Weltex
P-2000

DIP LOG CALCULATIONS

COMPANY REICHOLD ENERGY CORPORATION
WELL LIBEL NO. 2
FIELD NEHALEM BASIN
COUNTY COLUMBIA STATE OREGON
LOCATION N/A
API NO. 36-009-20175
COUNTY COLUMBIA STATE OREGON
Elevation: Gr. 519.82 ft. Datum: K.B. 530.32 ft. Above Perm. Datum
Log Measured From K.B. 10.50 ft. Above Perm. Datum
Drilling Measured From K.B.
Date 9-15-78
Run No. ONE
Depth-Driller 2831
Depth-Logger 2832
Bottom Logged Interval 2830
Top Logged Interval 1500
Type Fluid in Hole LIGNO
Salinity, PPM Cl 1000
Density 9.0
Level Full
Max. Rec. Temp. Deg. F. 90
Operating Rig Time 12 HRS
Recorded By TRASK
Witnessed By

	Run No.	Depth-Driller	Depth-Logger	Bottom Logged Interval	Top Logged Interval	Type Fluid in Hole	Salinity, PPM Cl	Density	Level	Max. Rec. Temp. Deg. F.	Operating Rig Time	Recorded By	Witnessed By
1	ONE	2831	2832	2830	1500	LIGNO	1000	9.0	FULL	90	12 HRS	TRASK	
2													
3													
4													

Fold Here

Service Ticket No. 048898 Remarks:

Change in Mud Type or Additional Samples

	1	1
Date	9-15-78	
Sample No.	1	
Depth	2830	
Type Fluid	LIGNO	
Visc	51	
Weight	9.0	
pH	9.5	
Fluid Loss	5 ml	
Source of Sample	TRANS. NO. 1	
R_m @ Meas. Temp.	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F
R_m @ BHT	1.28 @ 115 °F	@ °F
R_{mf} @ BHT	1.04 @ 115 °F	@ °F
R_{mc} @ BHT	1.37 @ 115 °F	@ °F

Run No.	1	2	3	4
Tool Type	DIP			
Tool Number	15017			
Caliper				
Correlated By				
Computed By				
Remarks:	TRANS. NO. 1 13363 MAST. NO. 13025			

Weltex does not guarantee the accuracy of any interpretation of the data, information or log data or physical rock parameters, or recommendations which may be given by Weltex personnel or which may be reflected in the log or any other form. We are not liable for any claims, interpretations, conclusions, or recommendations agreed upon, Weltex is not responsible incurred where due to gross negligence or willful misconduction, for any loss, damage, 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

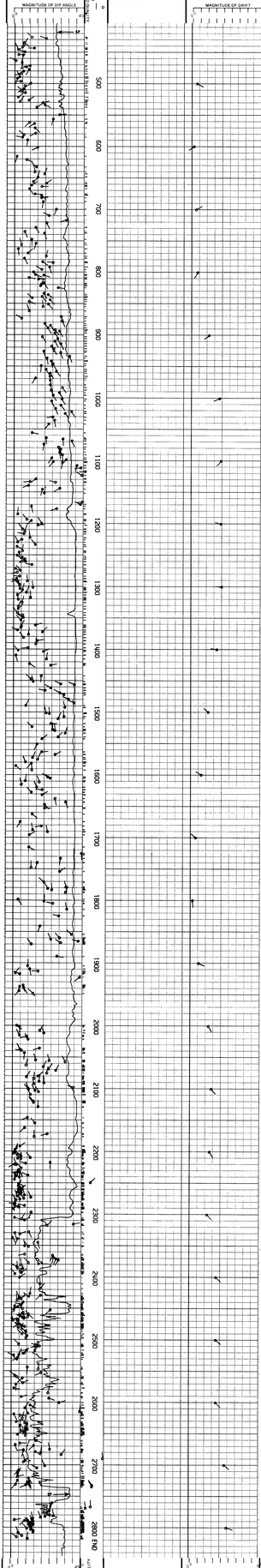
TRUE DIP ANGLE AND AZIMUTH

MAGNITUDE OF DIP ANGLE

AZIMUTH CORRECTION

DRIFT AND ORIENTATION OF TOOL

MAGNITUDE OF DRIFT



TRUE DIP ANGLE AND AZIMUTH
MAGNITUDE OF DIP ANGLE
AZIMUTH CORRECTION
DRIFT AND ORIENTATION OF TOOL
MAGNITUDE OF DRIFT

REICHOLD ENERGY CORPORATION
LIBEL No. 2
NEHALEM BASIN
COLUMBIA COUNTY, OREGON

T.D. LOGGED 2831
T.D. DRILLER 2857
T.D. WELEX 2832
ELEV: KB 530.32 GL 519.82