CC 32-33-75

Schlumberger

FOUR — ARM
HIGH RESOLUTION
CONTINUOUS DIPMETER
(COMPUTED)

COUNTY CO_UMBIA
FIELD or LOCATION 33-7N-5W. WB&M
WELL COLUMBIA COUNTY 32-33
COMPANY REICHHOLD ENERGY

COMPANY REICHHOLD ENERGY CORPORATION

WELL COLUMBIA COUNTY 32-33

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:
DII
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	4 AUG 82			
Run No.	ONE			
Depth—Driller	2614			
Depth—Logger	2614			
Btm. Log Interval	2606			
Top Log Interval	481			
Casing—Driller	7" @ 480	@	@	@
Casing—Logger	481			
Bit Size	6¼"			
Type Fluid in Hole	LIGNOSULFONATE (BAROID)			
Dens. | Visc.	9.9 | 60.0			
pH | Fluid Loss	9.0 | 4.2 ml	ml	ml	ml
Source of Sample	FLOWLINE			
R_m @ Meas. Temp.	2.26 @ 70 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	1.36 @ 76 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	1.12 @ 71 °F	@ °F	@ °F	@ °F
Source: R_{mf} R_{mc}	M | M			
R_m @ BHT	1.67 @ 97 °F	@ °F	@ °F	@ °F
Time Since Circ.	1230			
Max. Rec. Temp.	97 °F	°F	°F	°F
Equip. | Location	8076 | SAC			
Recorded By	MAYER			
Witnessed By	ALGER			

SWS 1854-B

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	-DSC			
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. 303907.

"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.

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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

REICHOLD ENERGY CORP.
COLUMBIA COUNTY 32-33
MIST FIELD
COLUMBIA COUNTY,OREGON
RUN NO. ONE 04-AUG-82
P.C.C.C.
ARROW PLOT FROM CLUSTER PROGRAM

CORRELATION LENGTH 4 FT.
STEP LENGTH 2 FT.
SEARCH ANGLE 30 DEGREES X2
HDT-G CSU VAX 11/780

405907

SCHLUMBERGER DIPMETER AR

JOB 8614.

FOOT DUO-DECIMAL .500 IN. GRID

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 498 TO 2582

CORRELATION CURVE	DEPTHS	DIP ANGLE AND DIRECTION	BOREHOLE DRIFT
CALIPERS 8 C1-3 — — — C2-4 - - - - - - 18		0 10 20 30 40 50 60 70 80 90	0 0
RESISTIVITY INCREASES			0 10

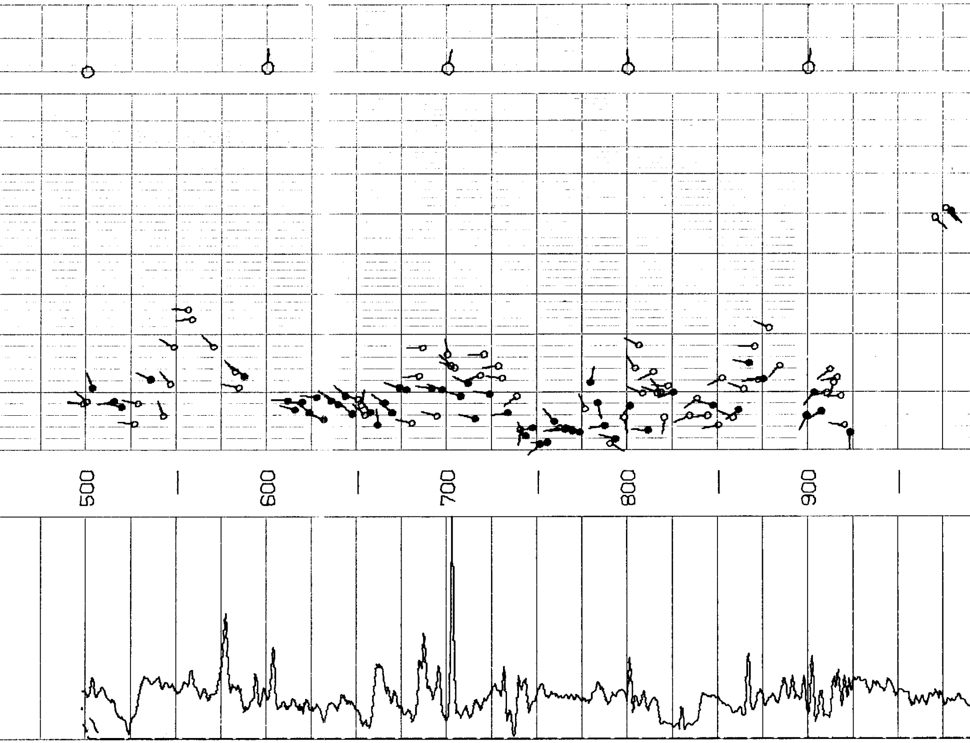
SCHLUMBERGER

ROW PLOT

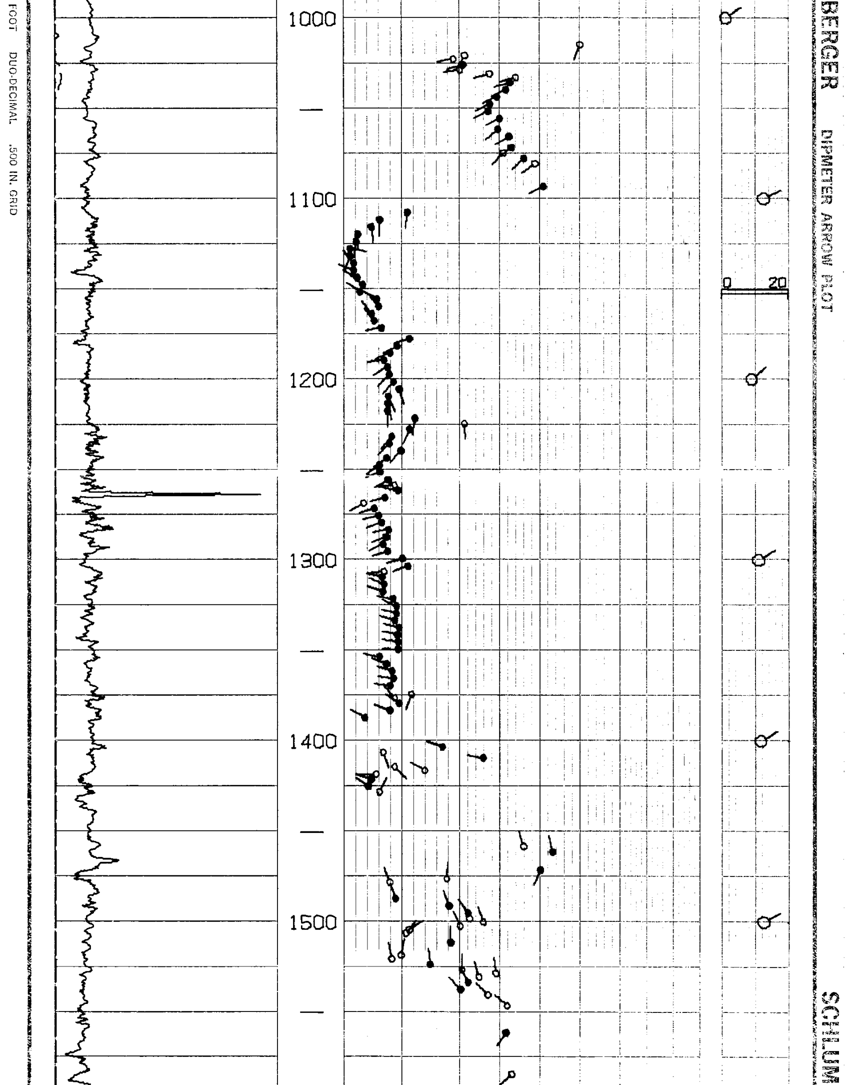
FOOT DUO-DECIM

DIPMETER ARROW PLOT

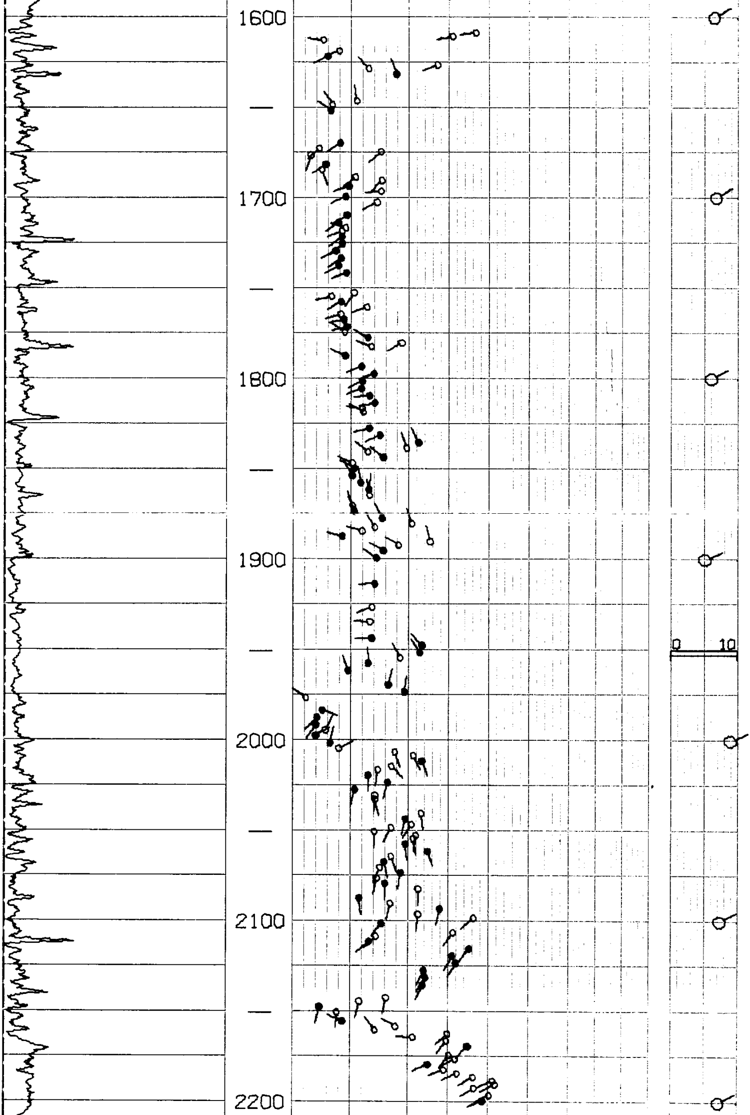
SCHLUM



AL .500 IN. GRID



FOOT DUO-DECIMAL .500 IN. GRID



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DIPMETER ARROW PLOT

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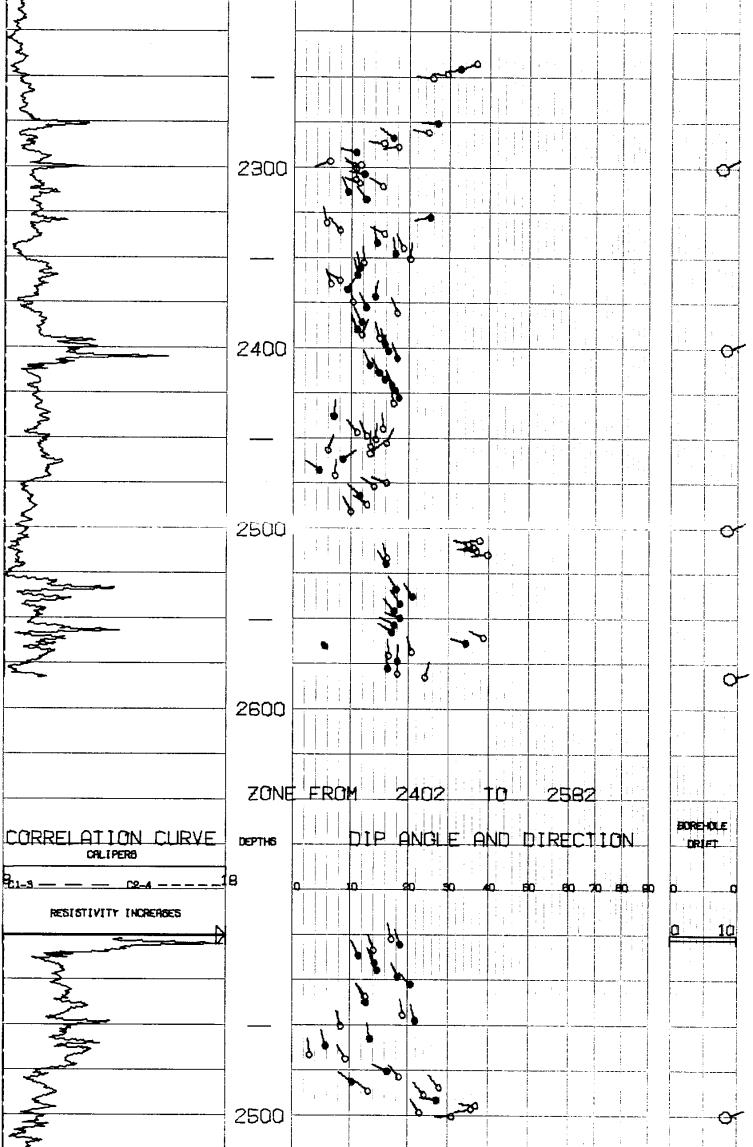
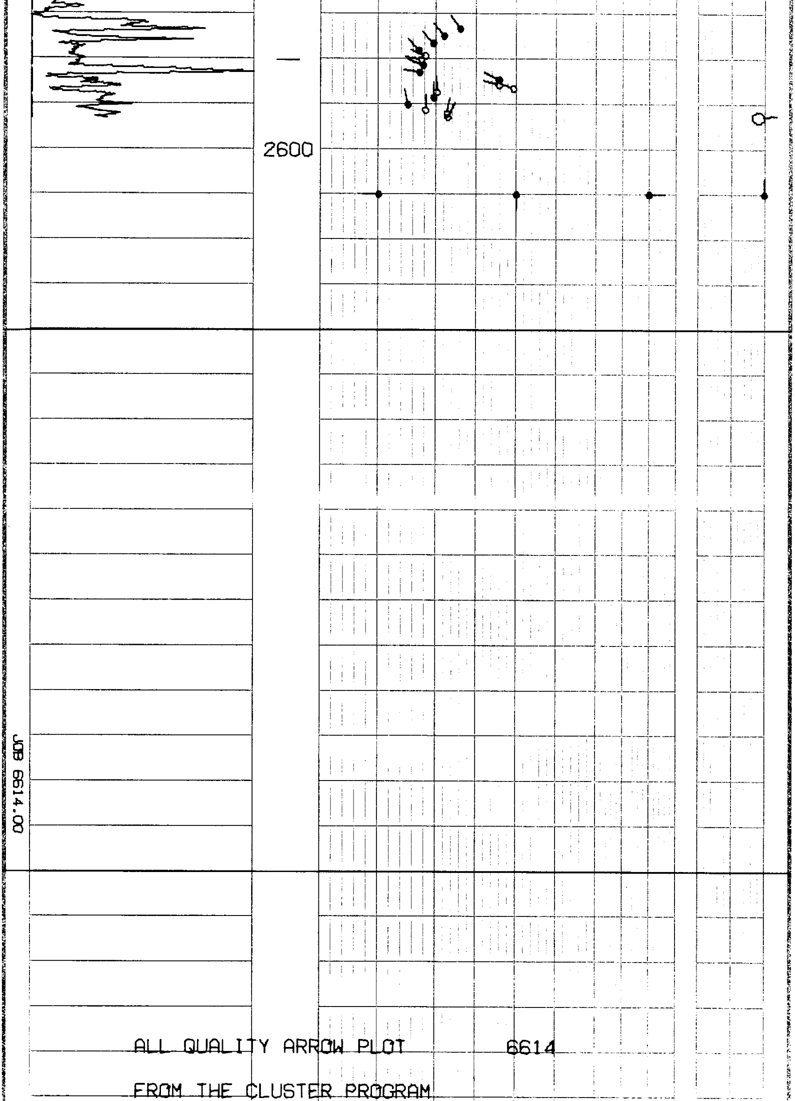
DUO-DECIMAL .500 IN. GRID

RGER DIPMETER ARROW PLOT



SCHLUMBERGER

FOOT DUO DEC



BLACK ARROWS ARE HIGHEST QUALITY

CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 30 DEGREES X2

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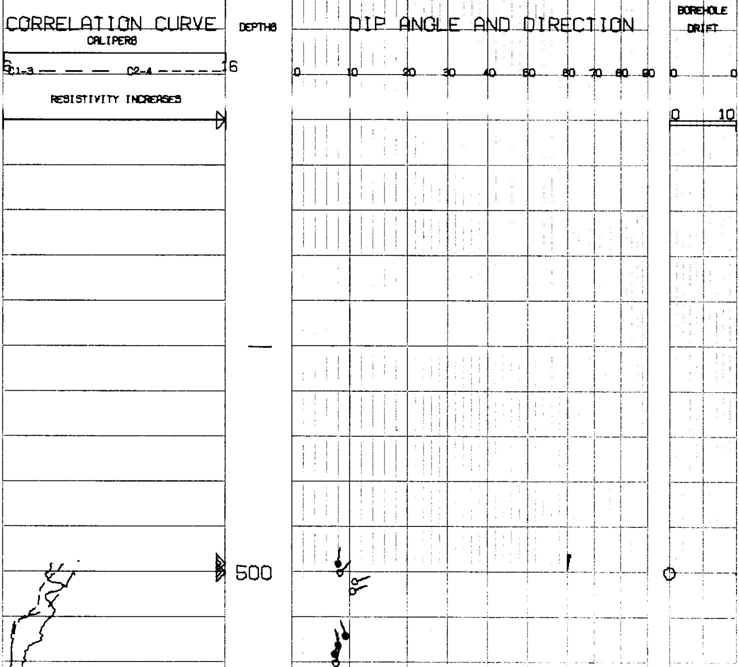
ZONE FROM 498 TO 2604



DIPMETER ARROW PLOT

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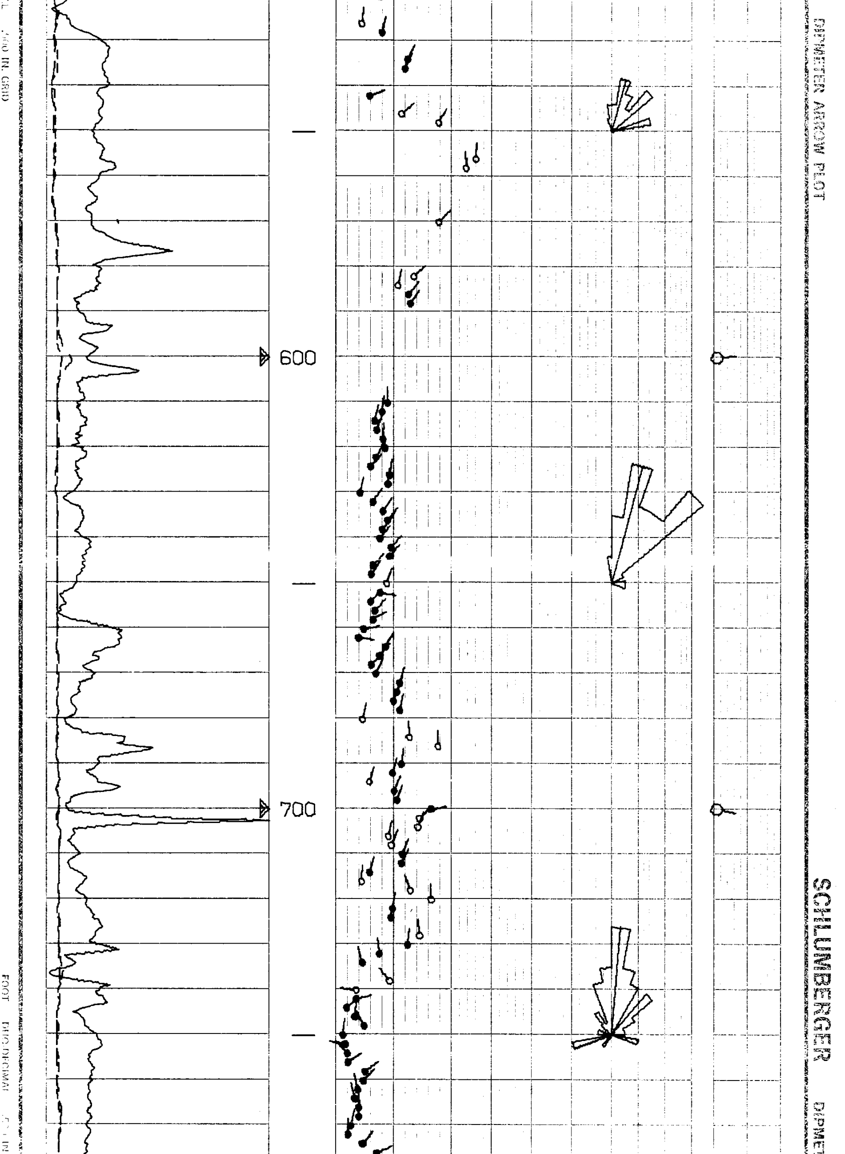

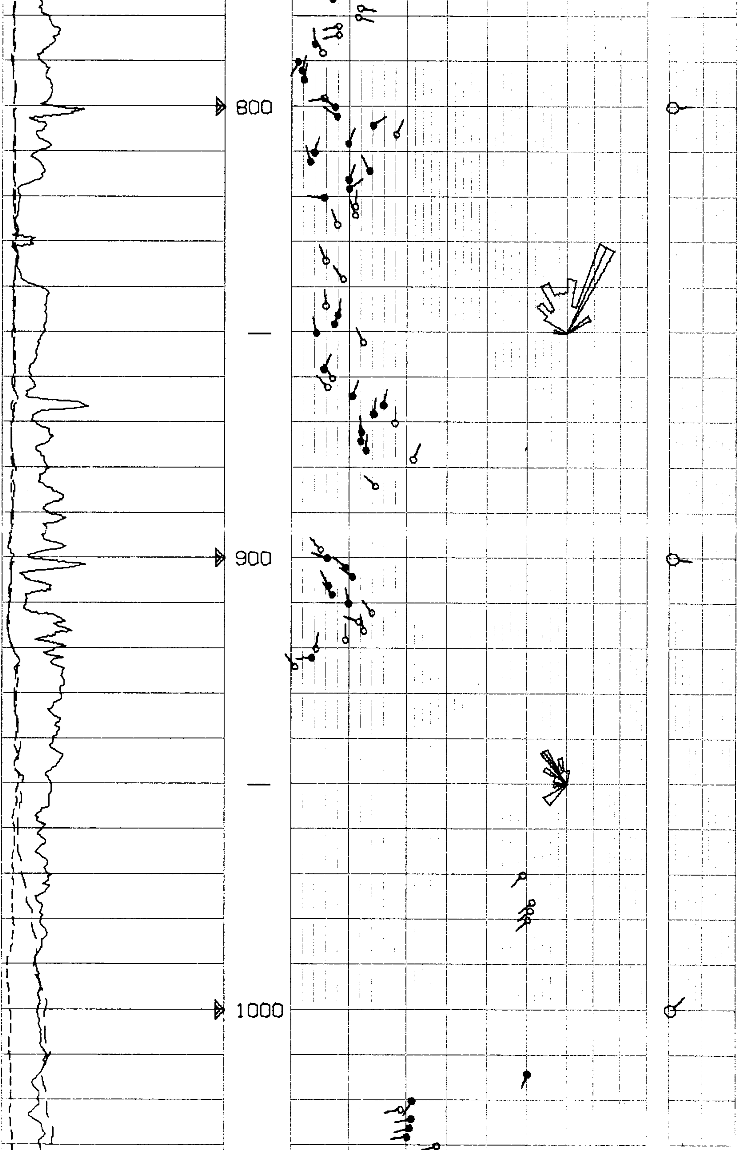

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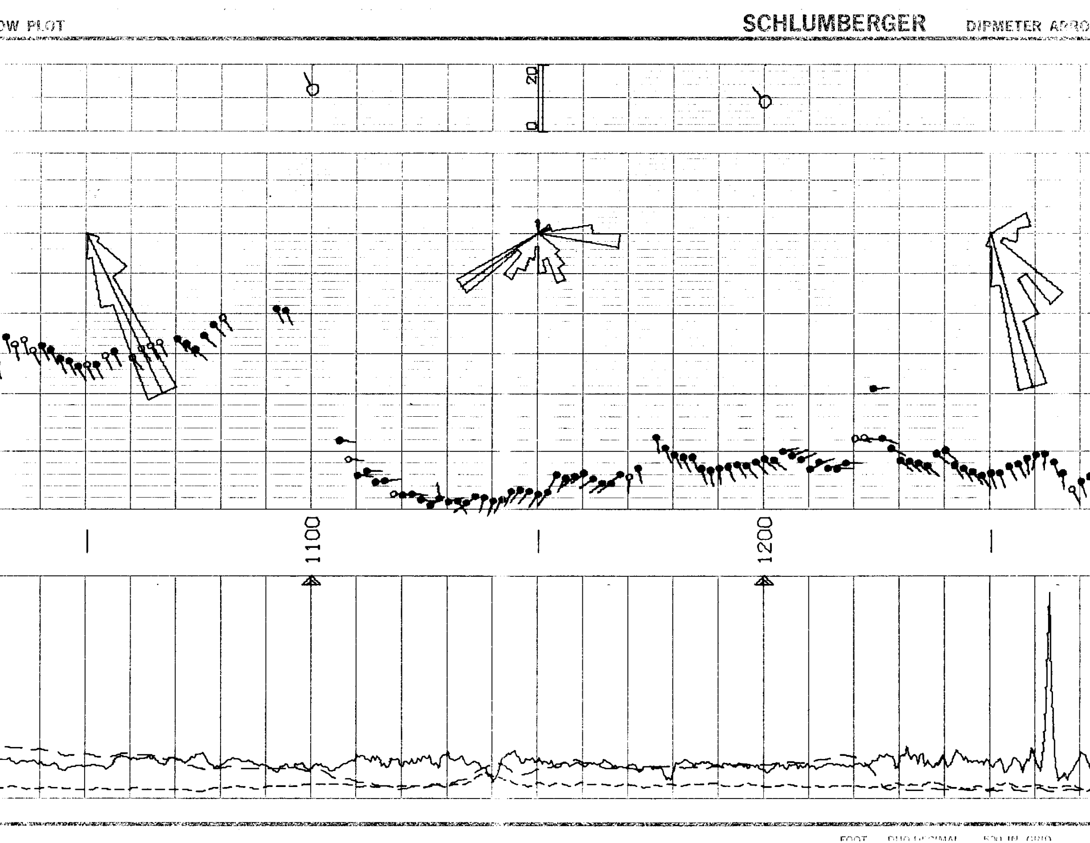
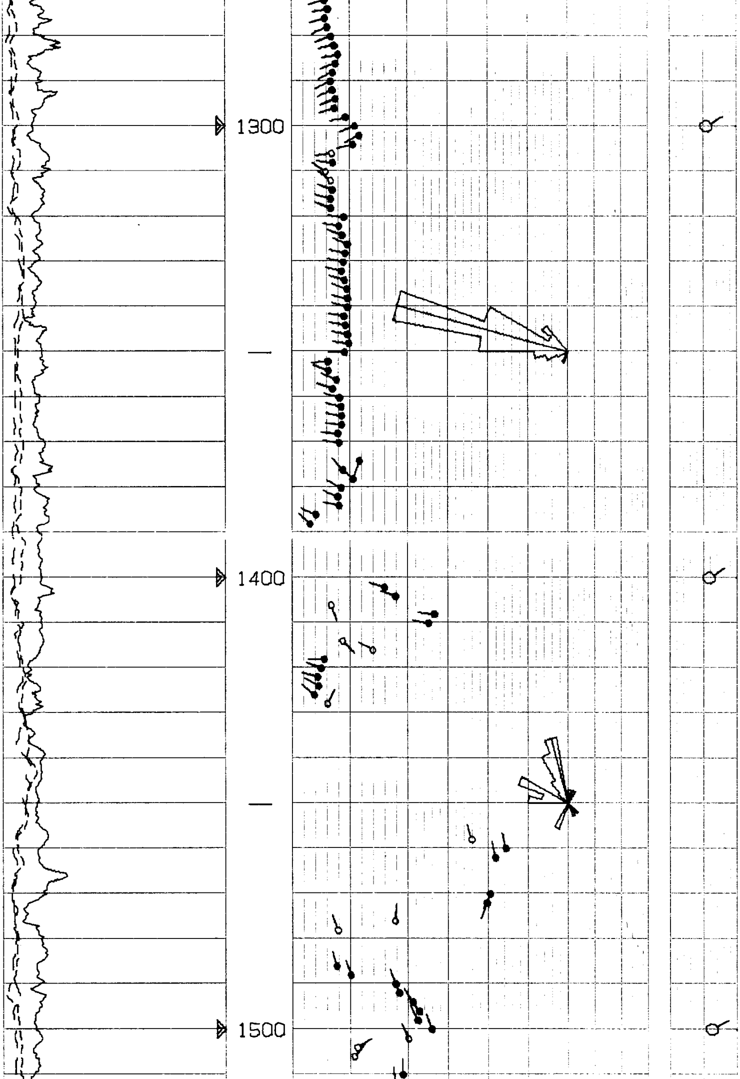
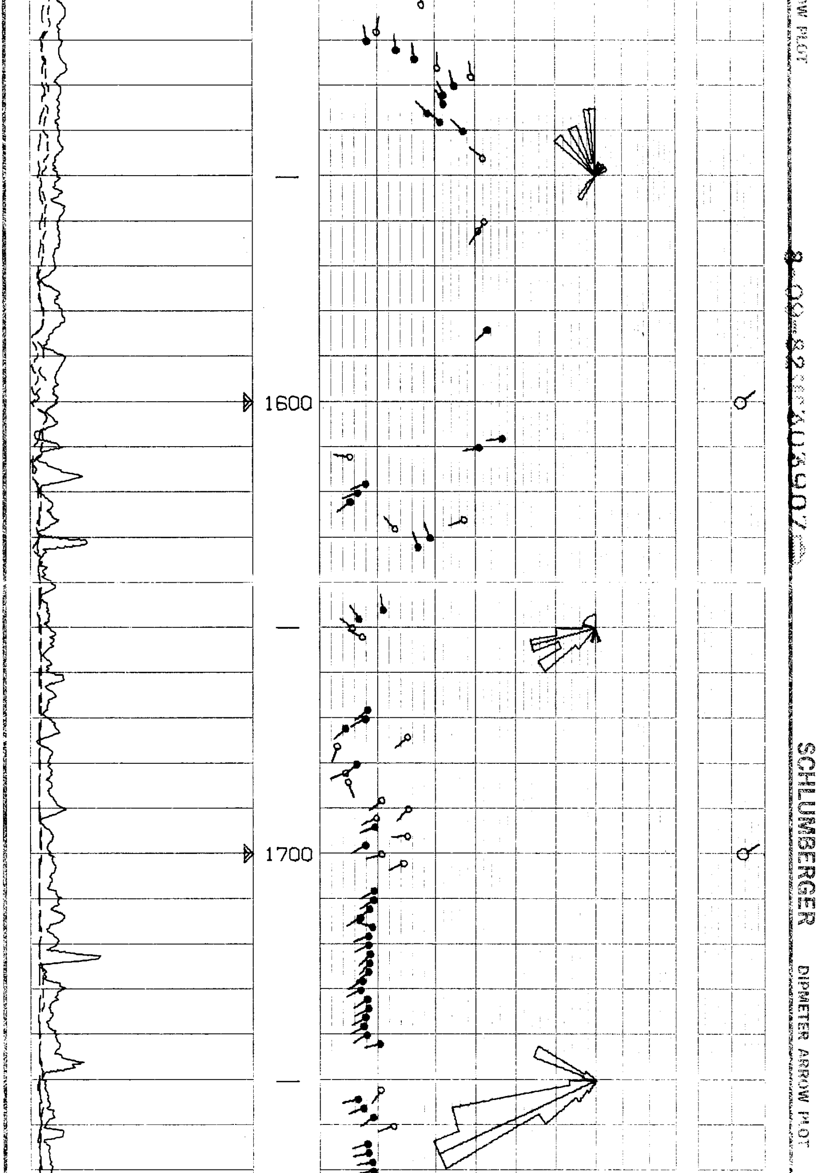
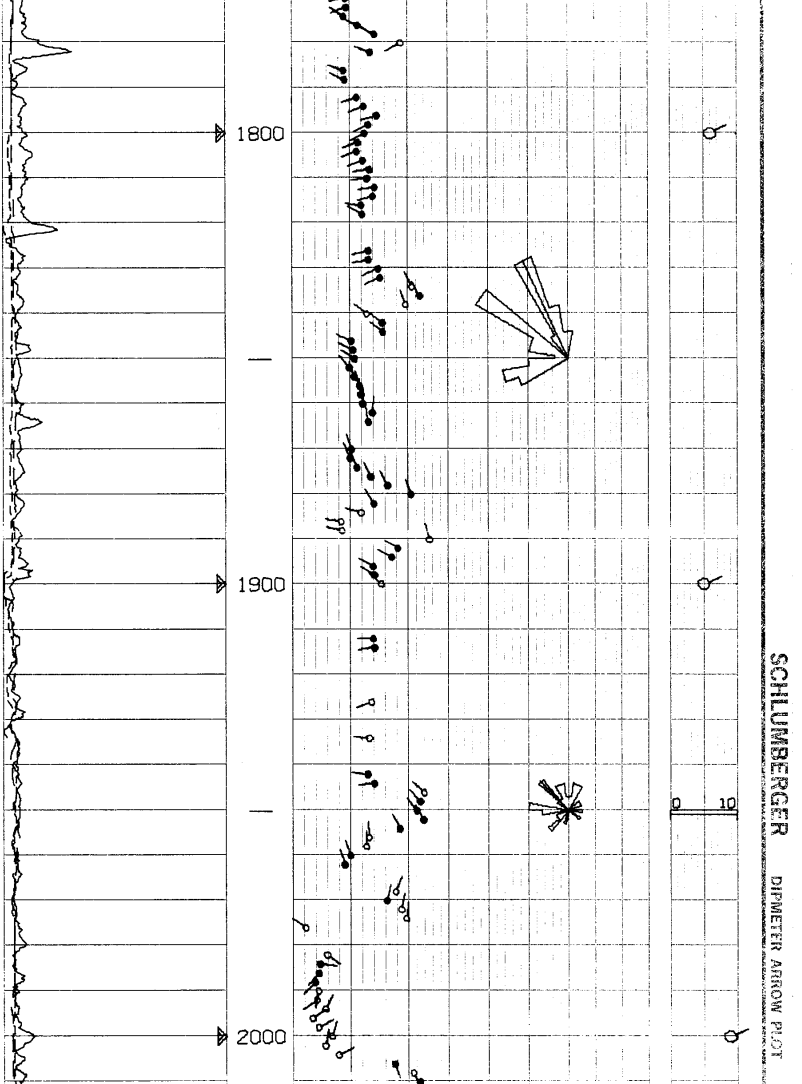
TER ARROW PLOT

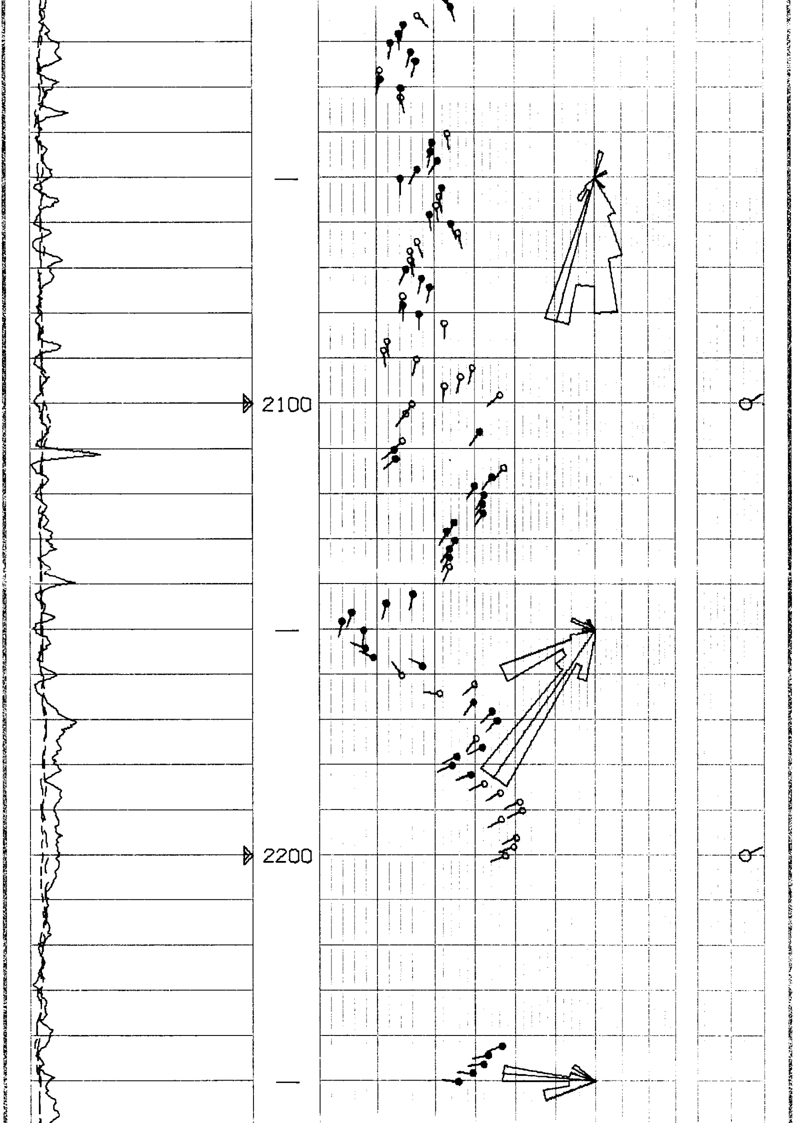






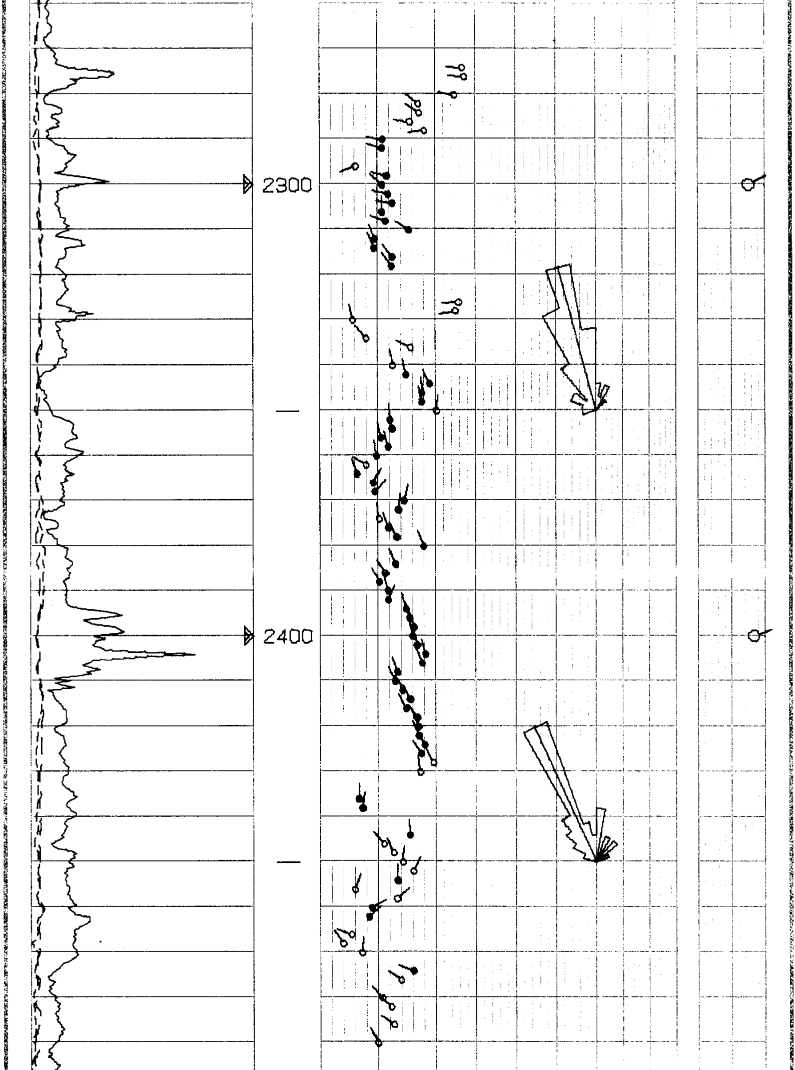


SCHLUMBERGER DIPMETER ARROW PLOT



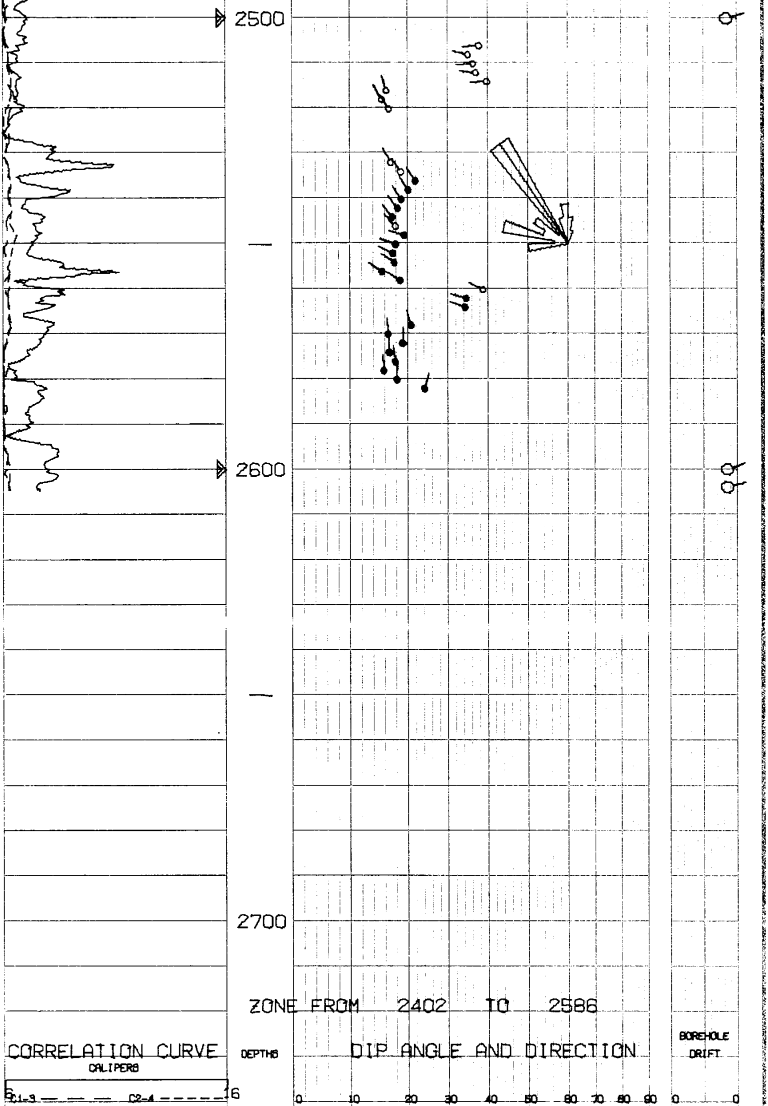
FOOT DUO-DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT



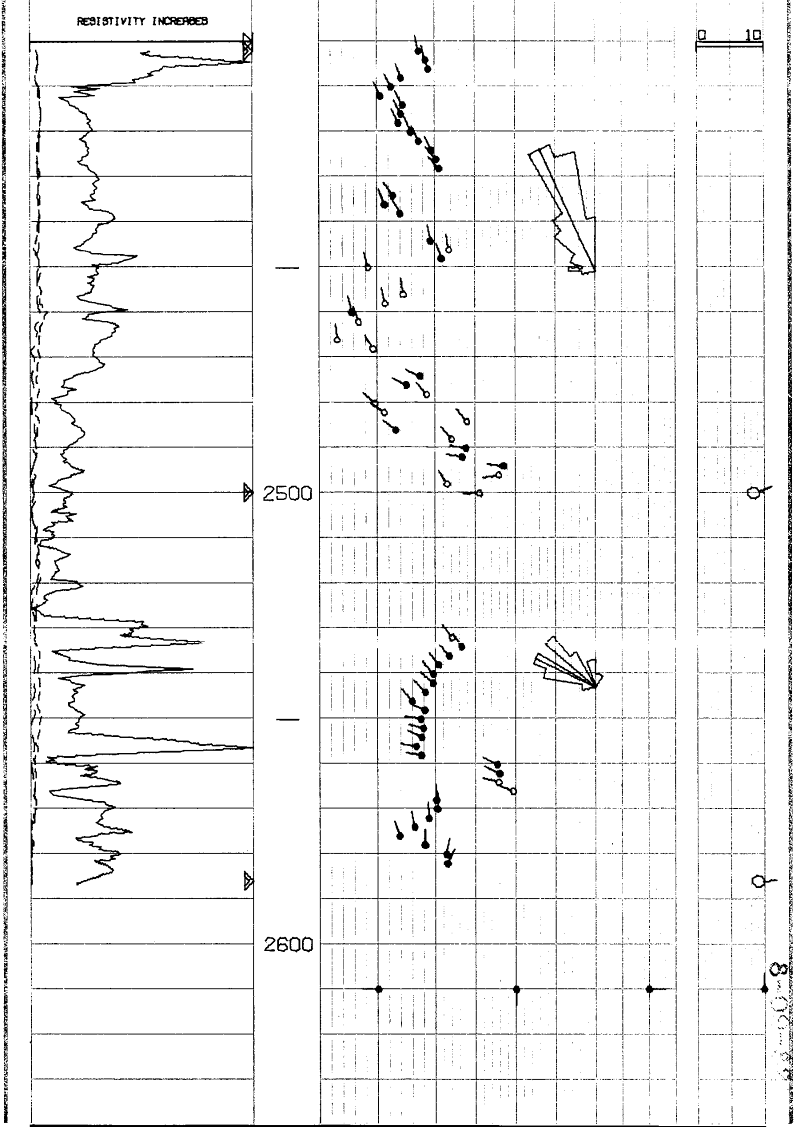
FOOT DUC-DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT



FOOT DUO DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT



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

COMPANY REICHHOLD ENERGY CORPORATION

WELL COLUMBIA COUNTY 32-33

FIELD MIST

COUNTY COLUMBIA STATE OREGON

Rm 2.23 @ 70 °F
Rmf 1.86 @ 76 °F
Rmc [illegible] @ [illegible] °F
BHT 97 °F

SCHL. FR 2606.0
SCHL. TD 2614.0
DRLR TD 2614.0
Elev:
KB 1104.2
DF N/A
GL 1092.8

-end-