CC 32-03-65

FOUR — ARM
HIGH RESOLUTION
CONTINUOUS DIPMETER
(COMPUTED)

Schlumberger

COUNTY COLUMBIA
FIELD or
LOCATION 3-6N-5W
WELL COLUMBIA COUNTY
NO. 32-3
COMPANY REICHHOLD ENERGY

COMPANY REICHHOLD ENERGY CORPORATION

WELL COLUMBIA COUNTY NO. 32-3

FIELD MIST-NEHALEM

COUNTY COLUMBIA **STATE** OREGON

LOCATION : 2488'NORTH & 748'EAST
OF THE SOUTHWEST ¼

Sec. 3 **Twp.** 6N **Rge.** 5W

Other Services:
DI-SFL
BHC

Permanent Datum: GL, Elev. 1297.37
Log Measured From KB 10.5 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 1307.8
D.F. --
G.L. 1297.3

Date	5-1-80			
Run No.	ONE			
Depth—Driller	3395			
Depth—Logger	3384			
Btm. Log Interval	3378			
Top Log Interval	445			
Casing—Driller	7" @447	@	@	@
Casing—Logger	445			
Bit Size	6¼"			
Type Fluid in Hole	LIGNOSULFO- NATE			
Dens. | Visc.	72 | 45			
pH | Fluid Loss	10.5 | 7 ml	ml	ml	ml
Source of Sample	FLOWLINE			
R_m @ Meas. Temp.	1.55 @67 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	0.74 @76 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	1.98 @77 °F	@ °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	M | M			
R_m @ BHT	1.22 @87 °F	@ °F	@ °F	@ °F
Time Since Circ.	1½ HOURS			
Max. Rec. Temp.	87 °F	°F	°F	°F
Equip. | Location	8128 | SAC			
Recorded By	LINDGREN/BORATKO			
Witnessed By	BRUER			

RECEIVED-PTLD
JUL 1 1980
DEPT OF GEOLOGY & MINERAL INDUS.

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			HDT-D	
HDM No.			1726	
Magnetic Declination			20°	
Analog Panel No.			--	
Digital Panel No.			962	
Correlated By			--	
Computed By			PCDCC	
Plotted By			PCDCC	

Remarks — SERVICE ORDER NO.
123911

"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°

DIPMETER ARROW PLOT

5-12-80 12391

REICHOLD ENERGY CORP.
COLUMBIA COUNTY 32-3
MIST-NEHALEM FIELD
COLUMBIA COUNTY, OREGON
RUN NO. ONE 1-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 4347.00

MAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT

FOOT DUO-DECIMAL .500 IN. GRID

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

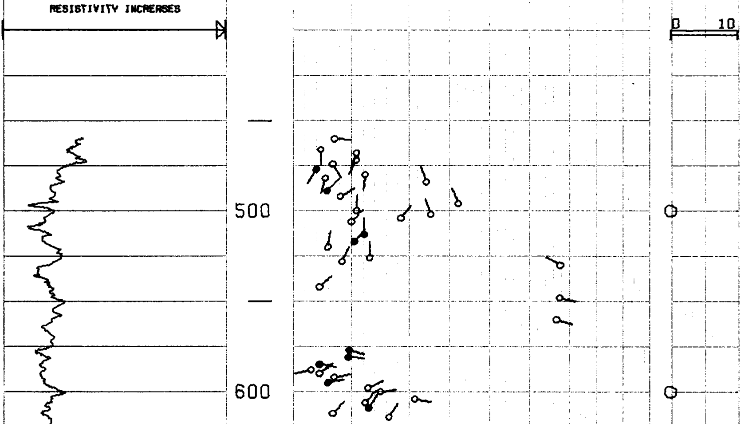
CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

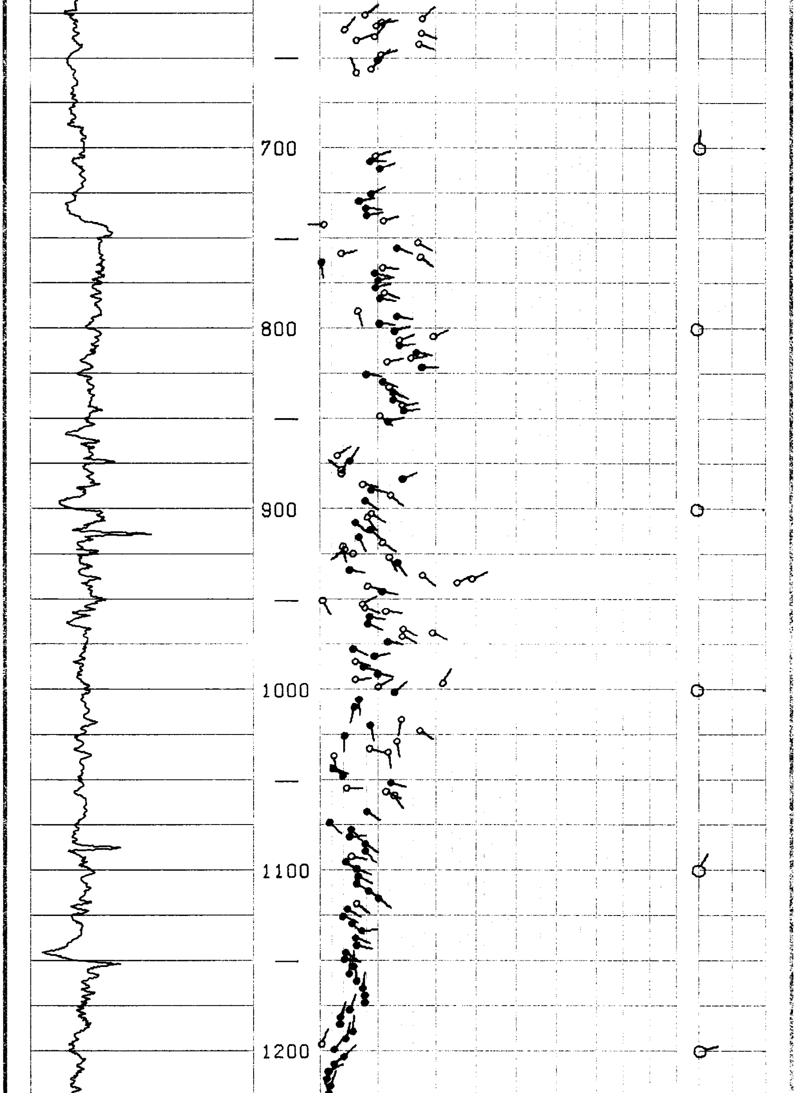
SEARCH ANGLE 30 DEGREES X2

PC0130023518307001020420

ZONE FROM 460 TO 3358

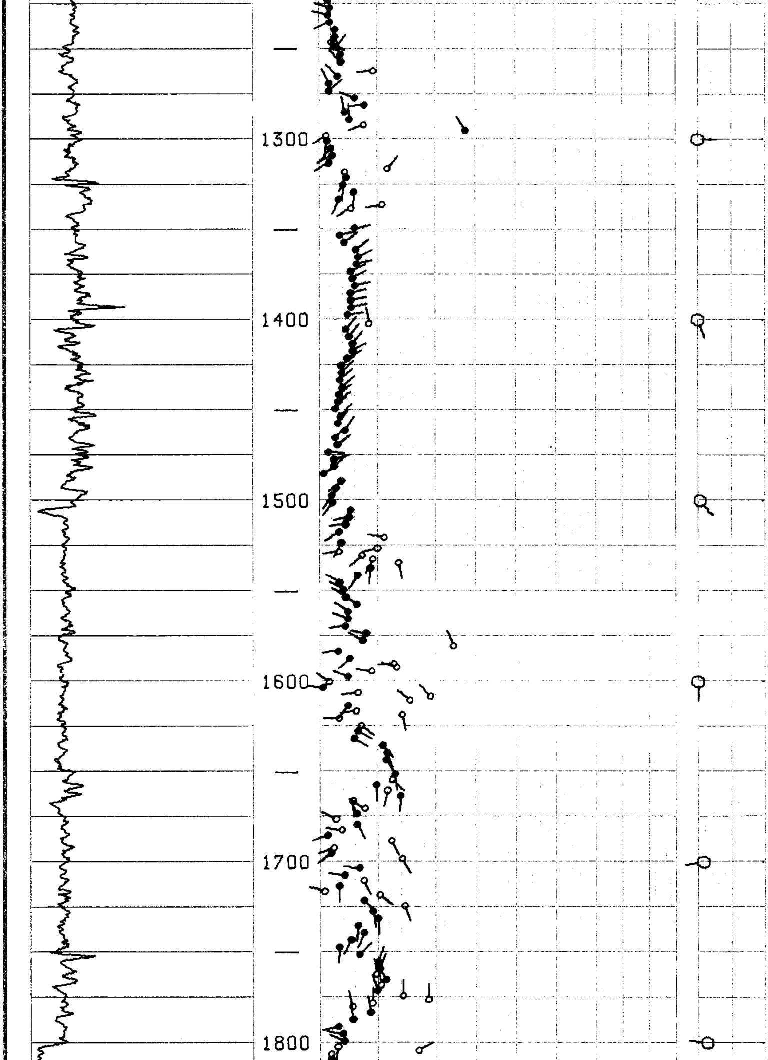


SCHLUMBERGER DIPMETER ARROW PLOT



FOOT DUO-DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT



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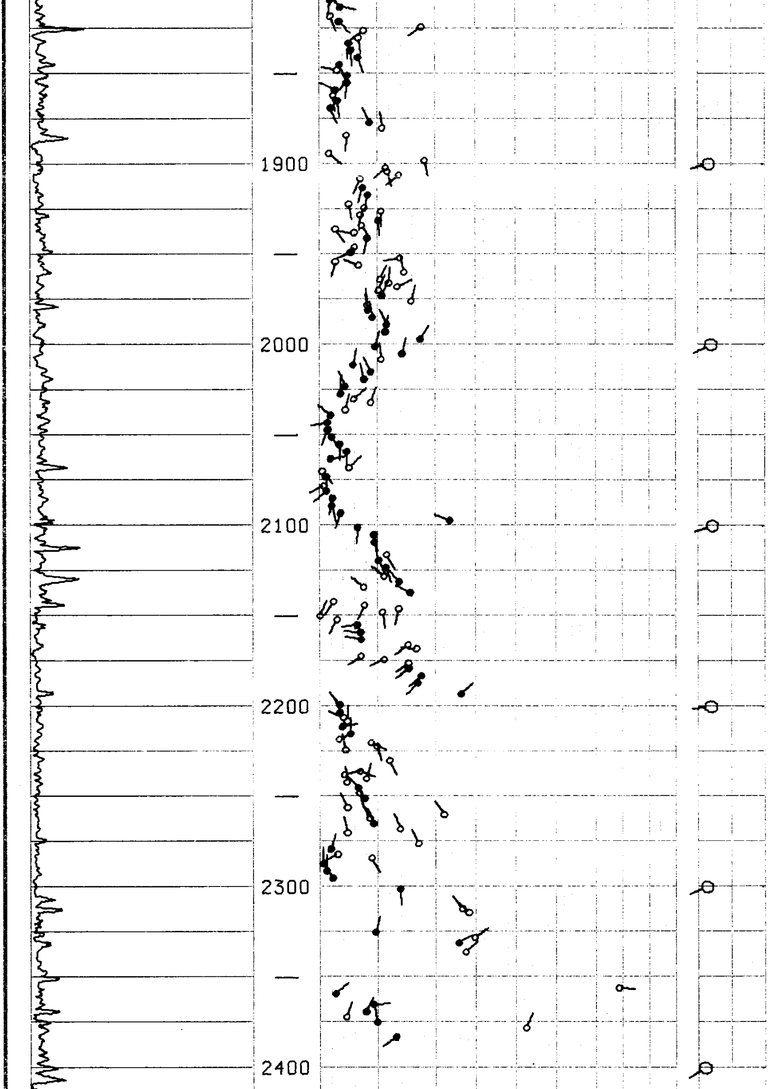

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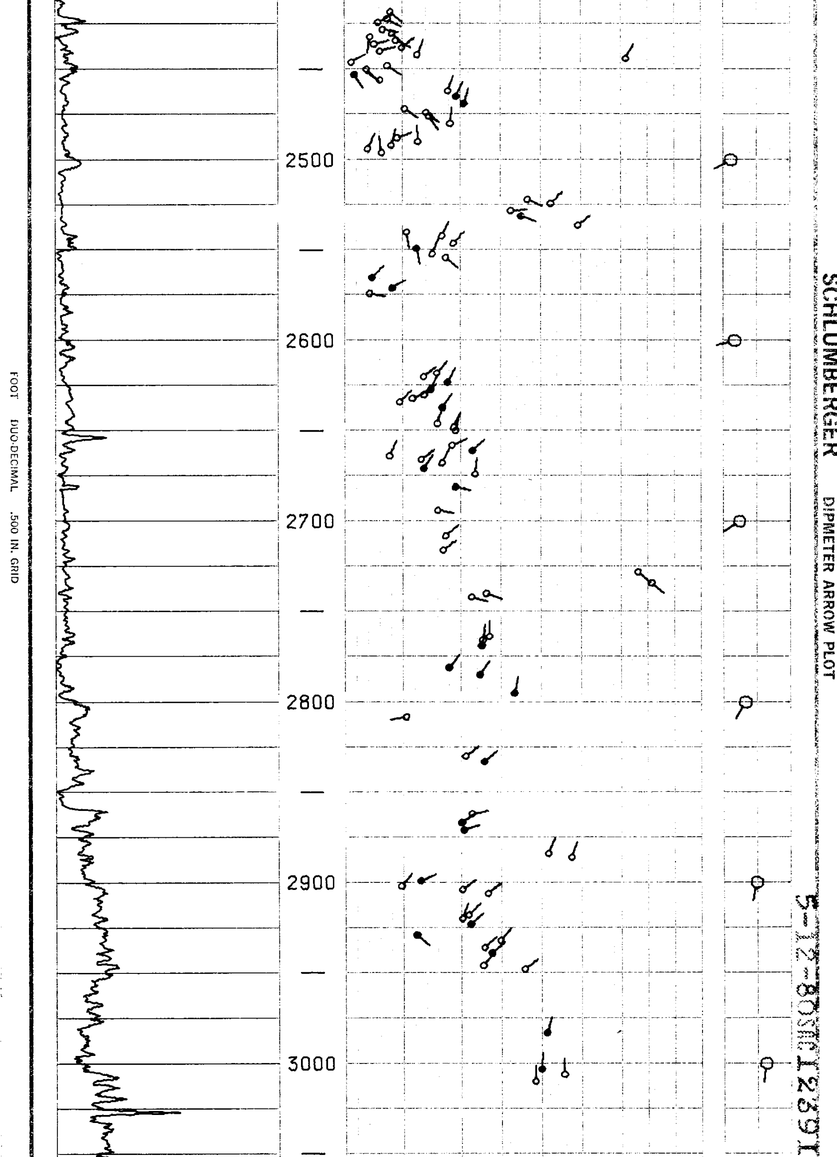

SCHLUMBERGER DIPMETER ARROW PLOT

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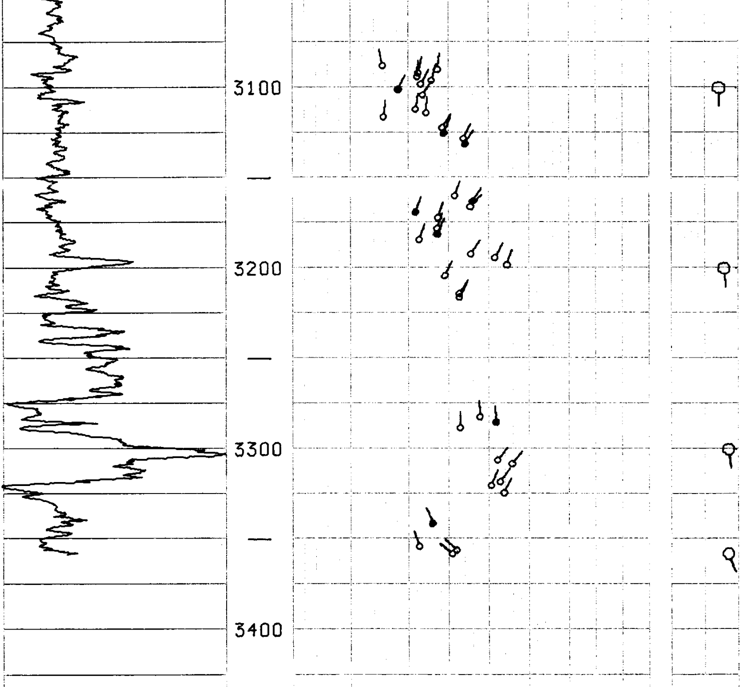
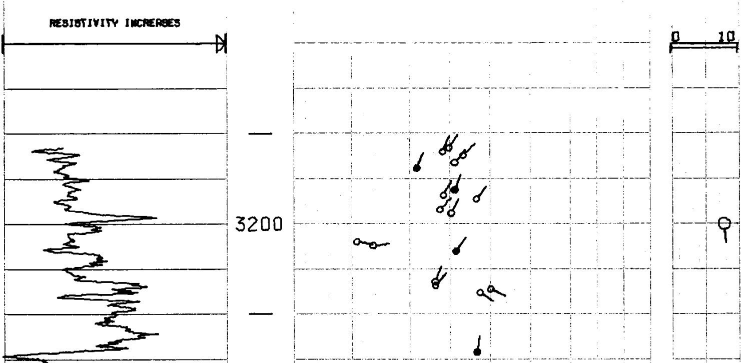
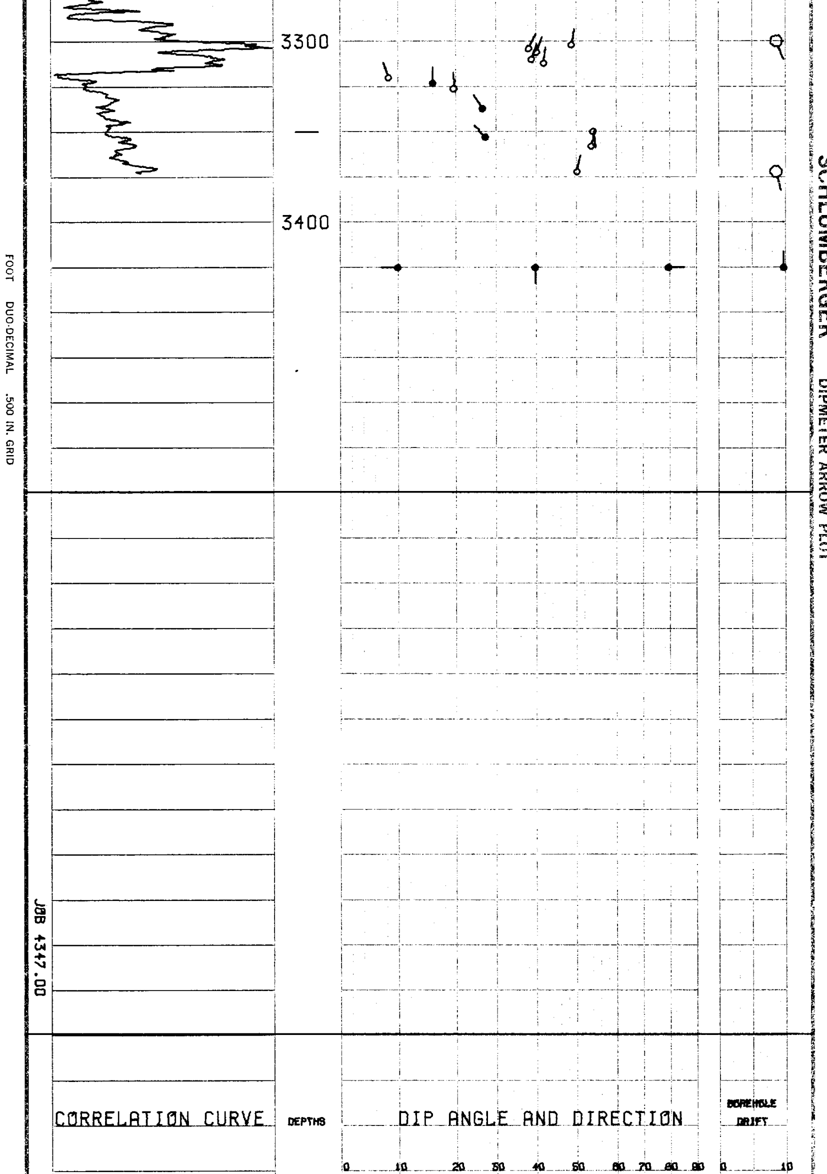


ZONE FROM 3158 TO 3372





ALL QUALITY ARROW PLOT 4347

FROM THE CLUSTER PROGRAM

BLACK ARROWS ARE HIGHEST QUALITY

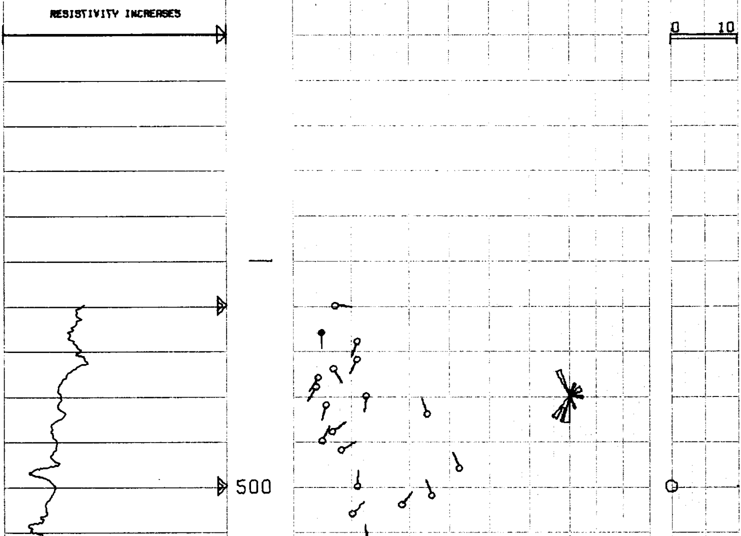
CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 30 DEGREES X2

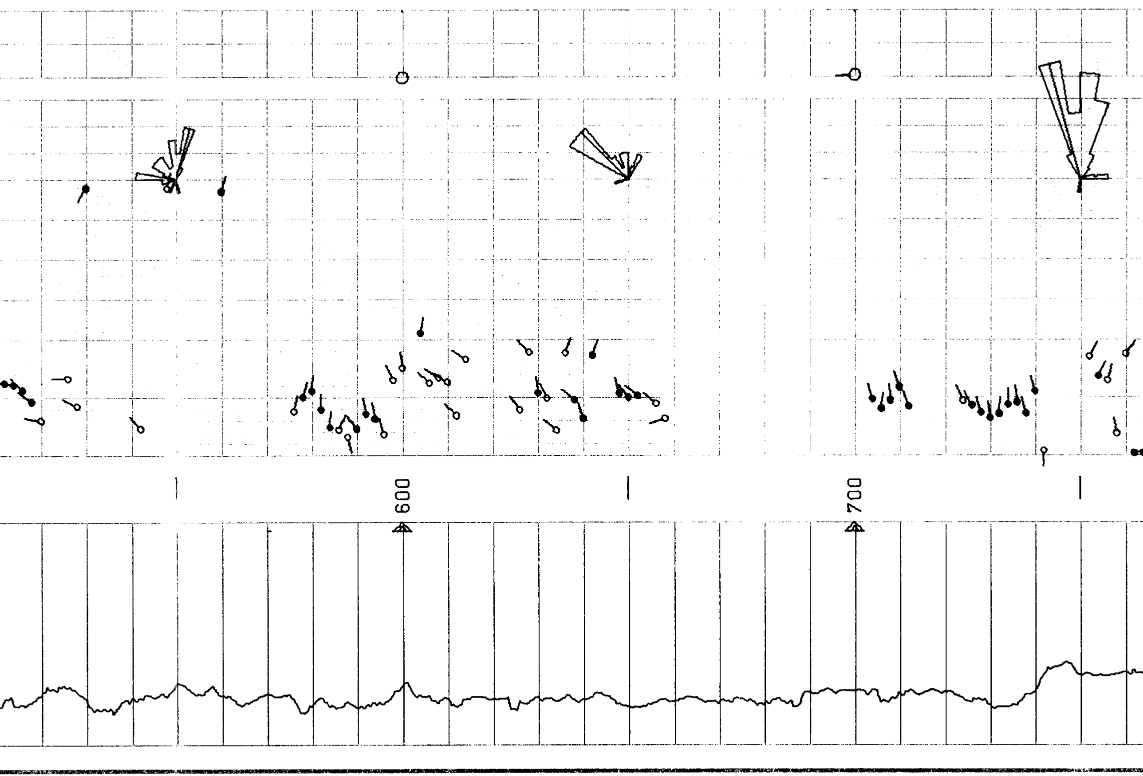
PC0130023518307001020420

ZONE FROM 460 TO 3378



FOOT DUO-DECIMAL .500 IN. GRID

DIPMETER ARROW PLOT



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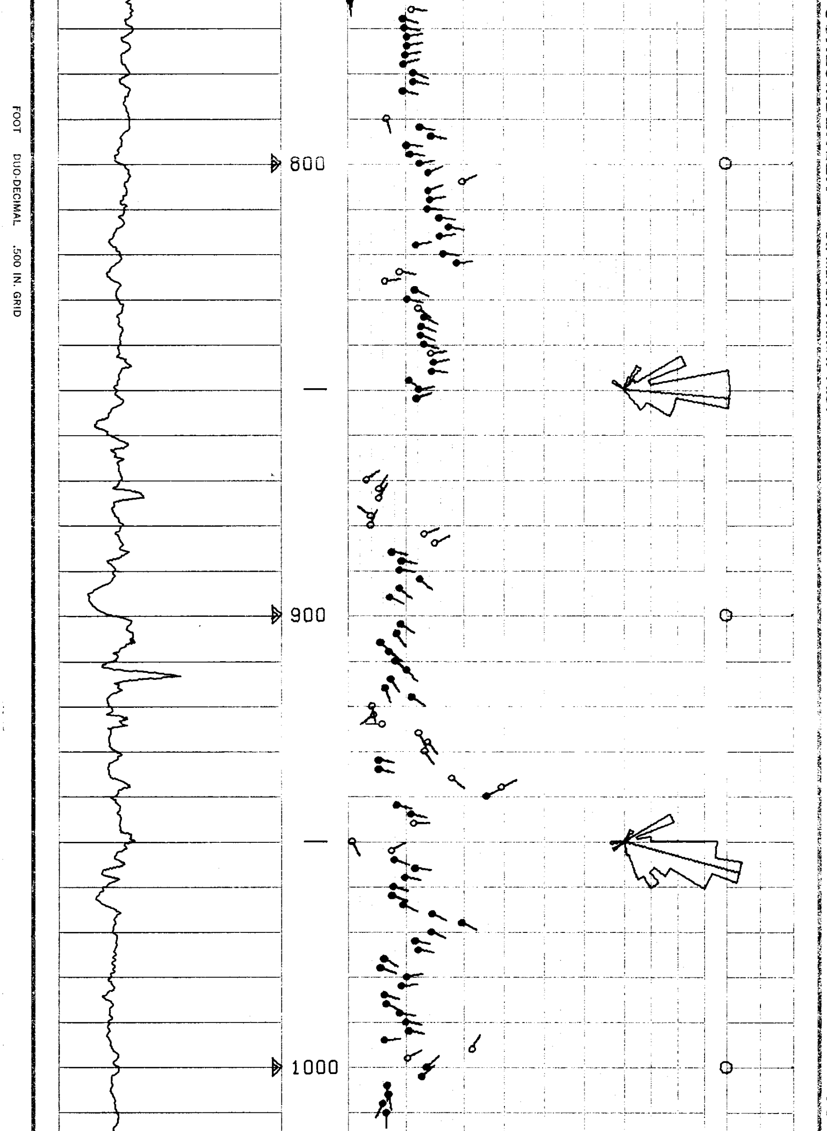
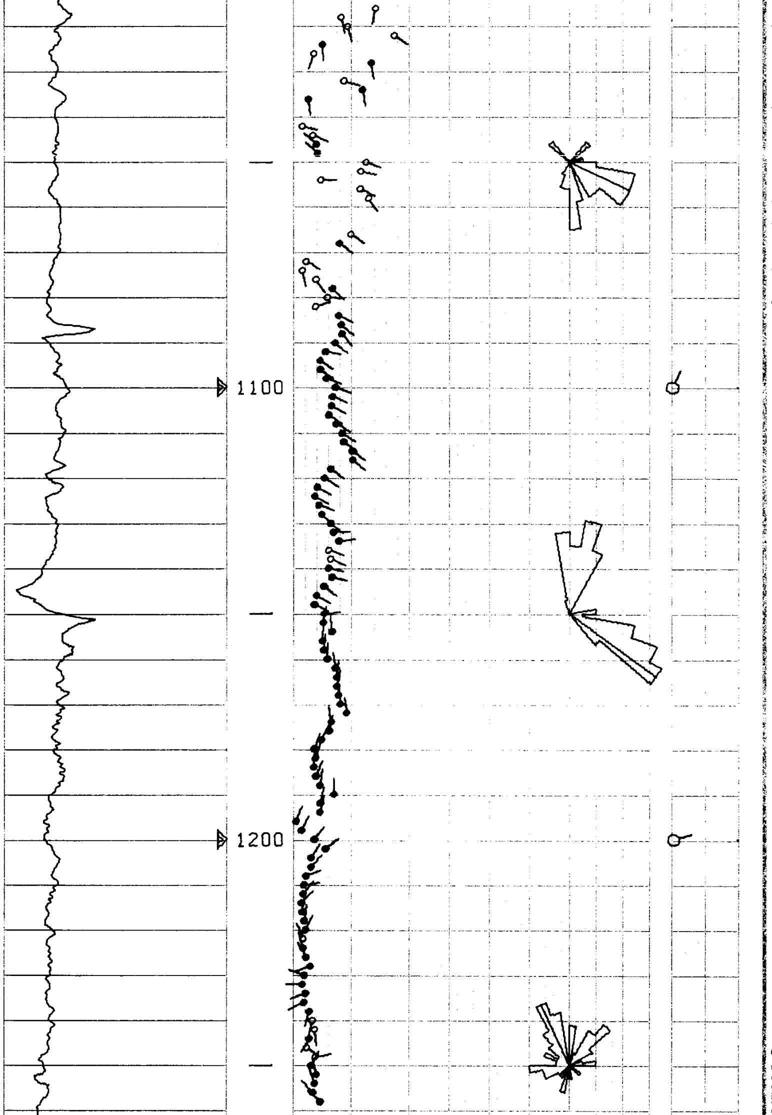
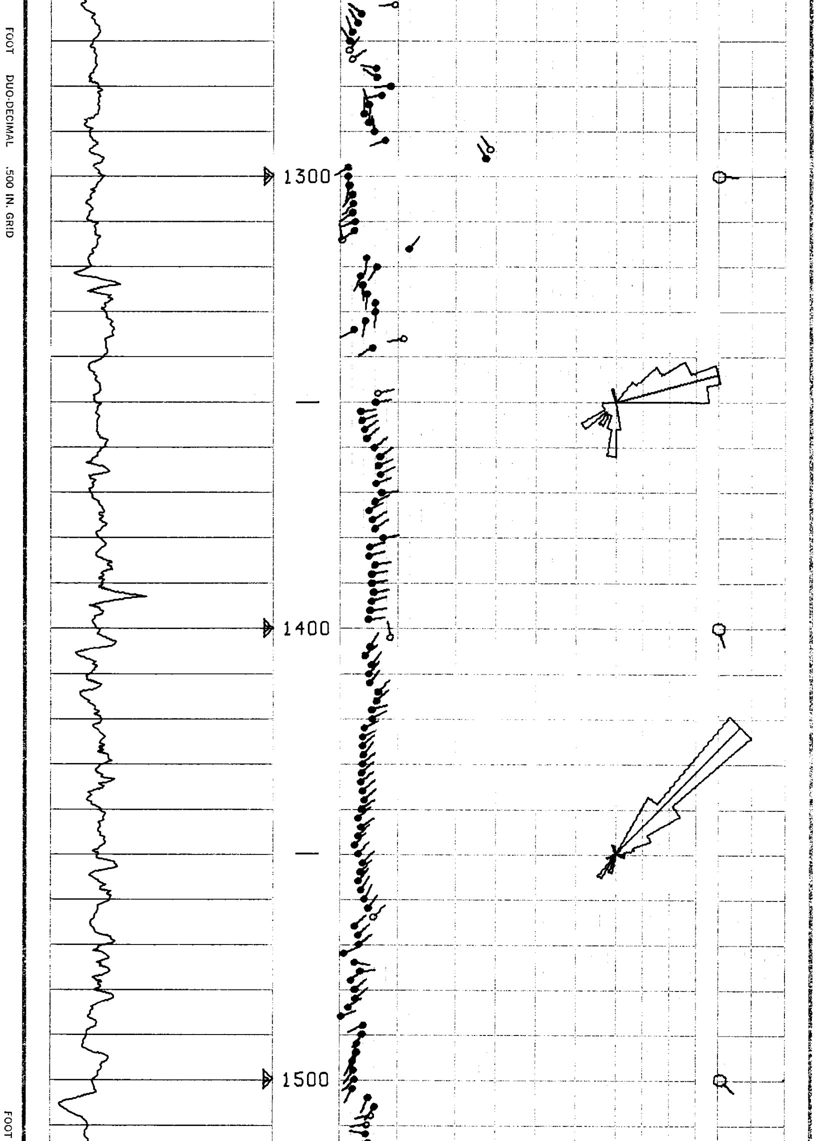
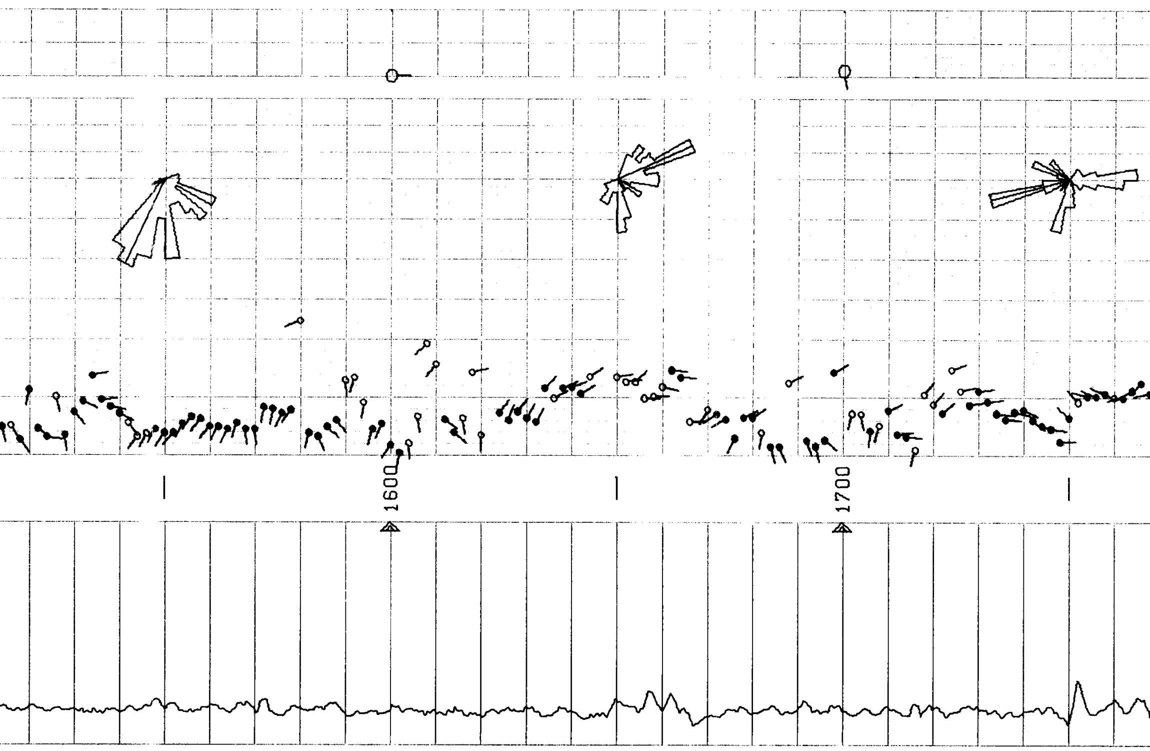
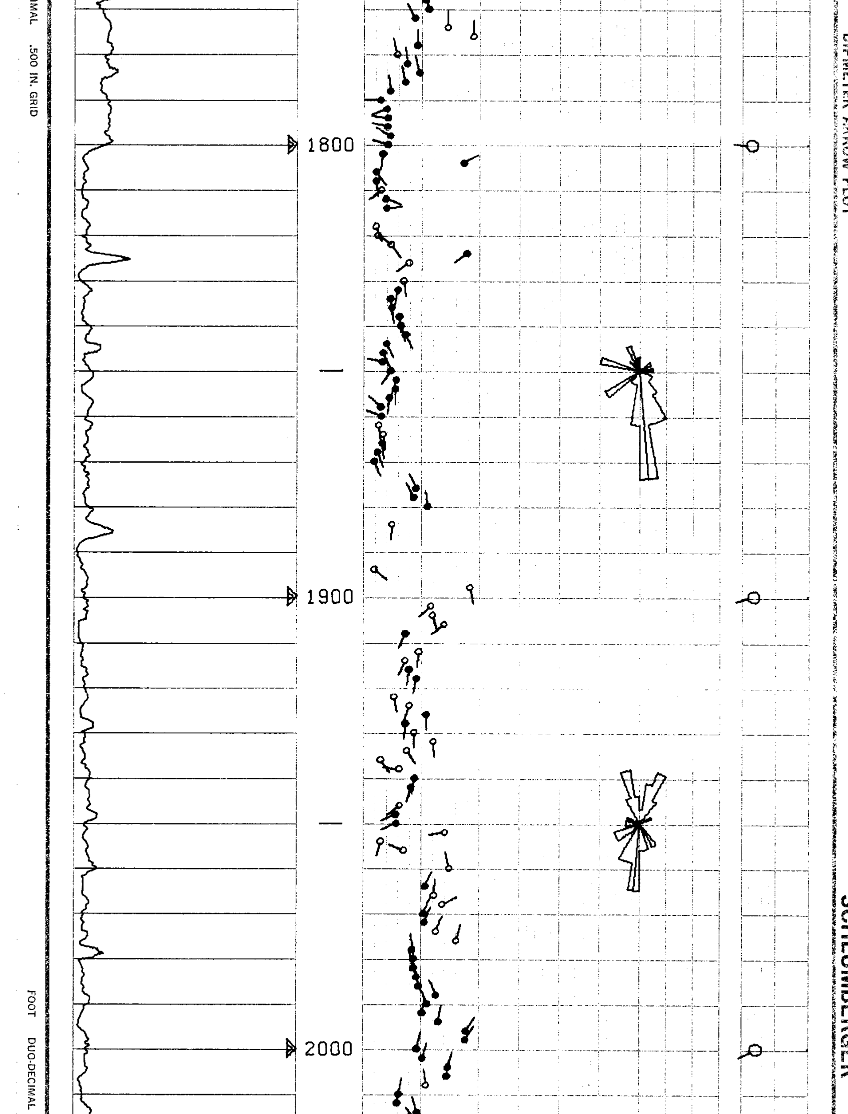








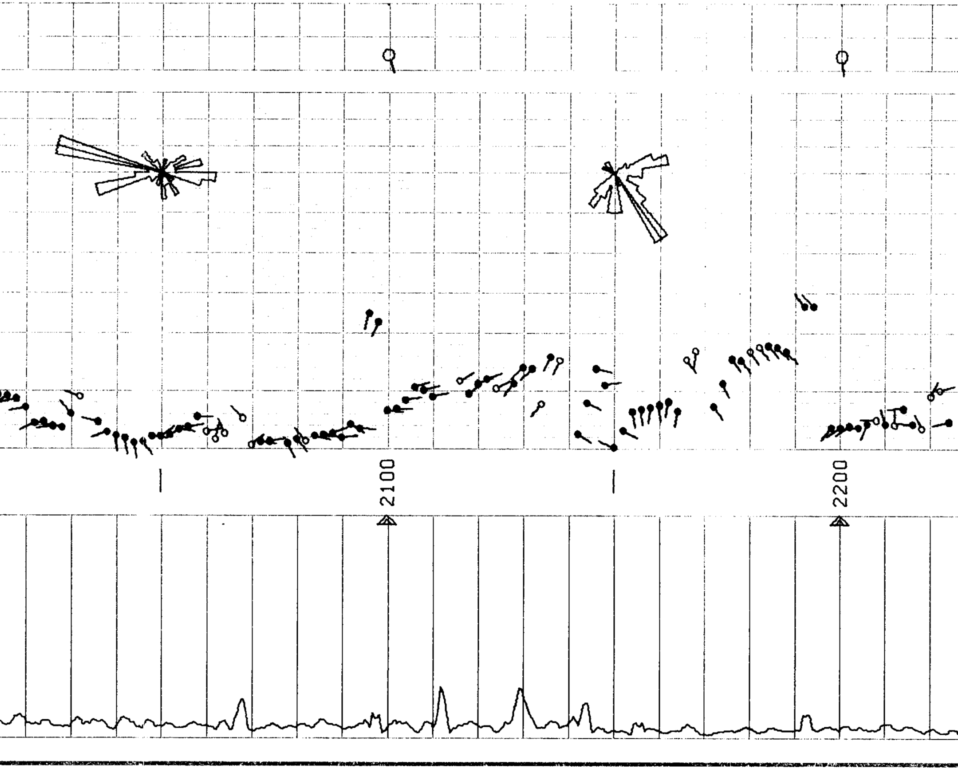
DUO-DECIMAL .500 IN. GRID FOOT DUO-DEC



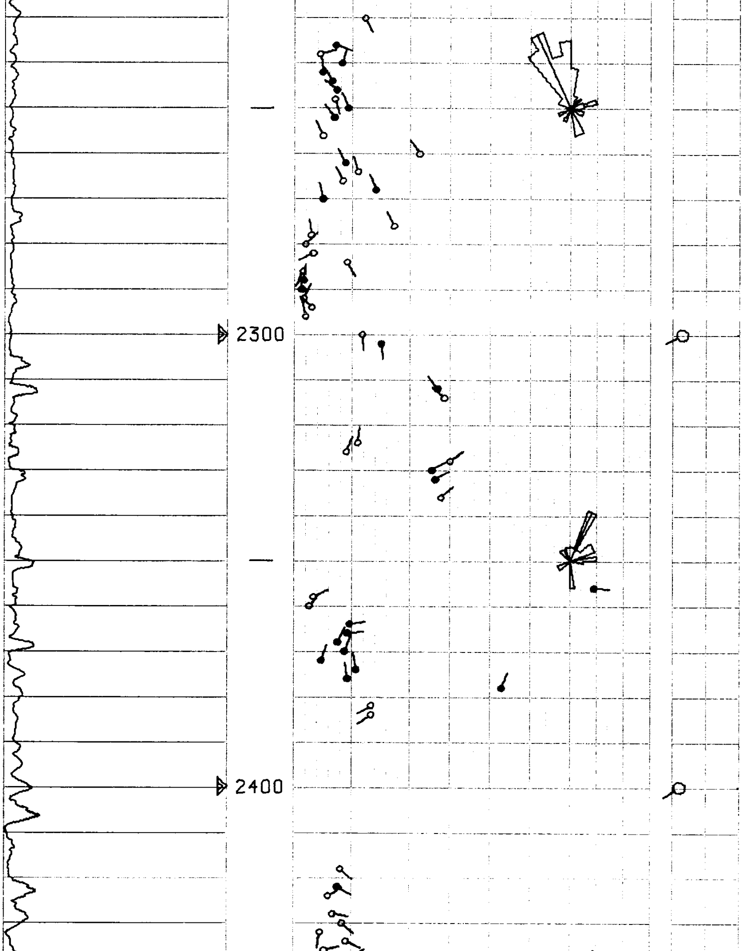
DIPMETER ARROW PLOT

SCHLUM

5-12-80SM 123911

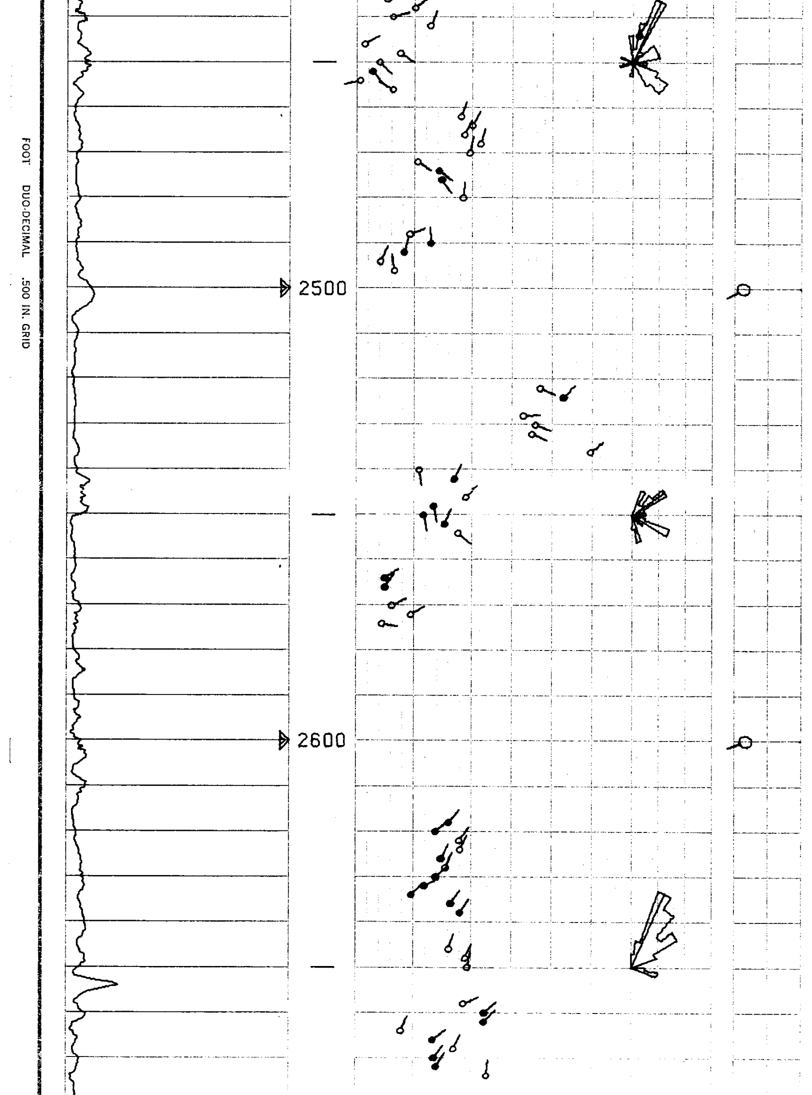


BERGER DIPMETER ARROW PLOT

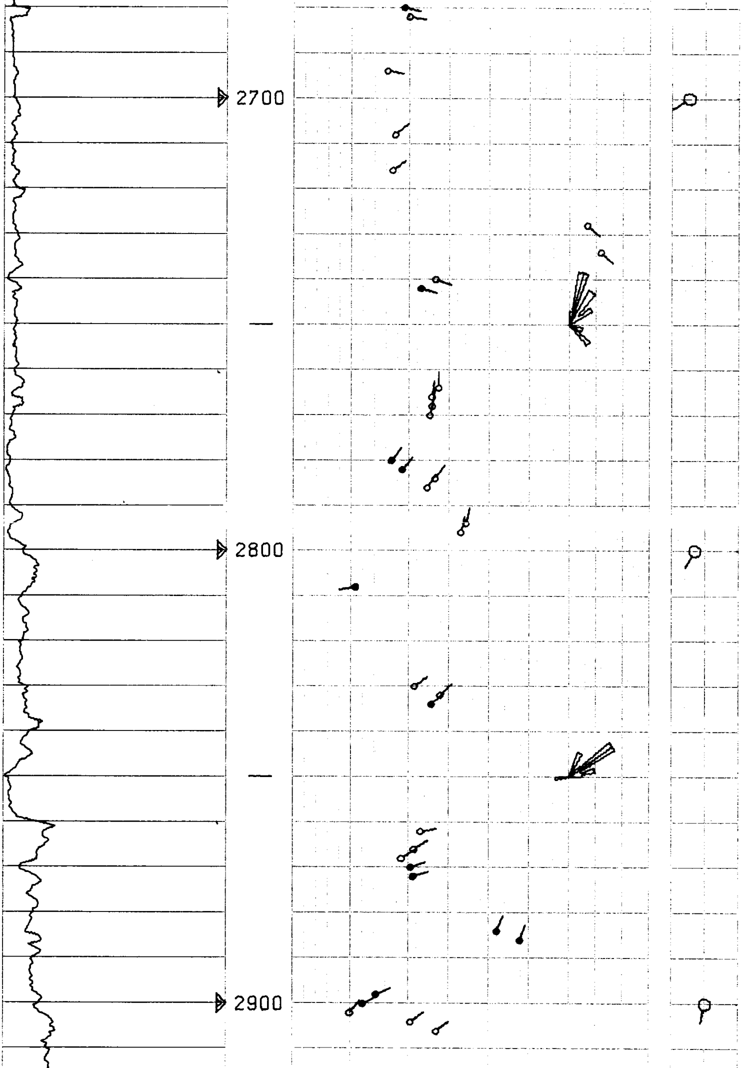


FOOT DUO-DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT

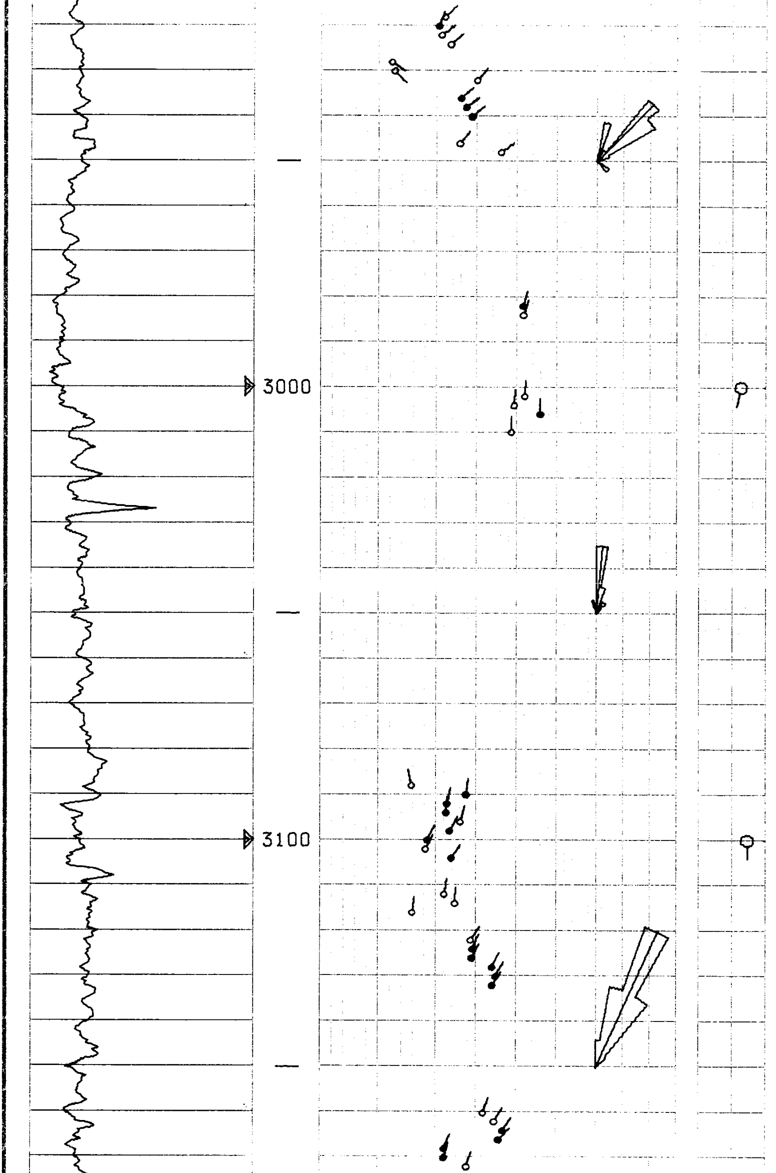


SCHLUMBERGER DIPMETER ARROW PLOT



FOOT DUO-DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT

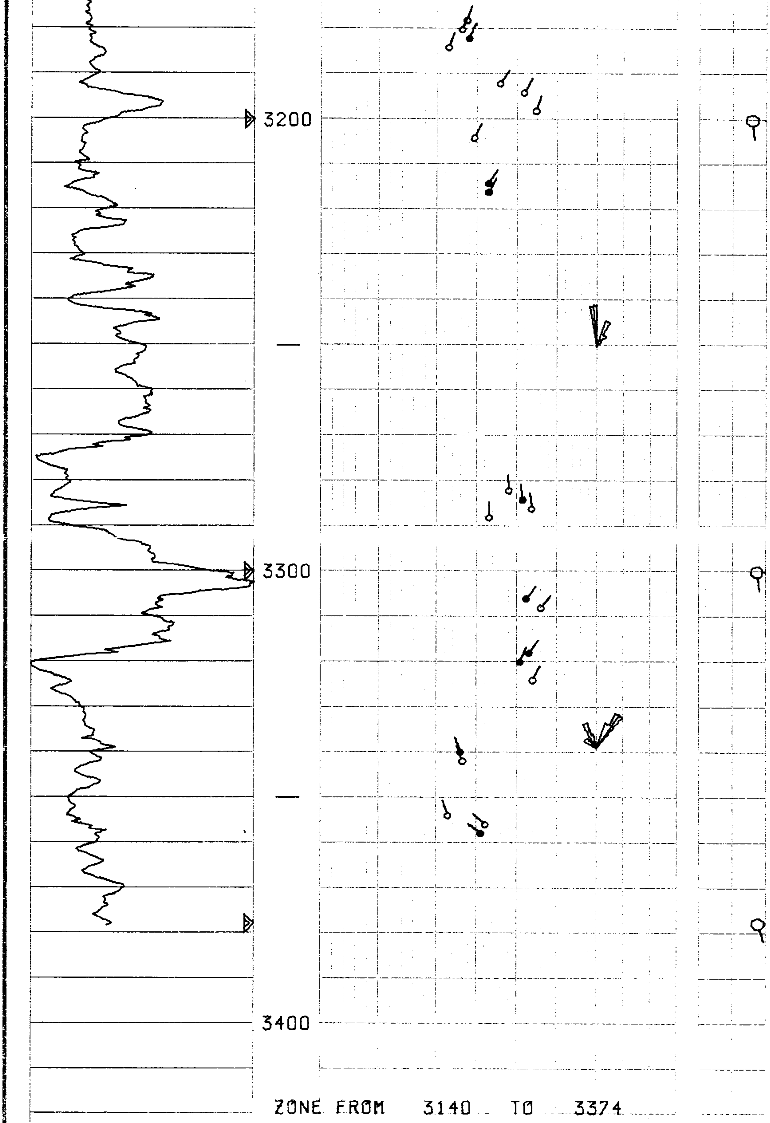


FOOT DUO-DECIMAL .500 IN. GRID

LUMBERGER DIPMETER ARROW PLOT

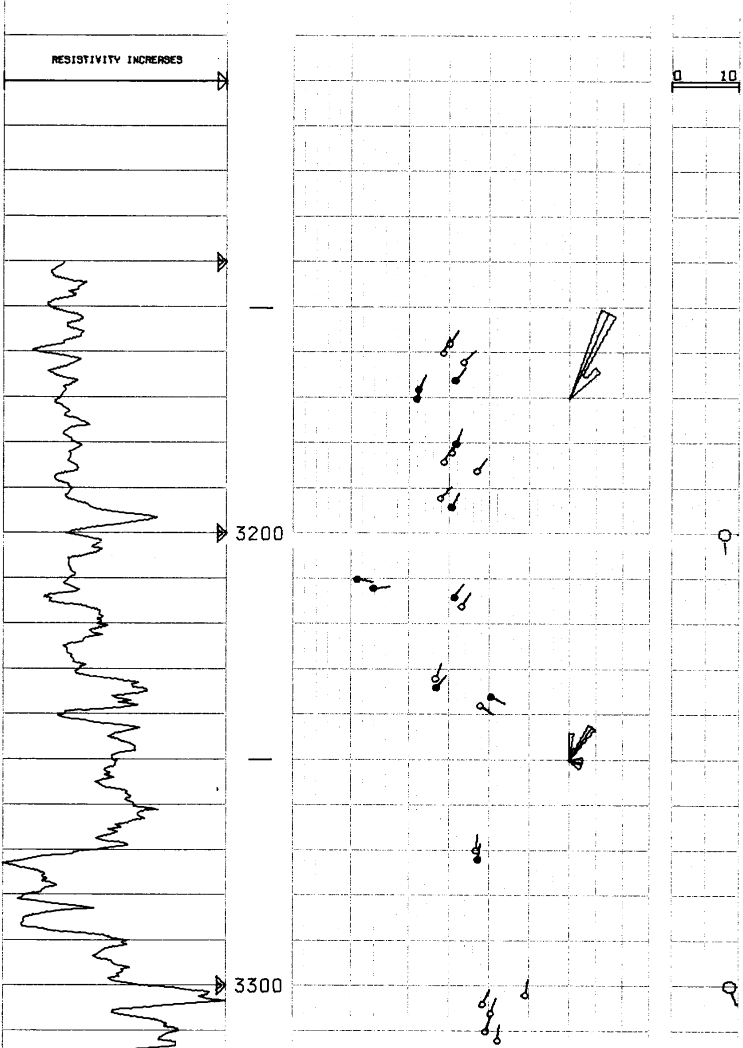
SCHLU

FOOT DUO-DECIMAL .500 IN. GRID

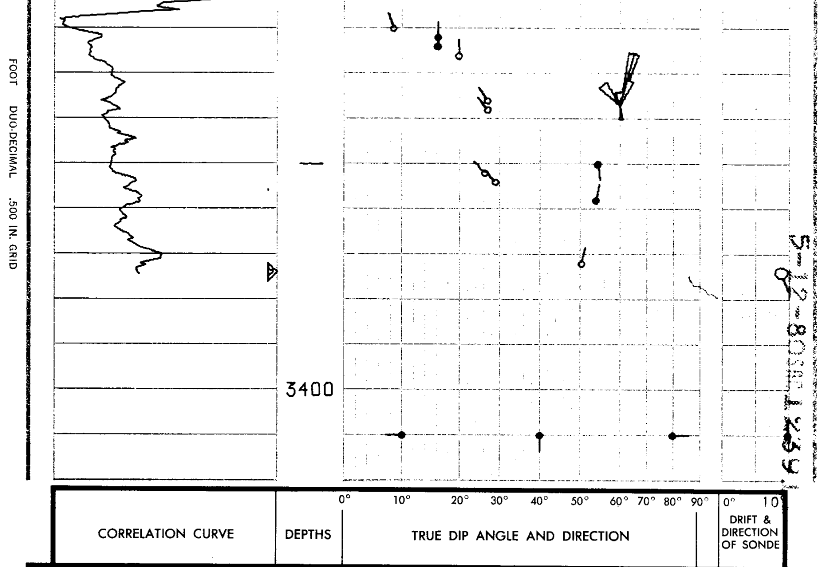


MBERGER DIPMETER ARROW PLOT

SCH



FOOT DUO-DECIMAL .500 IN. GRID



5-12-80 [illegible] 1239

COMPANY REICHHOLD ENERGY CORPORATION	**Rm** 1.55 @ 67 °F	**SCHL. FR** 3378
WELL COLUMBIA COUNTY NO. 32-3	**Rmf** 0.74 @ 76 °F	**SCHL. TD** 3384
	Rmc 1.98 @ 77 °F	**DRLR TD** 3395
FIELD MIST-NEHALEM	**BHT** 87 °F	**Elev:**
		KB 1307.87
COUNTY COLUMBIA **STATE** OREGON		**DF** --
		GL 1297.37