COMPANY REICHHOLD ENERGY CORPORATION
WELL COLUMBIA COUNTY NO.4
FIELD NEHALEM BASIN
COUNTY COLUMBIA STATE OREGON

Welex
2"=100'

DIP LOG CALCULATIONS

COMPANY REICHHOLD ENERGY CORPORATION

WELL COLUMBIA COUNTY NO.4

FIELD NEHALEM BASIN

COUNTY COLUMBIA **STATE** OREGON

Location
867' SOUTH & 1149' WEST OF THE
NORTHEAST CORNER OF; (W.B.M.
Sec. 15 Twp. 6N Rge. 5W

Other Services:
IEL
C/AVL

Permanent Datum G.L. Elev. 754
Log Measured From K.B. OR 11.2 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 765.2
D.F.
G.L. 754

Date	5-15-79			
Run No.	ONE			
Depth - Driller	2926			
Depth - Welex	2926			
Btm. Log Inter.	2924			
Top Log Inter.	401			
Casing - Driller	7 @ 401	@	@	@
Casing - Welex	401			
Bit Size	6 1/4			
Type Fluid in Hole	SIPAN & BEN-X			
Dens. | Visc.	78 | 140	|	|	|
pH | Fluid Loss	10.5 | 13.2 ml	| ml	| ml	| ml
Source of Sample	CIRCULATED			
R_m @ Meas. Temp.	1.85 @ 80 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	1.94 @ 72 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	2.15 @ 72 °F	@ °F	@ °F	@ °F
Source R_{mf} R_{mc}	MEASURED	|	|	|
R_m @ BHT	1.26 @ 117 °F	@ °F	@ °F	@ °F
Time Since Circ.	8 HRS.			
Max. Rec. Temp.	117°F @ BHT.	°F @	°F @	°F @
Equip. | Location	9430 | WOODLAND	|	|	|
Recorded By	KENNEDY			
Witnessed By	McBURNIE, CLARE, BRUER			

Fold Here

Service Ticket No. 006575 Remarks:

Change 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	1.26 @ 117 °F	@ °F
R_{mf} @ BHT	1.19 @ 117 °F	@ °F
R_{mc} @ BHT	1.32 @ 117 °F	@ °F

Run No.	1	2	3	4
Tool Type	DIP			
Tool Number	13101			
Pad Type	FORXO			
Correlated By				
Computed By				

Remarks:

Welex does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by Welex personnel or which may appear on the log or in any other form. Any user of such data, interpretations, conversions, or recommendations agrees that Welex is not responsible, except where due to gross negligence or wilful misconduct, for any loss, damages, or expenses from the use thereof.

Magnetic Declination NORTH 20.5° EAST

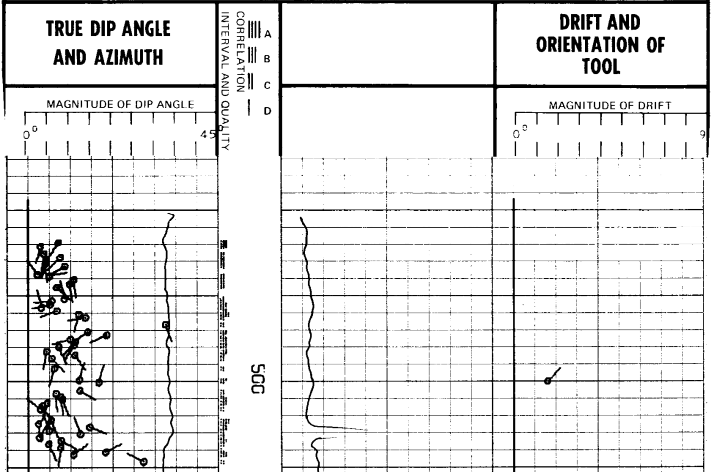
TABLE OF CONSTANTS FOR DETERMINING VERTICAL DIFFERENCE AT VARIOUS DIP ANGLES

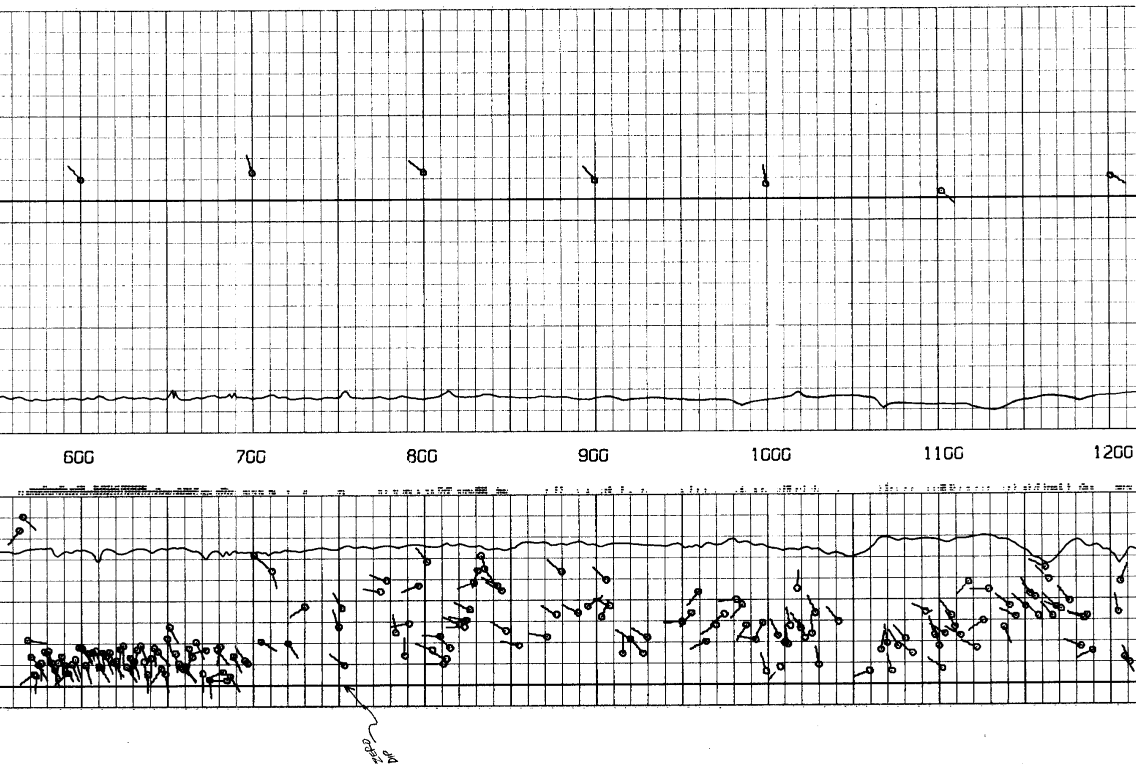
DIP ANGLES Degrees	CONSTANT	DIP ANGLES Degrees	CONSTANT	DIP ANGLES Degrees	CONSTANT	DIP ANGLES Degrees	CONSTANT
1	.0175	11	.194	21	.384	35	.700
2	.035	12	.213	22	.404	40	.839
3	.052	13	.231	23	.425	45	1.000
4	.070	14	.249	24	.445	50	1.192
5	.088	15	.268	25	.466	55	1.428
6	.105	16	.287	26	.487	60	1.732
7	.123	17	.306	27	.509	65	2.144
8	.141	18	.325	28	.531	70	2.748
9	.158	19	.344	29	.554	75	3.732
10	.176	20	.364	30	.577	80	5.671

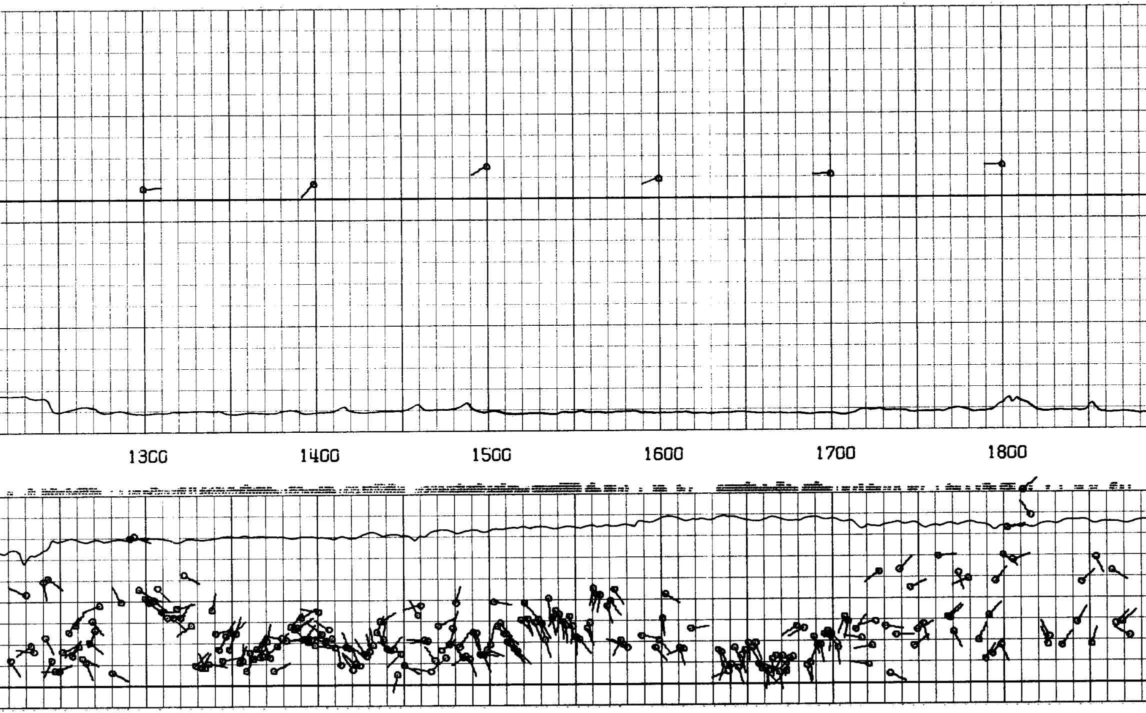
Vertical difference in feet is obtained by multiplying the constant for any given dip angle by the horizontal distance in feet.

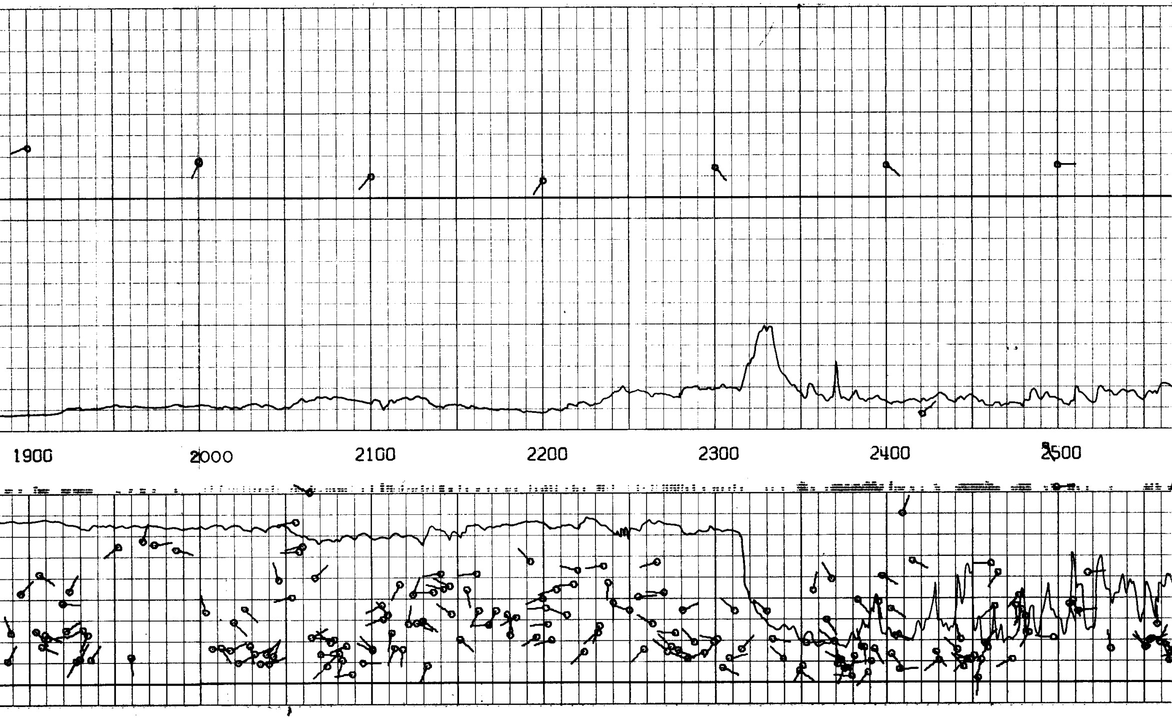
Example: Dip angle 10°. Horizontal distance 440 ft.
Vertical difference = .176 x 440 = 77.44

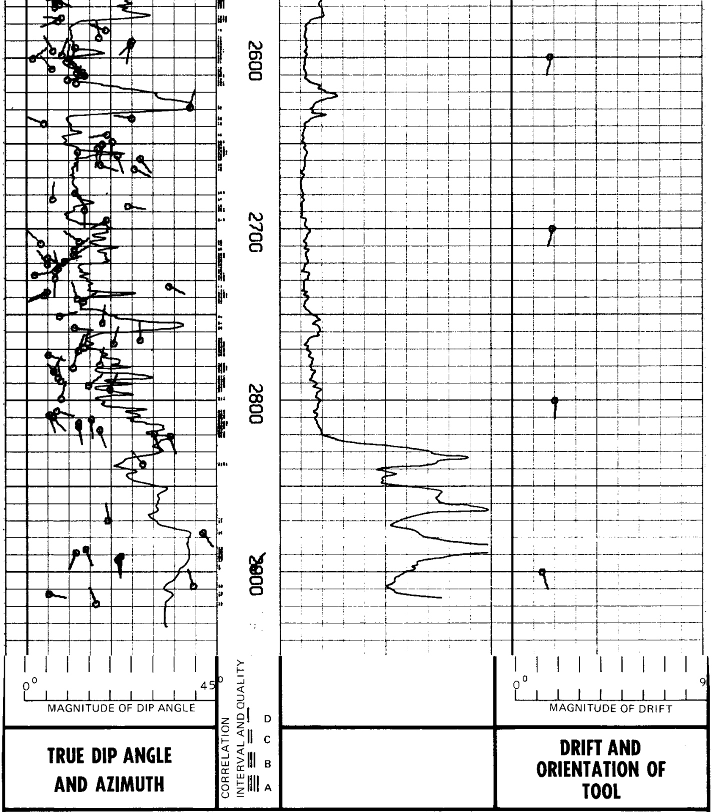
GRAPHIC PRESENTATION











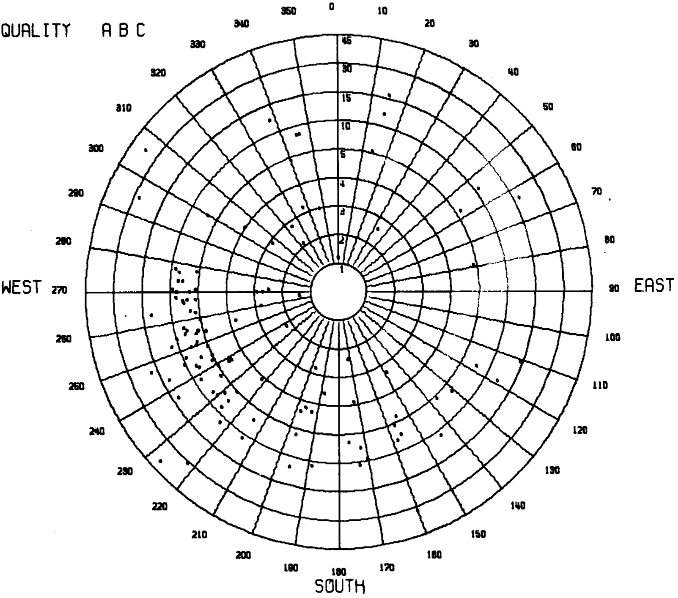
REICHHOLD ENERGY CORPORATION
COLUMBIA COUNTY NO.4
NEHALEM BASIN
COLUMBIA COUNTY, OREGON

T.D. LOGGED 2924
T.D. DRILLER 2926
T.D. WELEX 2926
ELEV: KB 765.2 GL 754

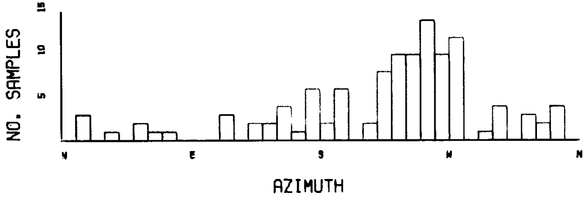
REICHOLD ENERGY CORP COLUMBIA COUNTY #4 COLUMBIA CO., OREGON

DEPTHS 400 700 NORTH

QUALITY A B C



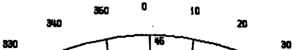
MEAN AZIMUTH 245 AVERAGE DIP ANGLE 8

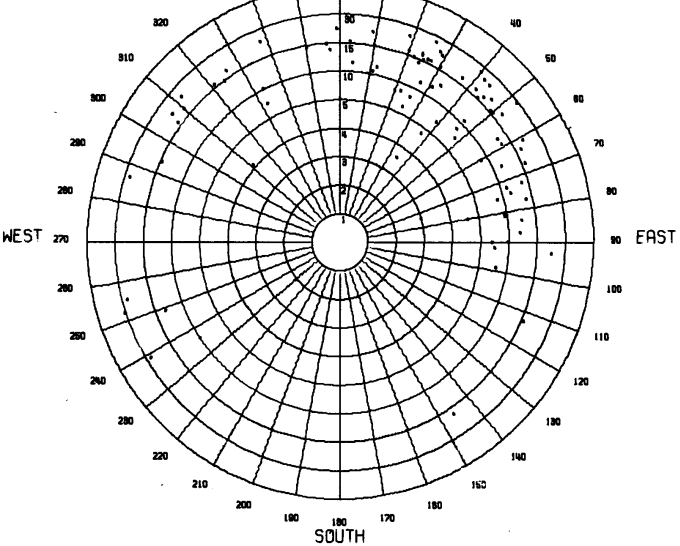


REICHOLD ENERGY CORP COLUMBIA COUNTY #4 COLUMBIA CO., OREGON

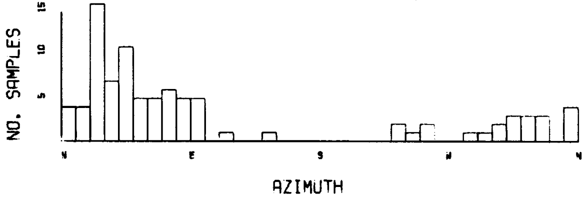
DEPTHS 700 1200 NORTH

QUALITY A B C





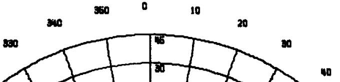
MEAN AZIMUTH 31 AVERAGE DIP ANGLE 15

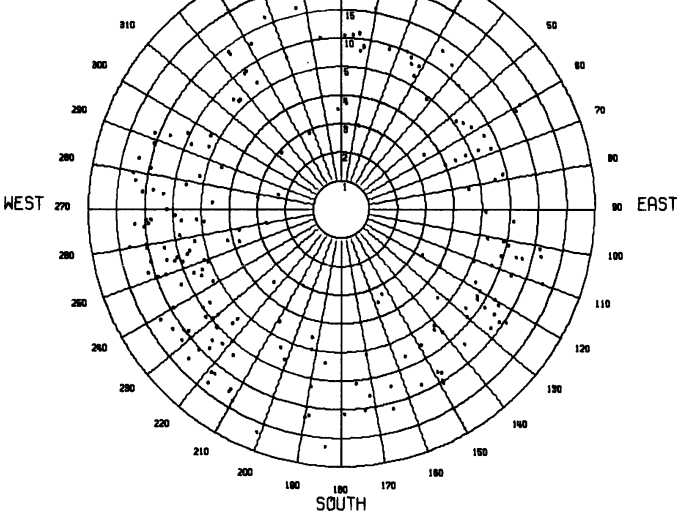


REICHOLD ENERGY CORP COLUMBIA COUNTY #4 COLUMBIA CO., OREGON

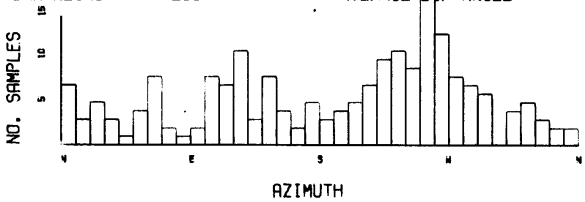
DEPTHS 1200 1715 NORTH

QUALITY A B C





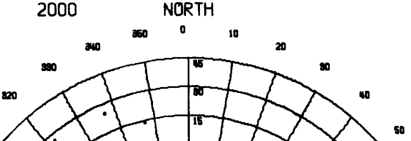
MEAN AZIMUTH 230 AVERAGE DIP ANGLE 11

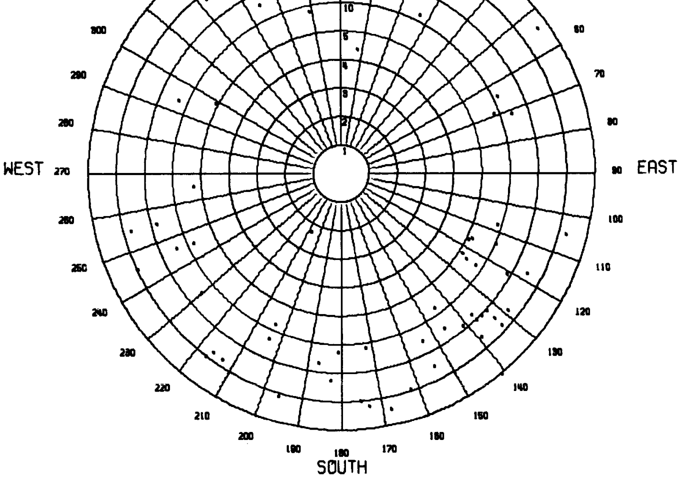


REICHOLD ENERGY CORP COLUMBIA COUNTY #4 COLUMBIA CO., OREGON

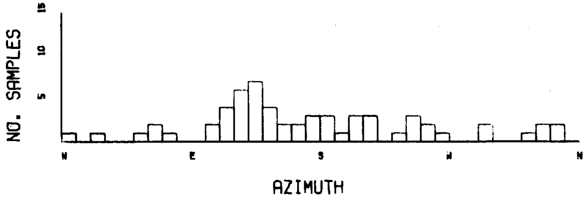
DEPTHS 1715 2000

QUALITY A B C





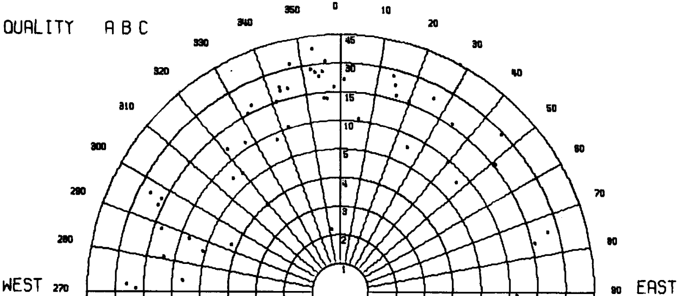
MEAN AZIMUTH 156 AVERAGE DIP ANGLE 17

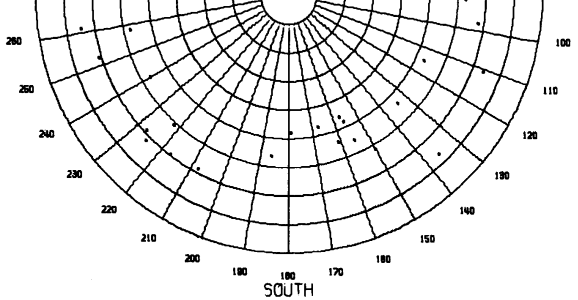


REICHOLD ENERGY CORP COLUMBIA COUNTY #4 COLUMBIA CO., OREGON

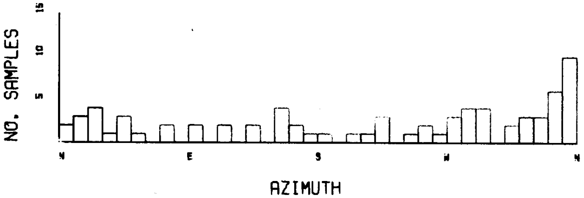
DEPTHS 2000 2250 NORTH

QUALITY A B C





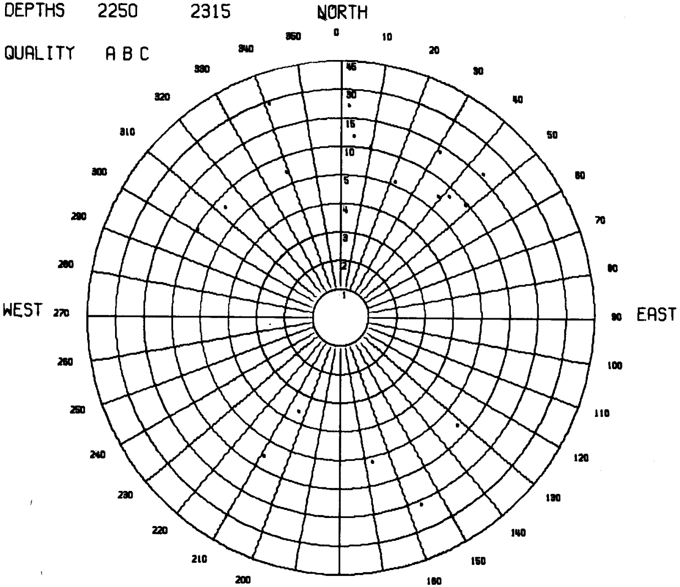
MEAN AZIMUTH 338 AVERAGE DIP ANGLE 16



REICHOLD ENERGY CORP COLUMBIA COUNTY #4 COLUMBIA CO., OREGON

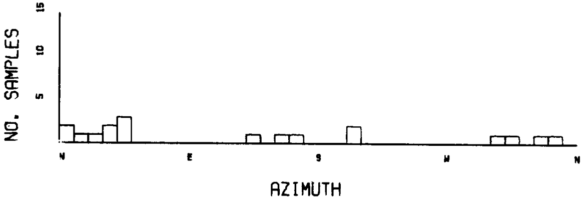
DEPTHS 2250 2315

QUALITY A B C



190 180 170
SOUTH

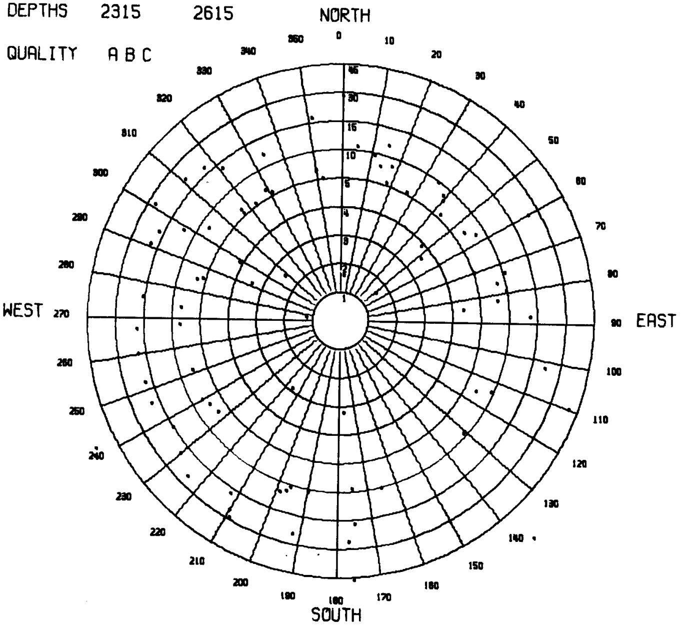
MEAN AZIMUTH 18 AVERAGE DIP ANGLE 11



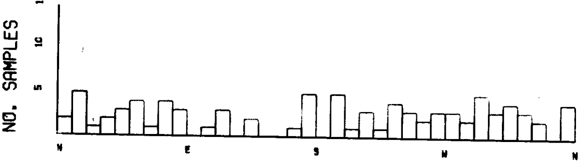
REICHOLD ENERGY CORP COLUMBIA COUNTY #4 COLUMBIA CO., OREGON

DEPTHS 2315 2615

QUALITY A B C



MEAN AZIMUTH 312 AVERAGE DIP ANGLE 13



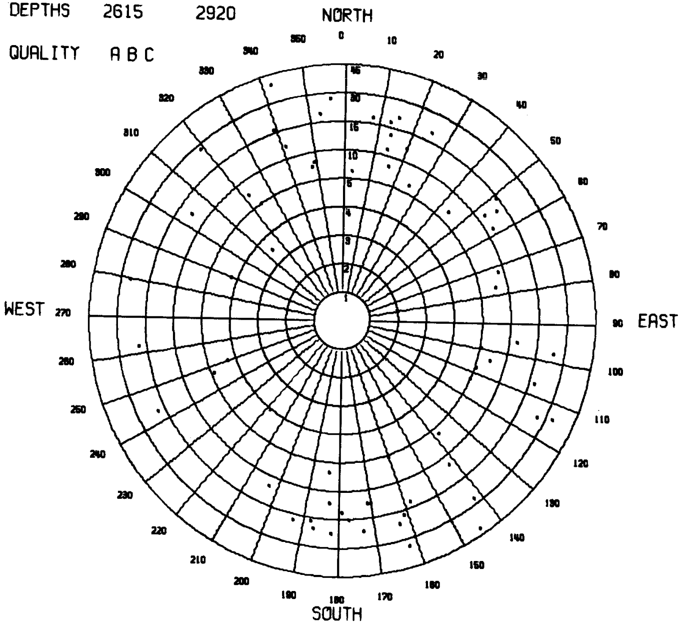
REICHOLD ENERGY CORP

AZIMUTH
COLUMBIA COUNTY #4

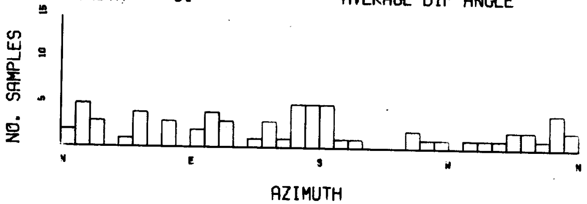
COLUMBIA CO., OREGON

DEPTHS 2615 2920

QUALITY A B C



MEAN AZIMUTH 91

AVERAGE DIP ANGLE 15