Western Atlas International ®

ATLAS WIRELINE SERVICES

COMPUTED DIPLOG

FILE NO. BLAC 763.0
API NO. 36-009-00267

2" = 100'

COMPANY **NORTHWEST NATURAL GAS COMPANY**
WELL I.W. 13b-11
FIELD MIST
COUNTY COLUMBIA STATE OREGON

LOCATION:
272.25'NORTH & 344.20'EAST
from the West 1/4 corner of:
SEC 11 TWP 6-N RGE 5-W

Other Services
DIFL-BHC/AC
CDL-CN-GR

Permanent Datum GL Elev. 886.45
Log Measured from DF , 10.40 Ft Above Permanent Datum
Drilling Measured from KB

Elev.
KB 897.85
DF
GL 886.45

Date	09/25/91	09/28/91		
Run No.	1	2		
Service Order	66910	66912		
Depth - Driller	2214.0	2905.0		
Depth - Logger	2209.0	2904.0		
Bottom Logged Interval	.0	2901.0		
Top Logged Interval	536.0	2210.0		
Casing - Driller	13.38 @ 532.0	8.63 @ 2210.0	@	@
Casing - Logger	NOT LOGGED	NOT LOGGED		
Bit Size	12.250	7.875		
Type Fluid In Hole	GEL/POLYMER	KCL/HEC		
Density and Viscosity	9.3 55.0	9.2 42.0		
pH and Fluid Loss	9.0 4.6cc	9.0 12.4cc	cc	cc
Source of Sample	FLOW	FLOW		
Rm @ Meas. Temp.	2.140 @ 72 F	0.130 @ 69 F	@ F	@ F
Rmf @ Meas. Temp.	2.310 @ 72 F	0.126 @ 69 F	@ F	@ F
Rmc @ Meas. Temp.	2.010 @ 72 F	0.154 @ 69 F	@ F	@ F
Source of Rmf and Rmc	MEAS MEAS	MEAS MEAS		
Rm @ BHT	1.550 @ 101 F	.090 @ 100 F	@ F	@ F
Time Since Circ.	9 HRS.	9 HRS.		
Max. Rec. Temperature	103 F	105 F	F	F
Equip. No.and Location	6399 BAK	6399 BAK		
Recorded By:	TORGERSON	TORGERSON		
Witnessed By:	MR. ROTH	MR. ROTH		

FOLD HERE

In making interpretations of logs our employees will give Customer the benefit of their best judgment, but since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or the correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the Customer resulting from any interpretation made by any of our employees.

Remarks:

SL=8 & 18 inches 536-2224
2 ft STEP, 8 ft WINDOW

From 2180-2220' no data is available... this is the transition interval between RUN 1 and RUN 2

EQUIPMENT DATA

	RUN NO. 1	RUN NO. 2	RUN NO.	RUN NO.
Tool Series No.	72657	72657		
Tool Serial No.	1010	1010		
Orientation Type				
OR. Serial No.				
Panel Series No.				
Panel Serial No.				
Electronics No.	78387	78387		
Tape Unit Series No.				
Tape Unit Serial No.				
Analyst	JOHNSON	JOHNSON		

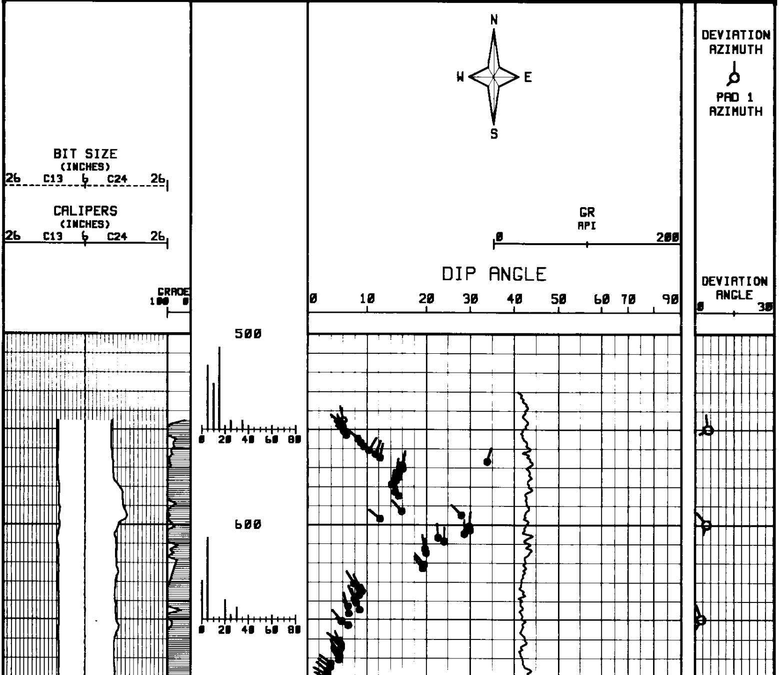
MAGNETIC DECLINATION 20 EAST

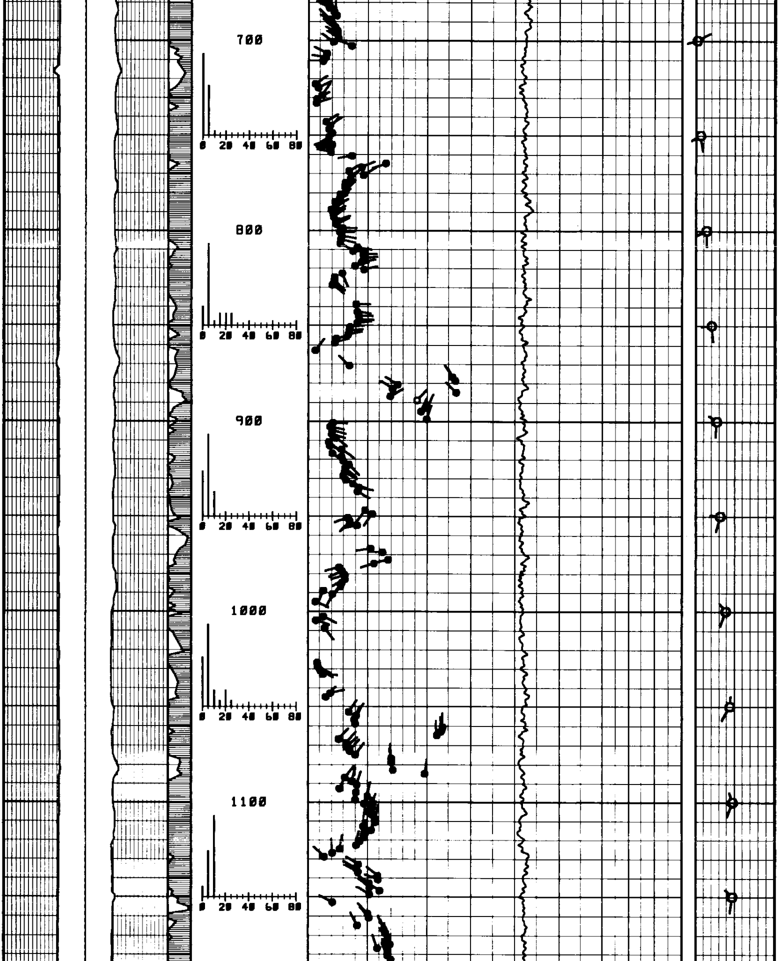
VERTICAL DISPLACEMENT FOR VARIOUS HORIZONTAL DISTANCES AND ANGLES OF DIP

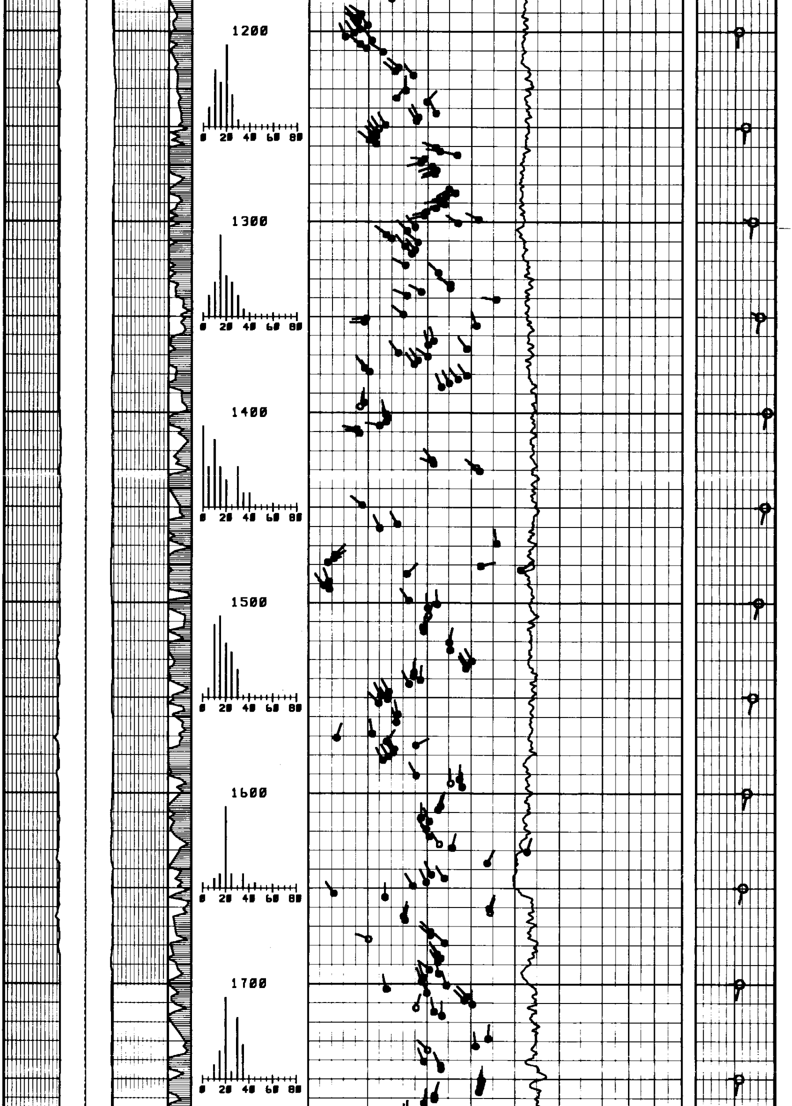
DIP In degrees	100	1000	5280	DIP In degrees	100	1000	5280
1	1.75	17.5	92.2	19	34.4	344	1818
2	3.50	35.0	184.0	20	36.4	364	1922
3	5.20	52.0	277.0	21	38.4	384	2022
4	7.00	70.0	369.0	22	40.4	404	2133
5	8.80	88.0	462.0	23	42.5	425	2241
6	10.50	105.0	555.0	24	44.5	445	2351
7	12.30	123.0	648.0	25	46.6	466	2462
8	14.10	141.0	742.0	30	57.7	577	3048
9	15.80	158.0	836.0	35	70.0	700	3697
10	17.60	176.0	931.0	40	83.9	839	4430
11	19.40	194.0	1026.0	45	100.0	1000	5280
12	21.30	213.0	1112.0	50	119.2	1192	6291
13	23.10	231.0	1219.0	55	142.8	1428	7500
14	24.90	249.0	1316.0	60	173.2	1732	9145
15	26.80	268.0	1415.0	65	214.4	2144	11323
16	28.70	287.0	1514.0	70	274.8	2748	14507
17	30.60	306.0	1614.0	75	373.2	3732	19705
18	32.50	325.0	1716.0	80	567.1	5671	29945

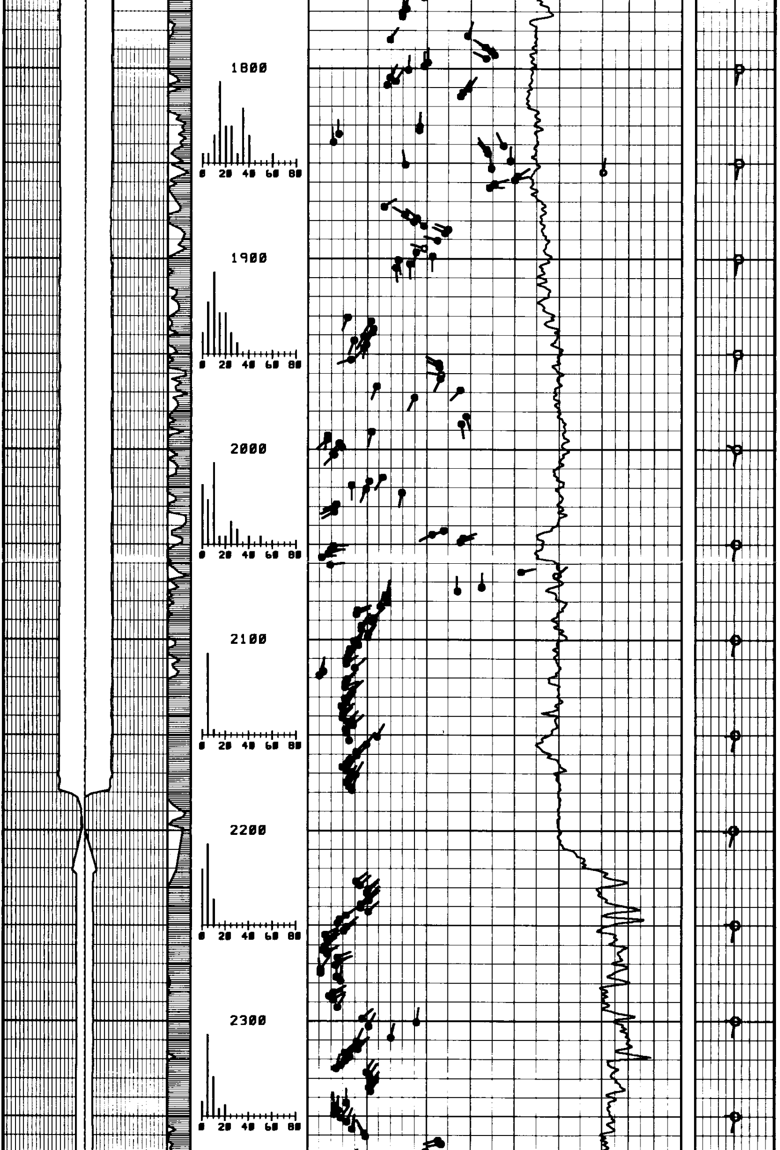
GRAPHIC PRESENTATION

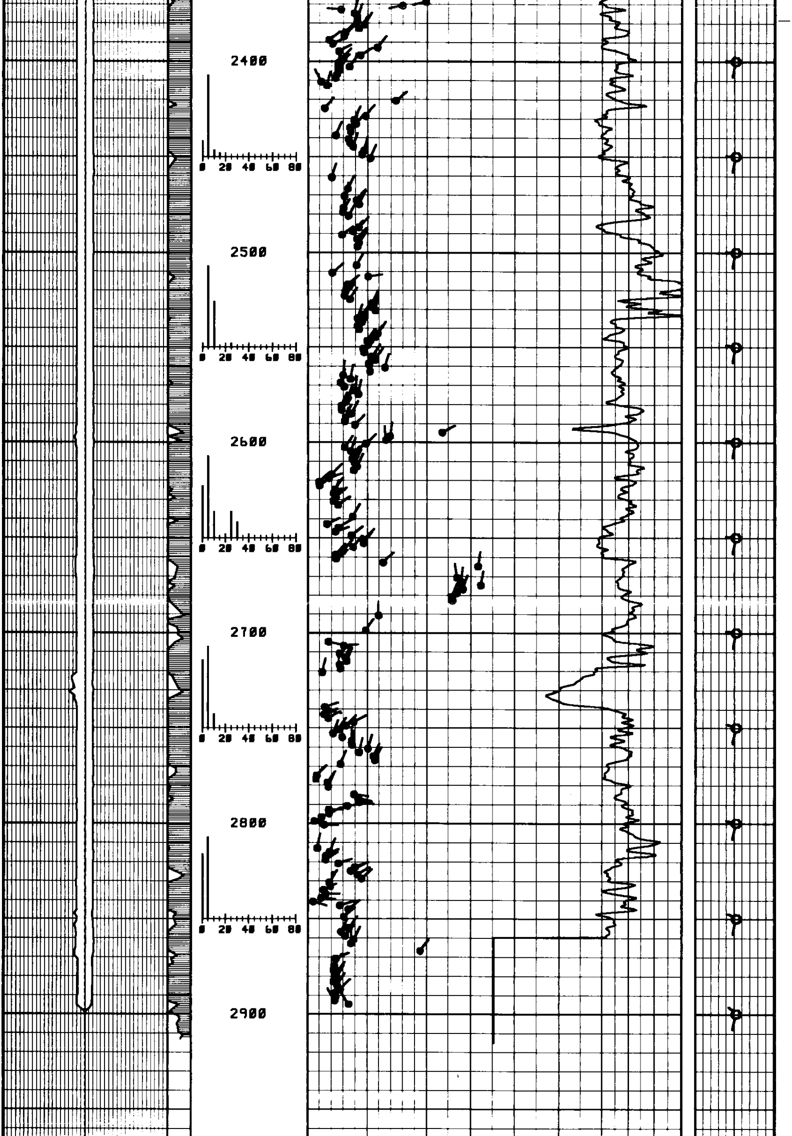
FAIR ○—— EXCELLENT ●——

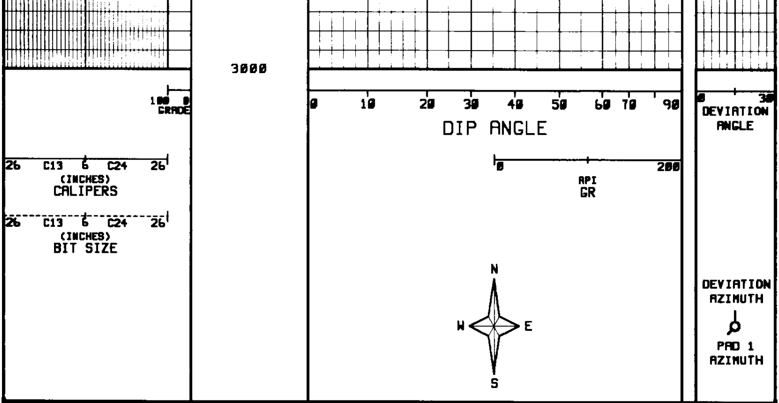






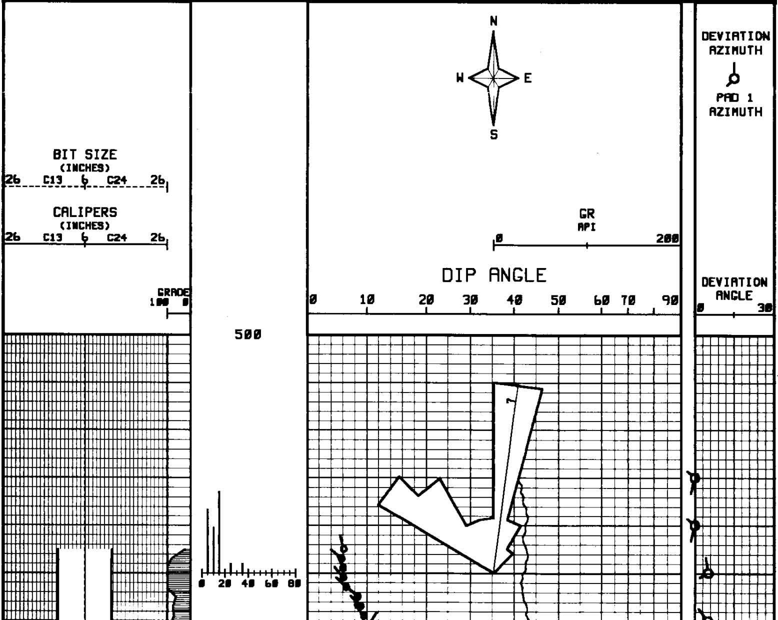


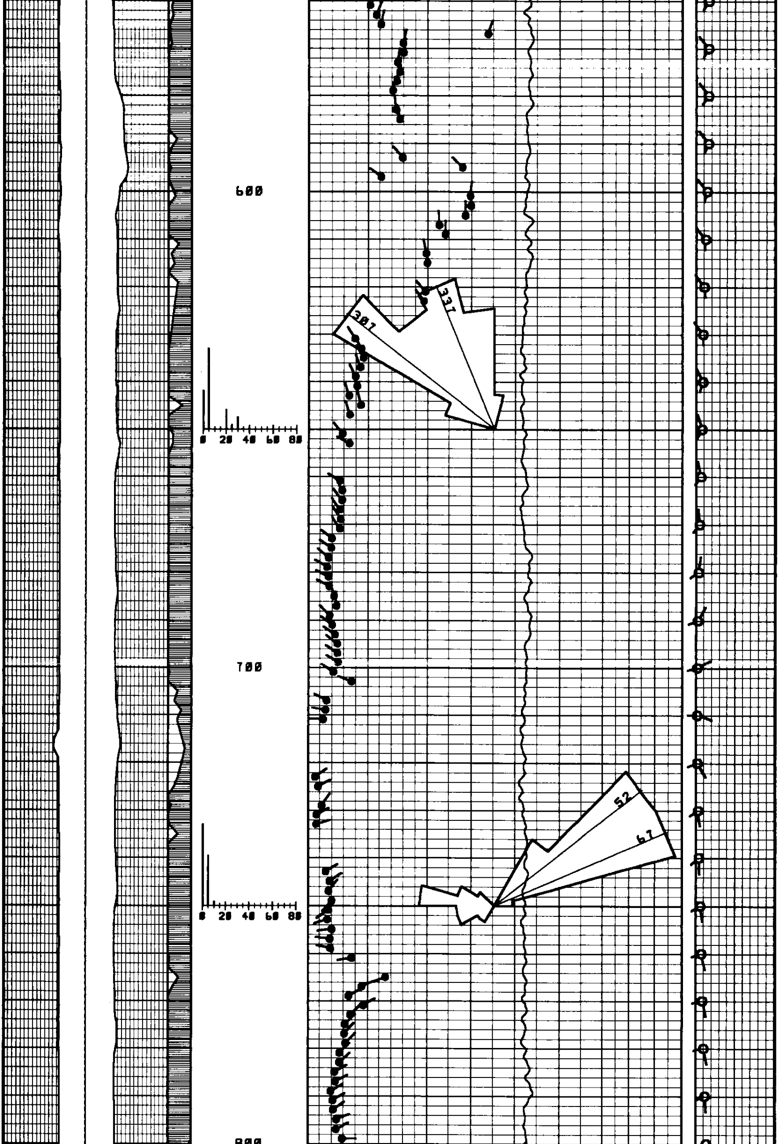


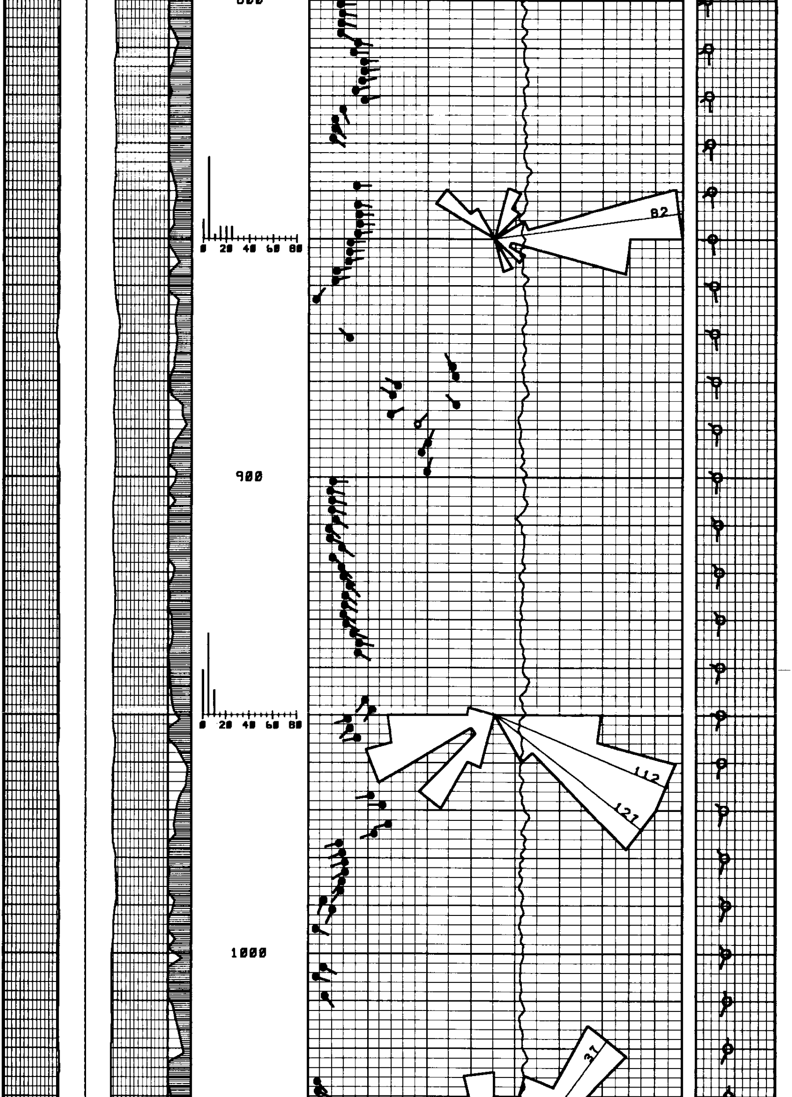


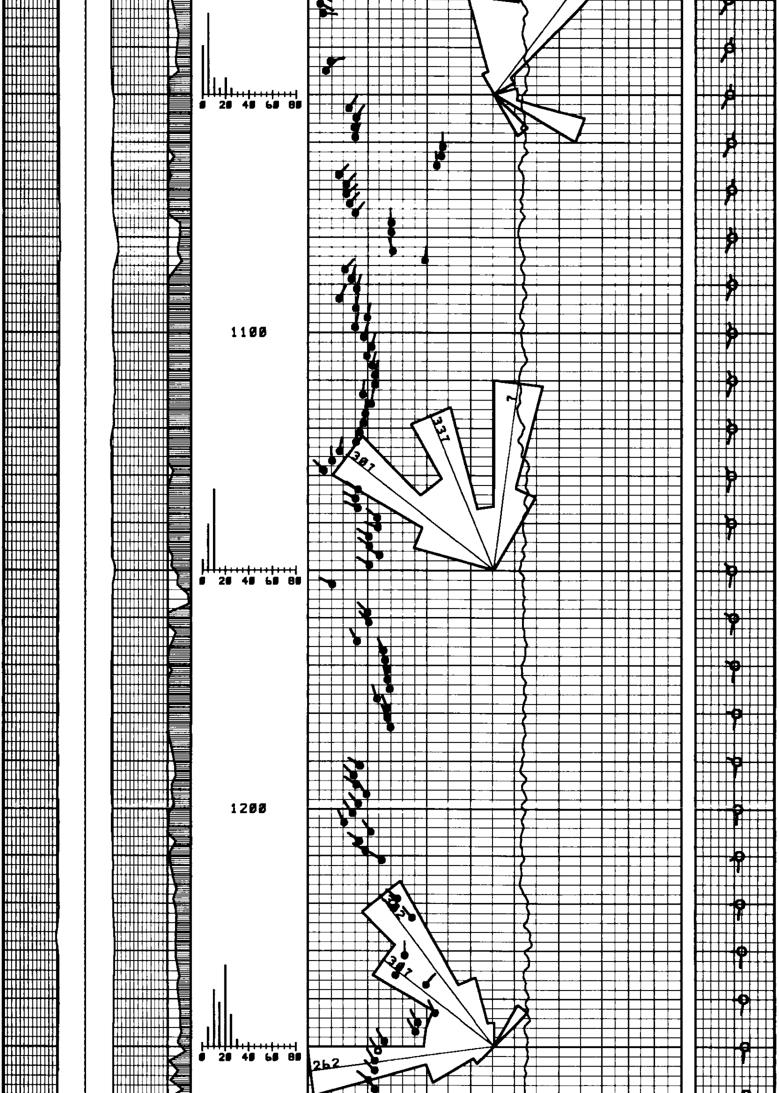
Company OREGON NATURAL GAS DEVELOPEMENT CORP.
Well I.W. 13b-11
Field MIST
County COLUMBIA
State OREGON

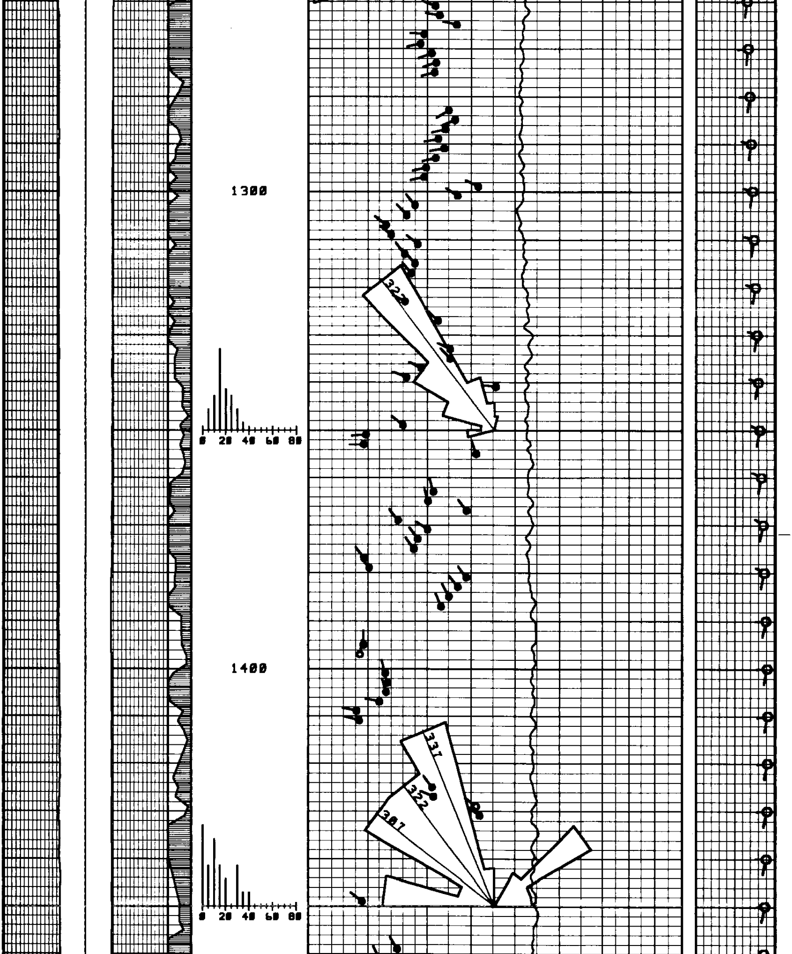
Drillers T.D. 2905.0
Log T.D. 2904.0
Log F.R. 2901.0
Elevations
K.B. 897.85 **DF.** 896.85 **G.L.** 886.45

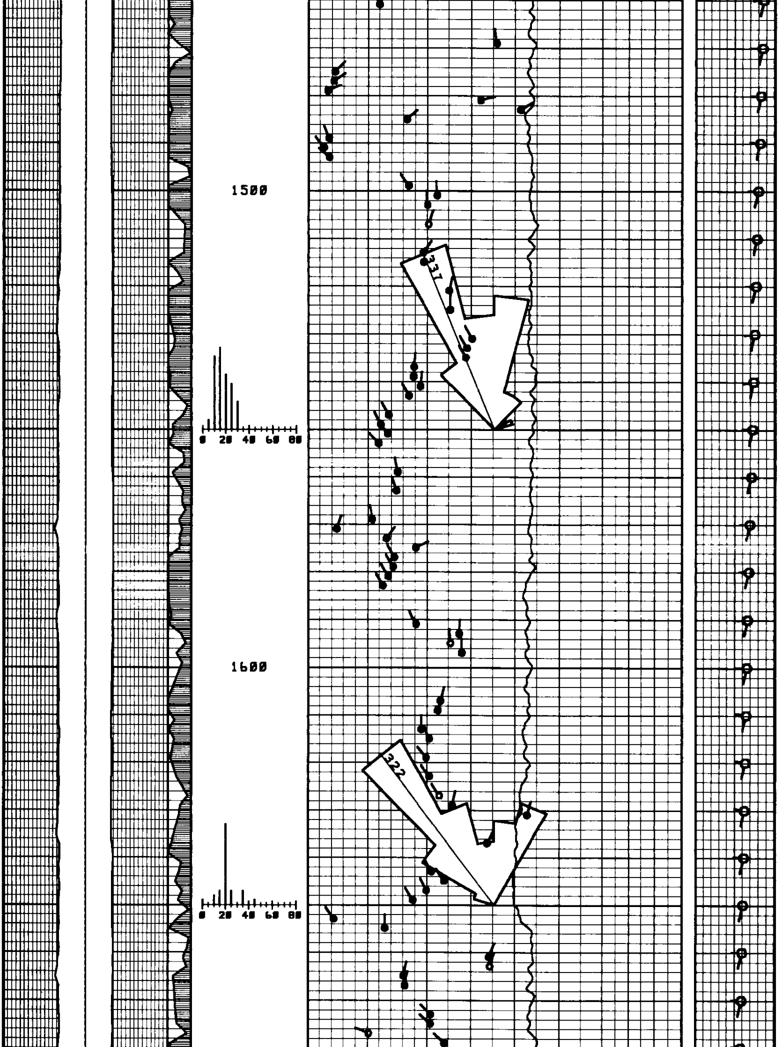


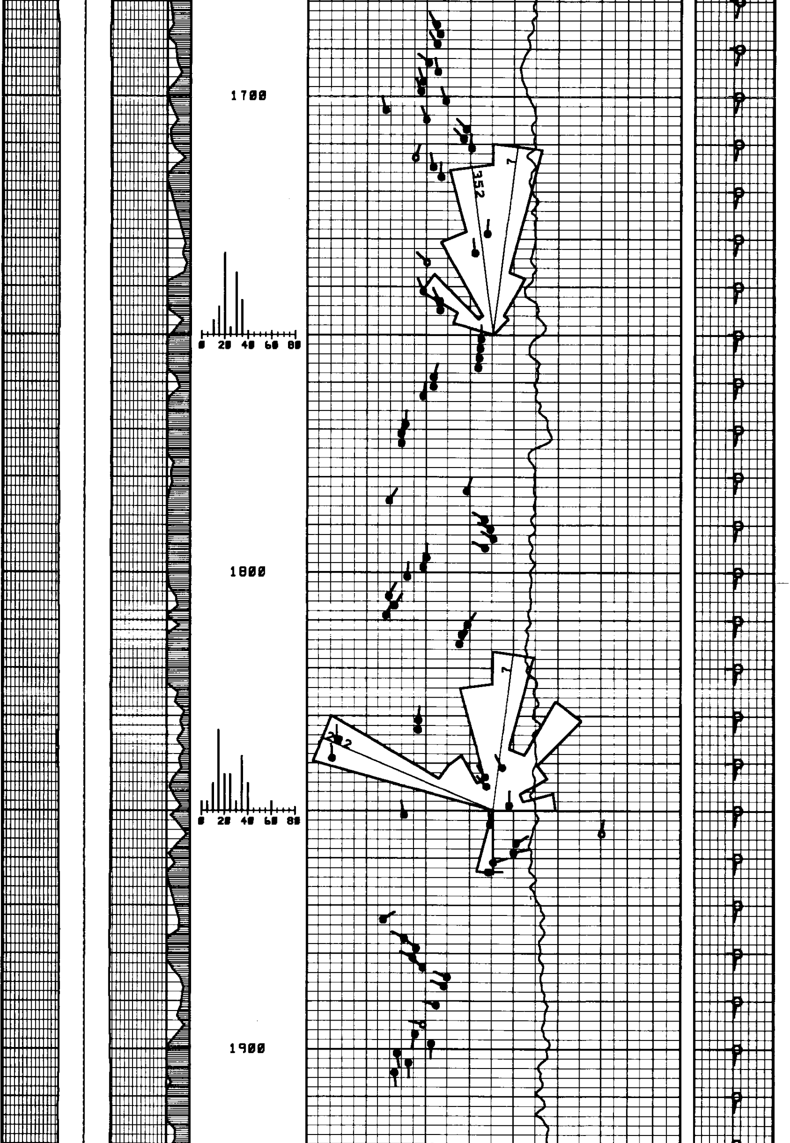


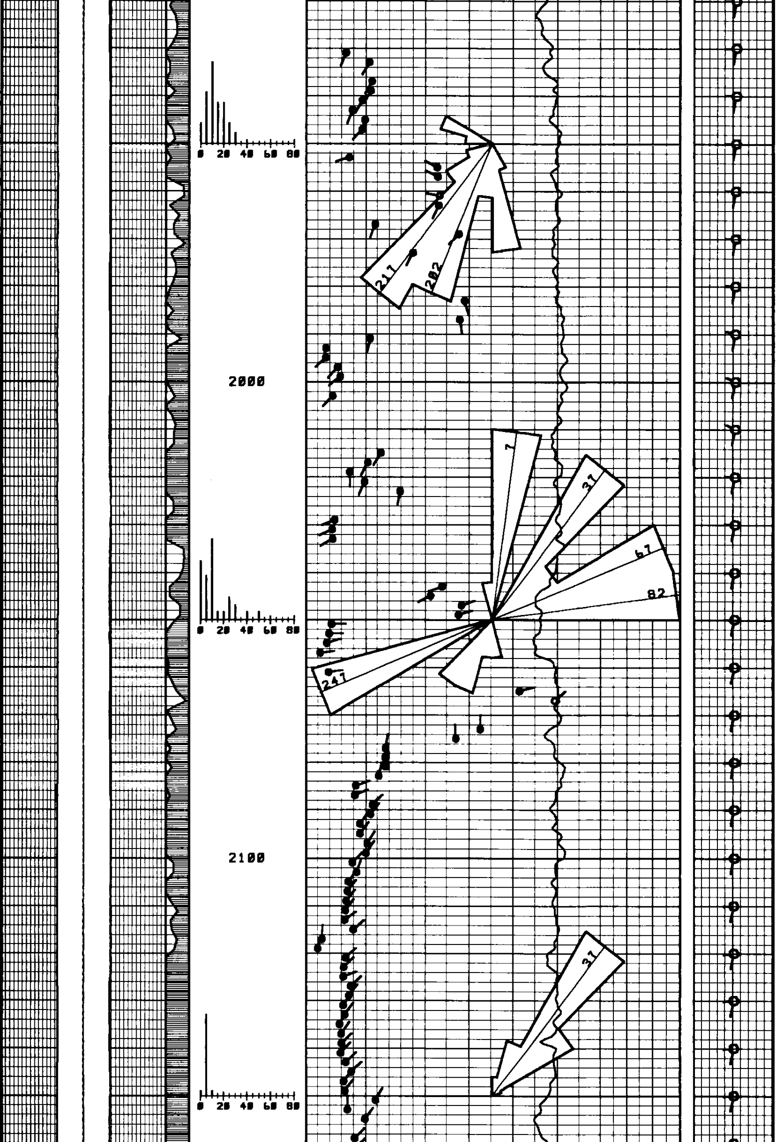


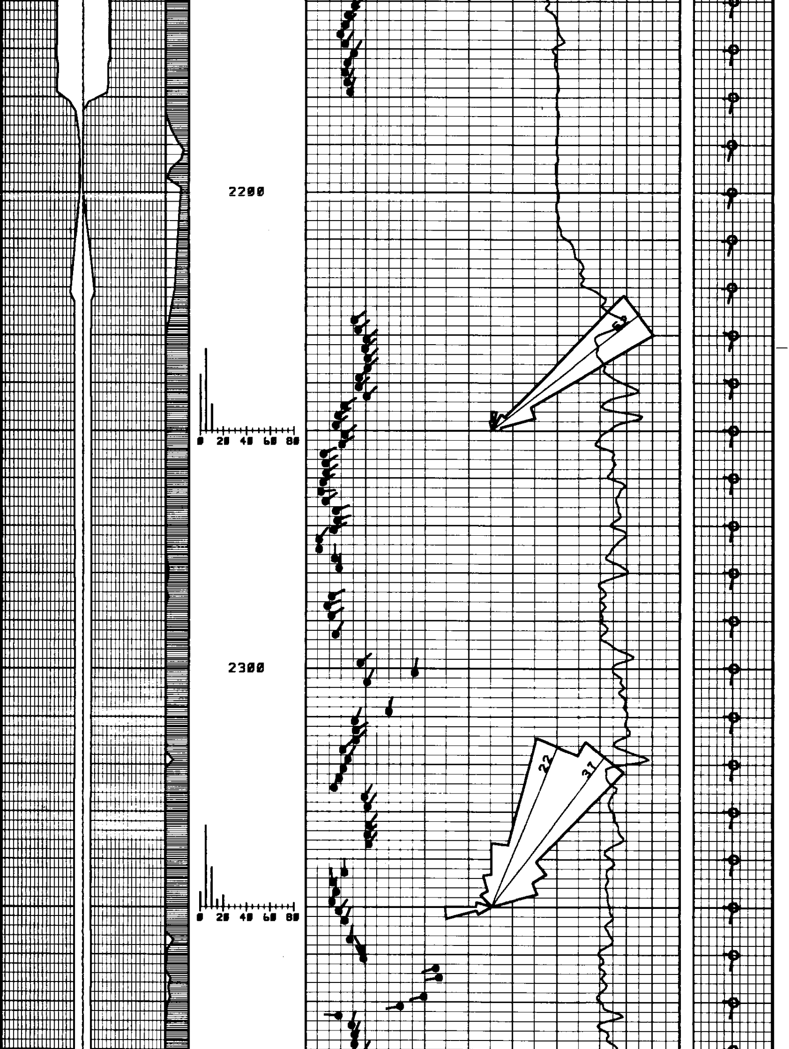


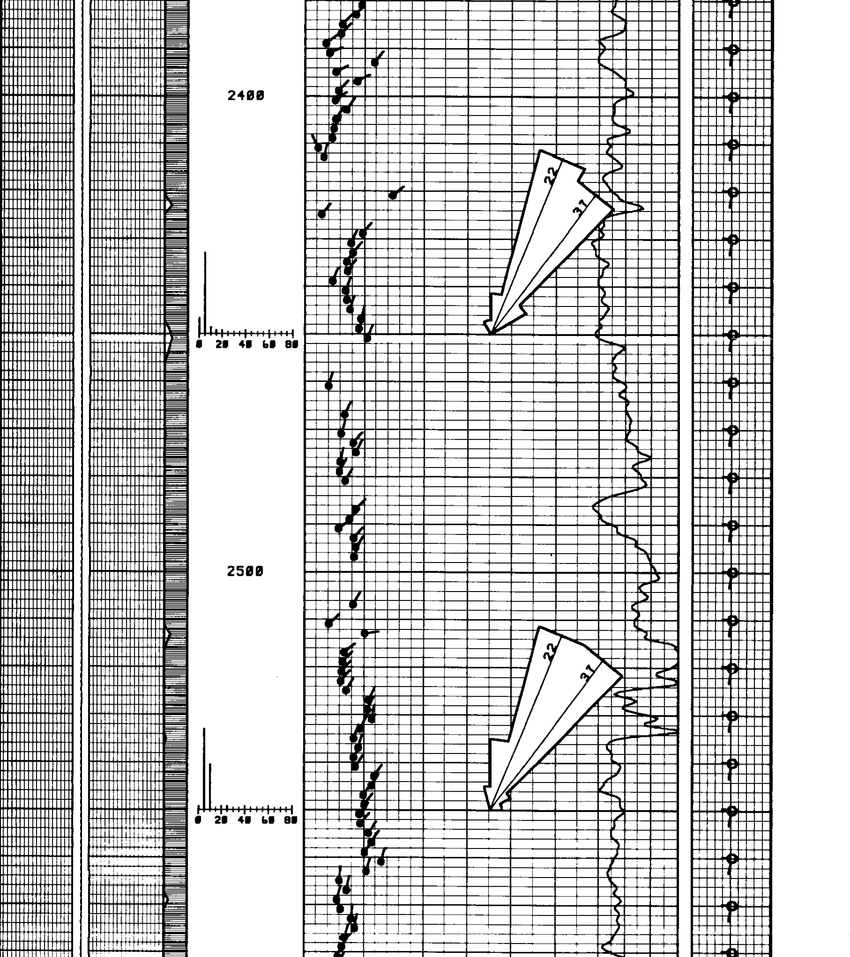


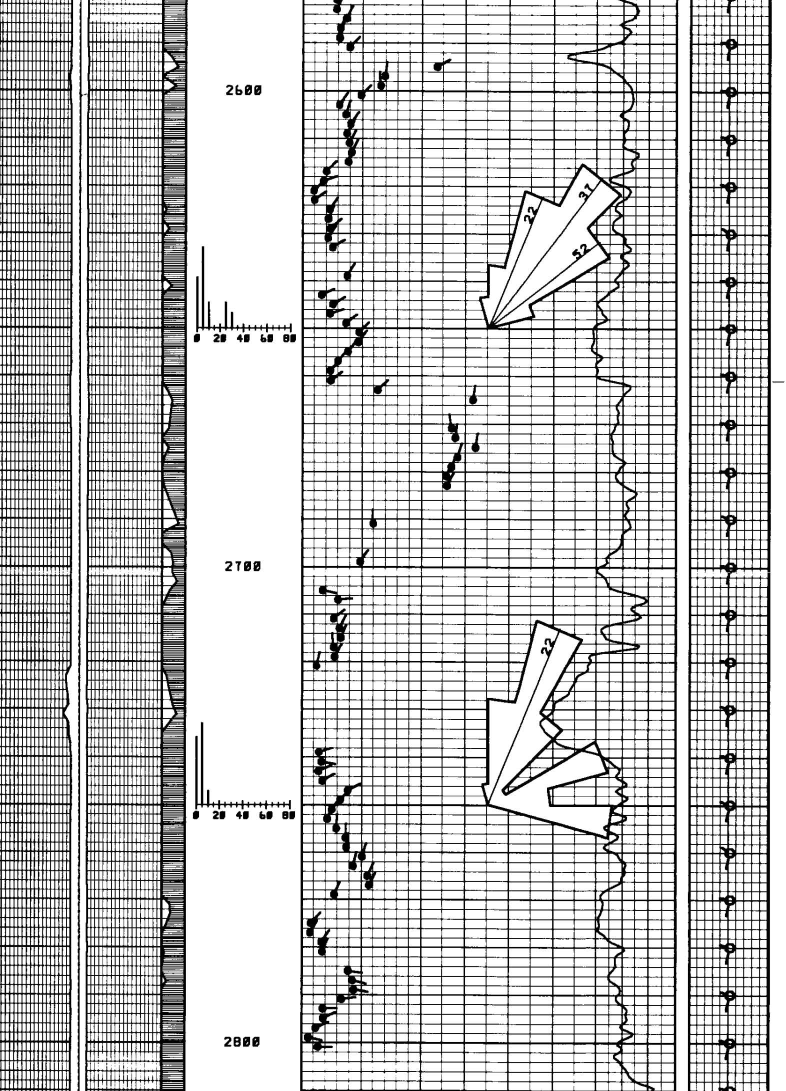


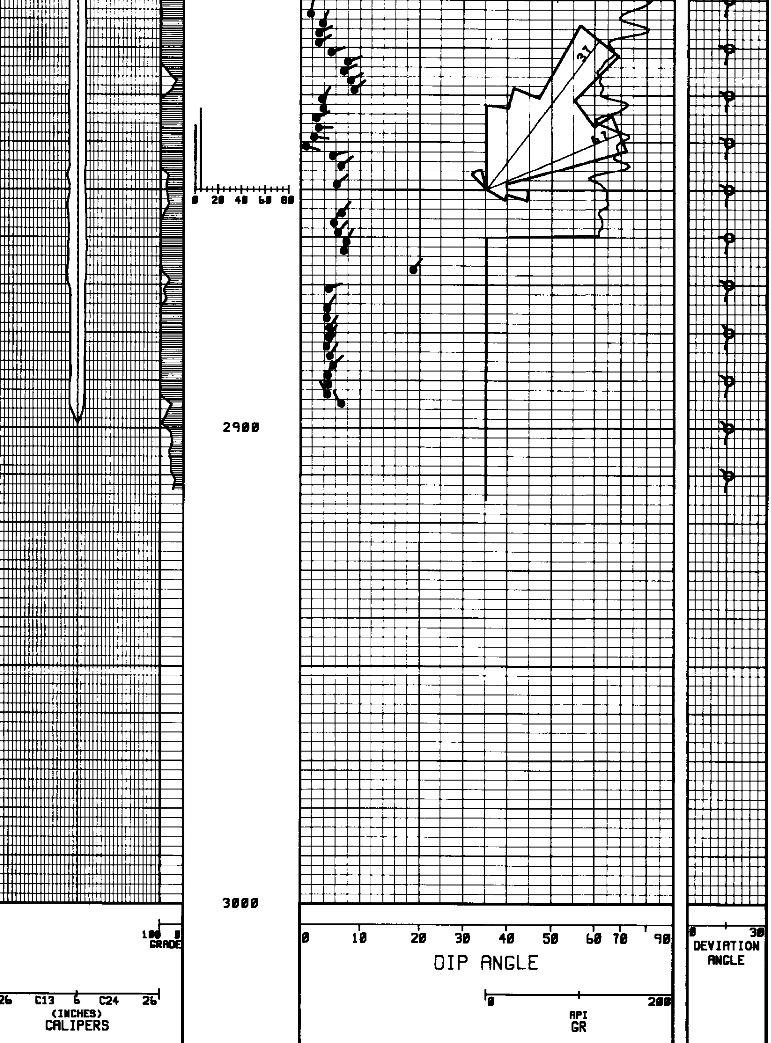












26 C13 6 C24 26
(INCHES)
BIT SIZE

DEVIATION AZIMUTH
PAD 1 AZIMUTH

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