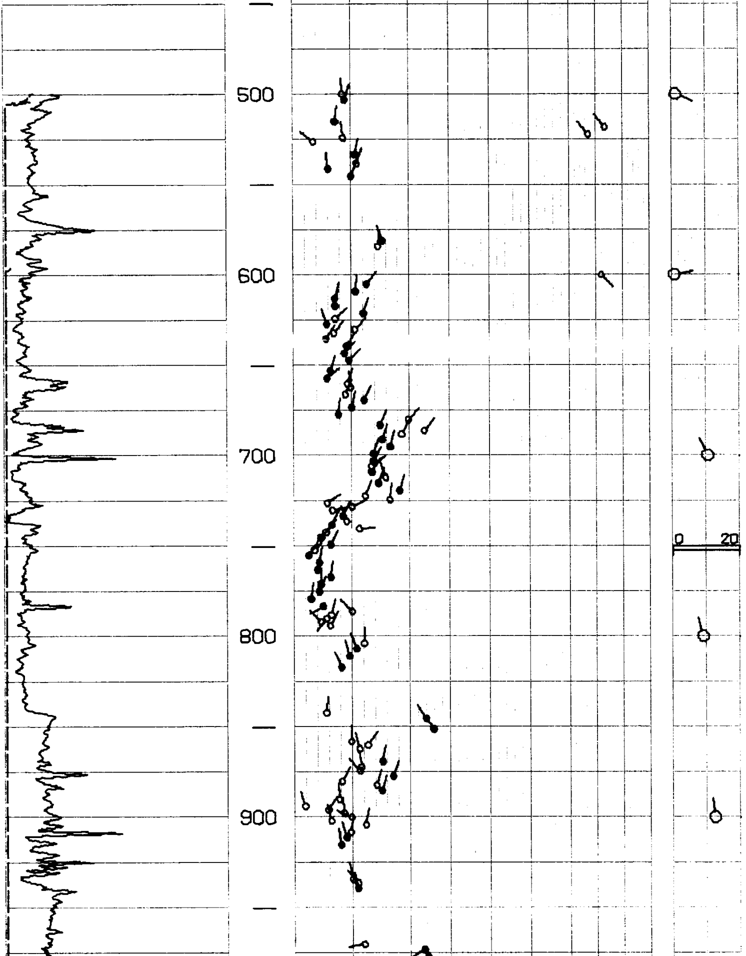
0 0

0 10

SCHLUMBERGER DIPMETER ARROW PLOT

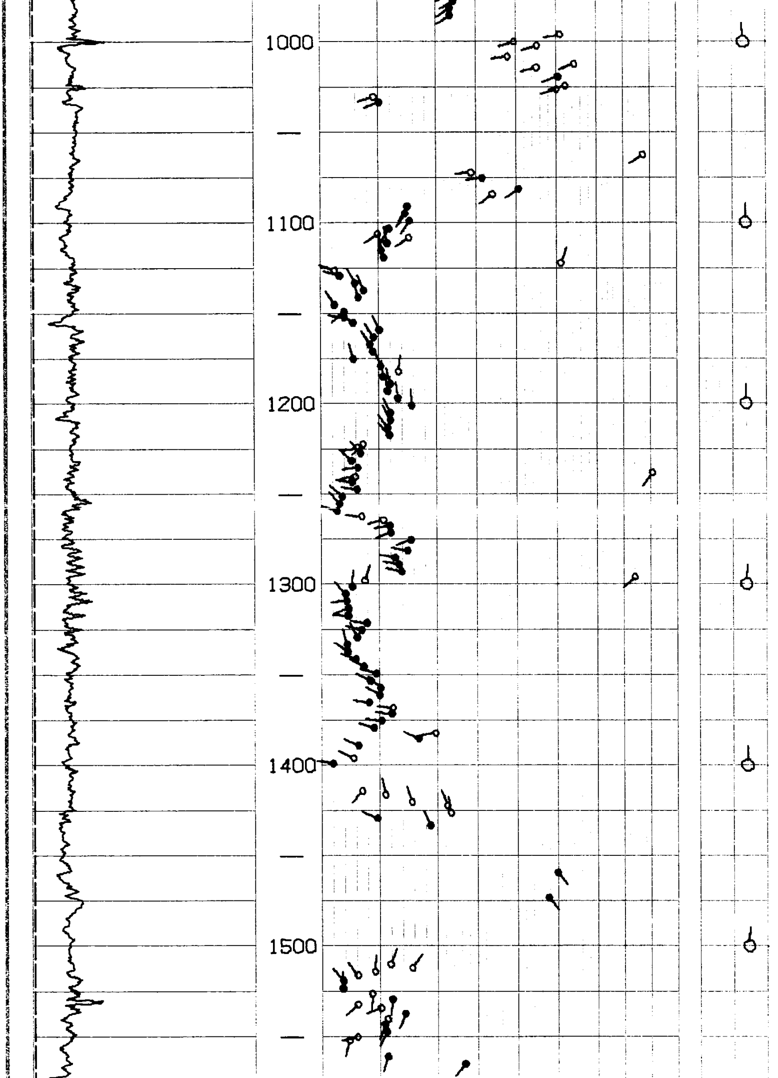
FOOT DUODECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT



FOOT DUO-DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT



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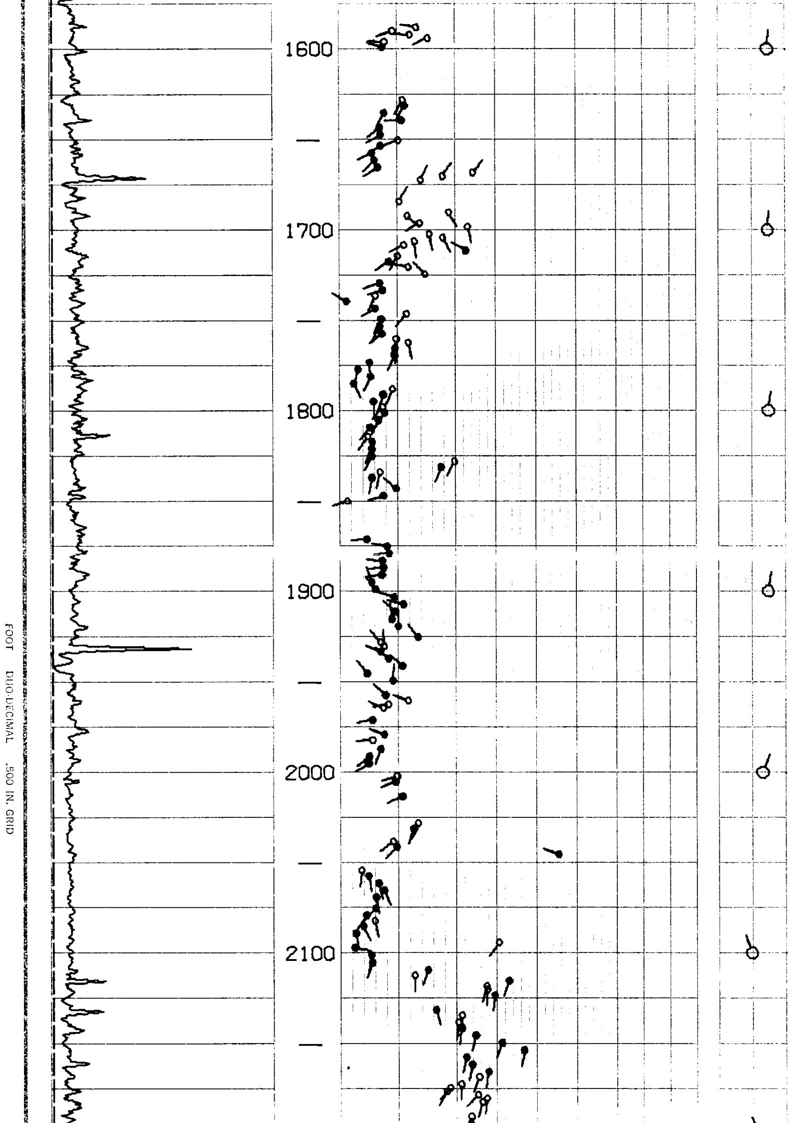
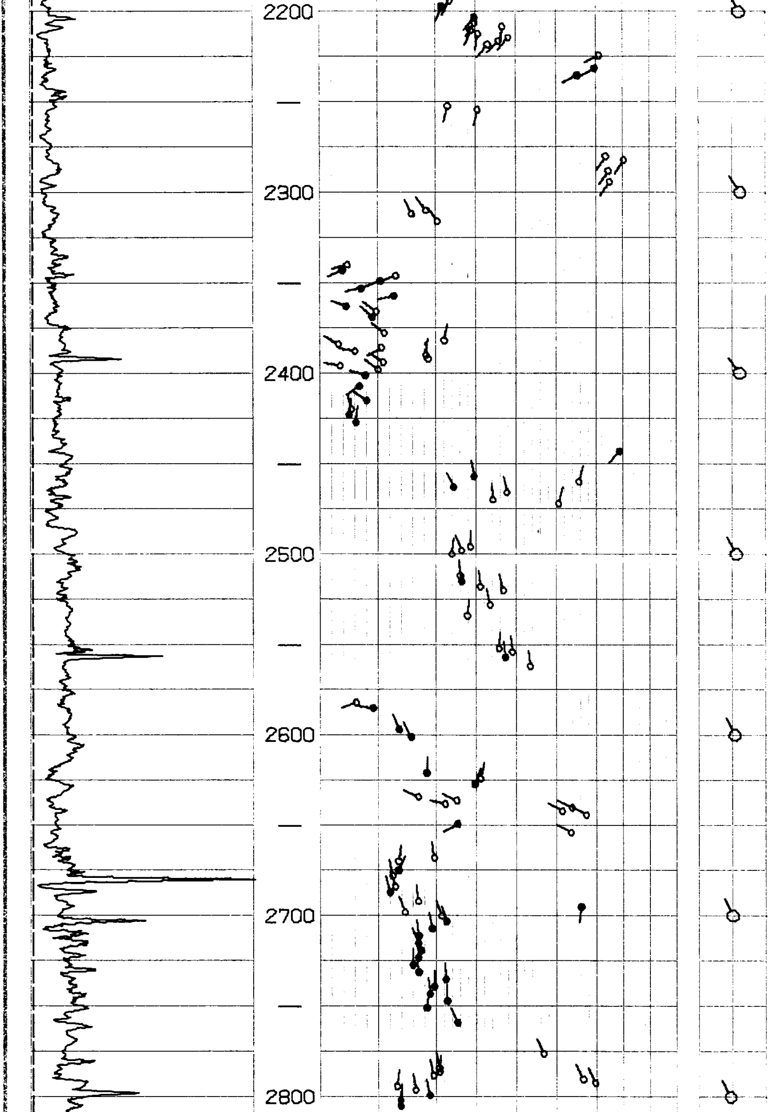


DIPMETER ARROW PLOT



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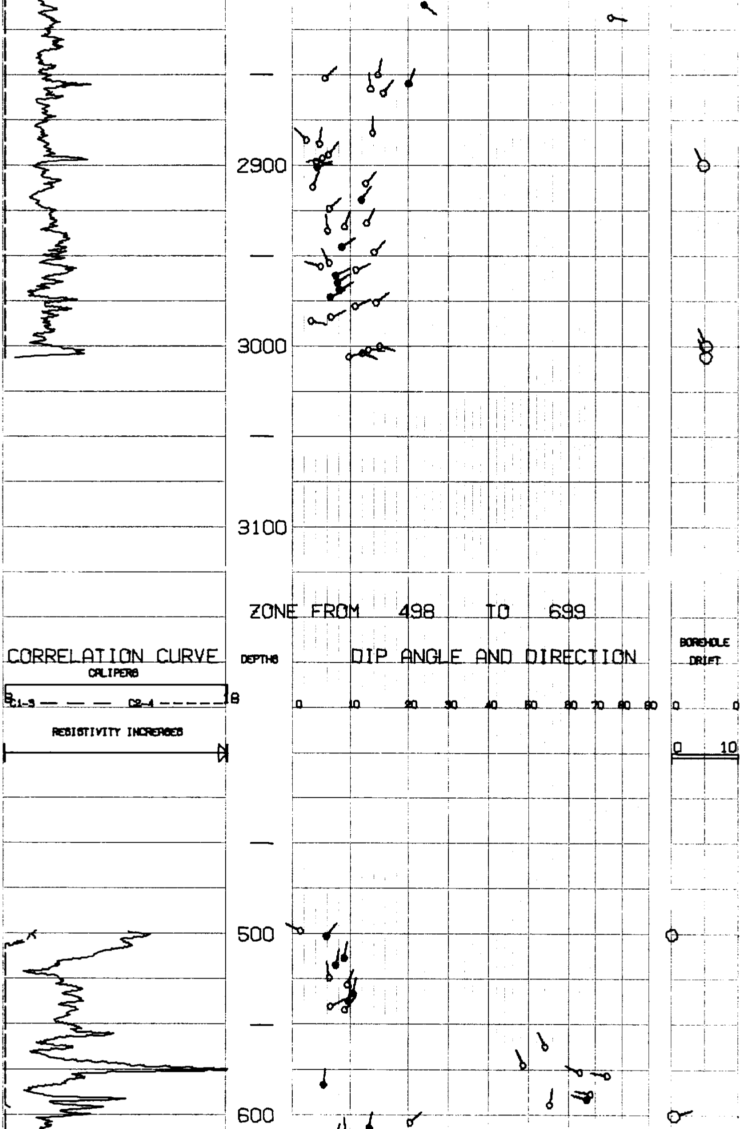

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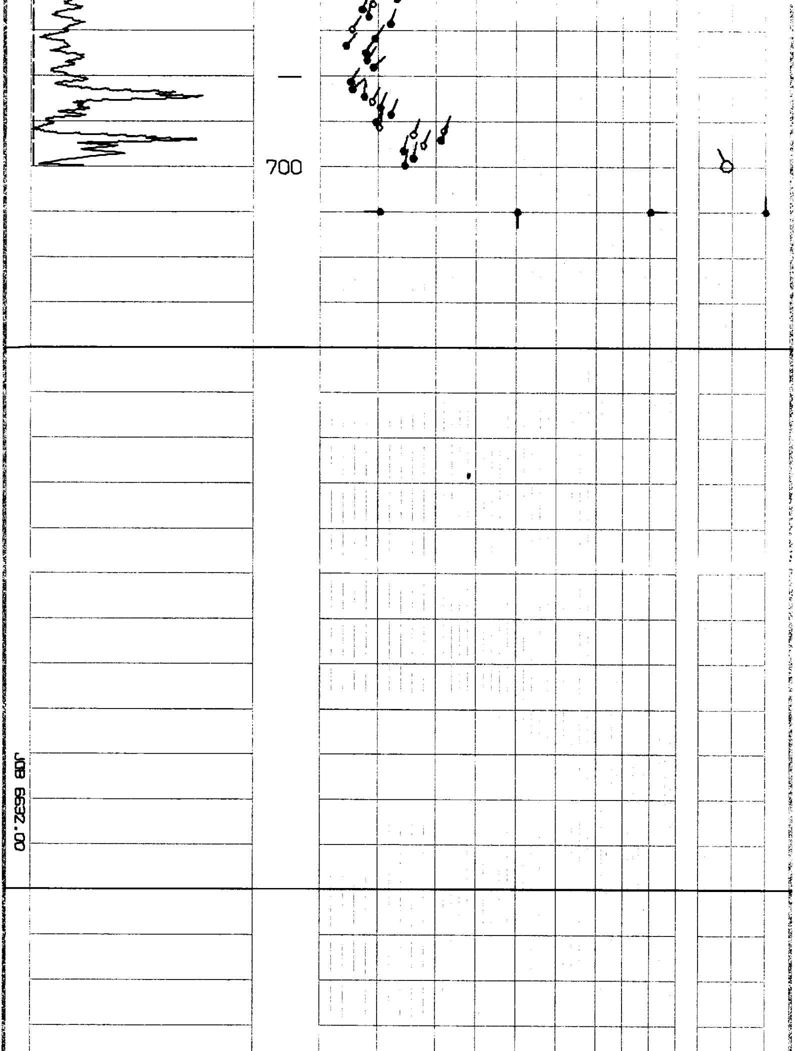


ALL QUALITY ARROW PLOT 6632

FROM THE CLUSTER PROGRAM

[illegible] DIPMETER ARROW PLOT

BLACK ARROWS ARE HIGHEST QUALITY

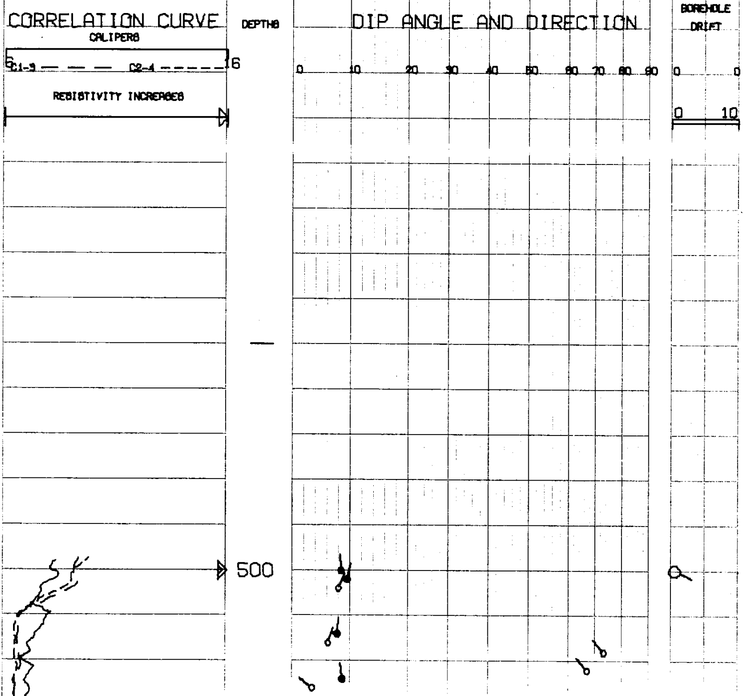
CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 70 DEGREES X1

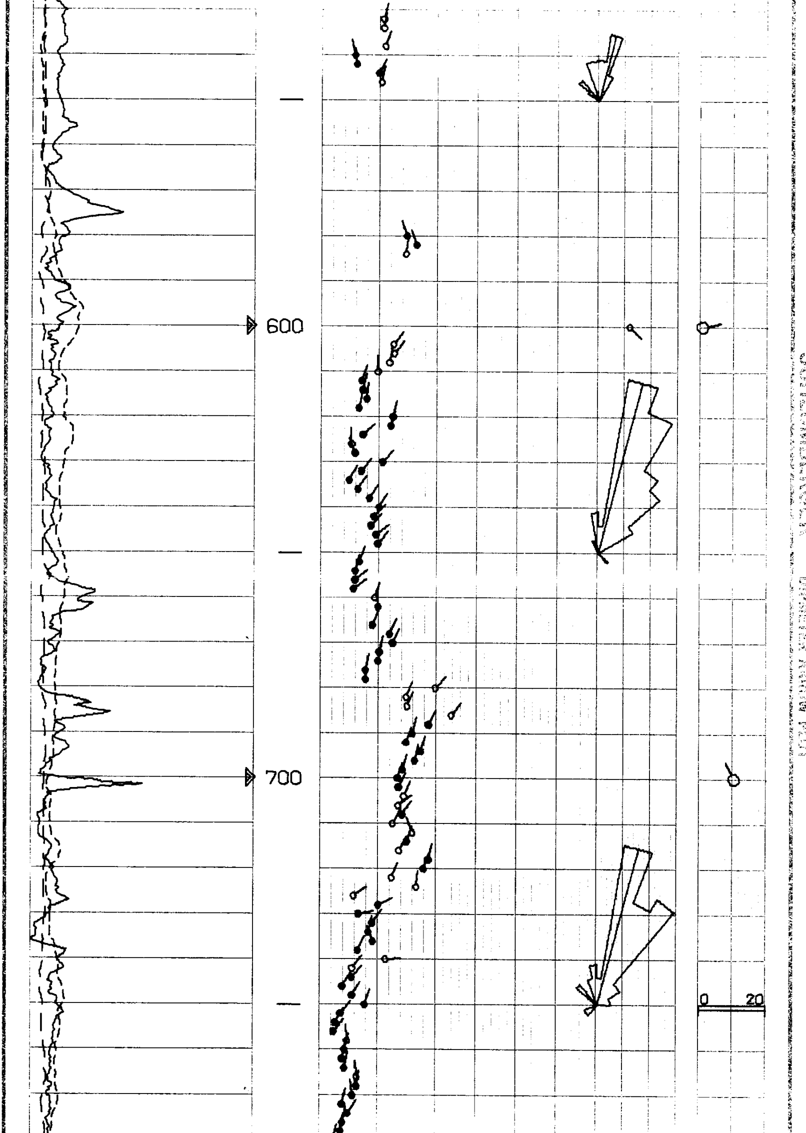
PC0130023518307001020420

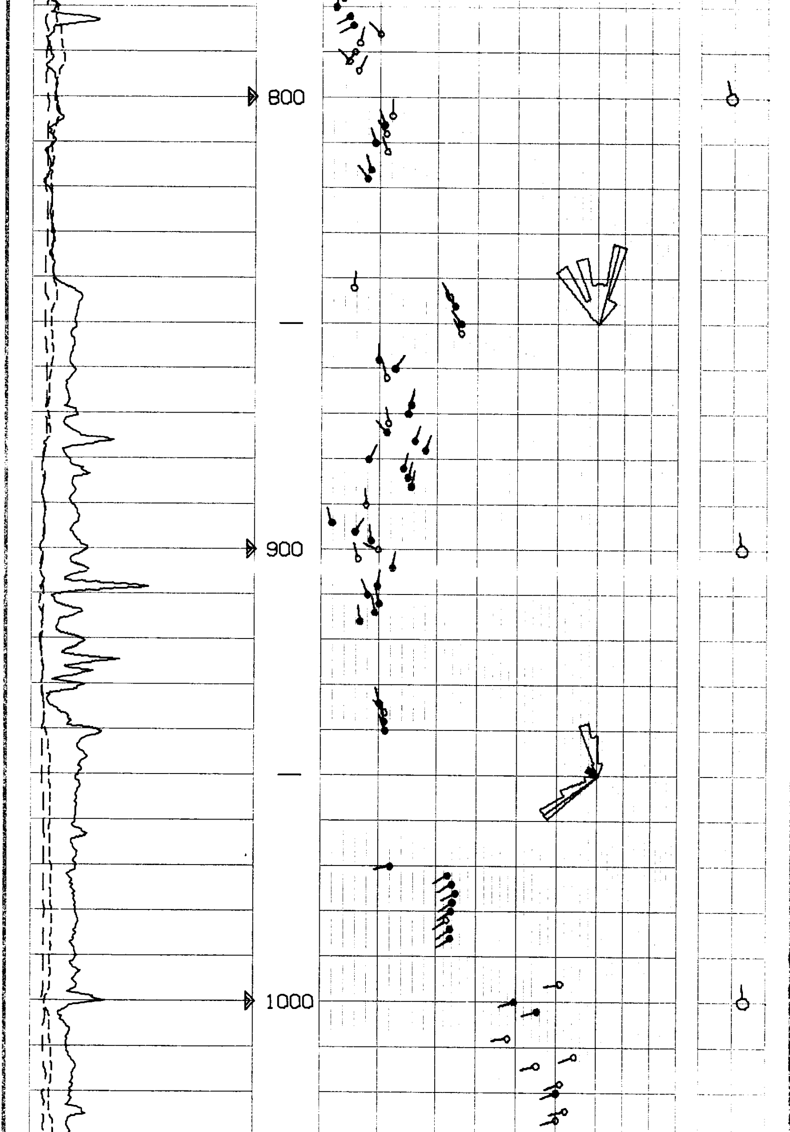
ZONE FROM 498 TO 3006



DIPMETER ARROW PLOT

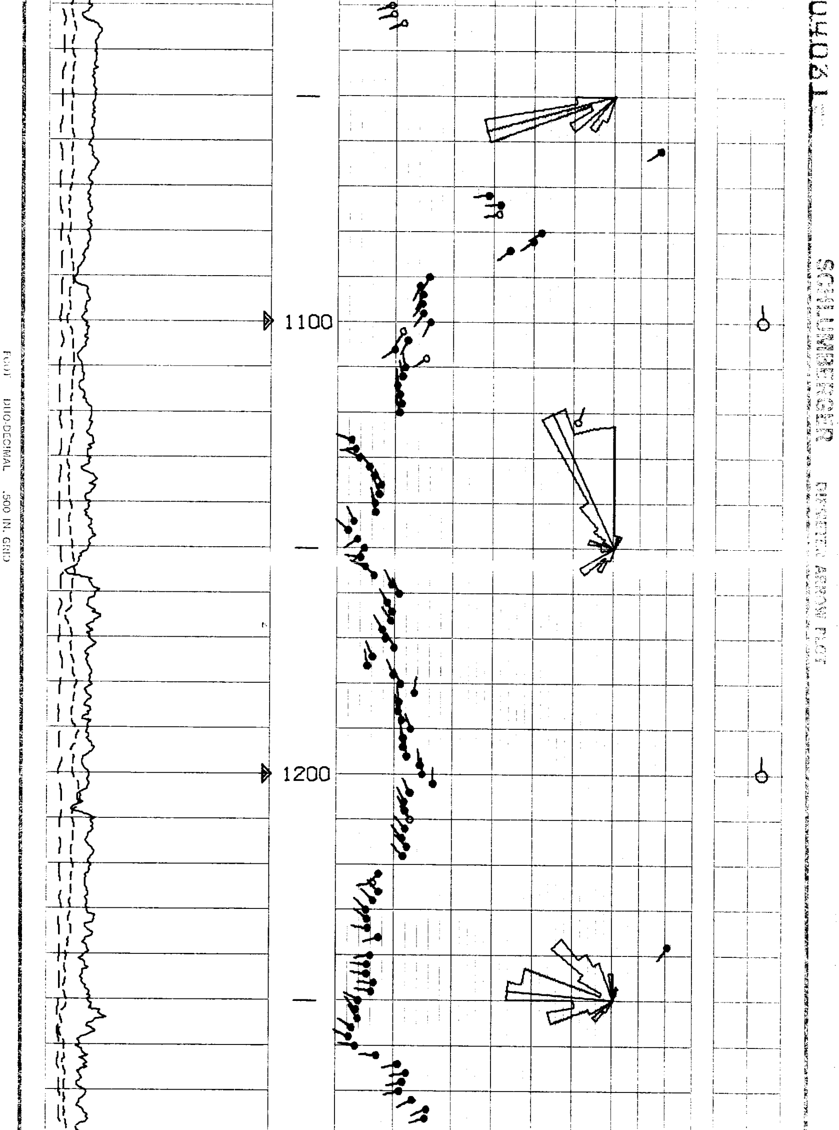
FOOT DUO-DECIMAL .500 IN. GRID



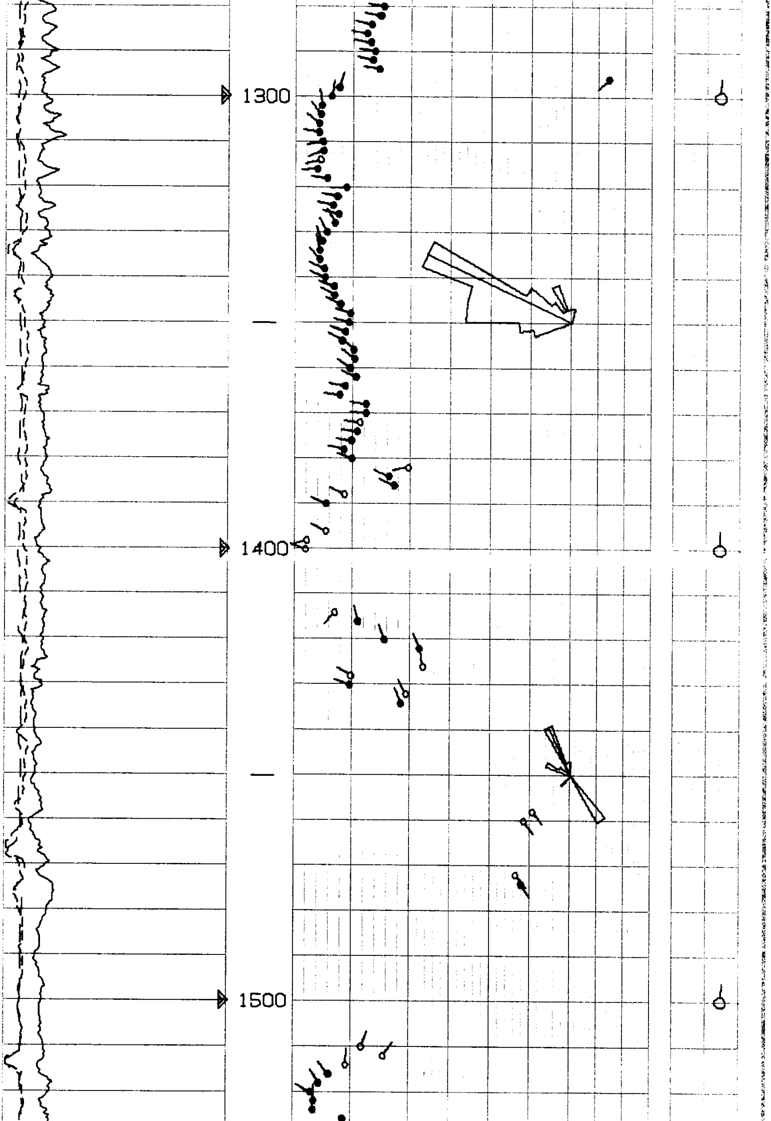


SCHLUMBERGER DIPMETER ARROW PLOT

8-16-82

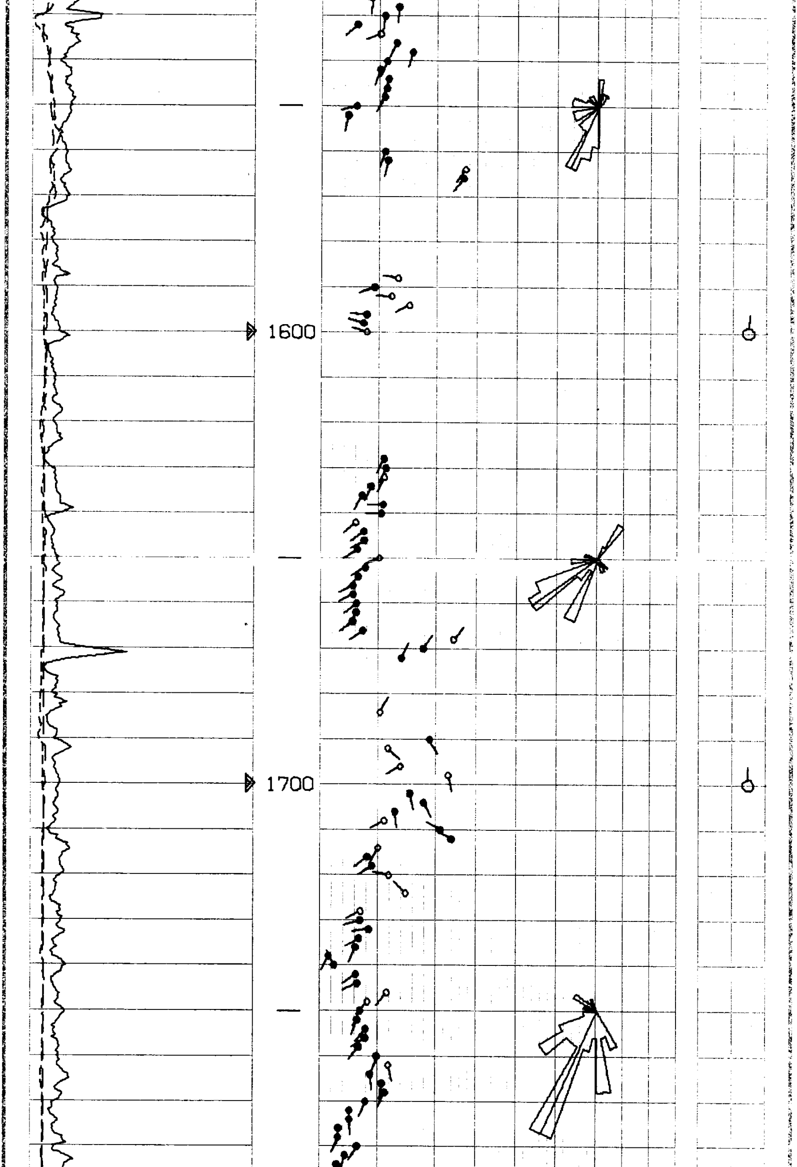


SCHLUMBERGER DIPMETER ARROW PLOT



FOOT DUODECIMAL .500 IN. GRID

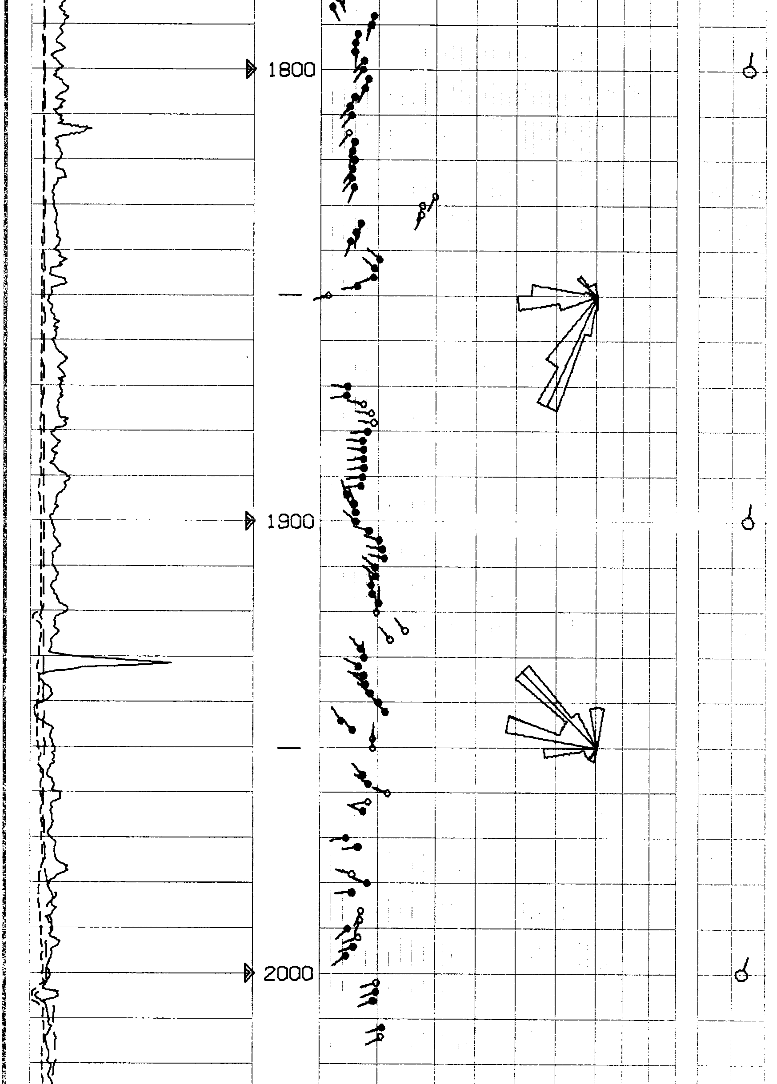
SCHLUMBERGER DIPMETER ARROW PLOT

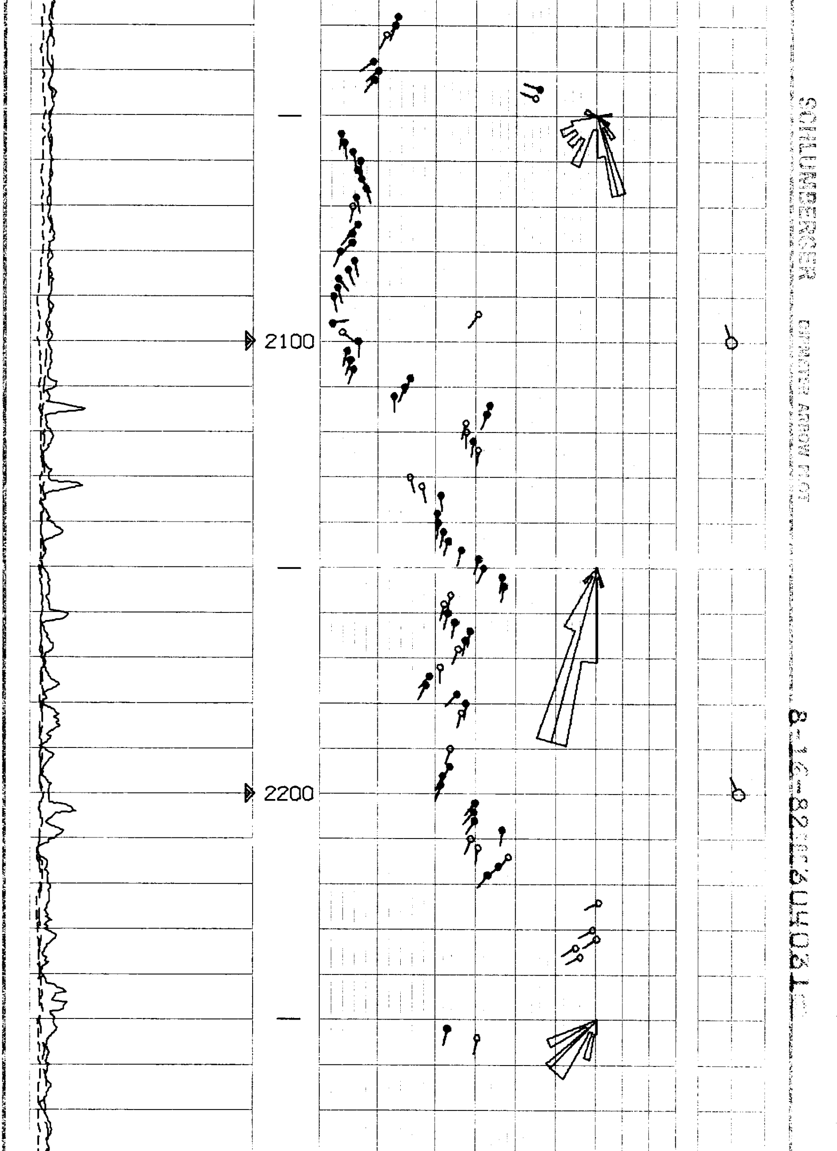


FOOT DUO-DECIMAL .500 IN. GRID

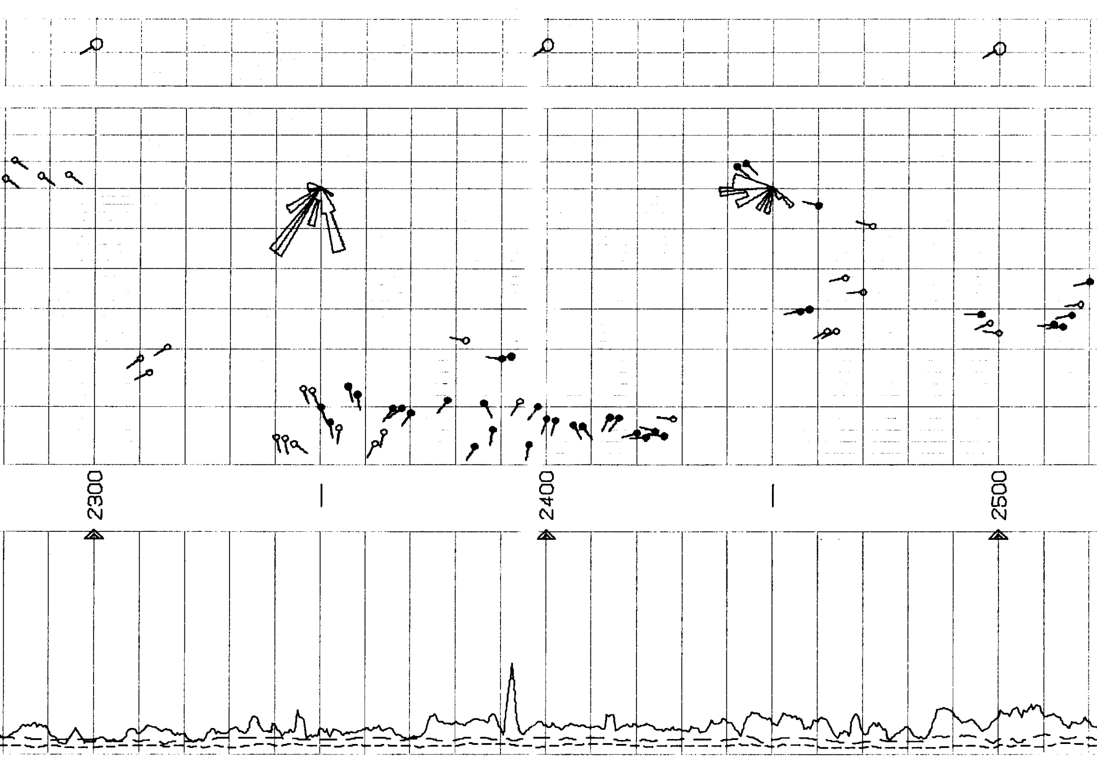
SCHLUMBERGER DIPMETER ARROW PLOT

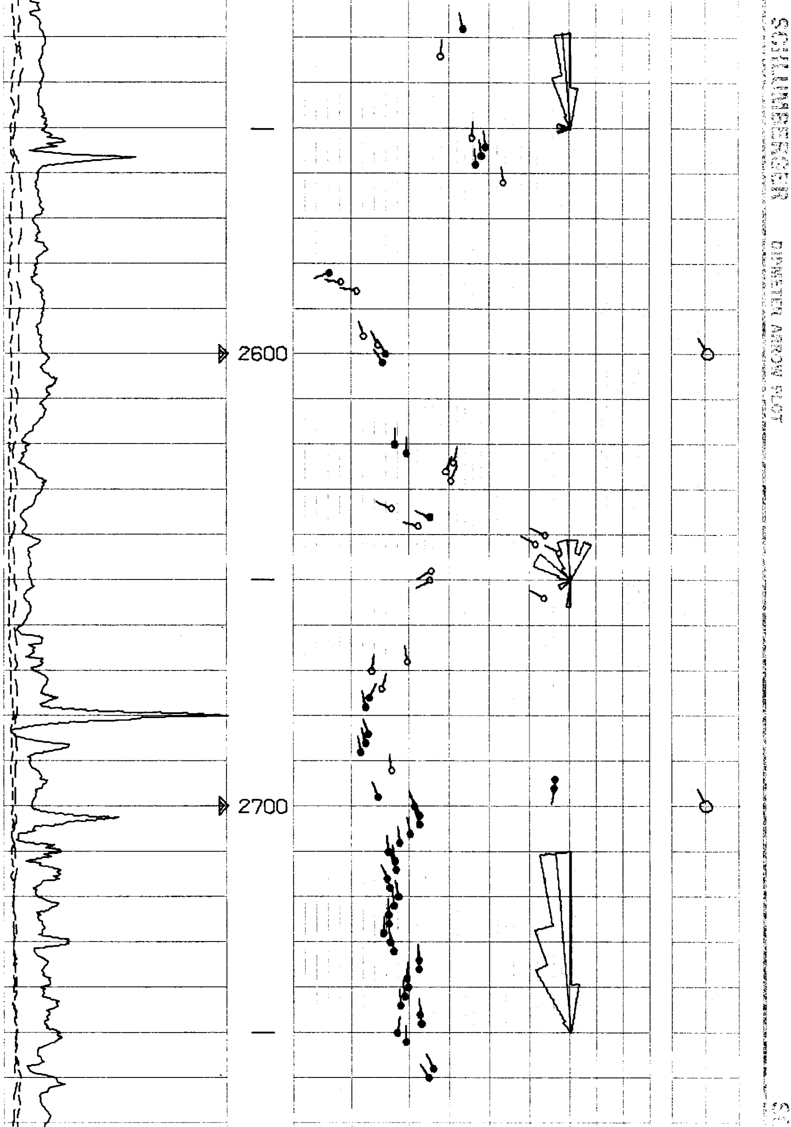
FOOT DUODECIMAL 600 IN GRID

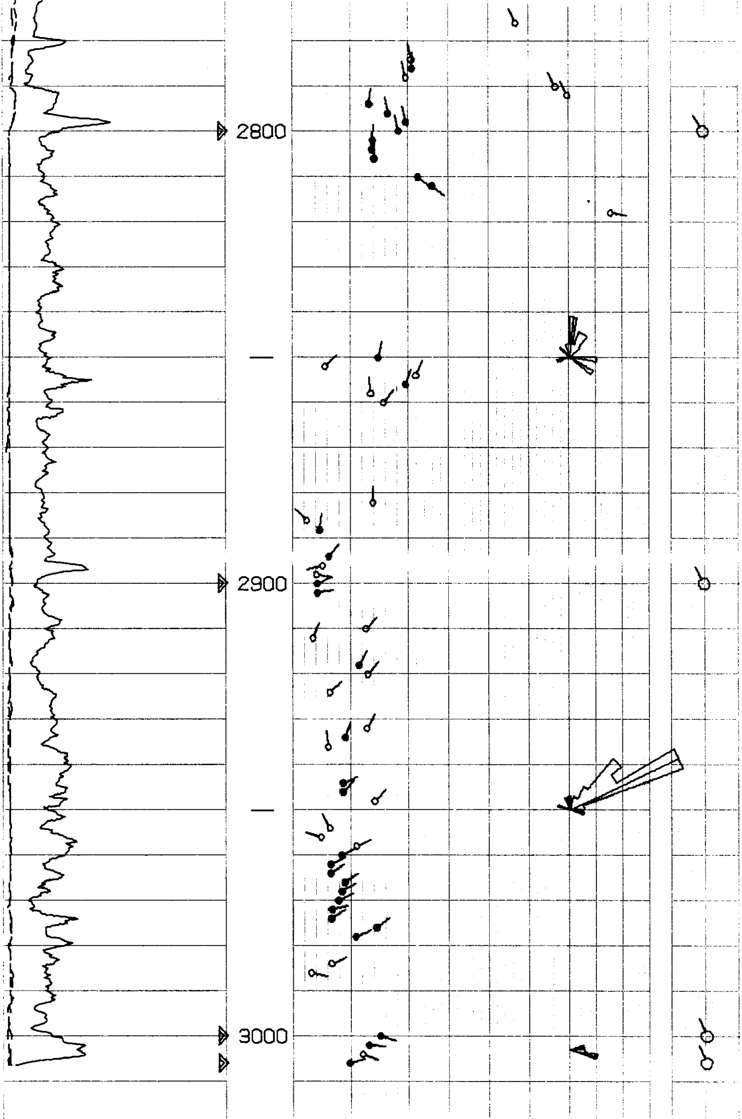




SCHLUMBERGER DIPMETER ARROW PLOT

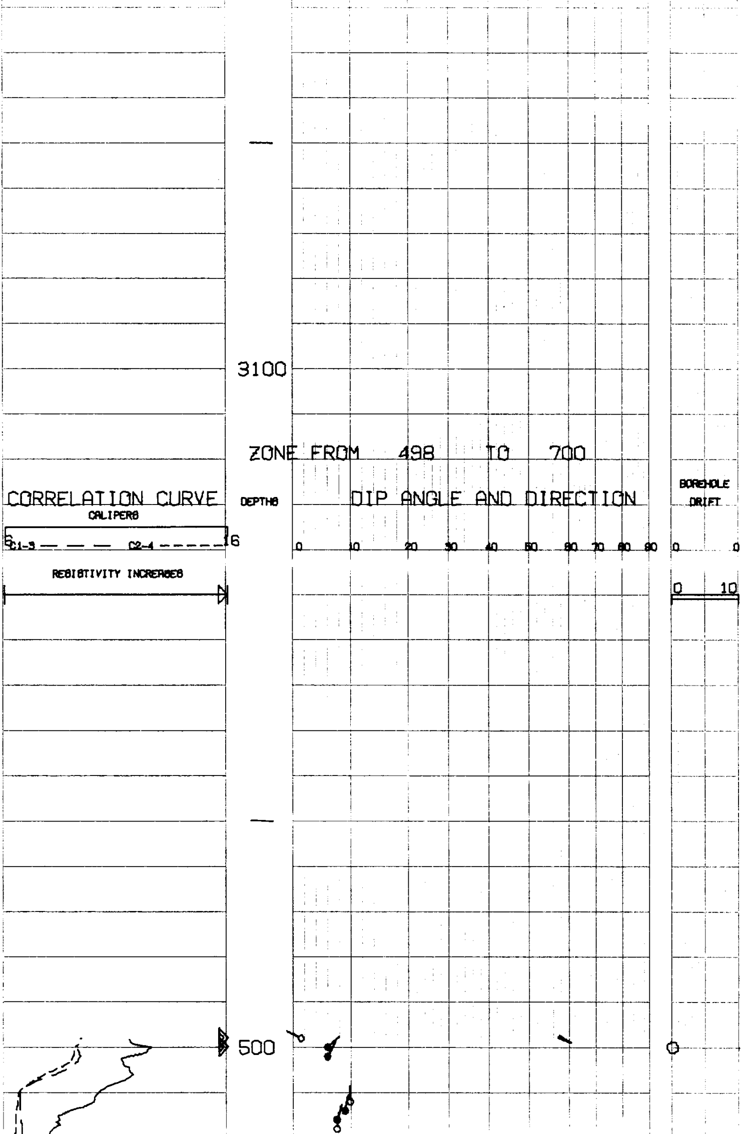




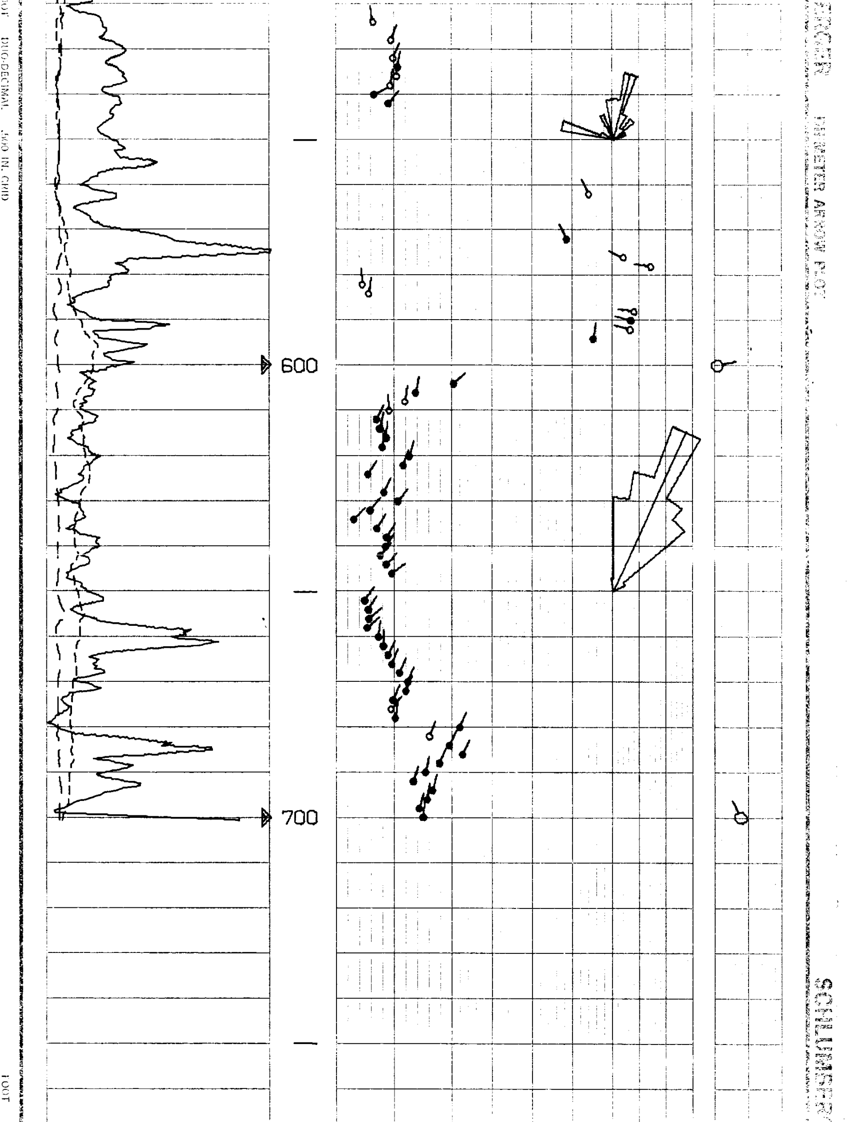


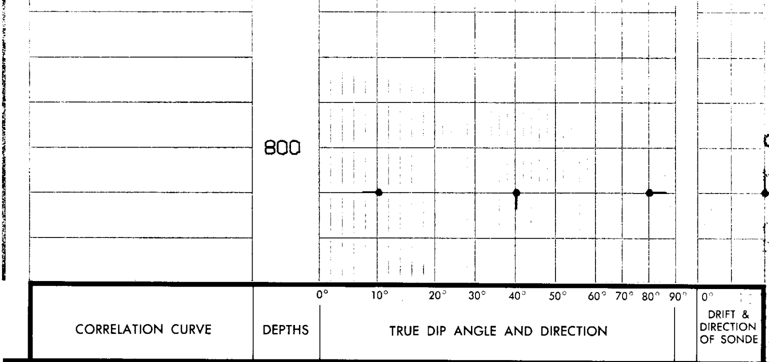
FOOT DUODECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT



SCHLUMBERGER





DIPMETER ARROW PLOT

COMPANY REICHHOLD ENERGY CORPORATION

WELL COLUMBIA COUNTY 32-33 REDRILL #1

FIELD MIST

Rm 1.87 @ 70 °F
Rmf 1.86 @ 64 °F
Rmc 1.37 @ 63 °F
BHT 98 °F

SCHL. FR 3016.0
SCHL. TD 3030.0
DRLR TD 3030.0
Elev:
KB 1104.2