43-05-65

Schlumberger

FOUR — ARM
HIGH RESOLUTION
CONTINUOUS DIPMETER
(COMPUTED)

COUNTY COLUMBIA
FIELD or LOCATION 5-6N-5W
WELL COLUMBIA COUNTY 45-3
COMPANY REICHHOLD ENERGY

RECEIVED FILED
JUN 25 1982
DEPT OF GEOLOGY

COMPANY REICHHOLD ENERGY
WELL COLUMBIA COUNTY 45-3
FIELD MIST
COUNTY COLUMBIA STATE OREGON

LOCATION
1366' NORTH & 303' EAST FROM THE
SOUTHEAST CORNER OF:
Sec. 5 Twp. 6N Rge. 5W

Other Services:

Permanent Datum: GL, Elev. 615.4
Log Measured From KB, 11.4 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 626.8
D.F. —
G.L. 615.4

Date	15 JUN 82			
Run No.	ONE			
Depth—Driller	3099			
Depth—Logger	2940			
Btm. Log Interval	2940			
Top Log Interval	594			
Casing—Driller	7" @620	@	@	@
Casing—Logger	594			
Bit Size	6¼"			
Type Fluid in Hole	LIGNO			
Dens. | Visc.	10.3 | 42.0	|	|	|
pH | Fluid Loss	8.5 | 4.7 ml	| ml	| ml	| ml
Source of Sample	CIRCULATION			
R_m @ Meas. Temp.	1.19 @ 82 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	1.21 @ 59 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	2.00 @ 62 °F	@ °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	M | M	|	|	|
R_m @ BHT	0.94 @ 106 °F	@ °F	@ °F	@ °F
Time Since Circ.	0800			
Max. Rec. Temp.	106 °F	°F	°F	°F
Equip. | Location	8128 | SAC	|	|	|
Recorded By	ANDERSEN			
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	[illegible]			
HDM No.	[illegible]			
Magnetic Declination	[illegible] E			
Analog Panel No.	[illegible]			
Digital Panel No.	[illegible]			
Correlated By	[illegible]			
Computed By	[illegible]			
Plotted By	[illegible]			

Remarks — TOOL ST[illegible] 2980 TO 3040.
HDM-LOW ANGLE ON [illegible] (0-36)
SERVICE ORDER NO. 205815

"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°

REICHHOLD ENERGY
COLUMBIA COUNTY 45-3
MIST FIELD
COLUMBIA COUNTY, OREGON
RUN NO. ONE 15-JUN-82
PCCC
ARROW PLOT FROM CLUSTER PROGRAM

CORRELATION LENGTH 4 FT.
STEP LENGTH 2 FT.
SEARCH ANGLE 30 DEGREES X2

JOB 6471

.500 IN. GRID

PODLED ARROW PLOT

2 LEVELS POOLED WHEN WITHIN

3.5 DEGREES SOLID ANGLE

BLACK ARROWS ARE POOLED RESULTS

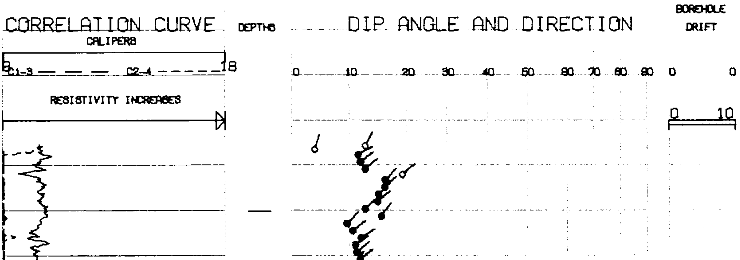
CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

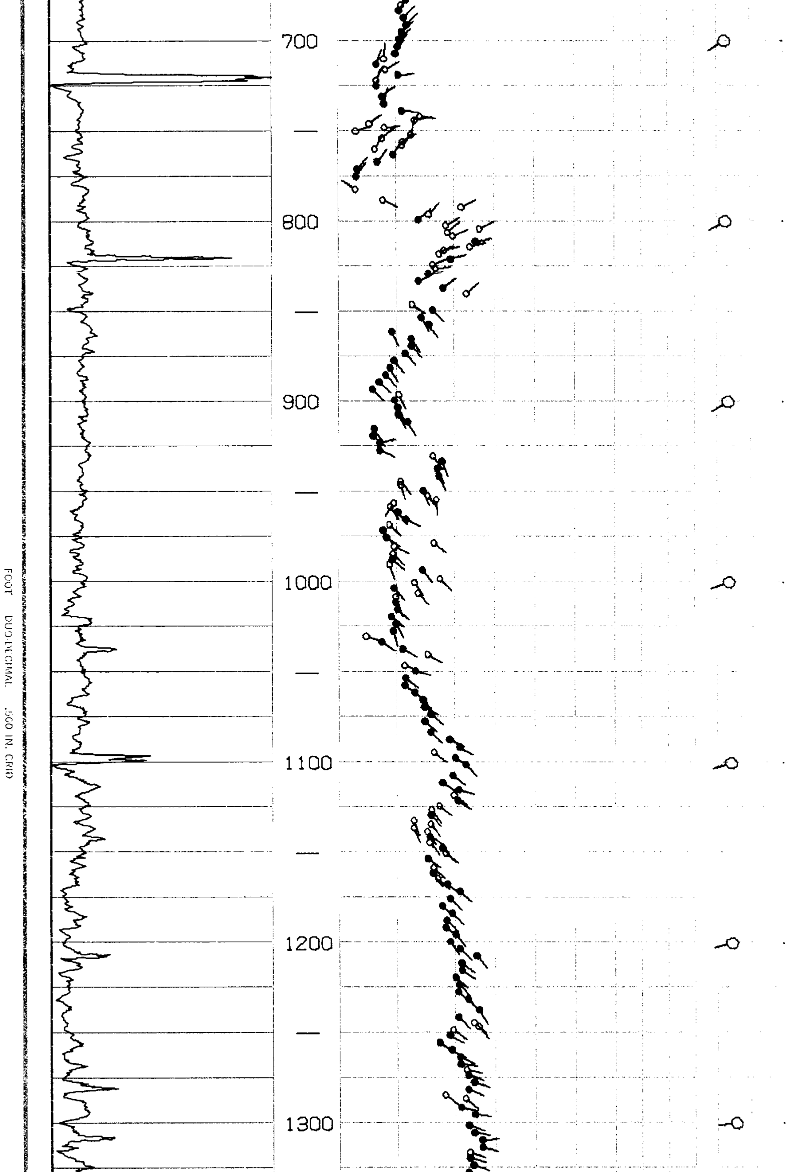
SEARCH ANGLE 30 DEGREES X2

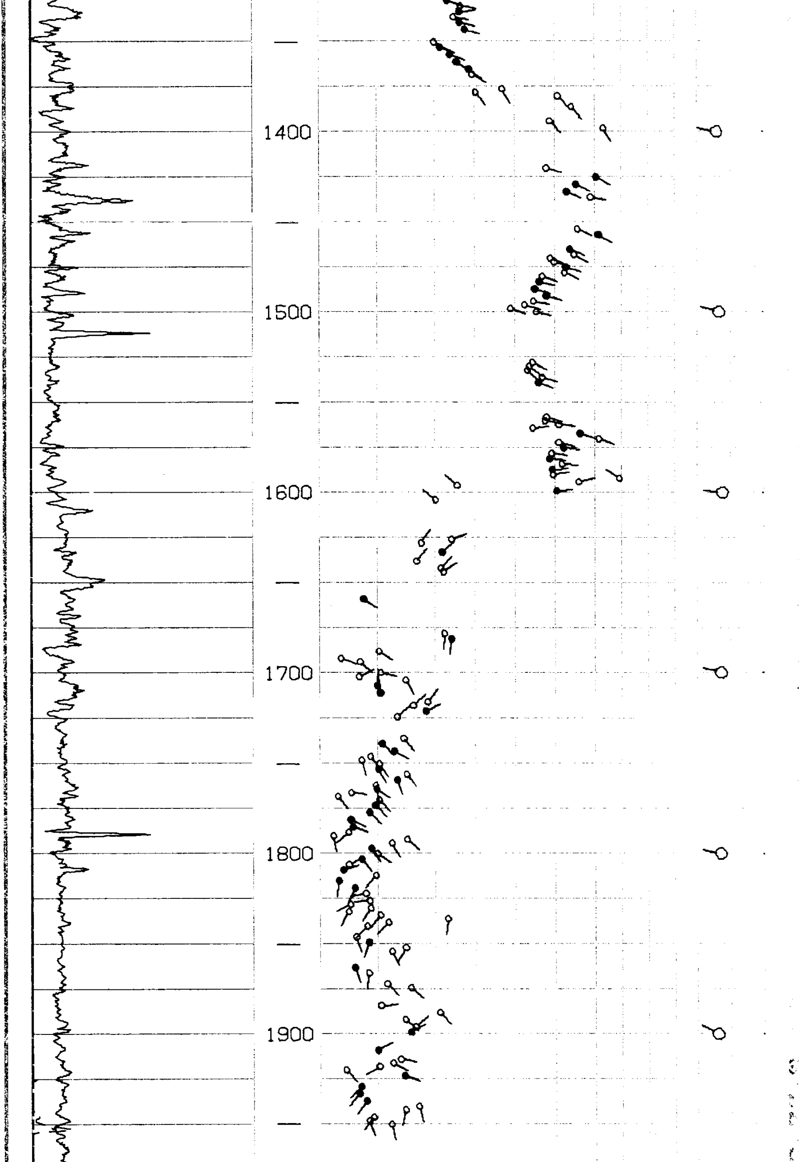
PC01300235183070010 20420

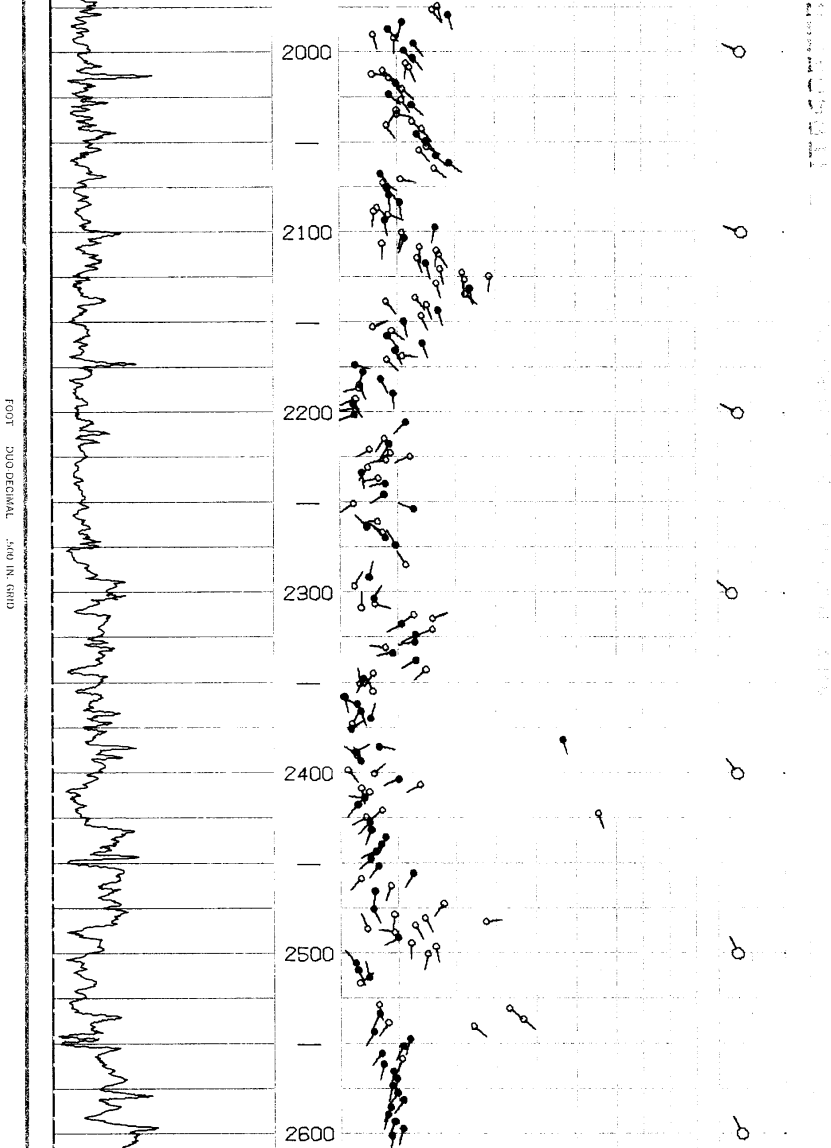
ZONE FROM 614 TO 2934

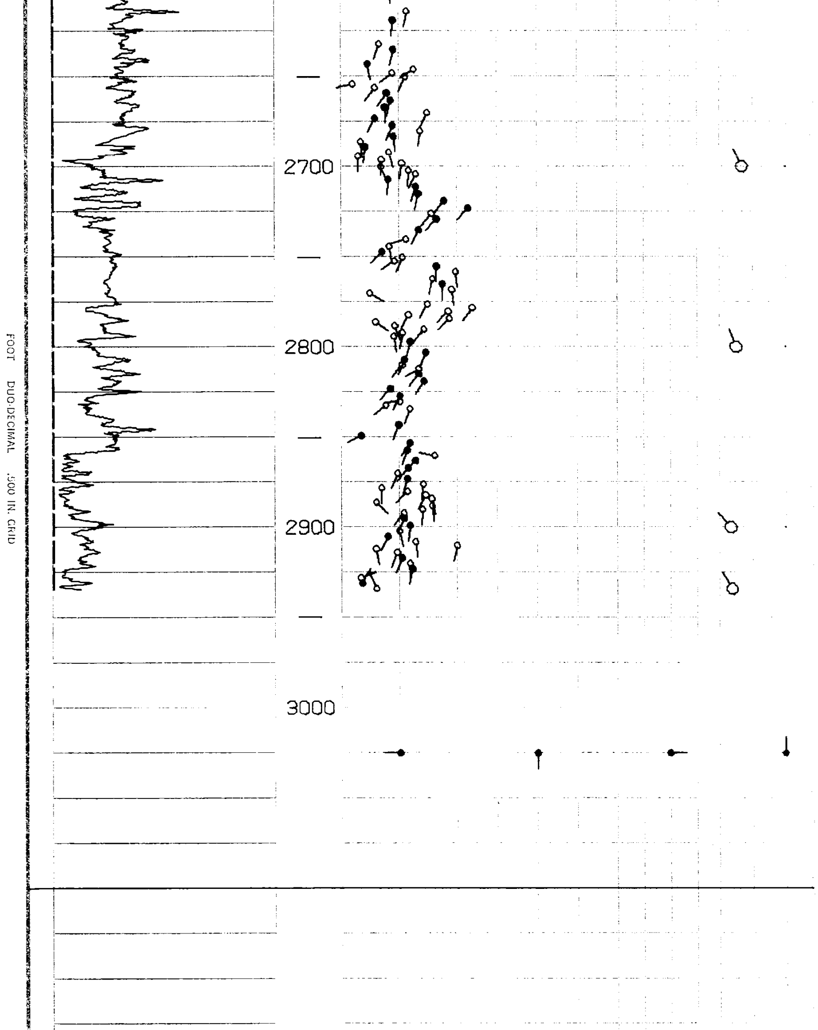


FOOT DUO-DECIMAL .500 IN. GRID









JOB 6471.00

FOOT DUO-DECIMAL .500 IN. GRID

ALL QUALITY ARROW PLOT 6471

FROM THE CLUSTER PROGRAM

BLACK ARROWS ARE HIGHEST QUALITY

CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 30 DEGREES X2

PC01300023S18307001020420

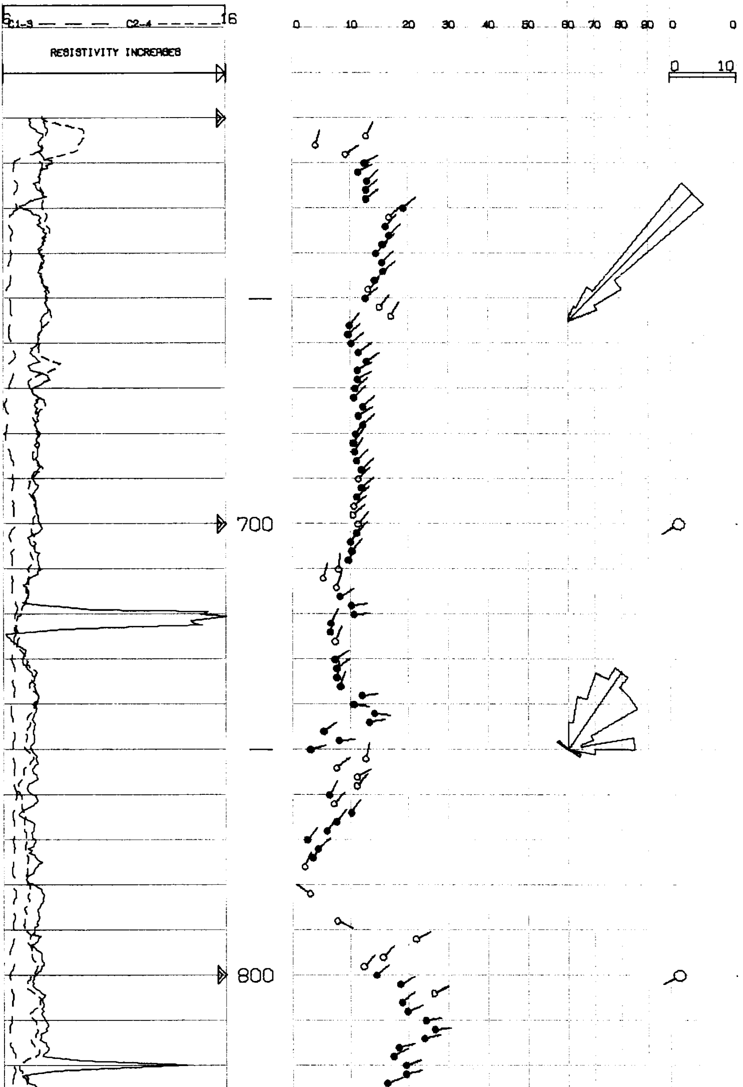
ZONE FROM 610 TO 2934

CORRELATION CURVE
CALIPERS

DEPTHS

DIP ANGLE AND DIRECTION

BOREHOLE
DRIFT



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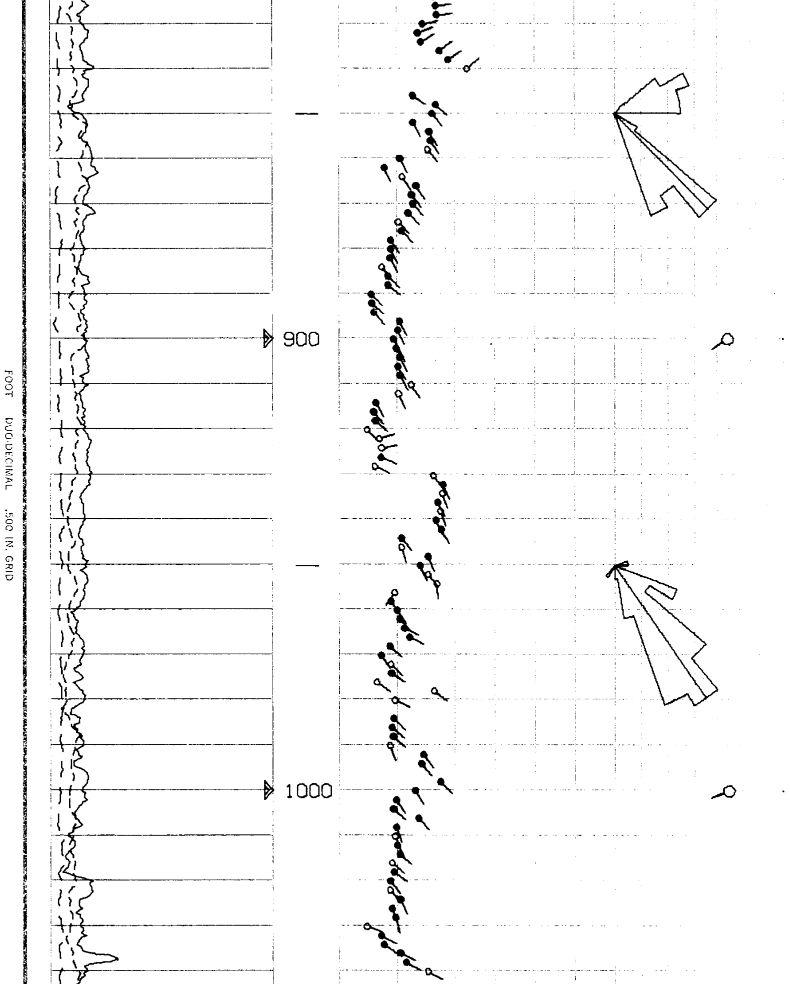

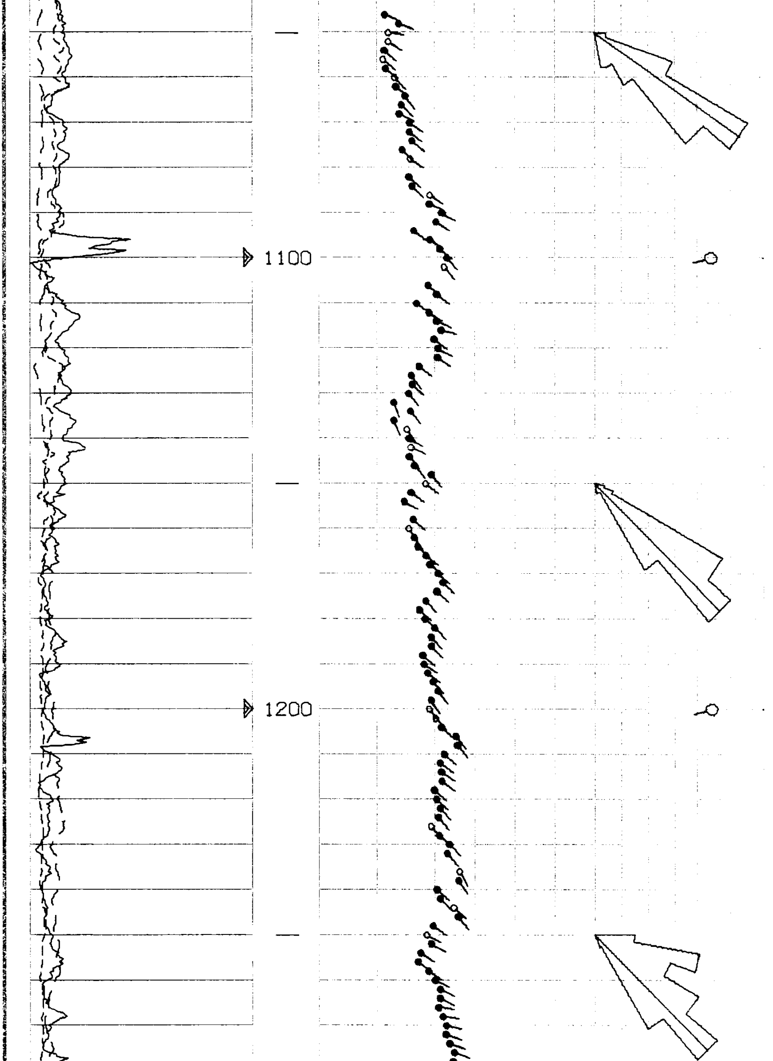

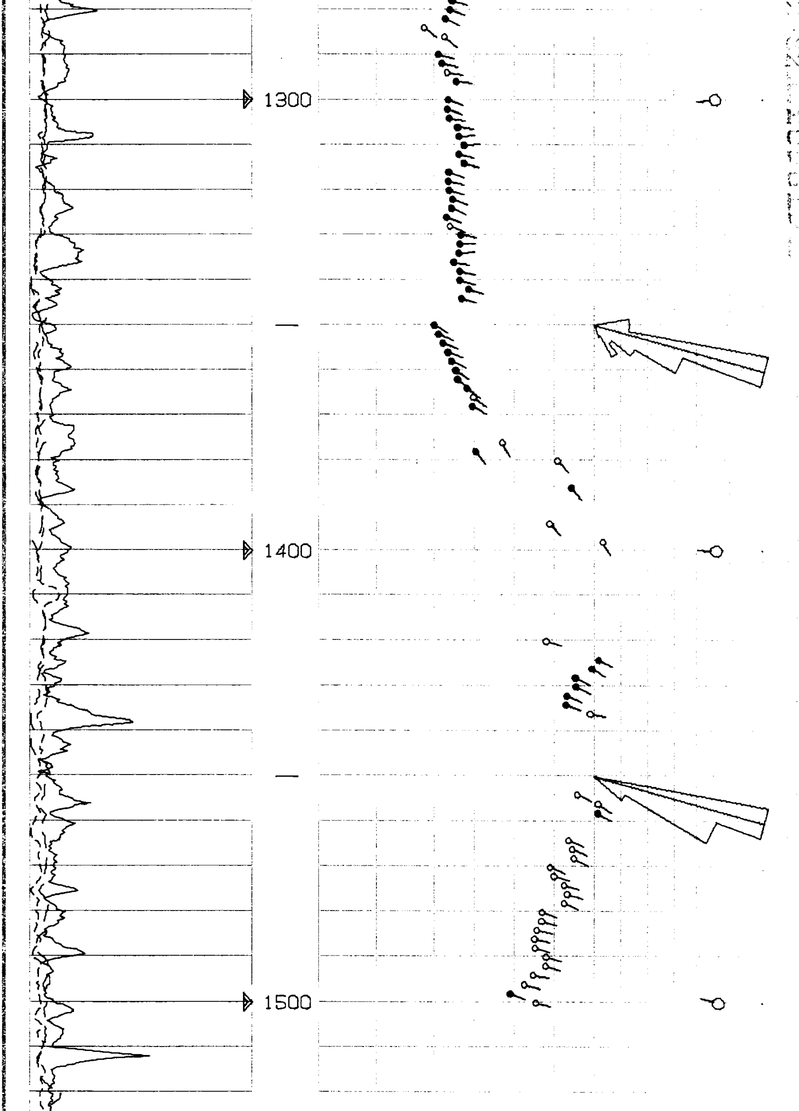

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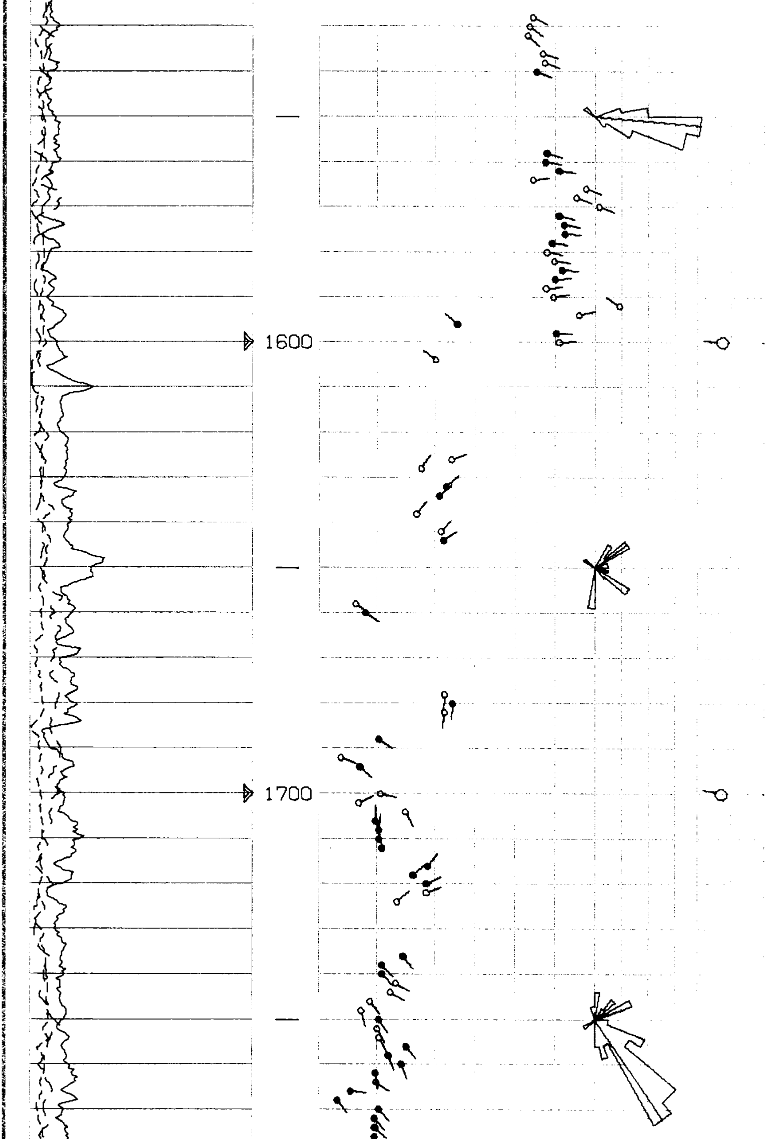

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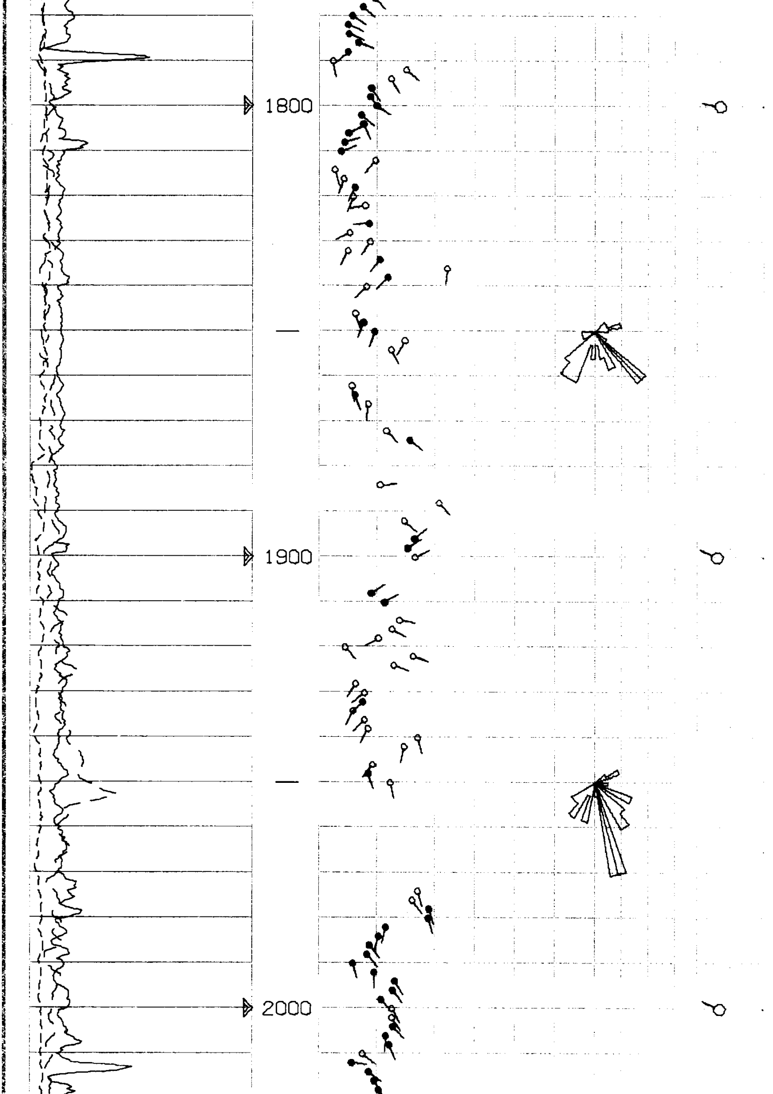

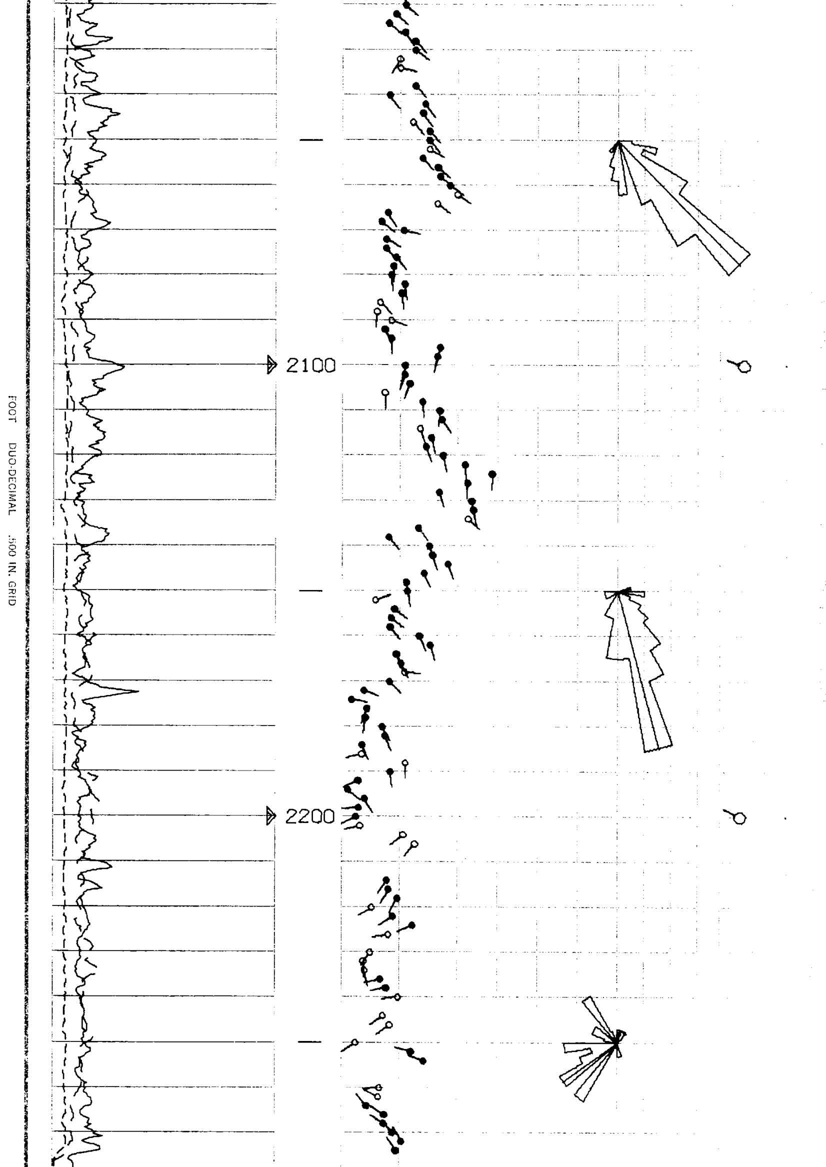

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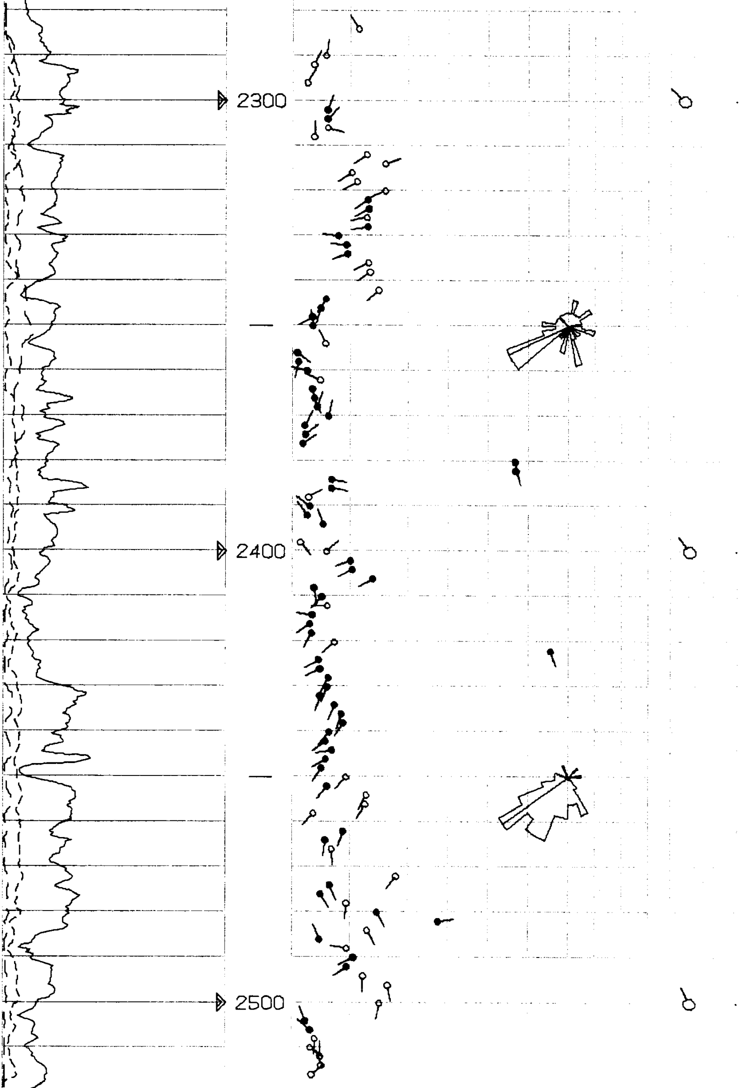

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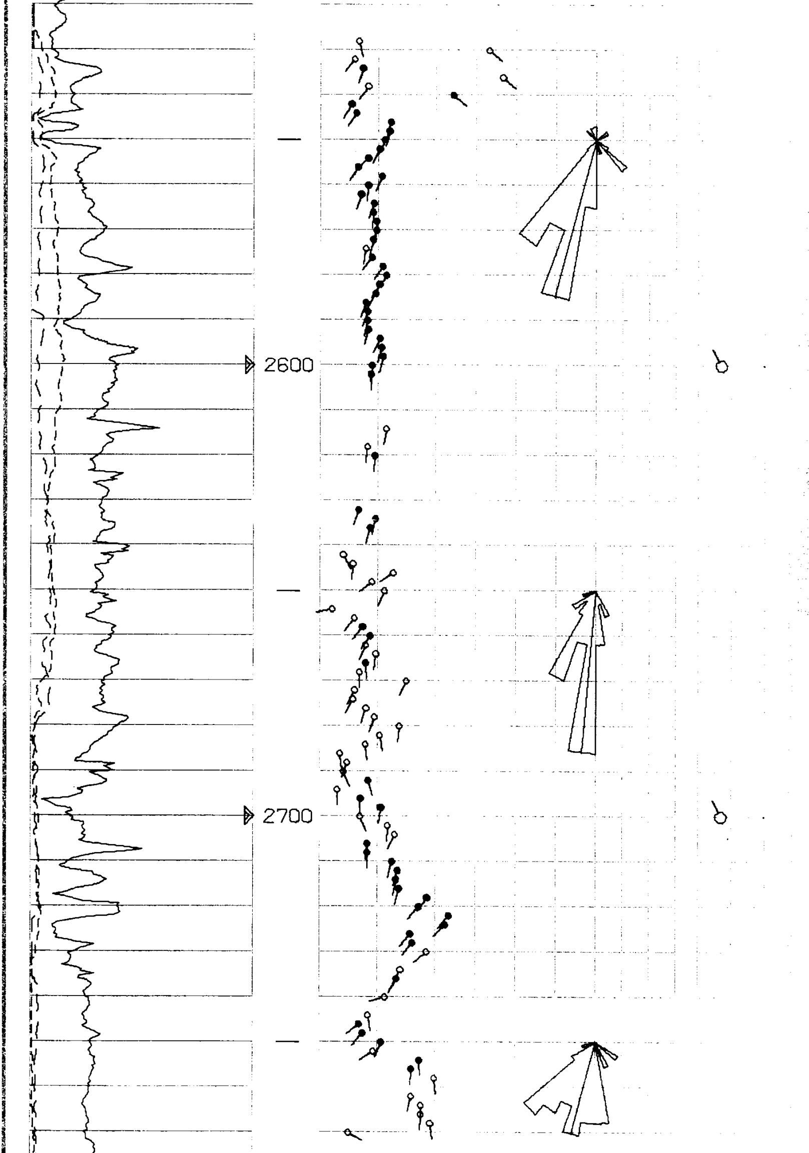

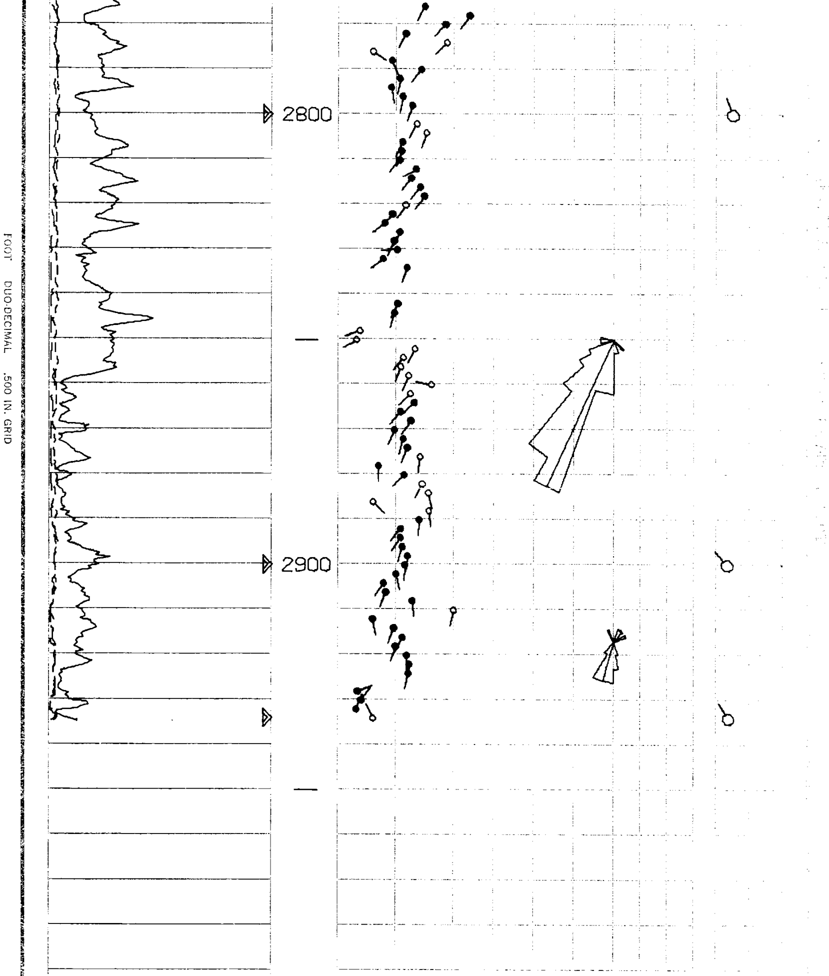

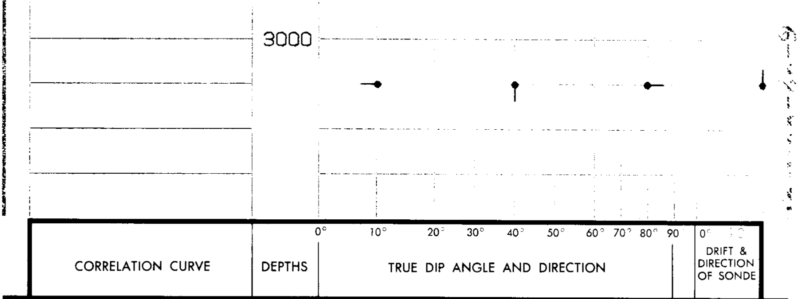

COMPANY REICHHOLD ENERGY

WELL COLUMBIA COUNTY 45-3

FIELD MIST

COUNTY COLUMBIA **STATE** OREGON

Rm 1.19 **@** 82 **°F**
Rmf 1.21 **@** 59 **°F**
Rmc 2.00 **@** 62 **°F**
BHT 106 **°F**

SCHL. FR 2940.0
SCHL. TD 2940.0
DRLR TD 3099.0
Elev:
KB 626.8
DF -----
GL 615.4

-END-