Johnson 33-33-88

Welex 5"=100'

DIP LOG CALCULATIONS

COMPANY OREGON NATURAL GAS CORPORATION
WELL HOWARD JOHNSON 33-33
FIELD OLNEY GAS
COUNTY CLATSOP STATE OR

COMPANY OREGON NATURAL GAS CORPORATION

WELL HOWARD JOHNSON 33-33

FIELD OLNEY GAS

COUNTY CLATSOP **STATE** OREGON

Location 2036' NORTH & 2000' WEST FROM THE SOUTHEAST CORNER OF:

Other Services: DIG C/AVL

Sec. 33 Twp. 8N Rge. 8W

Permanent Datum G.L. Elev. 500
Log Measured From K.B. OR 21 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 521
D.F.
G.L. 500

Date	11-24-81			
Run No.	ONE			
Depth - Driller	10006			
Depth - Welex	NOT LOGGED			
Btm. Log Inter.	3600			
Top Log Inter.	1150			
Casing - Driller	10 3/4 @ 1018	@	@	@
Casing - Welex	NOT LOGGED			
Bit Size	8 3/4			
Type Fluid in Hole	LIGNOSULF.			
Dens. | Visc.	10.6 | 85	|	|	|
pH | Fluid Loss	10.5 | 4.0ml	| ml	| ml	| ml
Source of Sample	CIRCULATED			
Rm @ Meas. Temp.	1.47 @ 57 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.18 @ 58 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	1.90 @ 61 °F	@ °F	@ °F	@ °F
Source Rmf Rmc	MEASURED	|	|	|
Rm @ BHT	0.65 @ 128 °F	@ °F	@ °F	@ °F
Time Since Circ.	N/A			
Max. Rec. Temp.	128°F @ BHT.	°F @	°F @	°F @
Equip. | Location	2890 | WOODLAND	|	|	|
Recorded By	PARMELEE			
Witnessed By	N/A			

RECEIVED PTLD
DEC 30 1981
DEPT OF GEOLOGY

Fold Here

Service Ticket No. 054969 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		
Rm @ Meas. Temp.	@ °F	@ °F
Rmf @ Meas. Temp.	@ °F	@ °F
Rmc @ Meas. Temp.	@ °F	@ °F
Source: Rmf | Rmc	|	|
Rm @ BHT	0.65 @ 128 °F	@ °F
Rmf @ BHT	0.57 @ 128 °F	@ °F
Rmc @ BHT	0.96 @ 128 °F	@ °F

Run No.	1	2	3	4
Tool Type	DIP			
Tool Number	N/A			
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 21.5° EAST

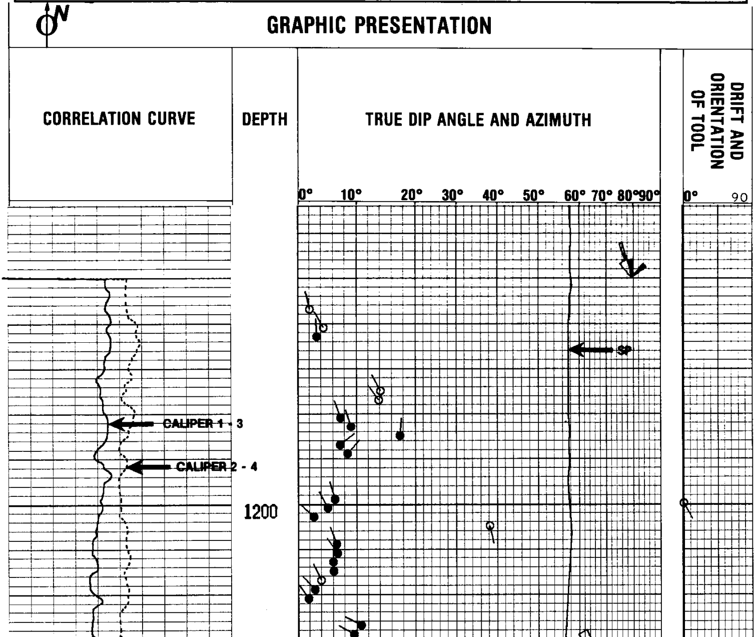
TABLE OF CONSTANTS FOR DETERMINING VERTICAL DIFFERENCE AT VARIOUS DIP ANGLES

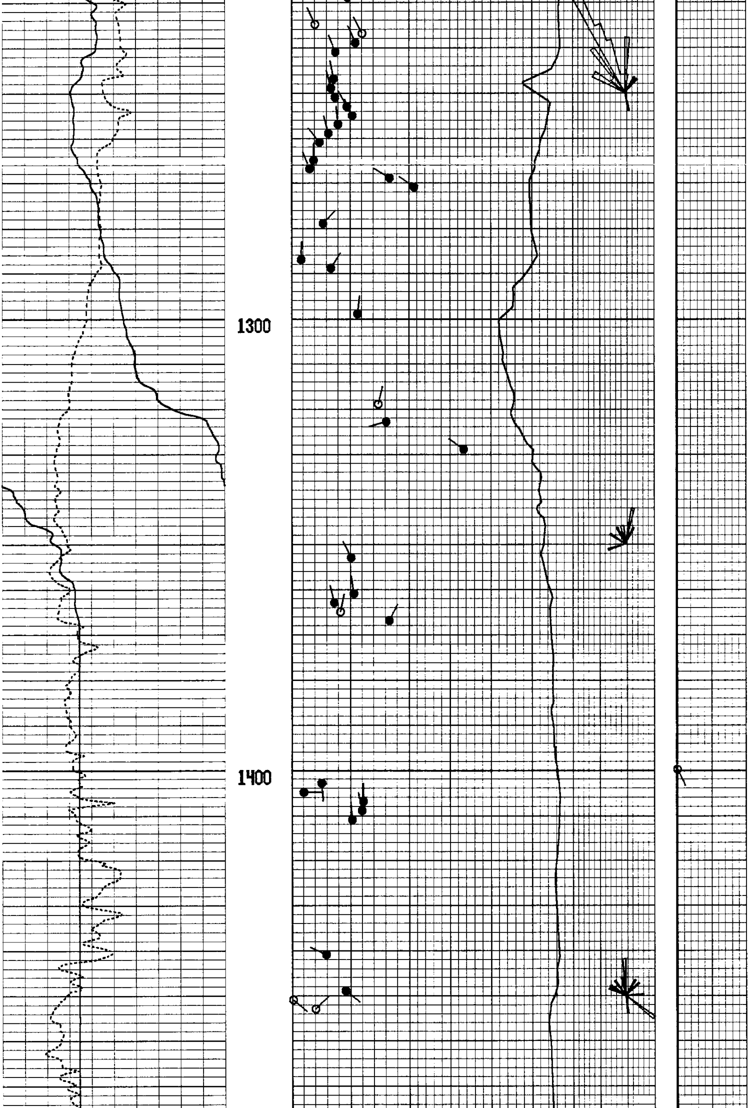
DIP ANGLES Degrees	CONSTANT	DIP ANGLES Degrees	CONSTANT	DIP ANGLES Degrees	CONSTANT	DIP ANGLES Degrees	CONSTANT
1	.0175	11	.194	21	.384	35	.700
2	.035	12	.213	22	.404	40	.839
3	.052	13	.231	23	.425	45	1.000
4	.070	14	.249	24	.445	50	1.192
5	.088	15	.268	25	.466	55	1.428
6	.105	16	.287	26	.487	60	1.732
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

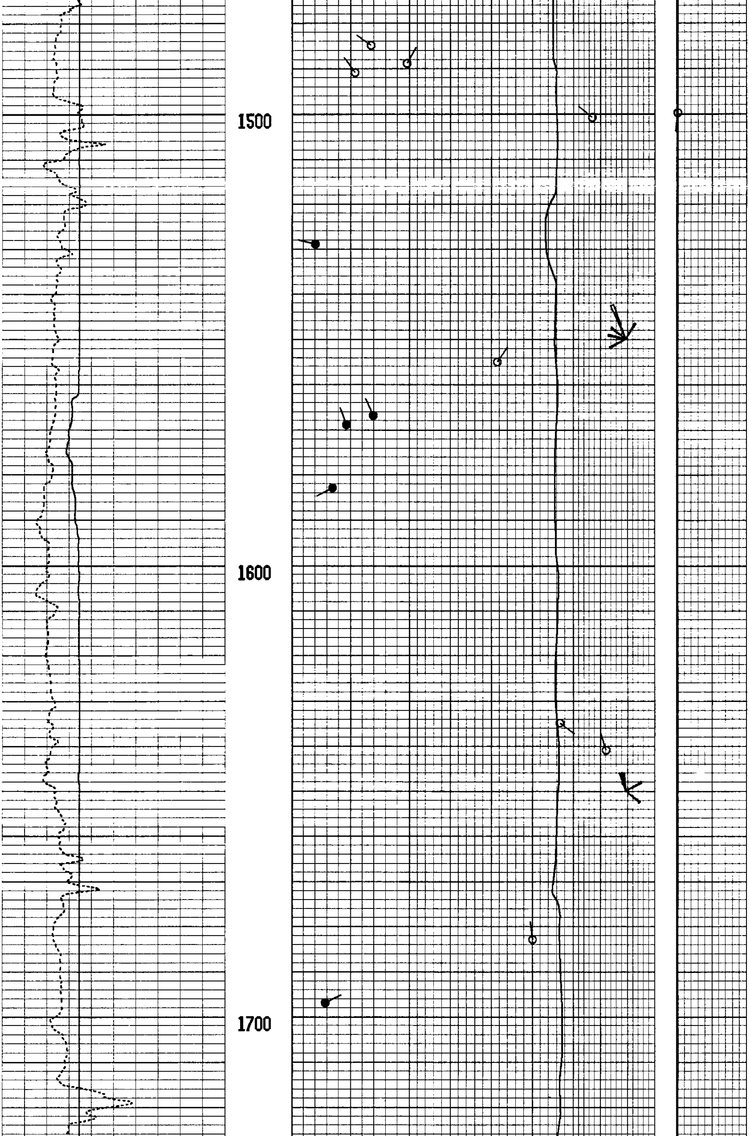
Vertical difference in feet is obtained by multiplying the constant for any given dip angle by the horizontal distance in feet.

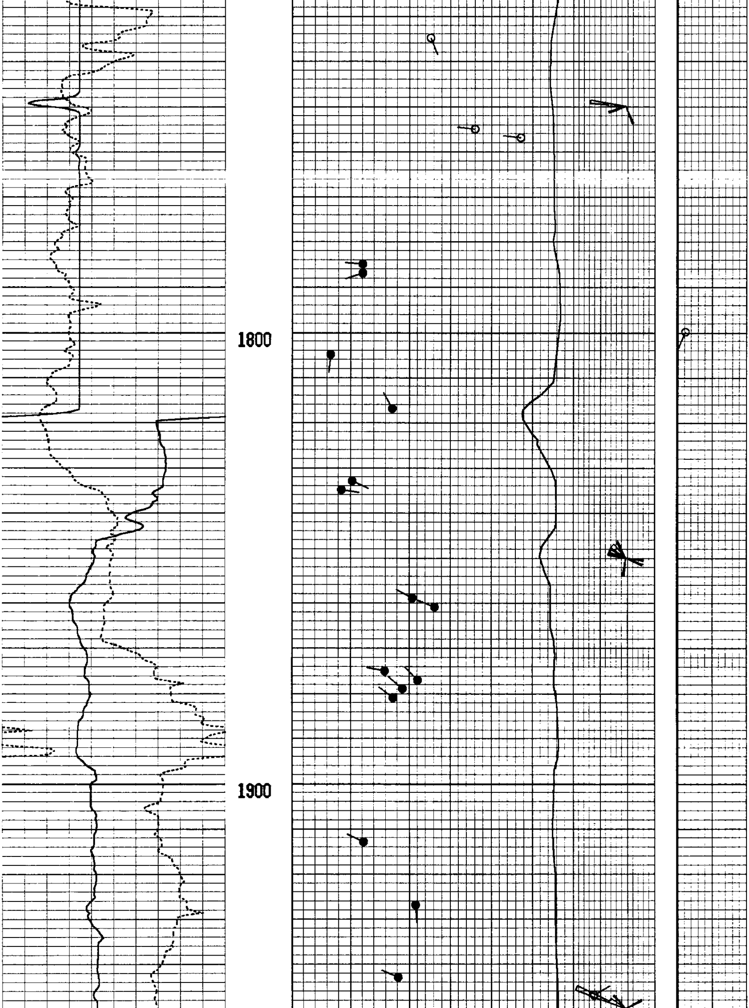
Example: Dip angle 10°, Horizontal distance 440 ft.

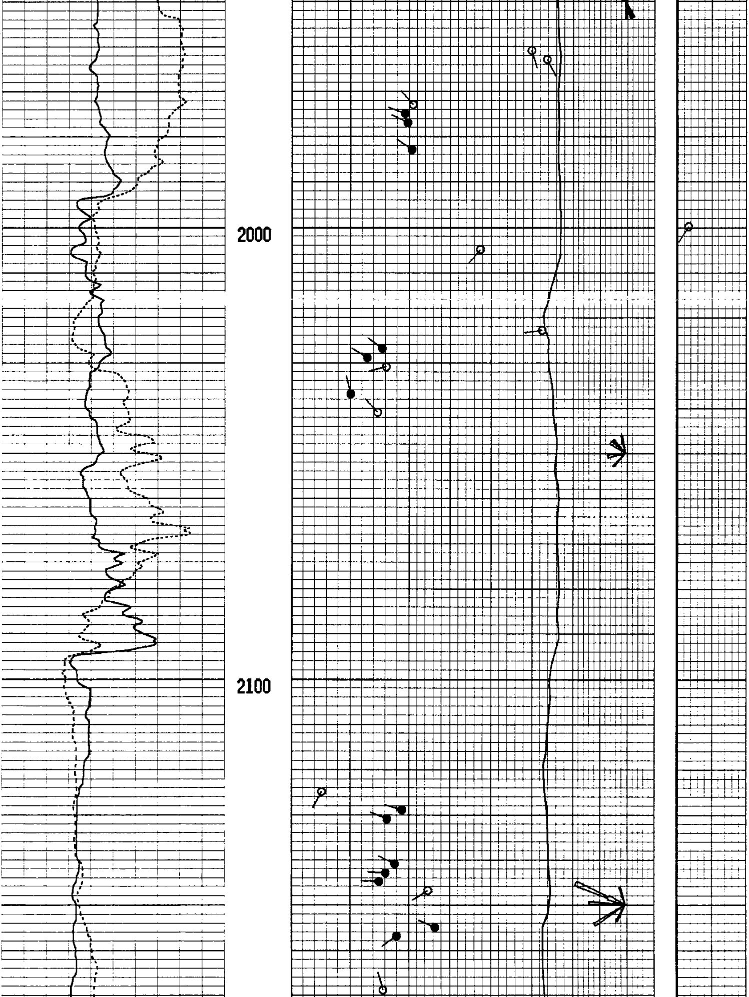
Vertical difference = .176 x 440 = 77.44

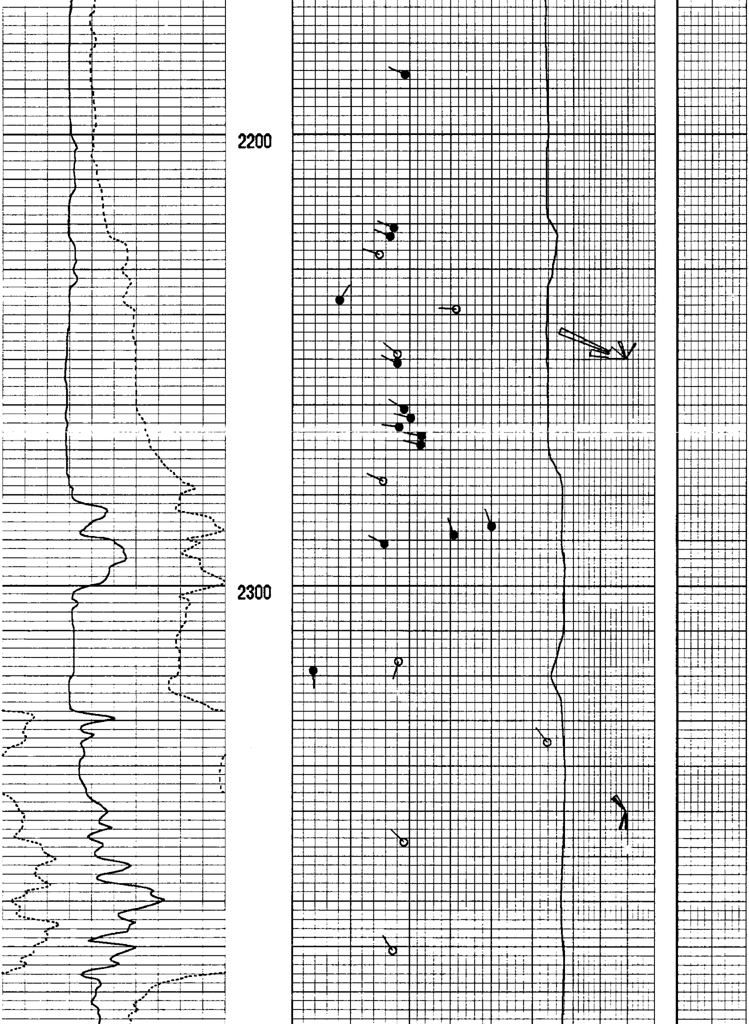


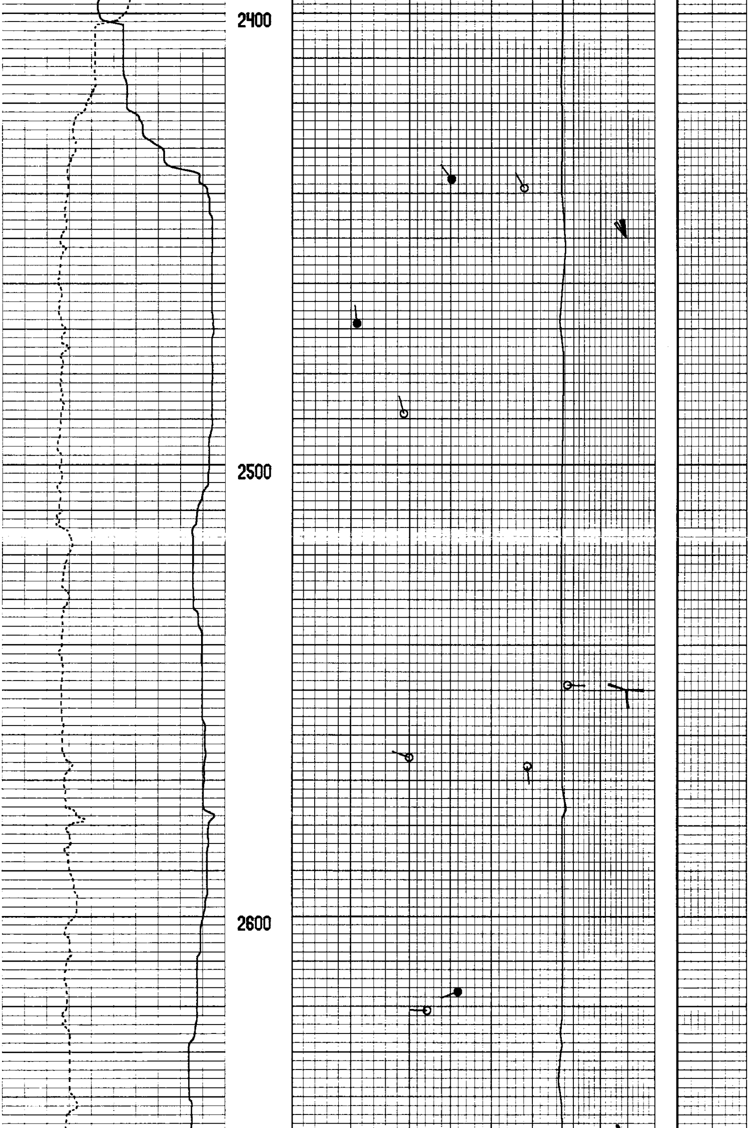


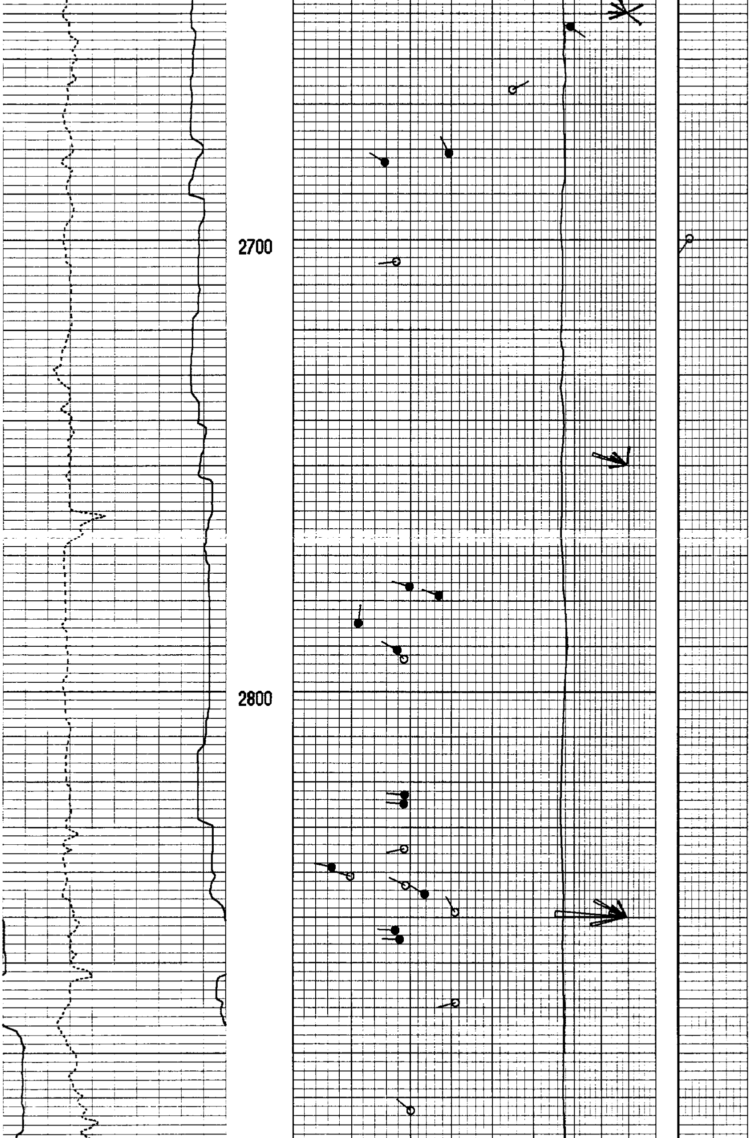


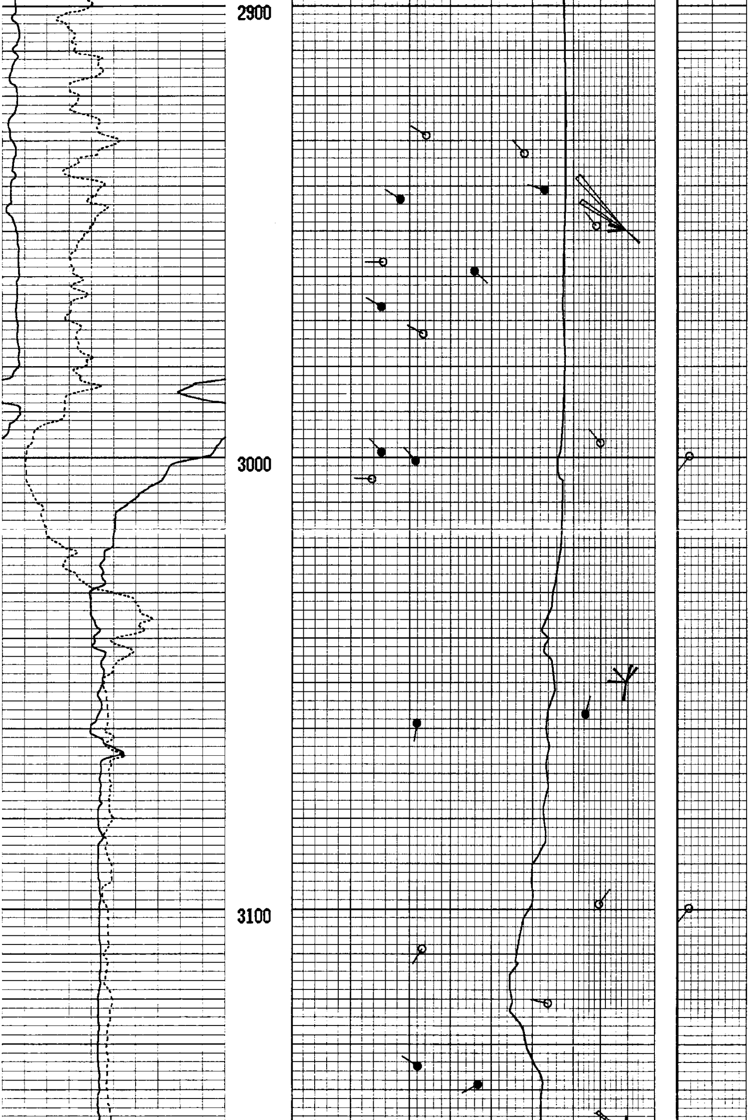


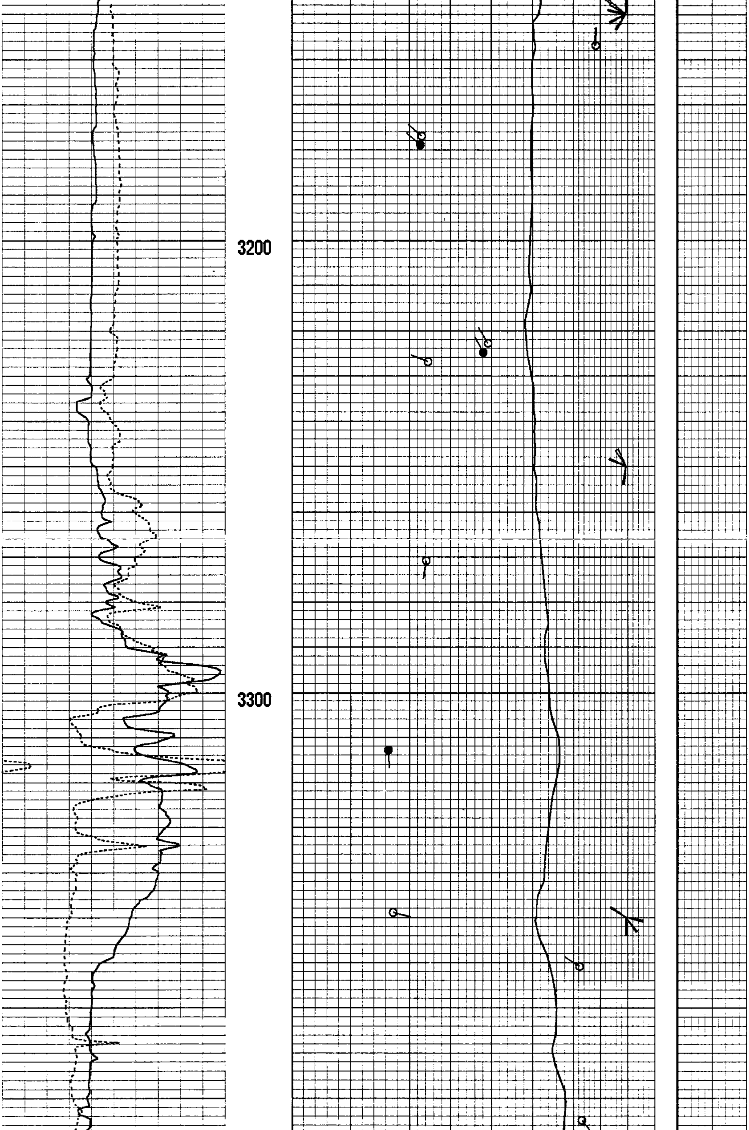


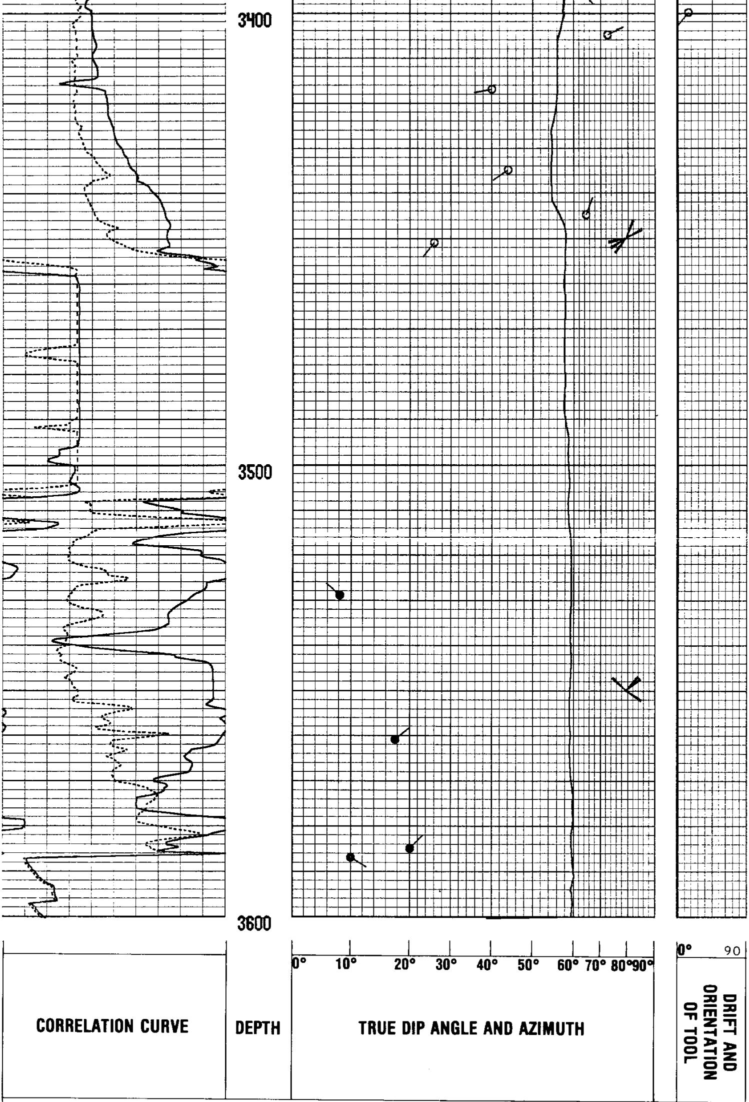












COMPANY	OREGON NATURAL GAS CORPORATION	**T.D. LOGGED**	3600
WELL	HOWARD JOHNSON 33-33	**T.D. DRILLER**	10006
FIELD	OLNEY GAS	**T.D. WELEX**	NOT LOGGED
COUNTY	CLATSOP **STATE** OREGON	**ELEV: K.B.**	521
		D.F.	
		G.L.	500