CC 12

APR 22 1980

Schlumberger

FOUR — ARM
HIGH RESOLUTION
CONTINUOUS DIPMETER
(COMPUTED)

COUNTY COLUMBIA
FIELD or LOCATION 14-6N-5W
WELL COLUMBIA COUNTY NO. 12 REDRILL NO. 1
COMPANY REICHHOLD ENERGY

COMPANY REICHHOLD ENERGY CORPORATION

WELL COLUMBIA COUNTY NO.12 REDRILL NO. 1

FIELD MIST-NEHALEM BASIN

COUNTY COLUMBIA **STATE** OREGON

LOCATION 39'SOUTH & 209'EAST OF THE NORTHWEST CORNER OF:
Sec. 14 Twp. 6N Rge. 5W

Other Services: DI-SFL

Permanent Datum: GL, Elev. 797.65
Log Measured From KB, 10.8 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 808.45
D.F. --
G.L. 797.65

Date	3-1-80			
Run No.	ONE			
Depth—Driller	3364			
Depth—Logger	3364			
Btm. Log Interval	3360			
Top Log Interval	398			
Casing—Driller	7" @ 399	@	@	@
Casing—Logger	398			
Bit Size	6¼"			
Type Fluid in Hole	LIGNOSULFONATE			
Dens. | Visc.	81 | 47			
pH | Fluid Loss	10.5 | 5 ml	ml	ml	ml
Source of Sample	CIRCUALTION			
R_m @ Meas. Temp.	1.38 @ 61 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	1.34 @ 40 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	2.10 @ 40 °F	@ °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	M | M			
R_m @ BHT	0.82 @ 94 °F	@ °F	@ °F	@ °F
Time Since Circ.	5½ HOURS			
Max. Rec. Temp.	94 °F	°F	°F	°F
Equip. | Location	8126 | SAC			
Recorded By	FINNELL			
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.	--			
Magnetic Declination	20°			
Analog Panel No.	--			
Digital Panel No.	958			
Correlated By	--			
Computed By	PCDCC			
Plotted By	PCDCC			

Remarks — SERVICE ORDER NO. 123951

"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

VERTICAL DISPLACEMENT FOR HORIZONTAL DISTANCES OF

VERTICAL DISPLACEMENT FOR HORIZONTAL DISTANCES OF

DIP ANGLES (degrees)	100′	1000′	1 mile (5280′)	DIP ANGLES (degrees)	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°

SCHLUMBERGER DIPMETER ARROW PLOT

[illegible]

REICHHOLD ENERGY CORP
COLUMBIA CO. #12 RD#1
MIST-NEHALEM FIELD
COLUMBIA COUNTY,OREGON
RUN NO. TWO 14-MAR-80
P.C.D.C.
ARROW PLOT FROM CLUSTER PROGRAM

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

JOB 4215.00

1001 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

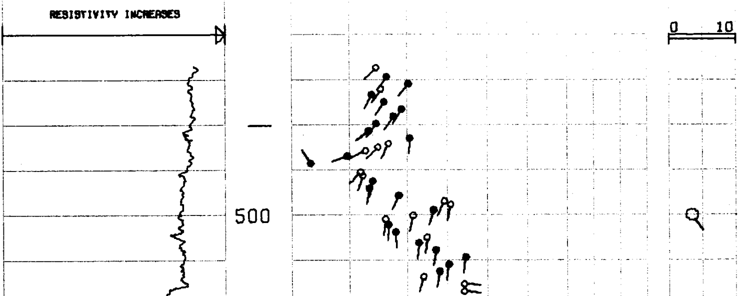
CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 30 DEGREES X2

PC01300235183070010204 20

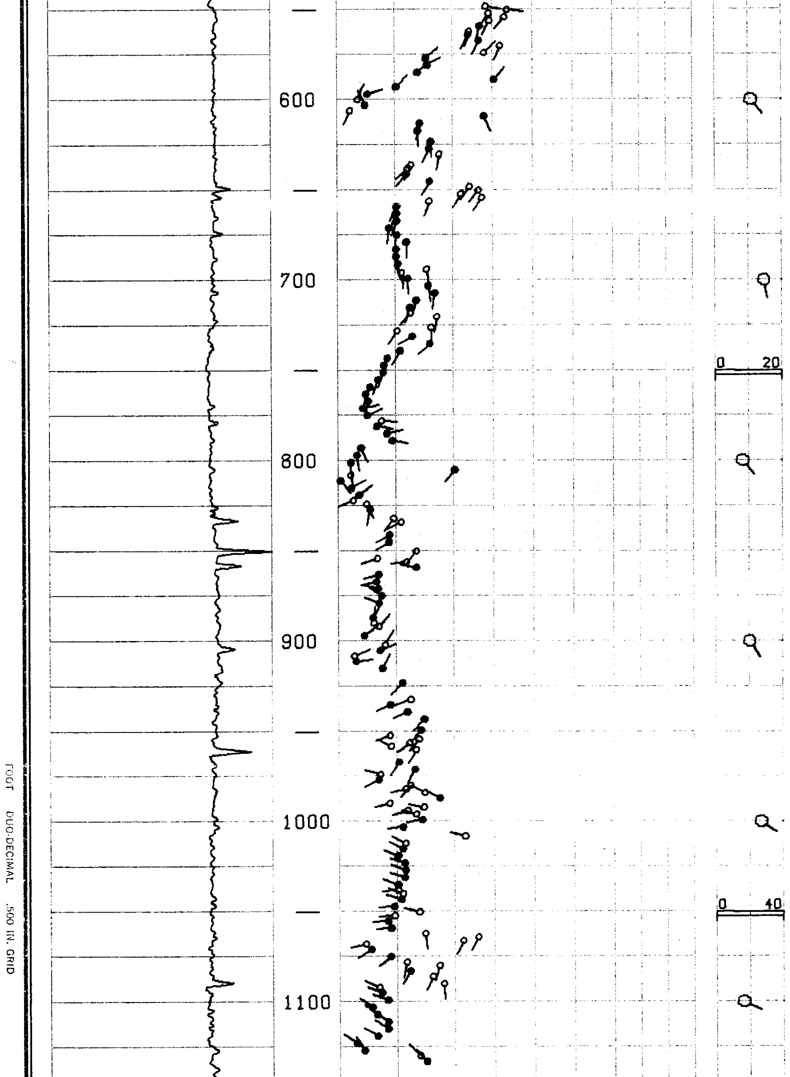
ZONE FROM 418 TO 3352

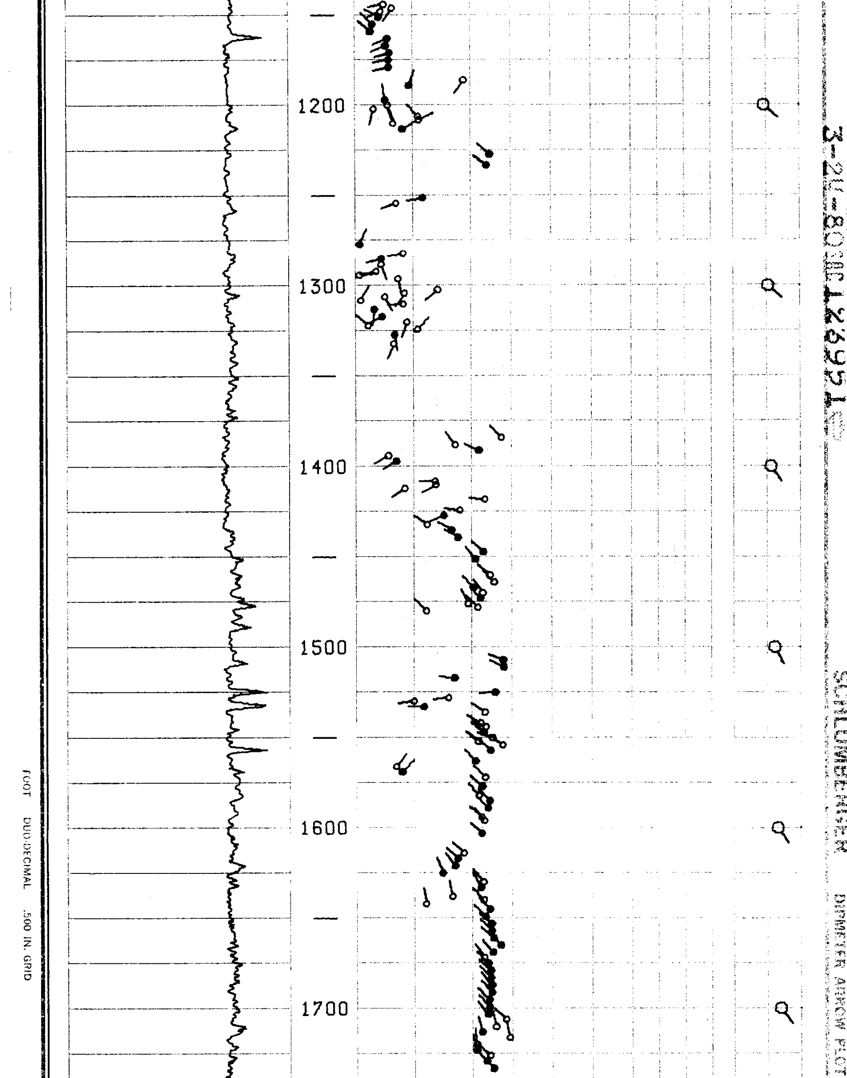


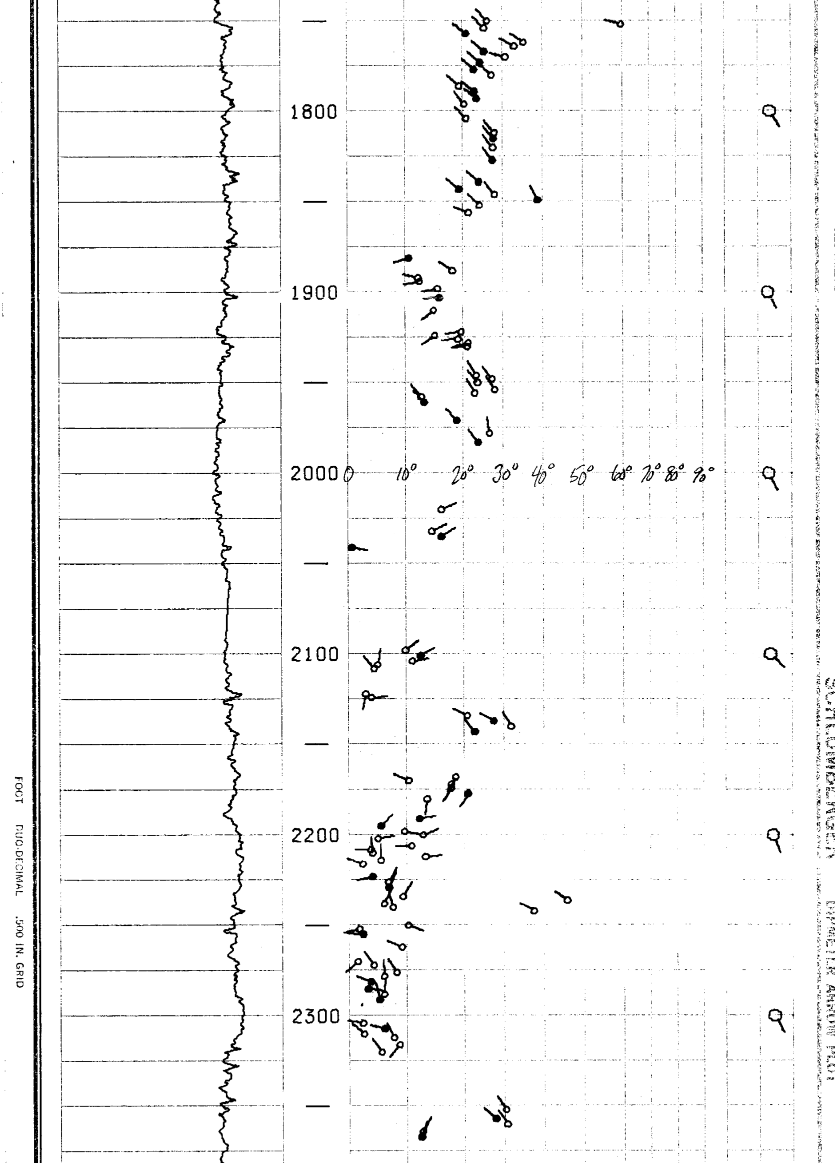
SCHLUMBERGER DIPMETER ARROW PLOT

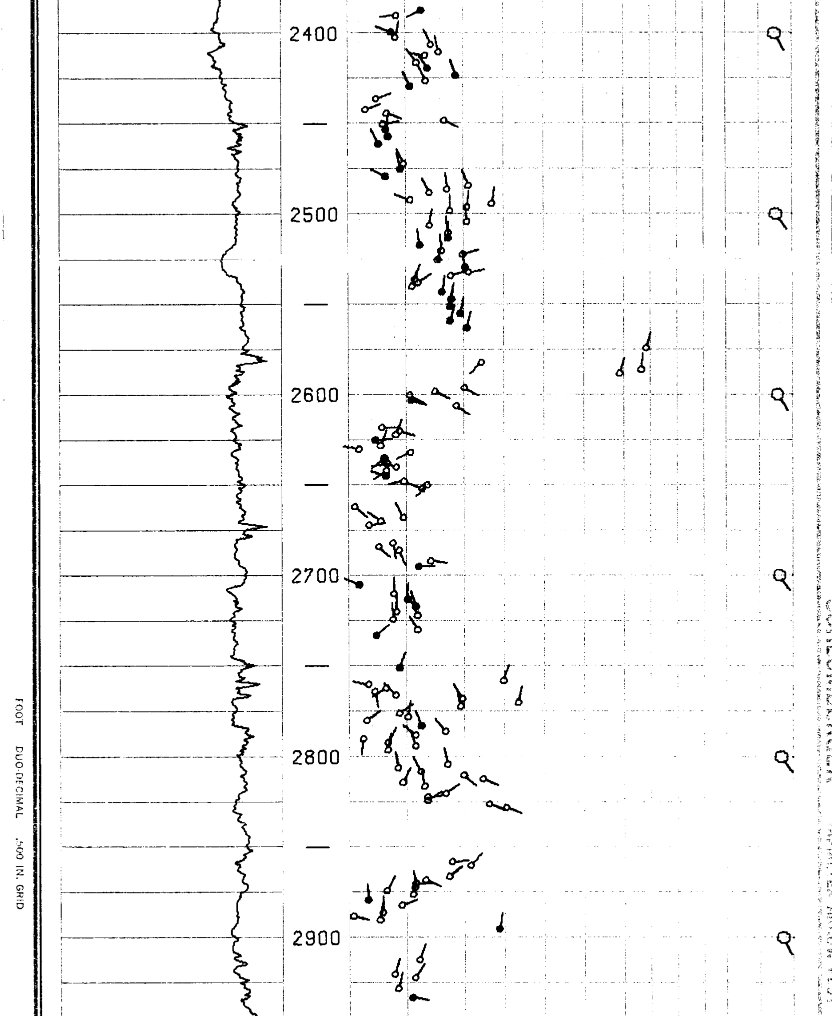
FOOT DUO-DECIMAL .500 IN. GRID

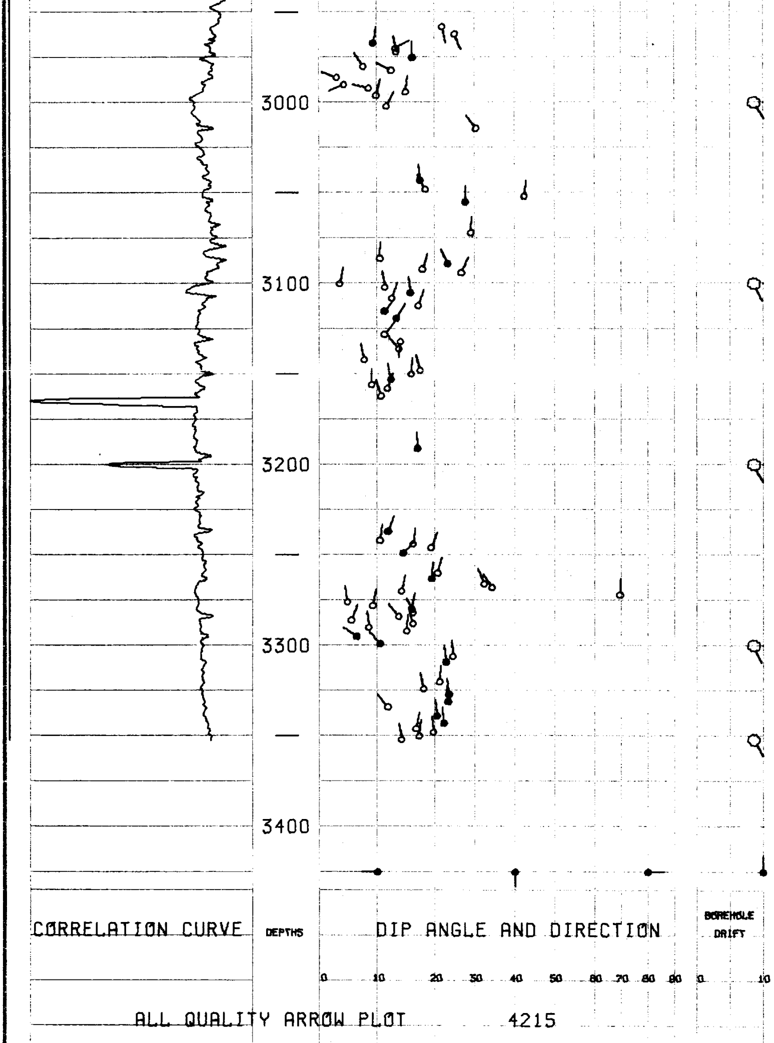
SCHLUMBERGER DIPMETER ARROW PLOT











FOOT DUO DECIMAL

FOOT DUO-DECIMAL .500 IN. GRID

FROM THE CLUSTER PROGRAM

BLACK ARROWS ARE HIGHEST QUALITY

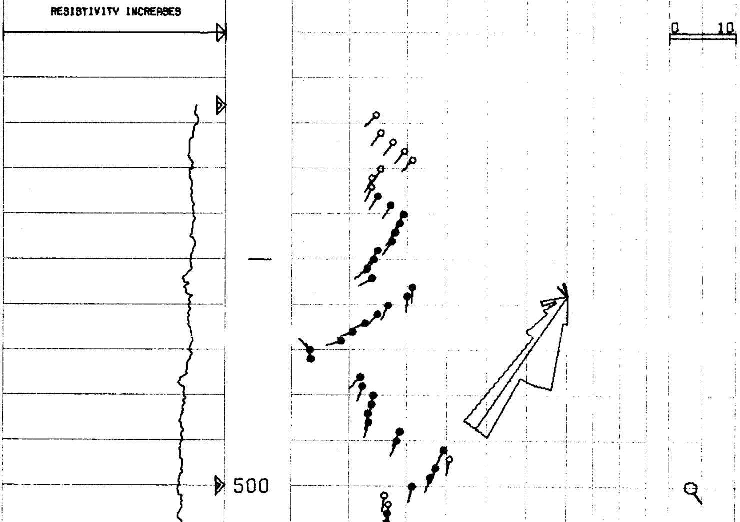
CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

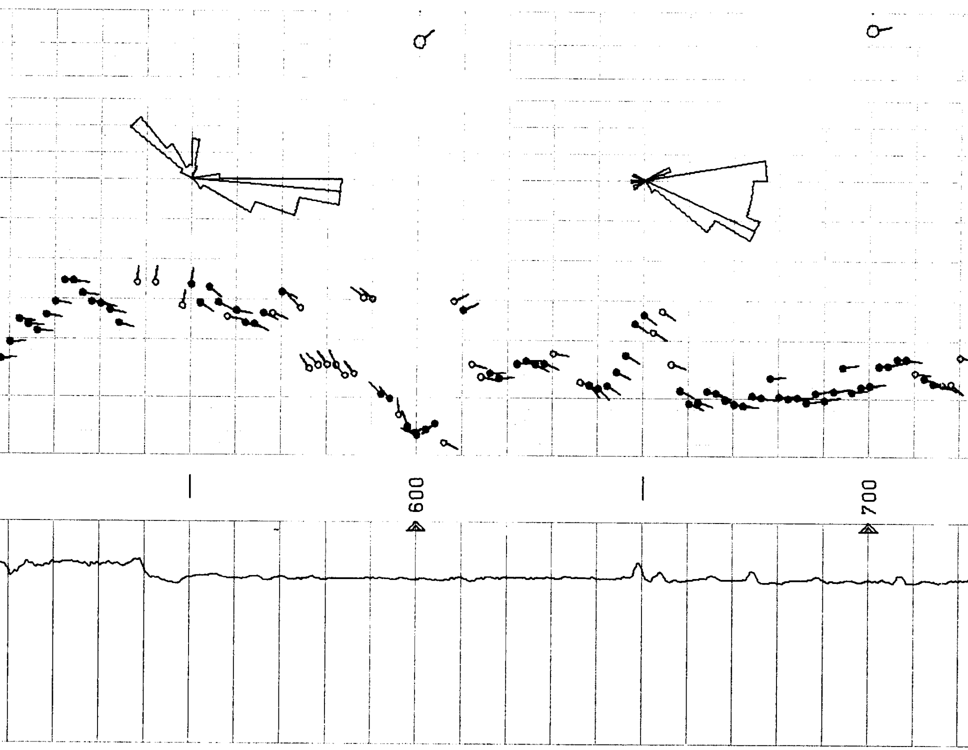
SEARCH ANGLE 30 DEGREES X2

PC0130023518307001020420

ZONE FROM 416 TO 3352

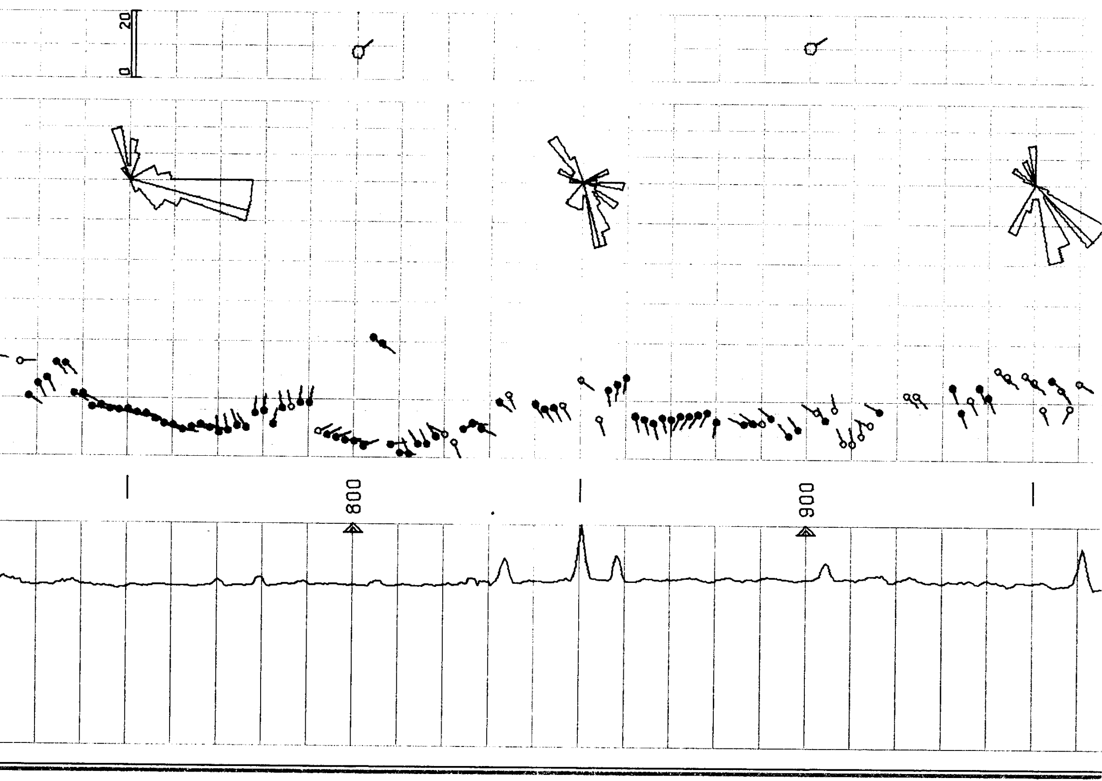


SCHLUMBERGER DIPMETER ARROW PLOT 3-2U-80SEC123951



FOOT DUO-DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT



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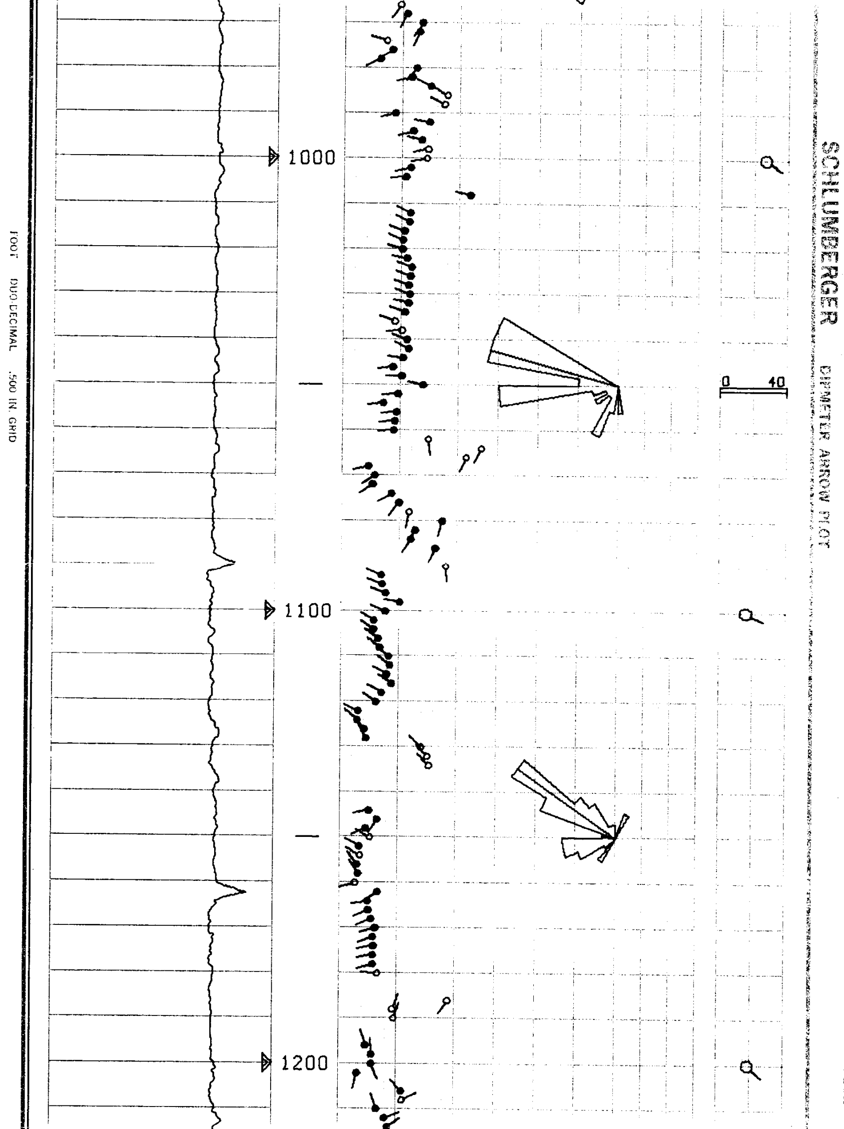

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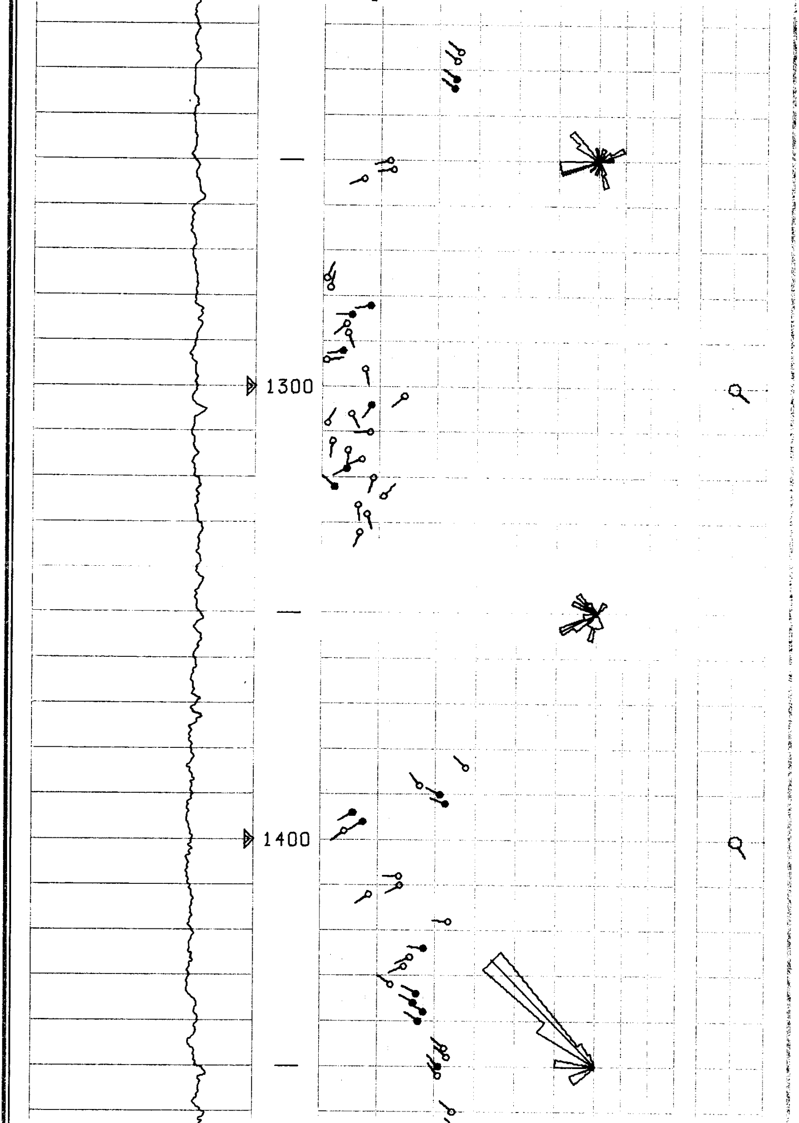
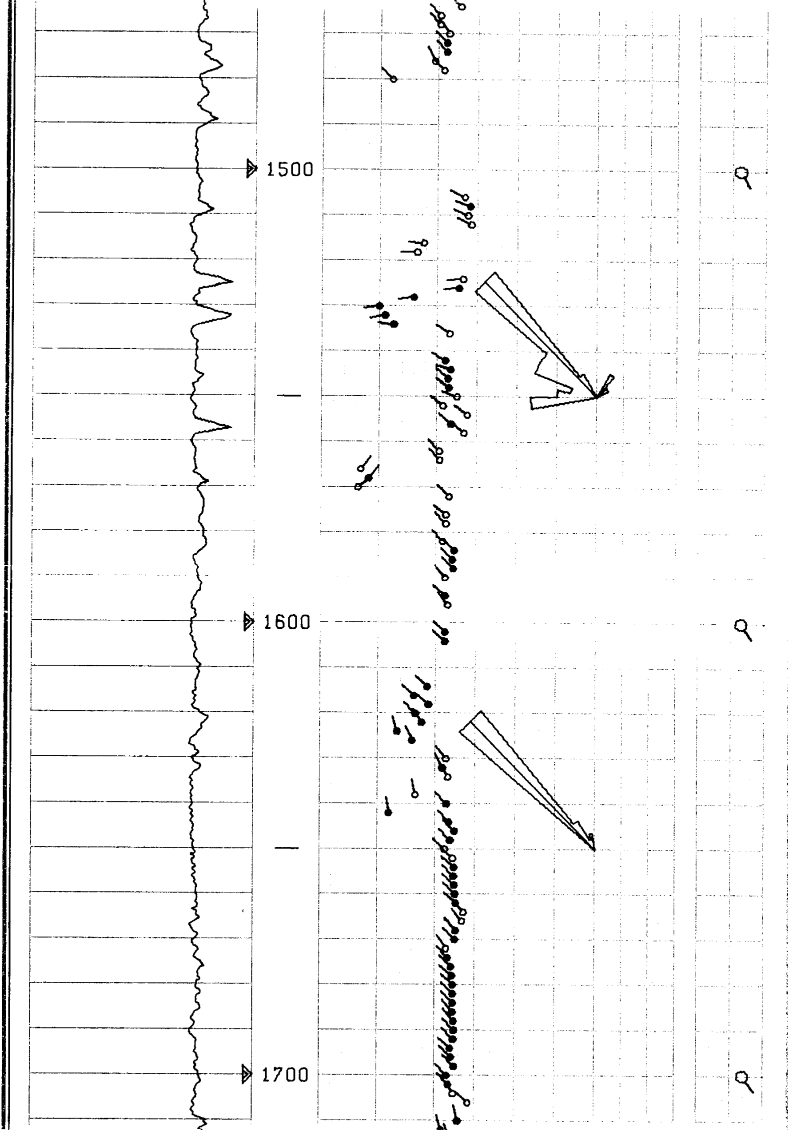
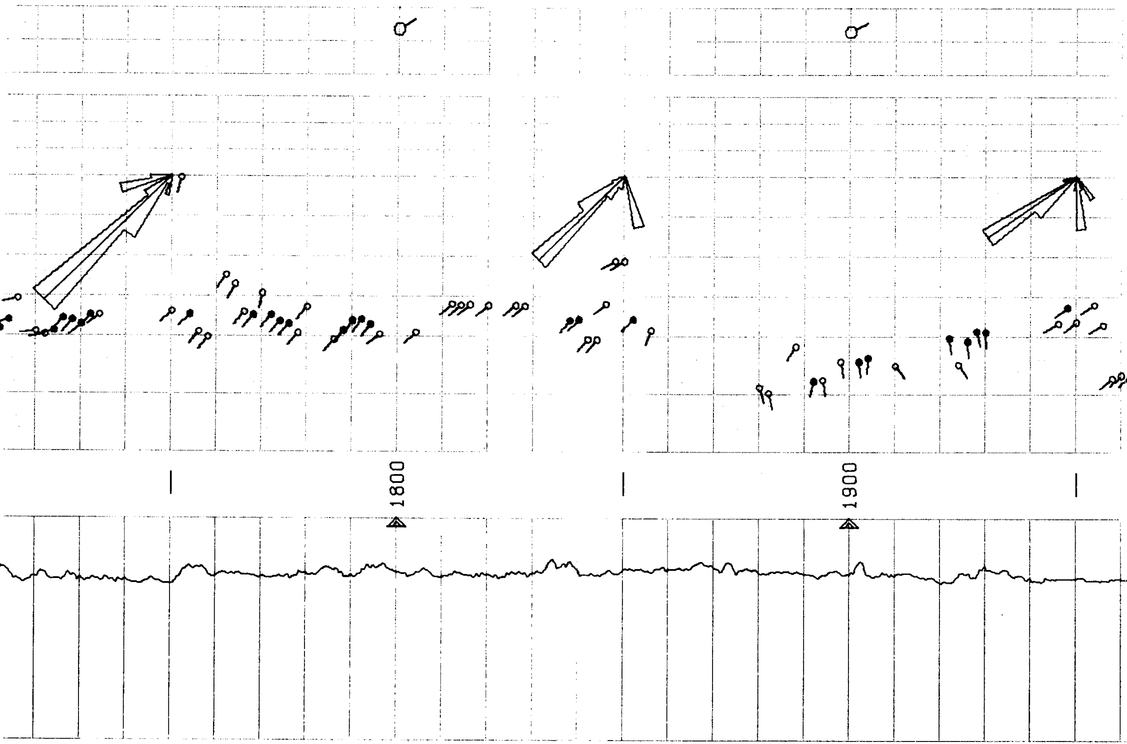




SCHLUMBERGER DIPMETER ARROW PLOT

SCHLUMBERGER DIPMETER ARROW PLOT SC



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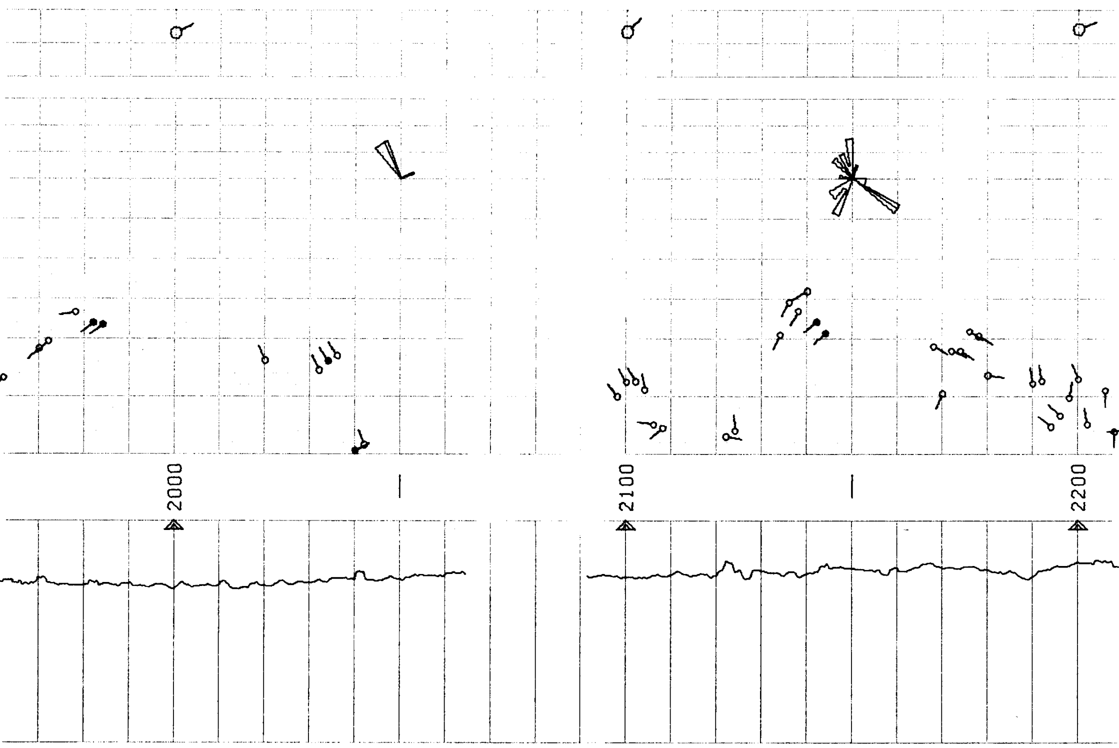

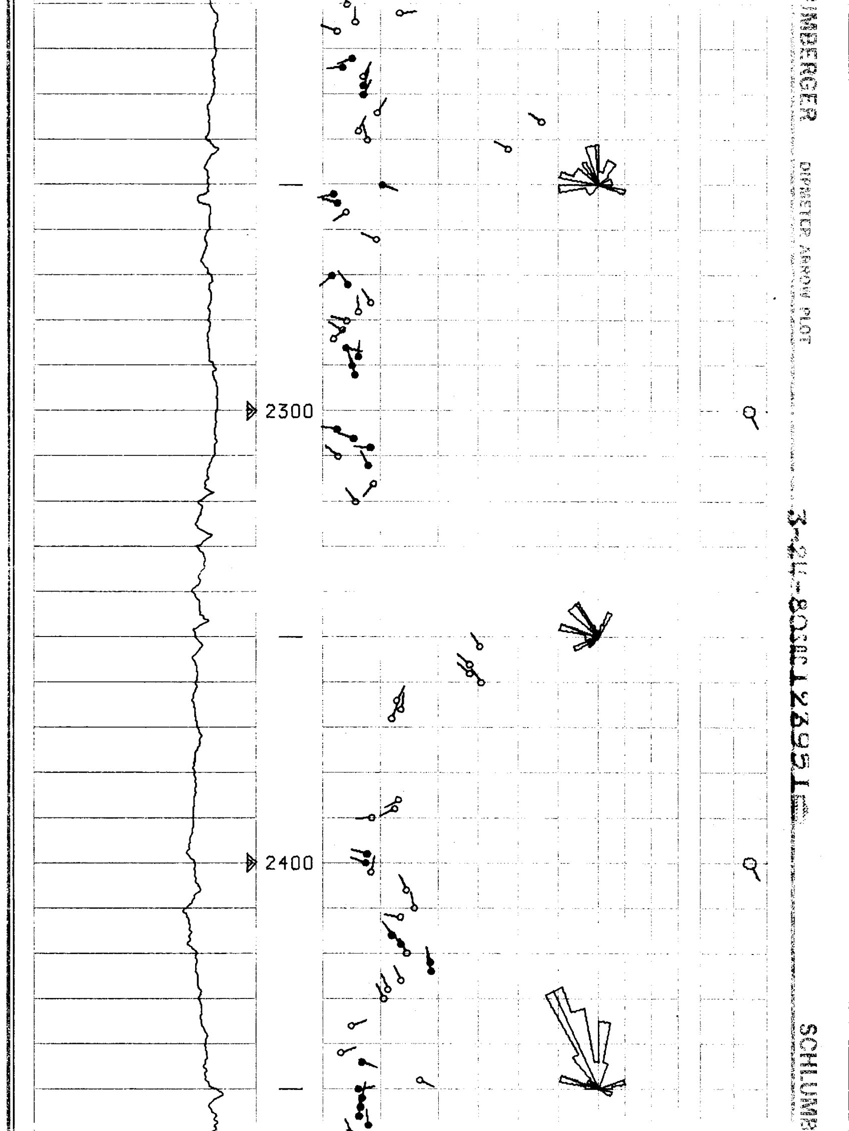

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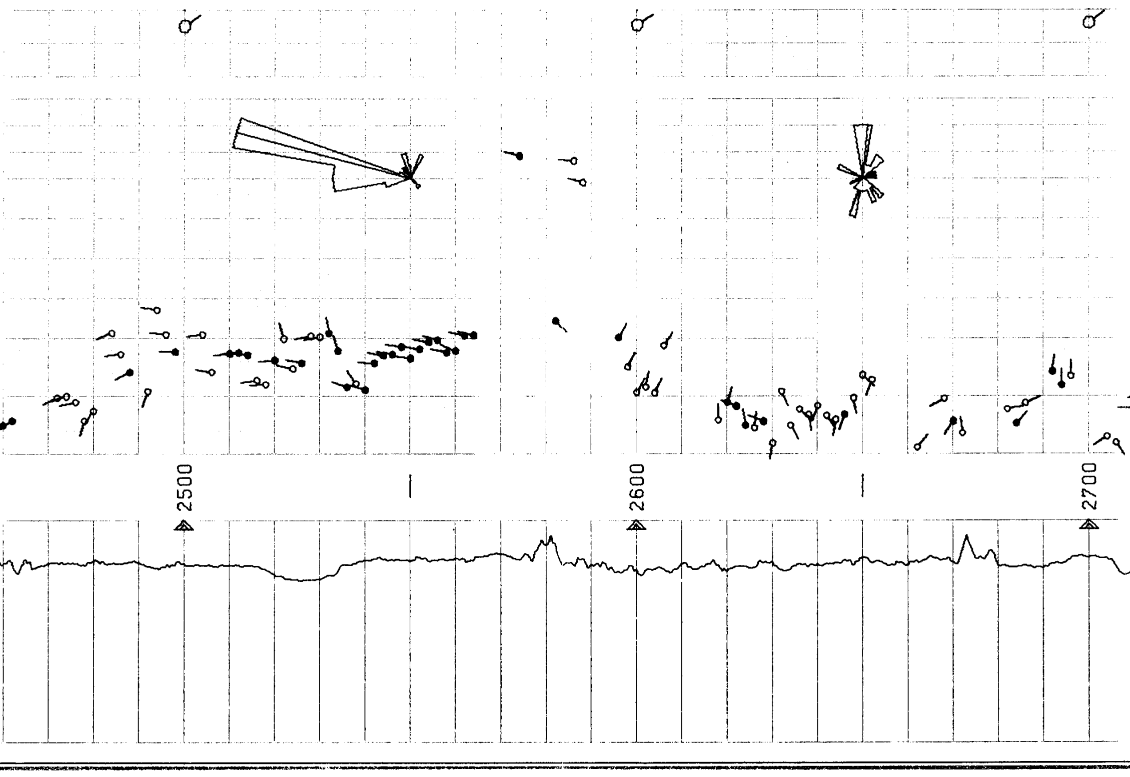

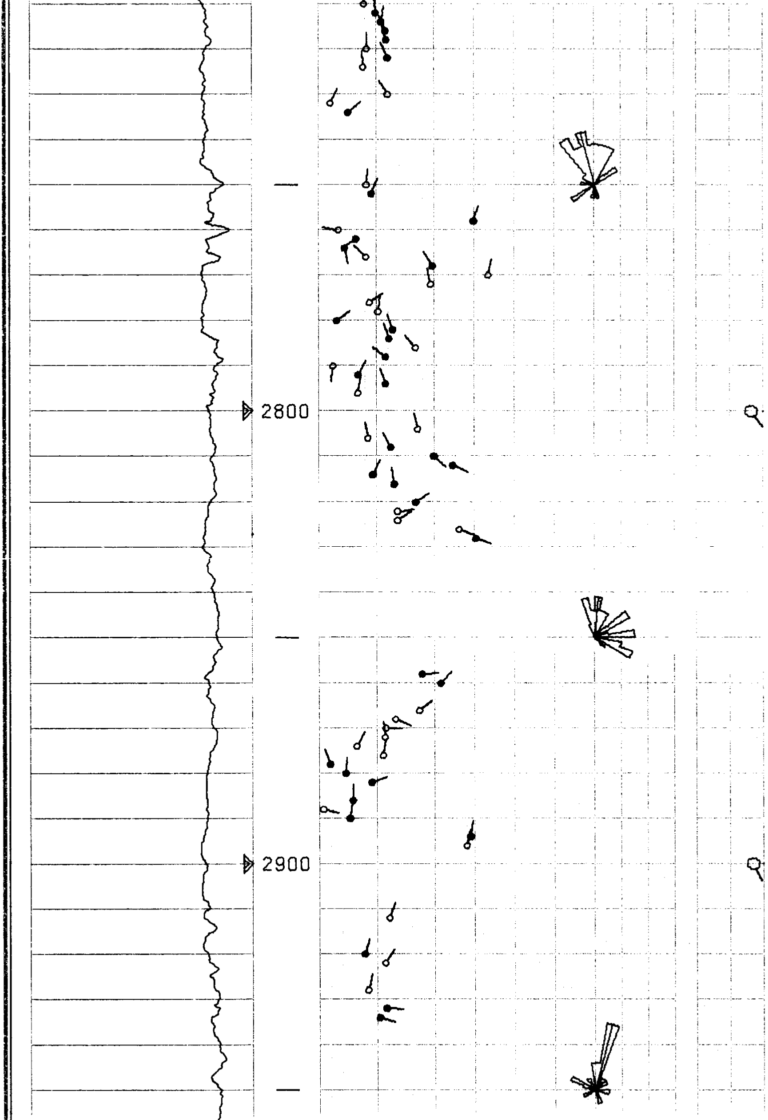

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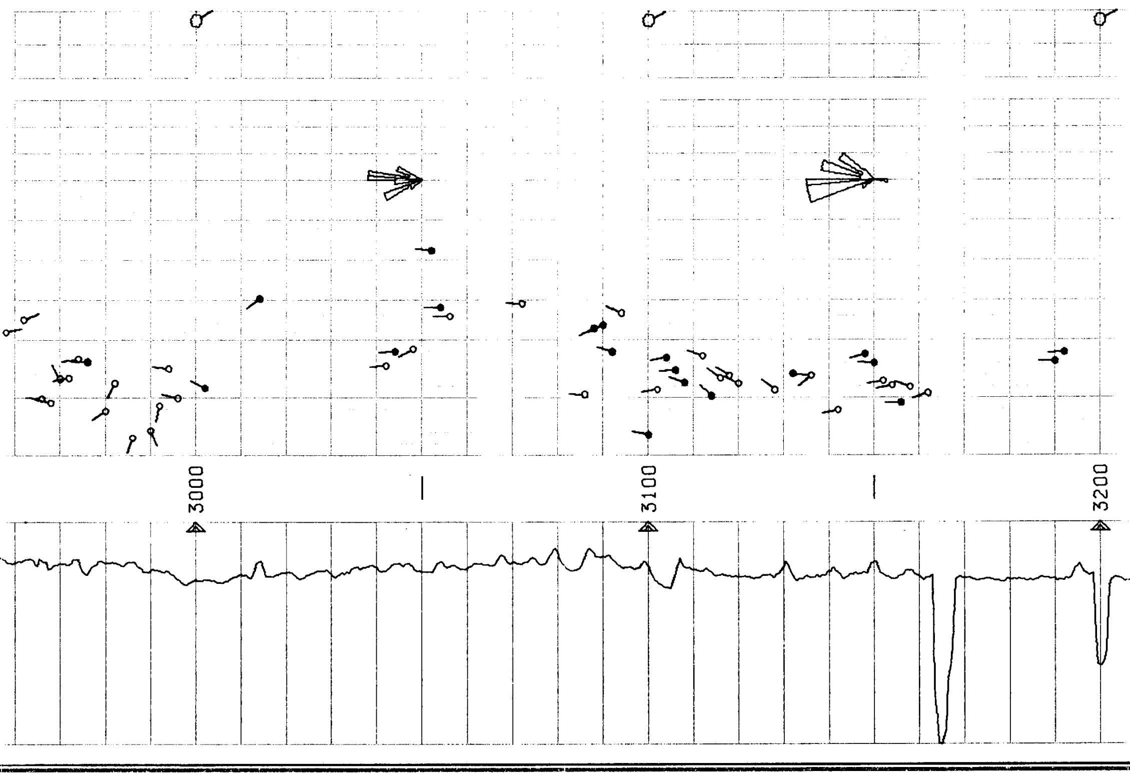
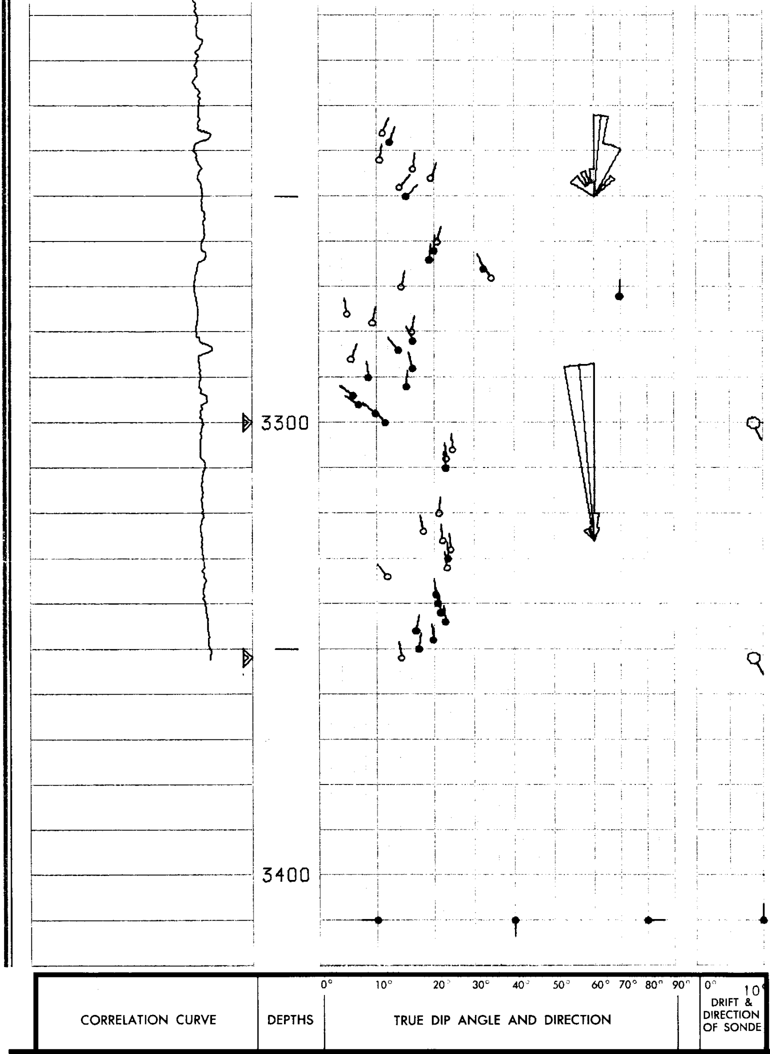
DIPMETER ARROW PLOT

SCHLUMBERGER

DIPMETER ARROW PLOT SCHLUMBERGER



PMETER ARROW PLOT



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COMPANY REICHHOLD ENERGY CORPORATION

WELL COLUMBIA COUNTY NO.12 REDRILL NO. 1

FIELD MIST-NEHALEM BASIN

COUNTY COLUMBIA STATE OREGON

Rm 1.38 @ 61 °F
Rmf 1.34 @ 40 °F
Rmc 2.10 @ 40 °F
BHT 94 °F

SCHL. FR 3360
SCHL. TD 3364
DRLR TD 3364
Elev:
KB 808.45
DF --
GL 797.65