COUNTY	COLUMBIA
FIELD or LOCATION	32-6N-5W
WELL	PAUL 34-32
COMPANY	REICHHOLD ENERGY

Schlumberger

FOUR — ARM
HIGH RESOLUTION
CONTINUOUS DIPMETER
(COMPUTED)

COMPANY REICHHOLD ENERGY CORPORATION

WELL PAUL 34-32

FIELD MIST-NEHALEM BASIN

COUNTY COLUMBIA **STATE** OREGON

LOCATION
741.73' NORTH & 255.80' EAST OF
SOUTH ¼ CORNER
Sec. 32 **Twp.** 6N **Rge.** 5W

Other Services:
DIL, BHC
FDC/CNL/GR
CIS

Permanent Datum: GL, **Elev.** 614.7'
Log Measured From KB, 11.4 **Ft. Above Perm. Datum**
Drilling Measured From KB

Elev.: K.B. 626.1'
D.F. N/A
G.L. 614.7'

Date	10 NOV 82			
Run No.	1			
Depth—Driller	2699.0'			
Depth—Logger	2685.0'			
Btm. Log Interval	2684.0'			
Top Log Interval	495.0'			
Casing—Driller	8⅝" @497'	@	@	@
Casing—Logger	495'			
Bit Size	7⅞"			
Type Fluid in Hole	LIGNOSULFONATE			
Dens. | Visc.	10.2 | 60.0			
pH | Fluid Loss	10.0 | 5.2 ml	ml	ml	ml
Source of Sample	CIRCULATION			
R_m @ Meas. Temp.	1.51 @ 69 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	2.05 @ 45 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	2.13 @ 46 °F	@ °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	M | M			
R_m @ BHT	1.136 @ 94 °F	@ °F	@ °F	@ °F
Time Since Circ.	1200			
Max. Rec. Temp.	94 °F	°F	°F	°F
Equip. | Location	8076 | SAC			
Recorded By	ANDERSEN			
Witnessed By	ALGER			

FOLD HERE

The well name, location and borehole reference data were furnished by the customer.

Changes in Mud Type or Additional Samples N/A				
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	HDS-F			
HDM No.	J 729			
Magnetic Declination	20° E			
Analog Panel No.	-			
Digital Panel No.	958			
Correlated By	PCDCC			
Computed By	PCDCC			
Plotted By	PCDCC			

Remarks — SERVICE ORDER NO. 303946.

"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.

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 CORP.
PAUL 34-32
MIST-NEHALEM BASIN FIELD
COLUMBIA COUNTY,OREGON
RUN NO. ONE 10-NOV-82
P.C.C.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

POOLED ARROW PLOT

2 LEVELS POOLED WHEN WITHIN

3.5 DEGREES SOLID ANGLE

BLACK ARROWS ARE POOLED RESULTS

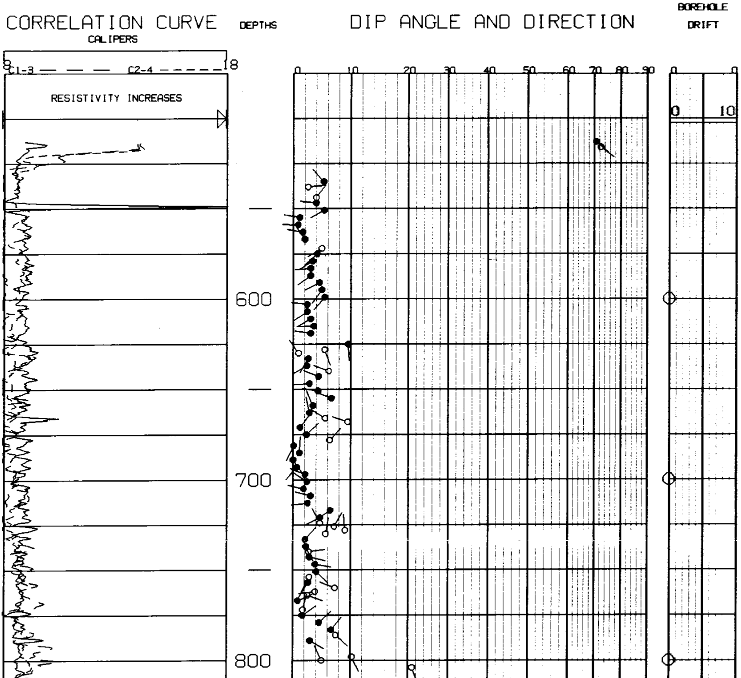
CORRELATION LENGTH 4 FT.

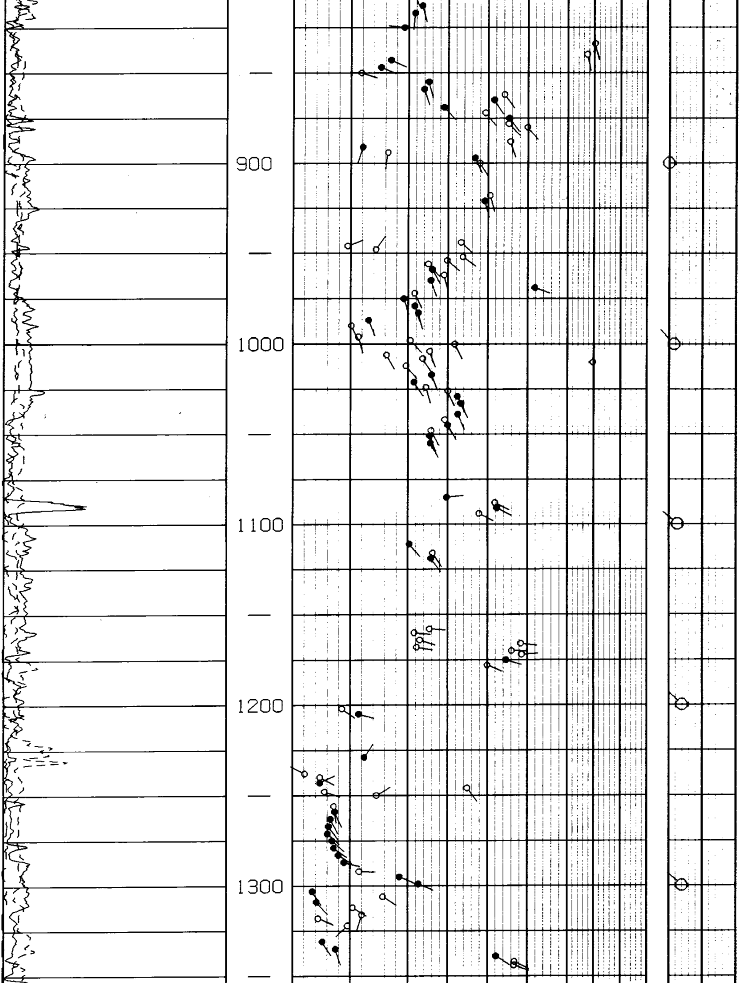
STEP LENGTH 2 FT.

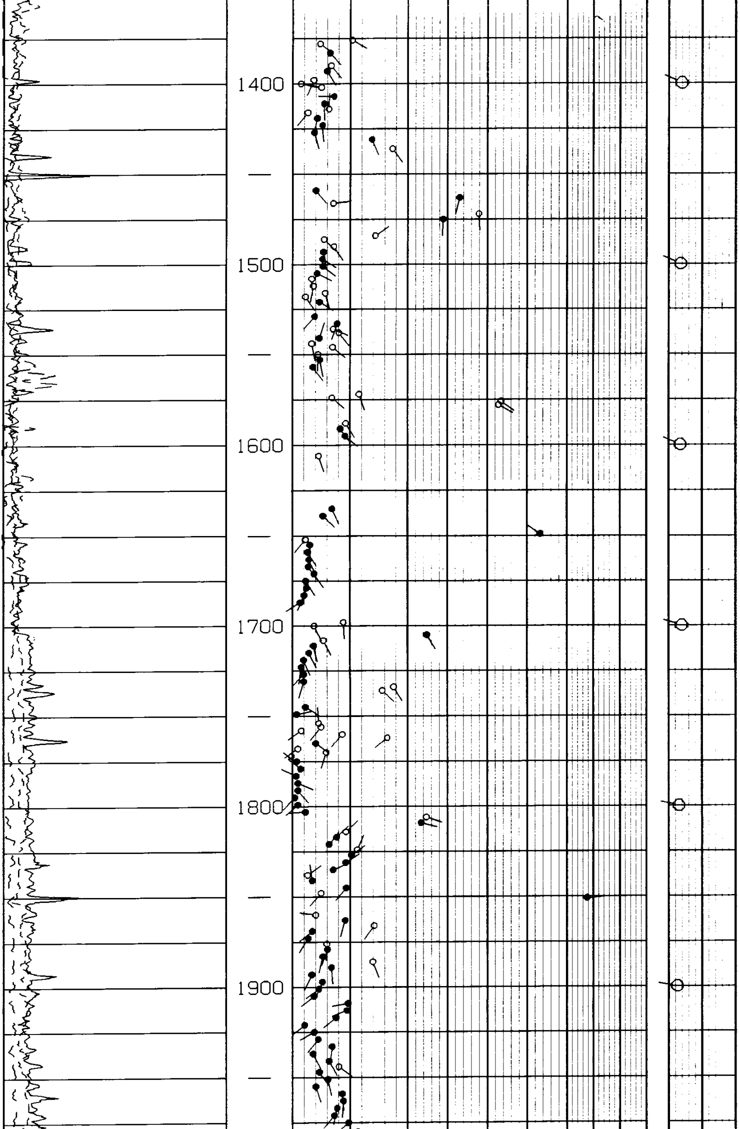
SEARCH ANGLE 70 DEGREES X1

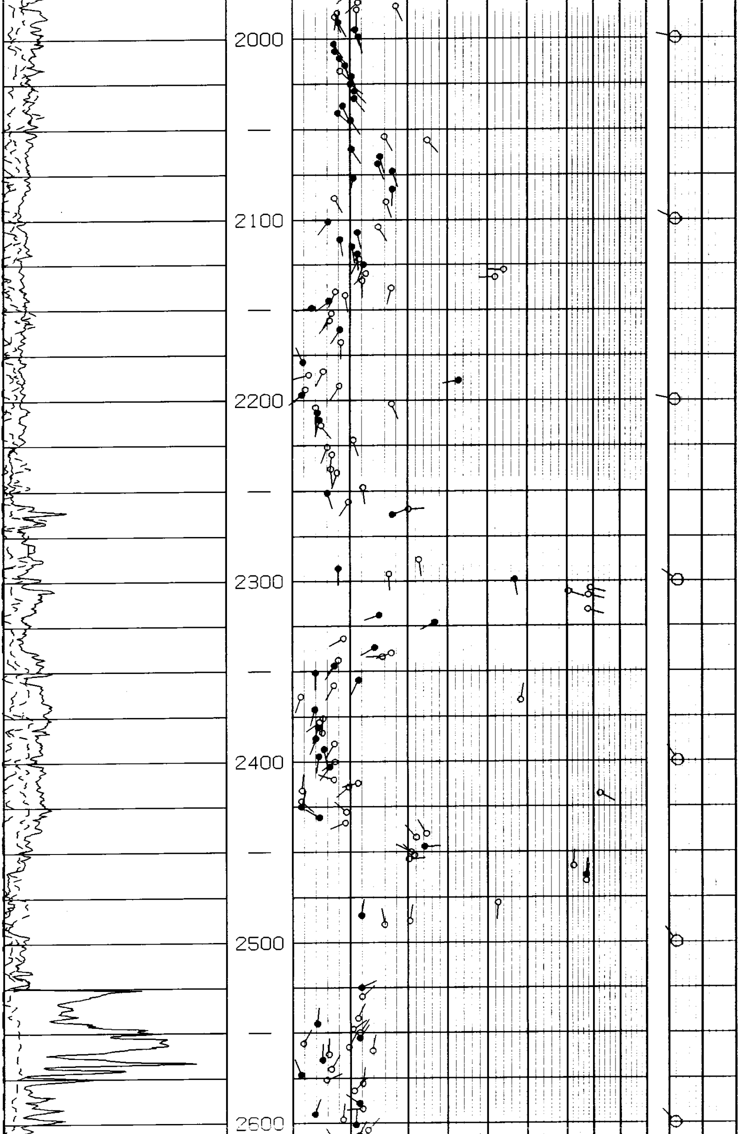
PC0130023518307001020420

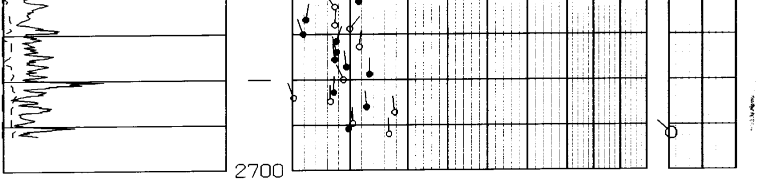
ZONE FROM 513 TO 2680



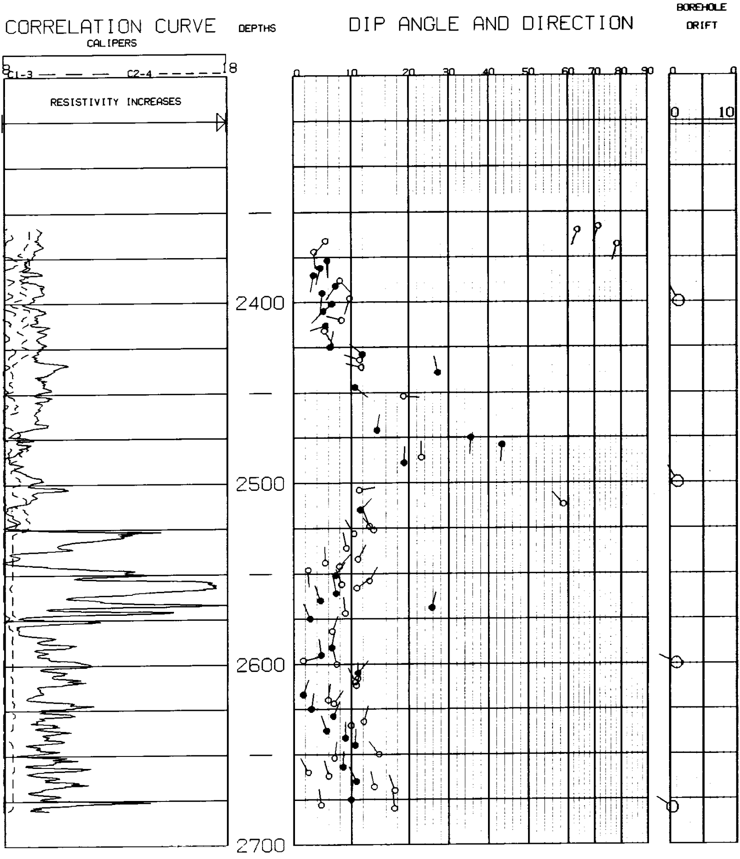








ZONE FROM 2358 TO 2680


CORRELATION CURVE

DEPTHS

DIP ANGLE AND DIRECTION

BOREHOLE DRIFT

USER: 2020 14-NOV-1982 01:50:42.96

USER: 2020 14-NOV-1982 01:50:42.96

ALL QUALITY ARROW PLOT 7070

FROM THE CLUSTER PROGRAM

BLACK ARROWS ARE HIGHEST QUALITY

CORRELATION LENGTH 4 FT.

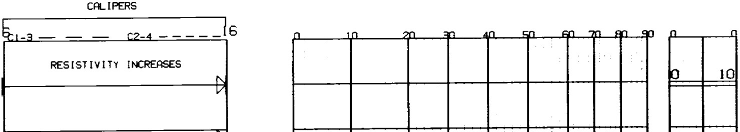
STEP LENGTH 2 FT.

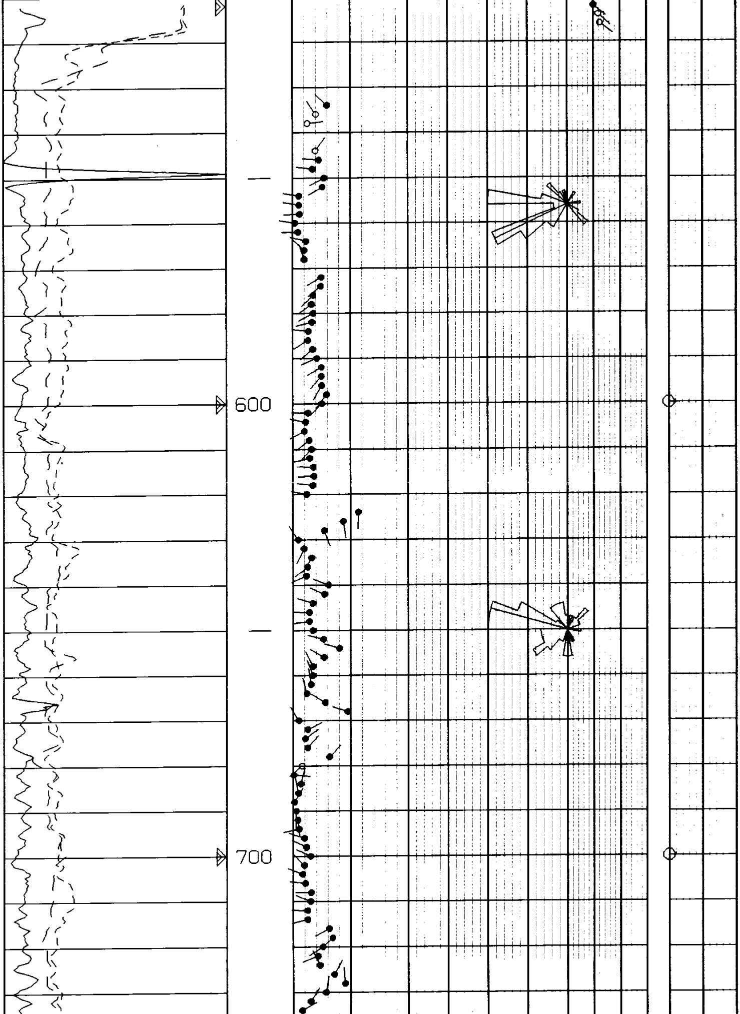
SEARCH ANGLE 70 DEGREES X1

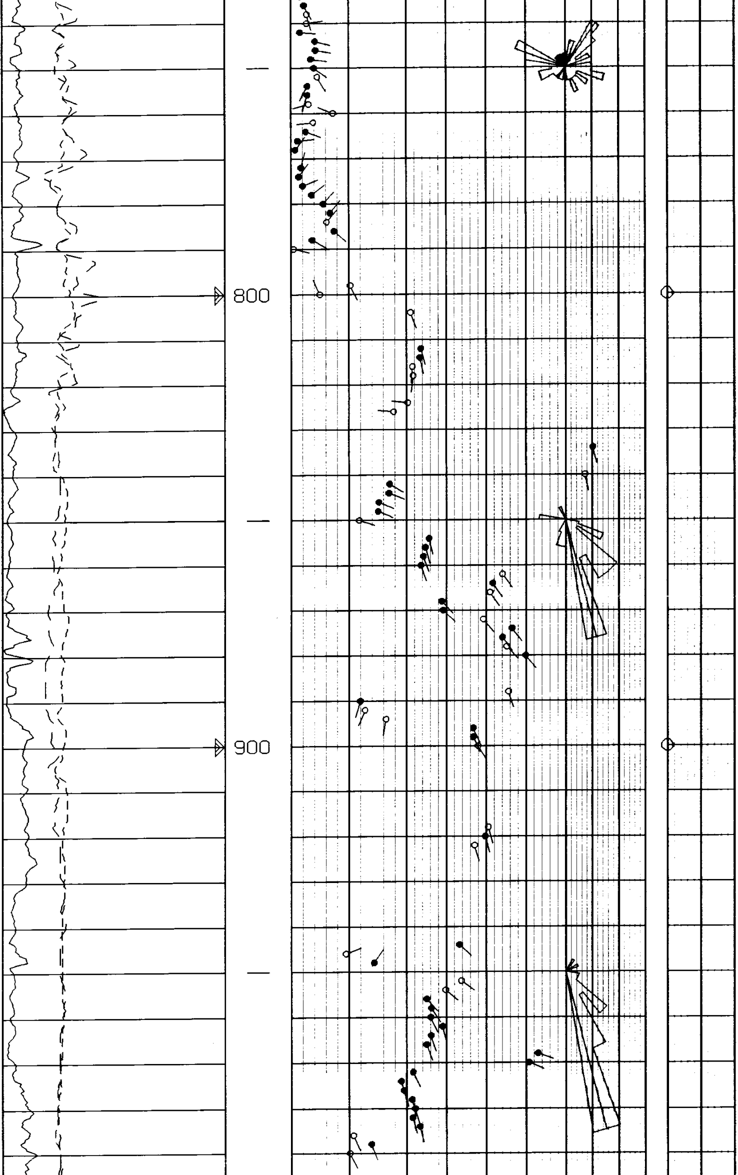
PC0130023518307001020420

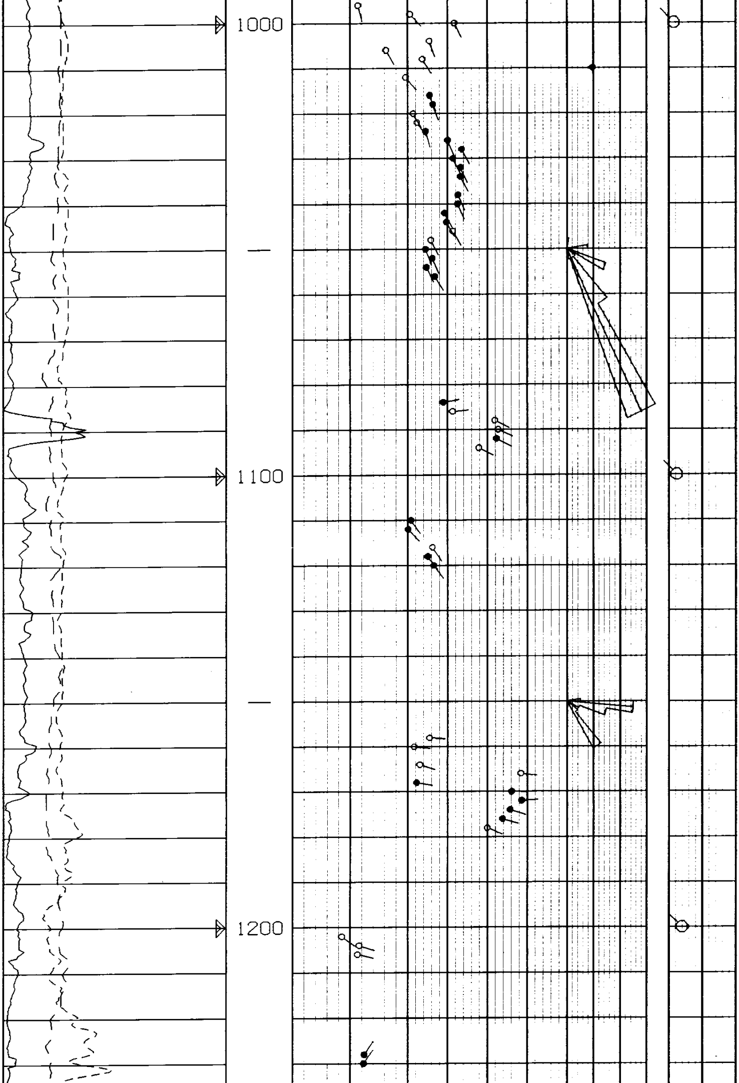
ZONE FROM 512 TO 2680

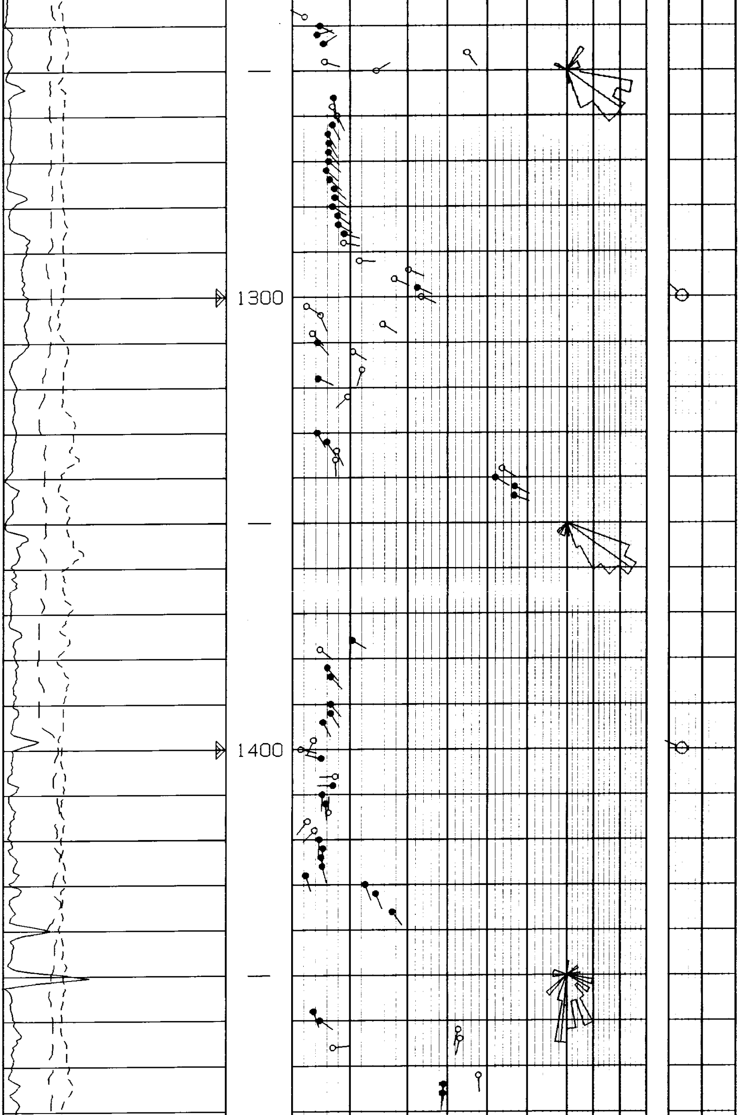
CORRELATION CURVE DEPTHS DIP ANGLE AND DIRECTION BOREHOLE DRIFT

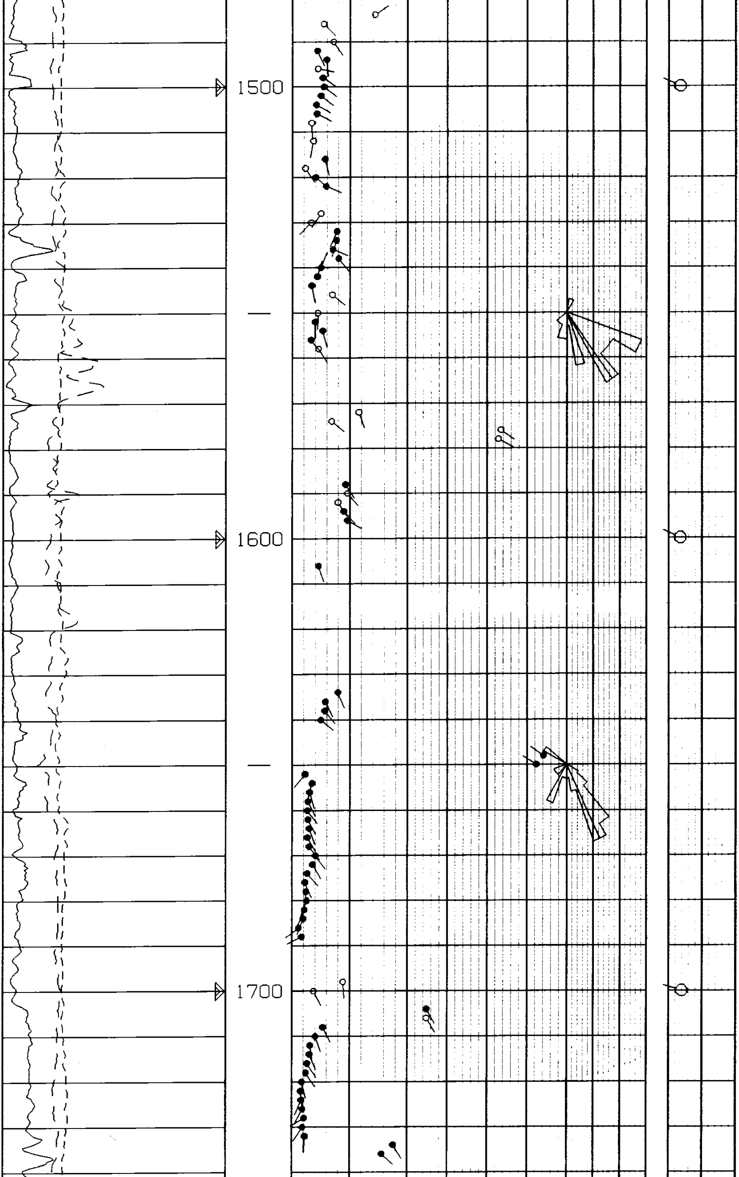


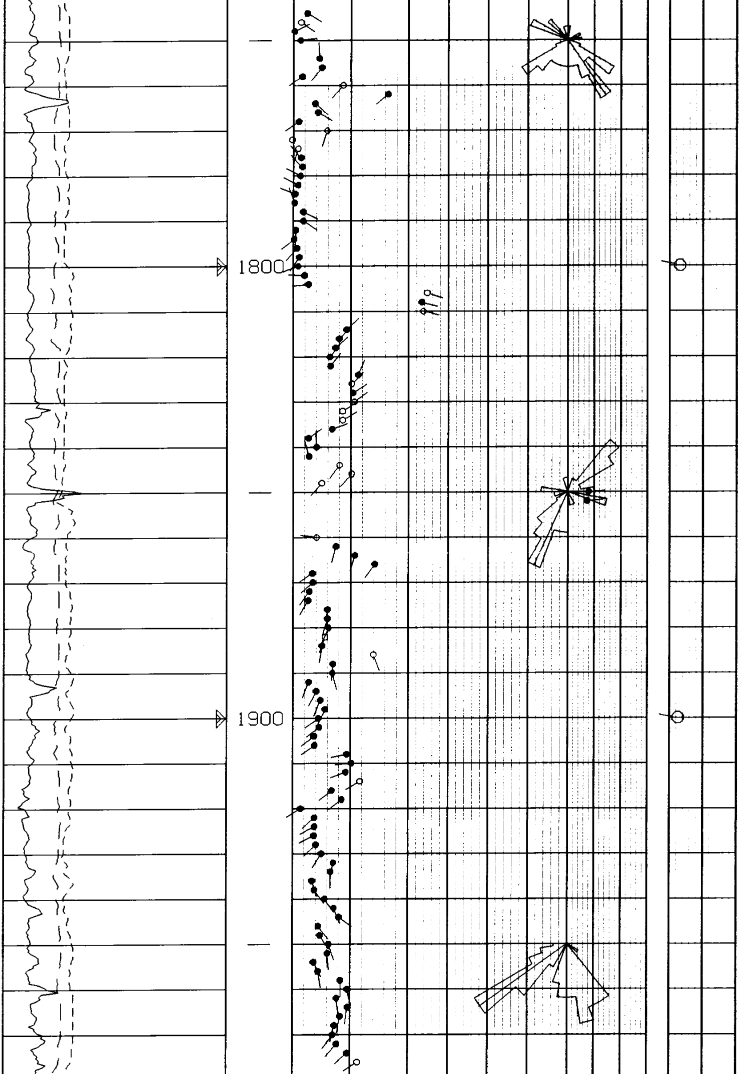


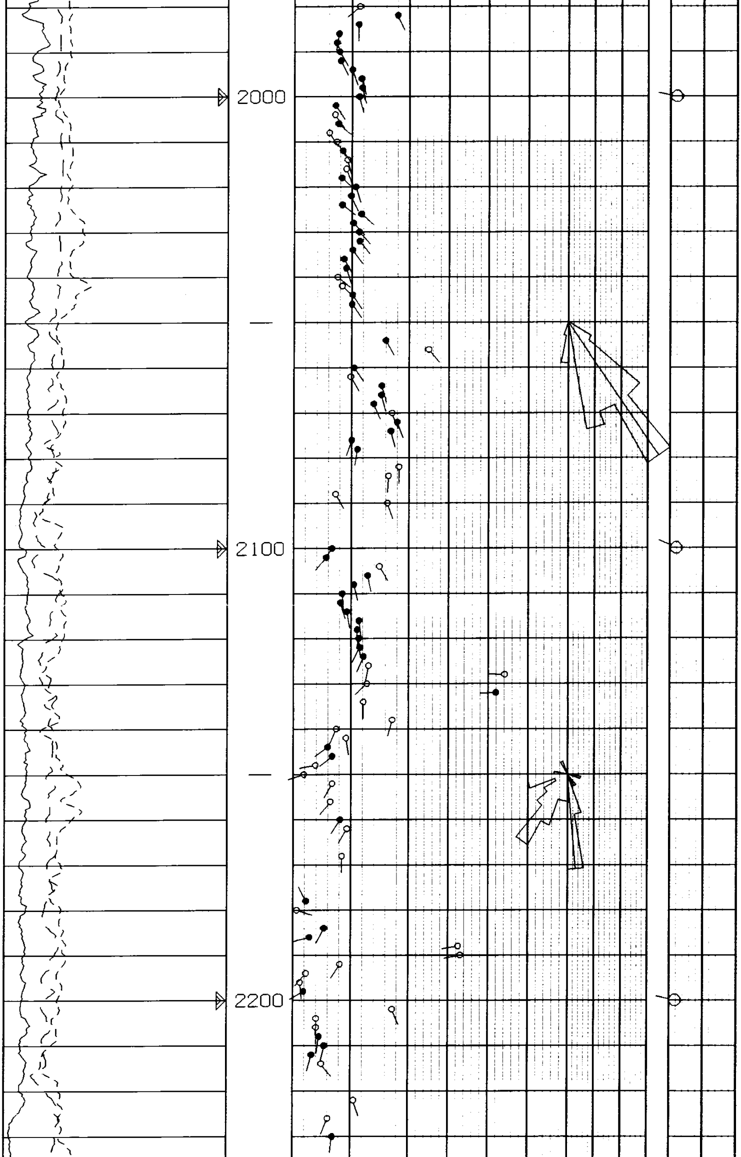


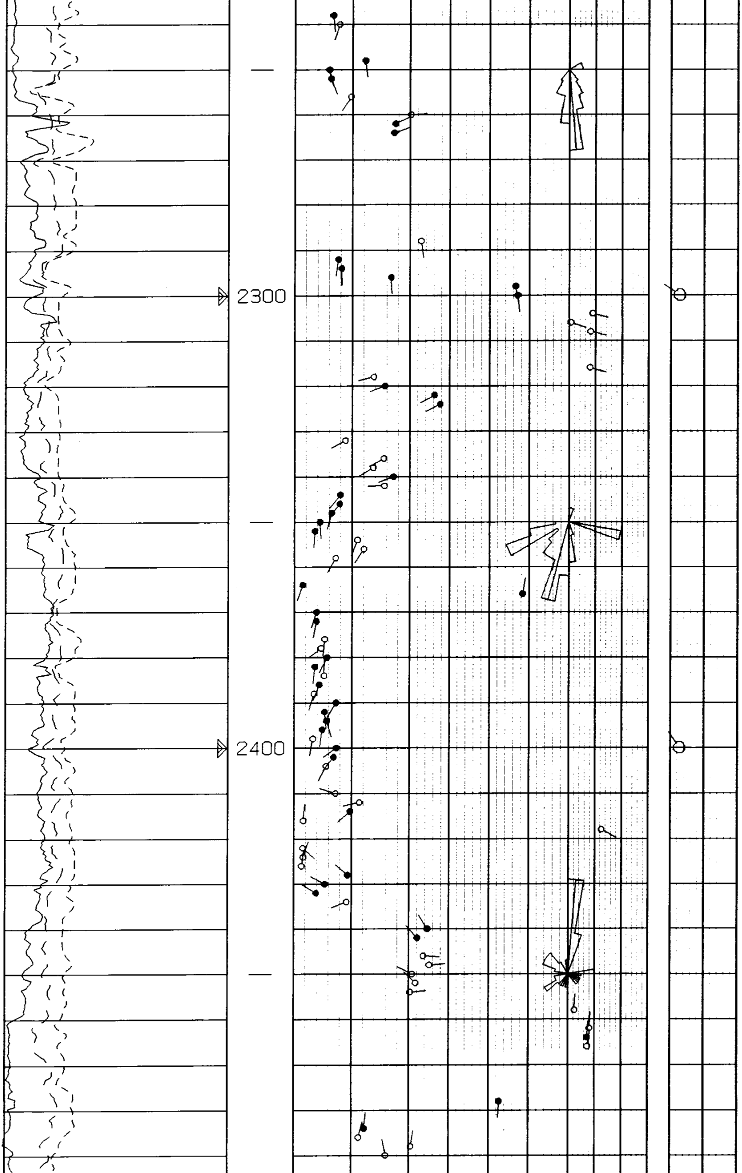


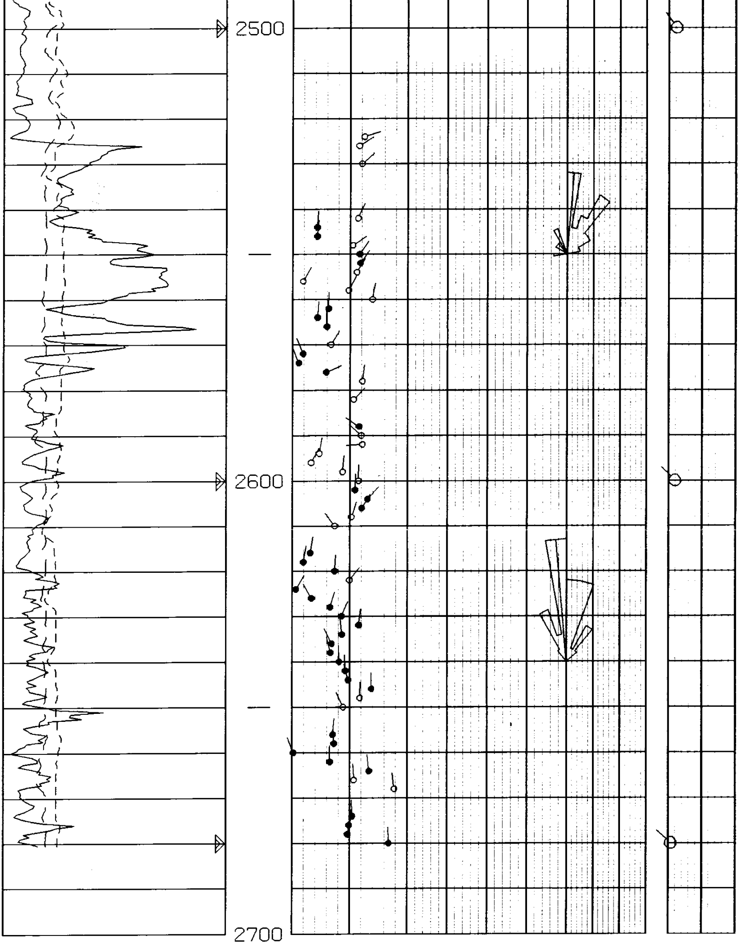












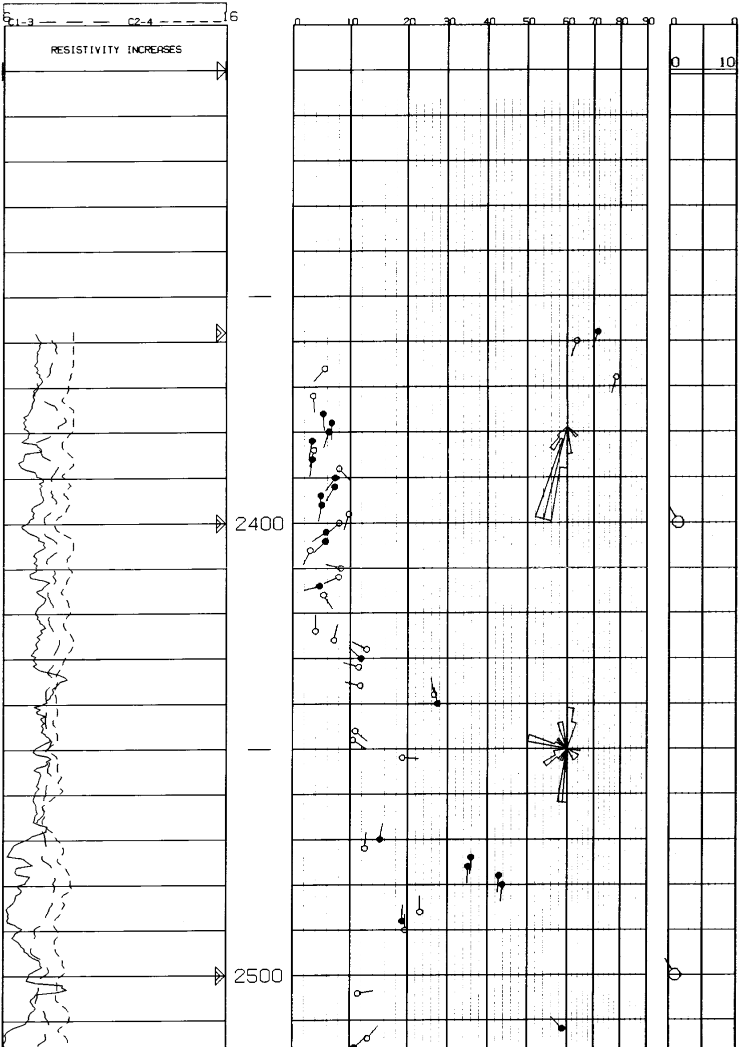
ZONE FROM 2358 TO 2680

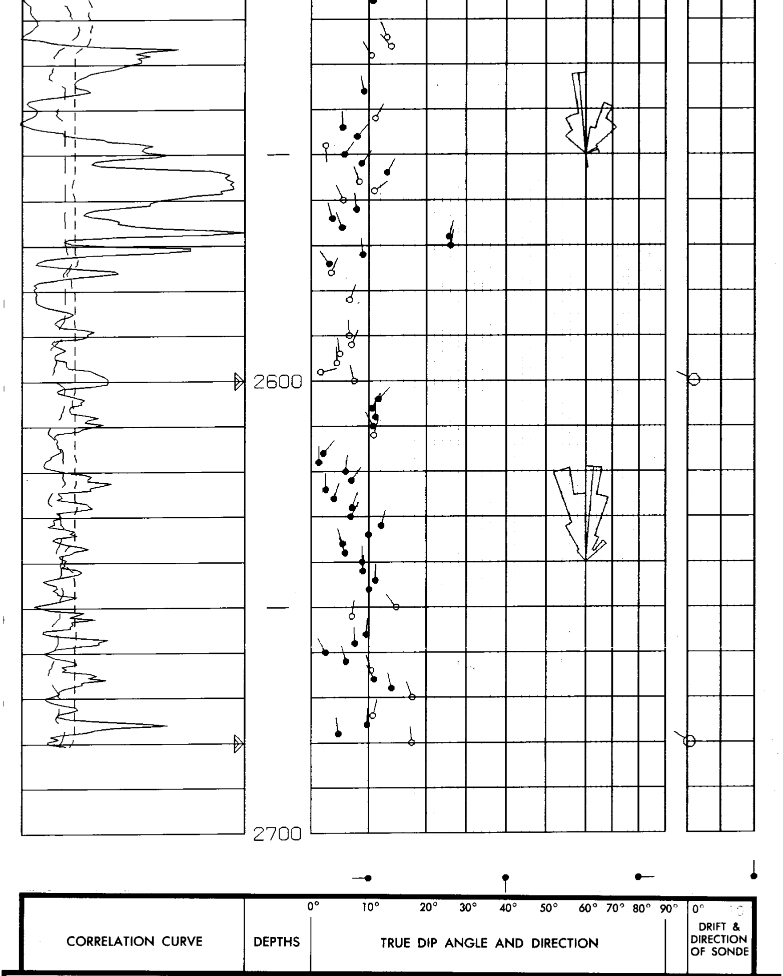
CORRELATION CURVE
CALIPERS

DEPTHS

DIP ANGLE AND DIRECTION

BOREHOLE
DRIFT





COMPANY REICHHOLD ENERGY CORPORATION

WELL PAUL 34-32

FIELD MIST-NEHALEM BASIN

COUNTY COLUMBIA **STATE** OREGON

Rm 1.510 @ 69 °F
Rmf 2.050 @ 45 °F
Rmc 2.130 @ 46 °F
BHT 94 °F

SCHL. FR 2684.0'
SCHL. TD 2685.0'
DRLR TD 2699.0'
Elev:
KB 626.1'
DF N/A
GL 614.7'