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5"=100'

DIP LOG CALCULATIONS

COMPANY OREGON NATURAL GAS DEVELOPMENT CORP.
WELL CROWN ZELLERBACH NO. 1
FIELD TILLAMOOK AREA
COUNTY TILL. STATE ORE.

COMPANY OREGON NATURAL GAS DEVELOPMENT CORP.
WELL CROWN ZELLERBACH NO. 1
FIELD TILLAMOOK AREA
COUNTY TILLAMOOK STATE OREGON
Location 1714' SOUTH & 2059' EAST OF THE NORTHWEST CORNER OF:
Other Services: IEL C/AVL SWC
Sec. 13 Twp. 2S Rge. 10W
Permanent Datum G.L. Elev. 199.7
Log Measured From K.B. OR 10.8 Ft. Above Perm. Datum
Drilling Measured From K.B.
Elev.: K.B. 210.5
D.F.
G.L. 199.7

Date	1-6-80			
Run No.	ONE			
Depth - Driller	6158			
Depth - Welex	6145			
Btm. Log Inter.	6143			
Top Log Inter.	666			
Casing - Driller	8 5/8 @ 667	@	@	@
Casing - Welex	666			
Bit Size	7 7/8			
Type Fluid in Hole	LIGNO-SULF			
Dens. | Visc.	79 | 51	|	|	|
pH | Fluid Loss	10.5 | 3.8 ml	| ml	| ml	| ml
Source of Sample	CIRCULATED			
R_m @ Meas. Temp.	2.88 @ 38 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	2.57 @ 38 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	3.06 @ 38 °F	@ °F	@ °F	@ °F
Source R_{mf} R_{mc}	MEASURED	|	|	|
R_m @ BHT	0.76 @ 143 °F	@ °F	@ °F	@ °F
Time Since Circ.	3 1/2 HOURS			
Max. Rec. Temp.	143 °F @ BHT	°F @	°F @	°F @
Equip. | Location	9430 | WDLND	|	|	|
Recorded By	DOVE			
Witnessed By	BRUER, CLARE			

Fold Here

Service Ticket No. 048984 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	0.76 @ 143 °F	@ °F
R_{mf} @ BHT	0.68 @ 143 °F	@ °F
R_{mc} @ BHT	0.81 @ 143 °F	@ °F

Run No.	1	2	3	4
Tool Type	DIP			
Tool Number	12892			
Pad Type	FORXO			
Correlated By				
Computed By				

Remarks: MAND. 15632
TRAN. 12892

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

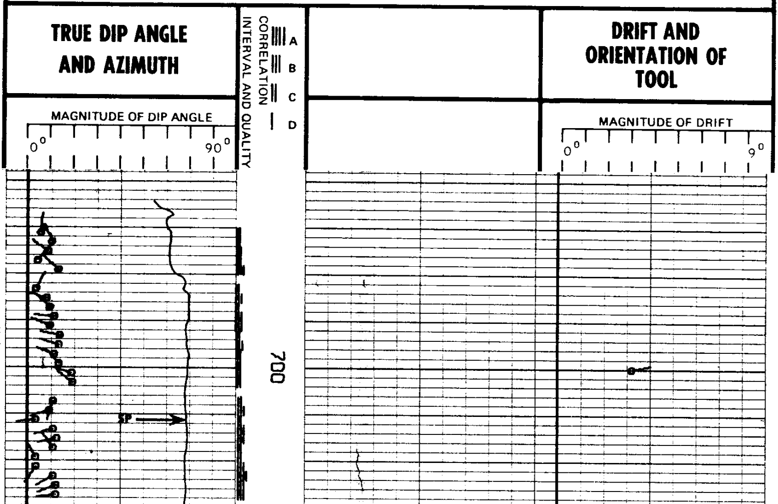
TABLE OF CONSTANTS FOR DETERMINING VERTICAL DIFFERENCE AT VARIOUS DIP ANGLES

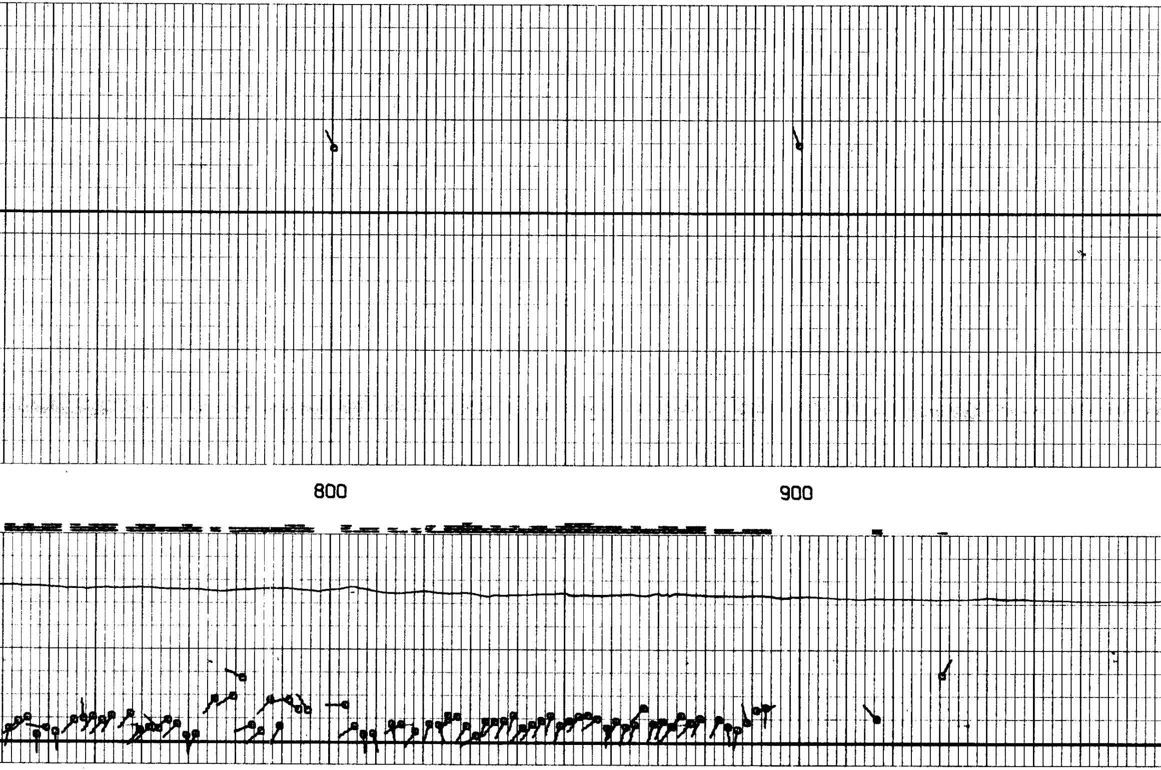
DIP ANGLES Degrees	CONSTANT	DIP ANGLES Degrees	CONSTANT	DIP ANGLES Degrees	CONSTANT	DIP ANGLES Degrees	CONSTANT
1	.0175	11	194	21	.384	35	.700
2	.035	12	.213	22	.404	40	.839
3	.052	13	.231	23	.425	45	1.000
4	.070	14	.249	24	.445	50	1.192
5	.088	15	.268	25	.466	55	1.428
6	.105	16	.287	26	.487	60	1.732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

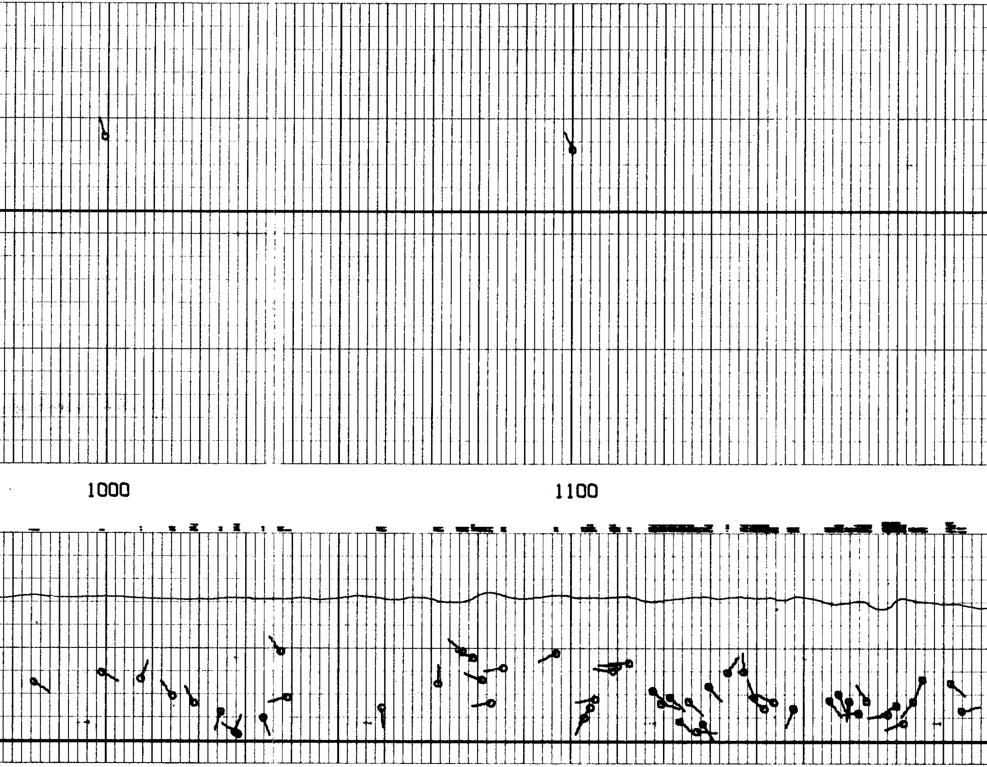
Vertical difference in feet is obtained by multiplying the constant for any given dip angle by the horizontal distance in feet.

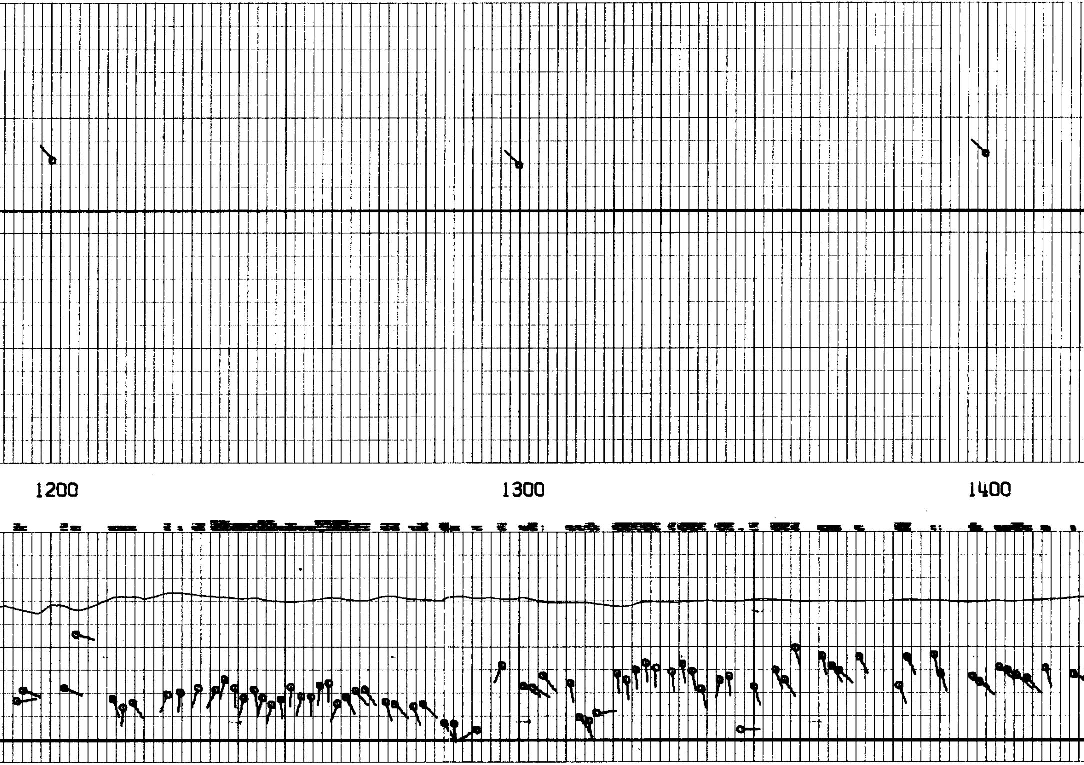
Example: Dip angle 10°, Horizontal distance 440 ft.
Vertical difference = .176 x 440 = 77.44

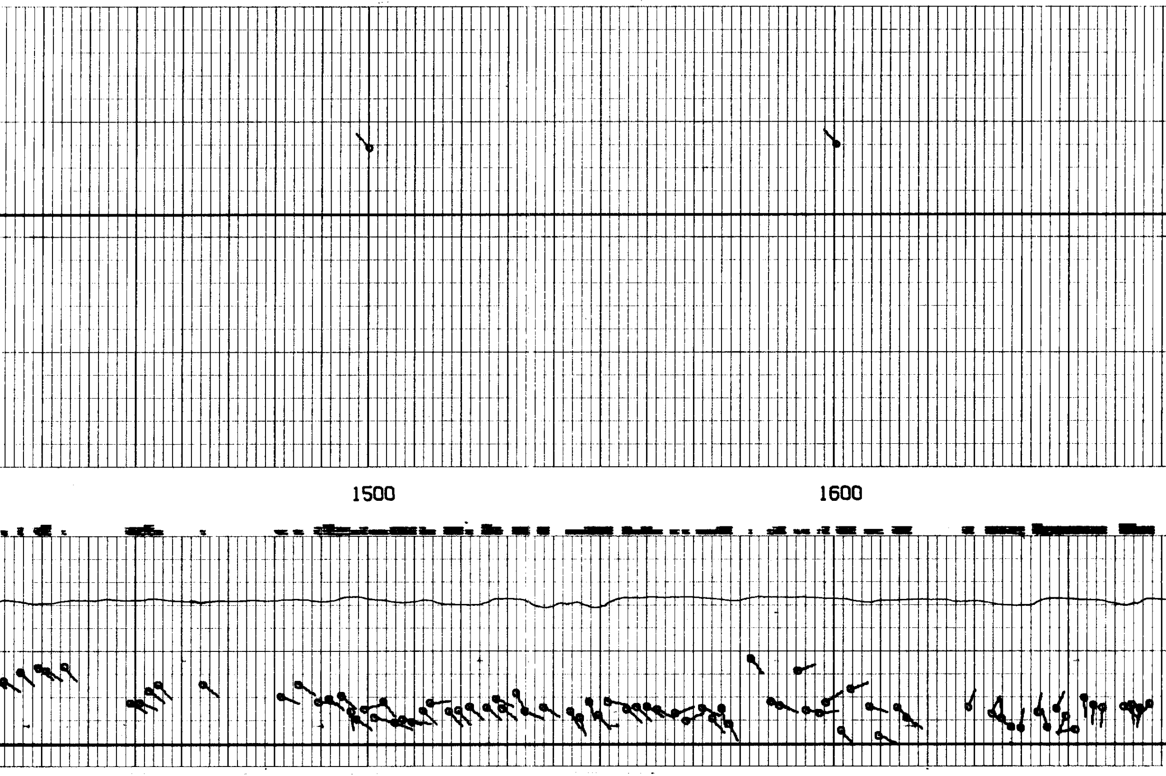
GRAPHIC PRESENTATION

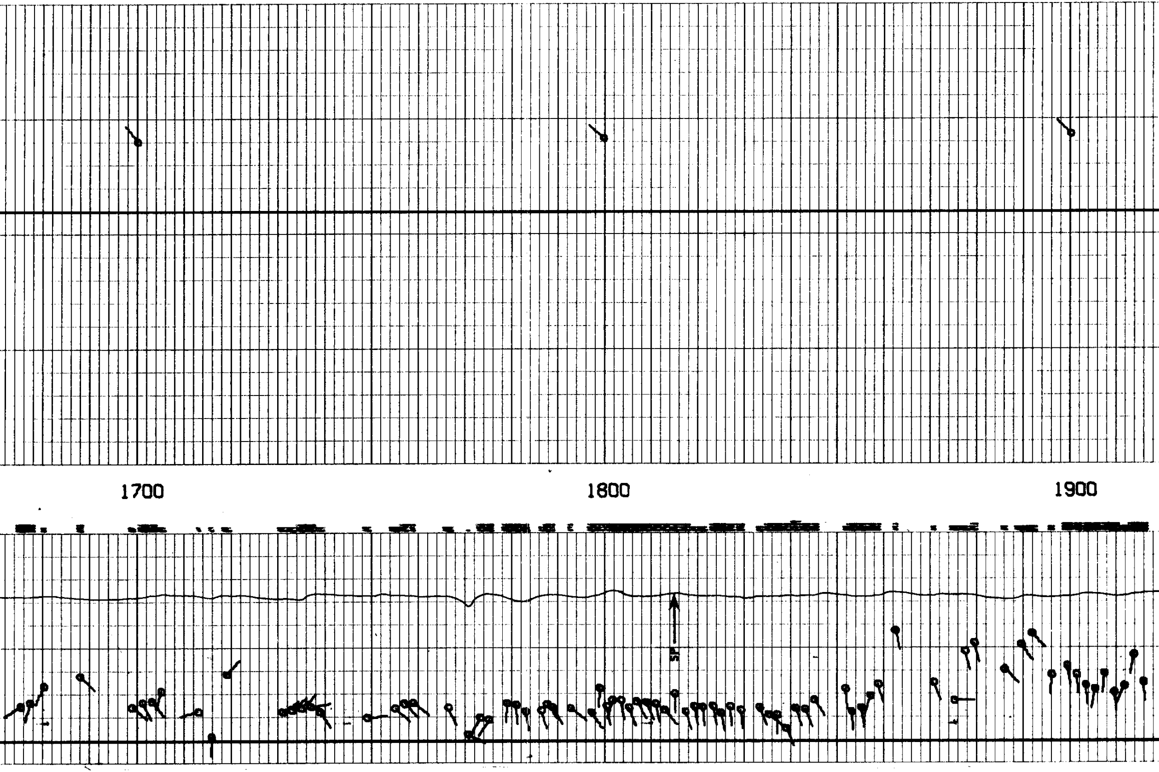


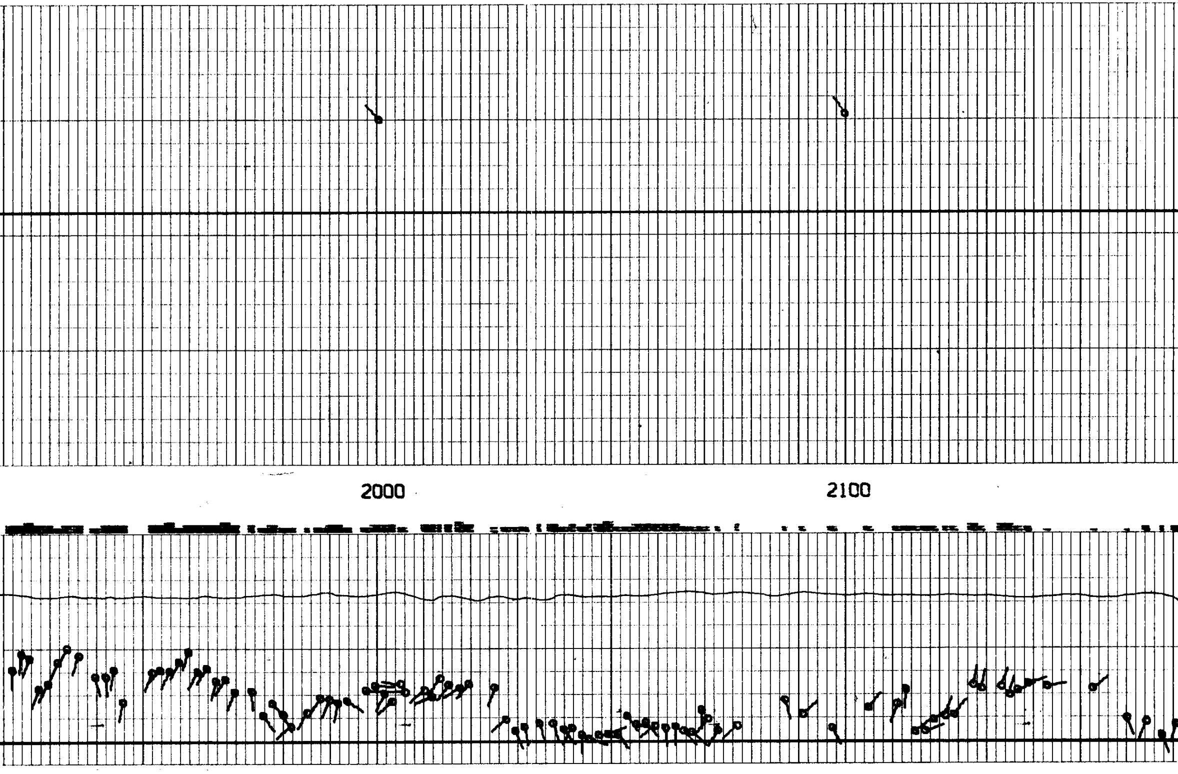


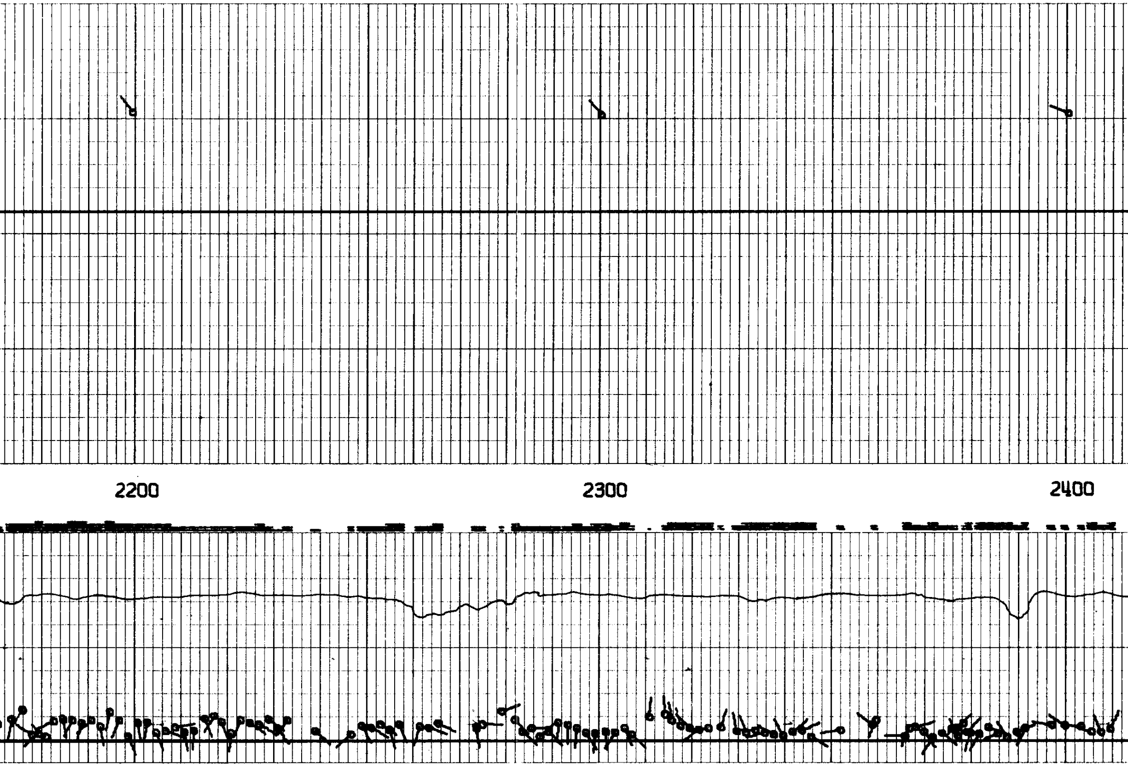


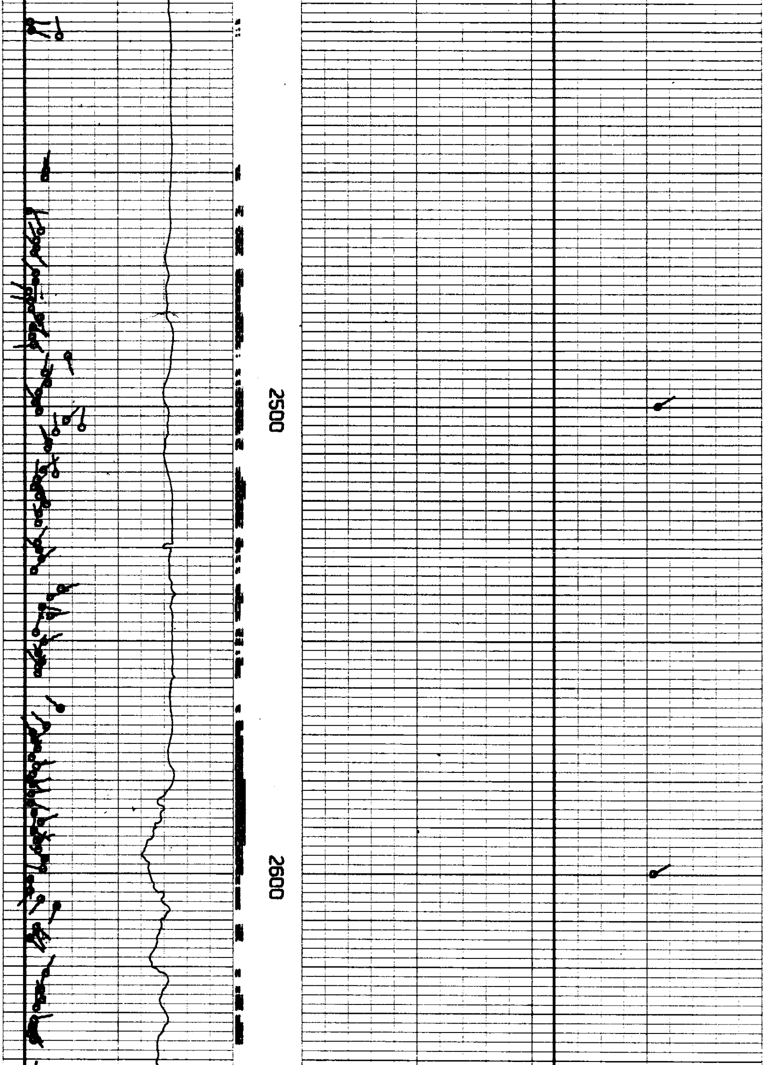


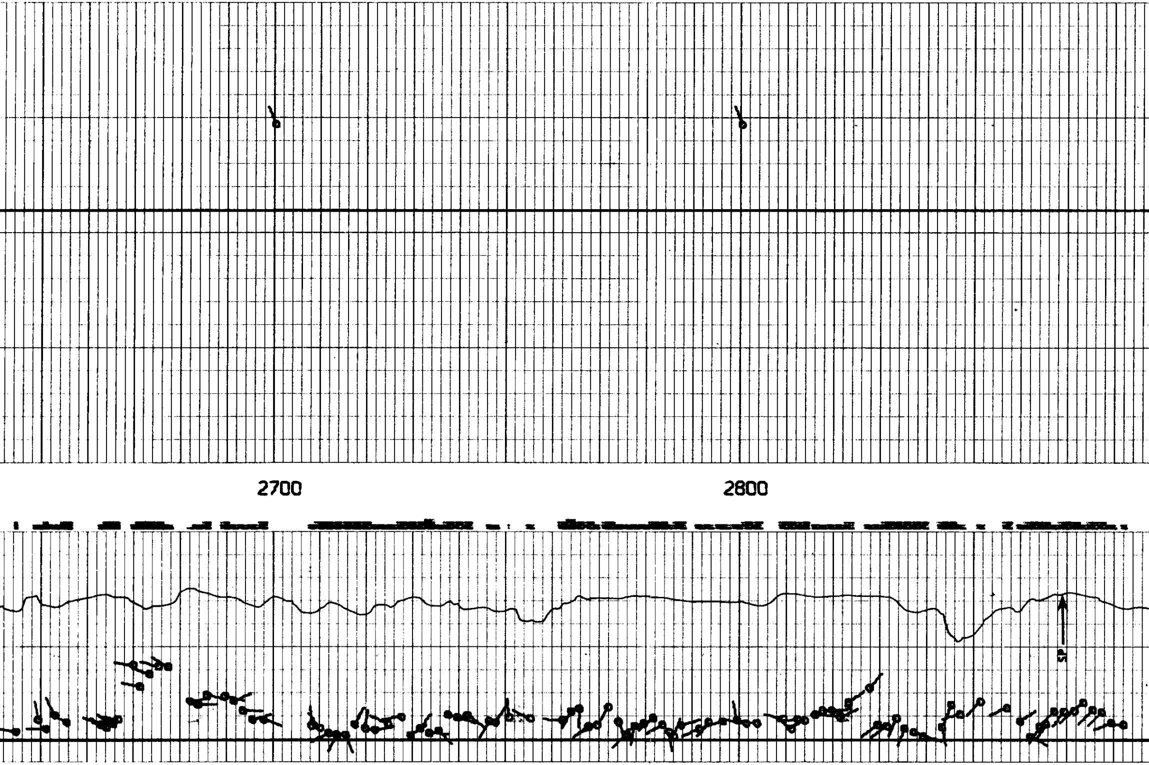


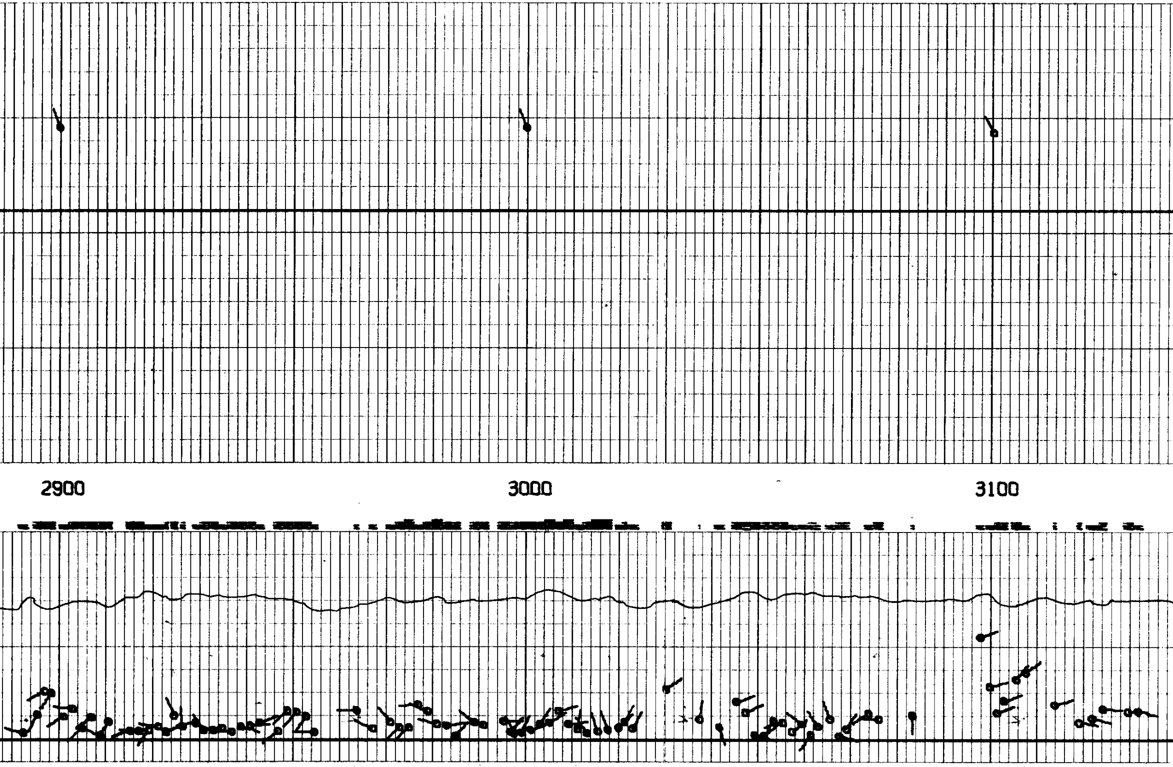


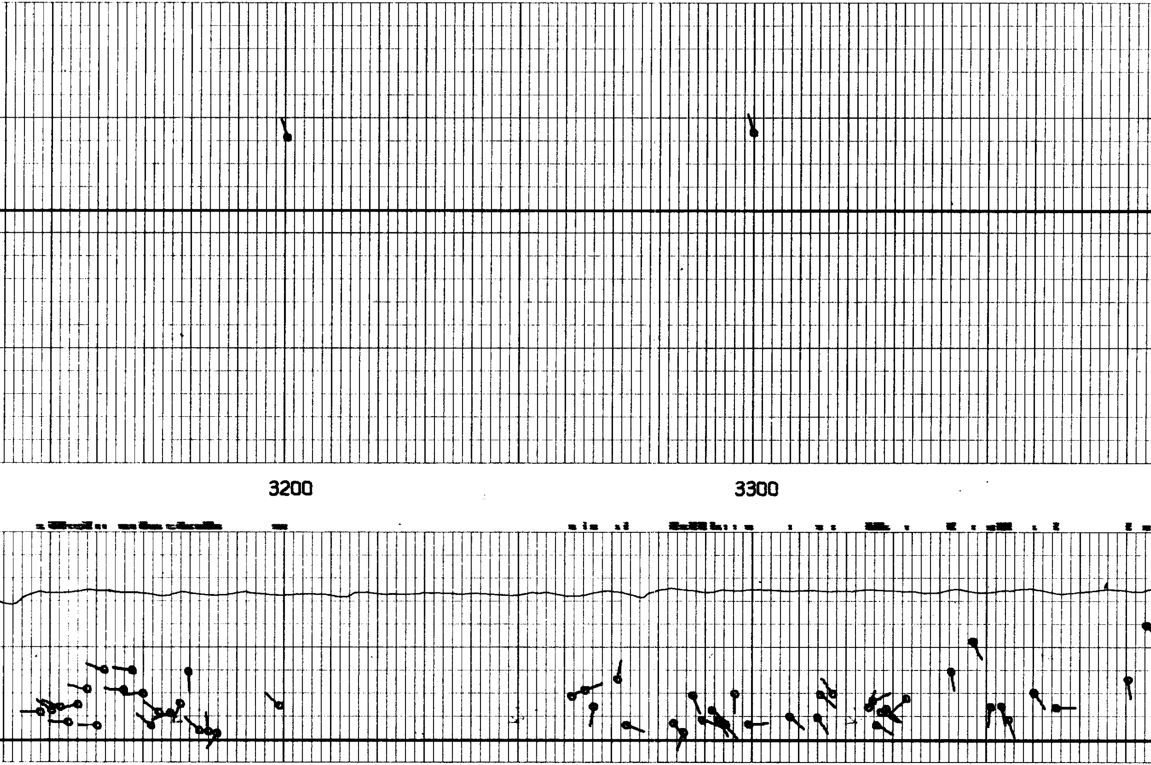


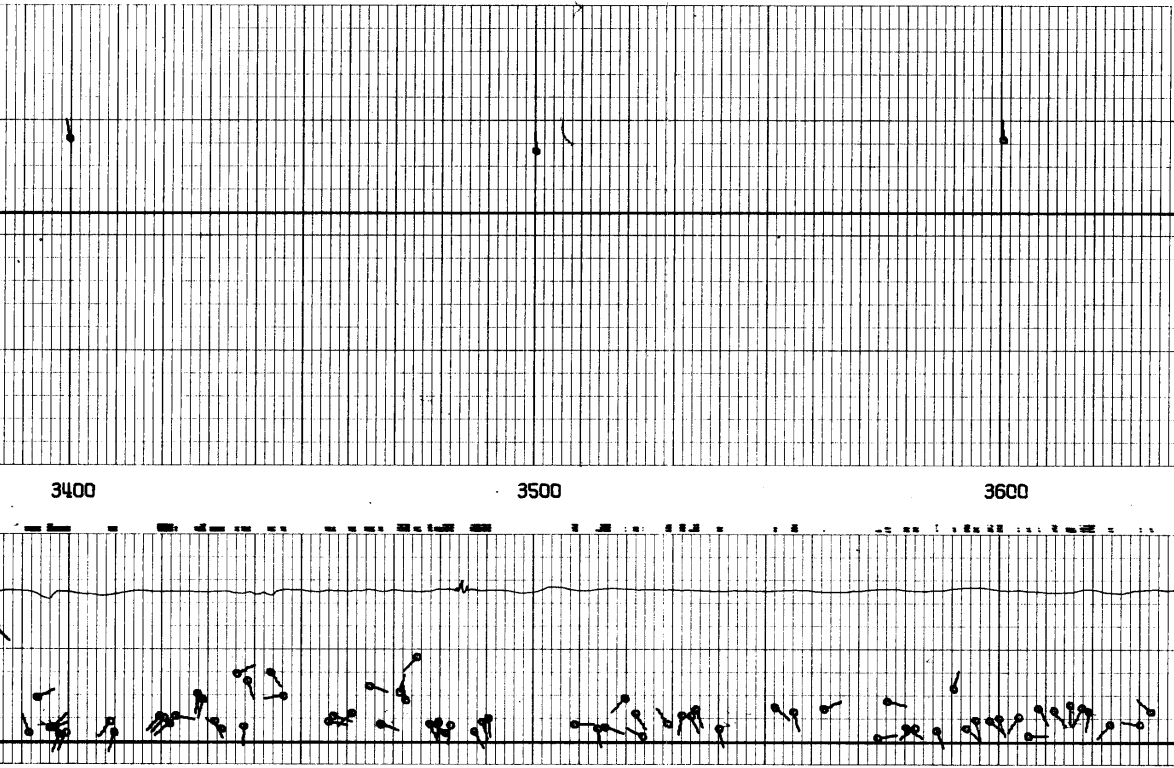


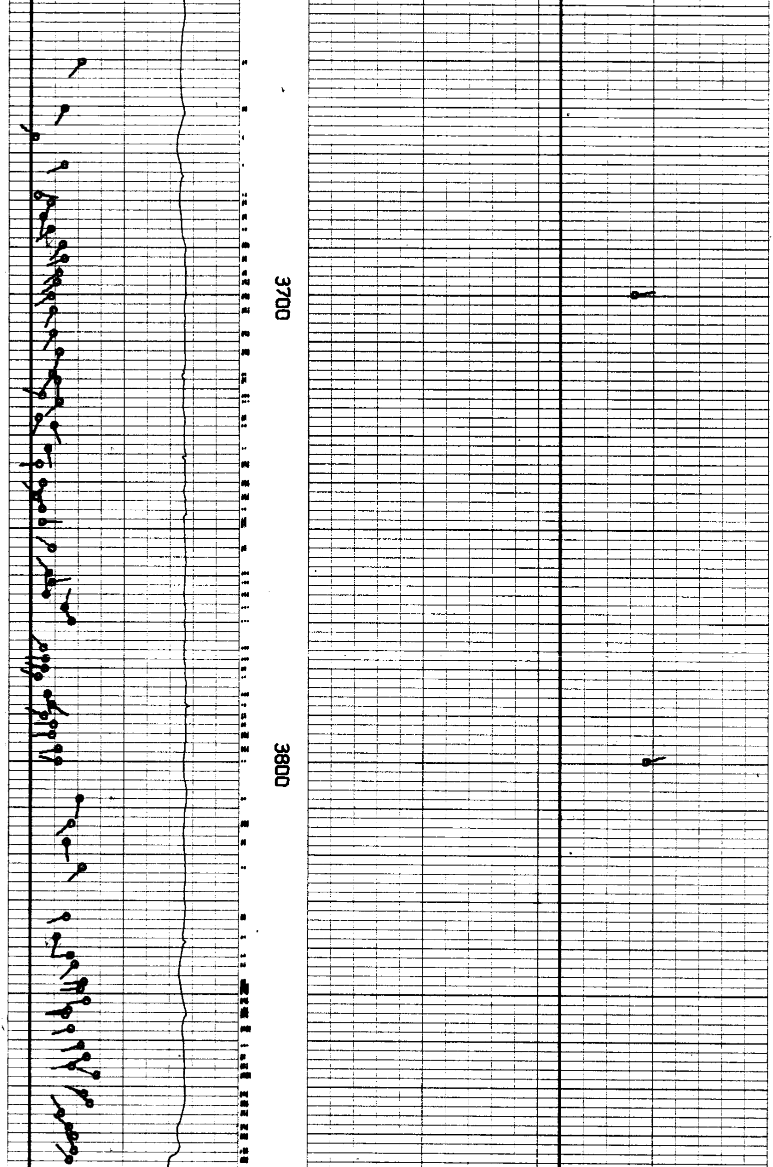


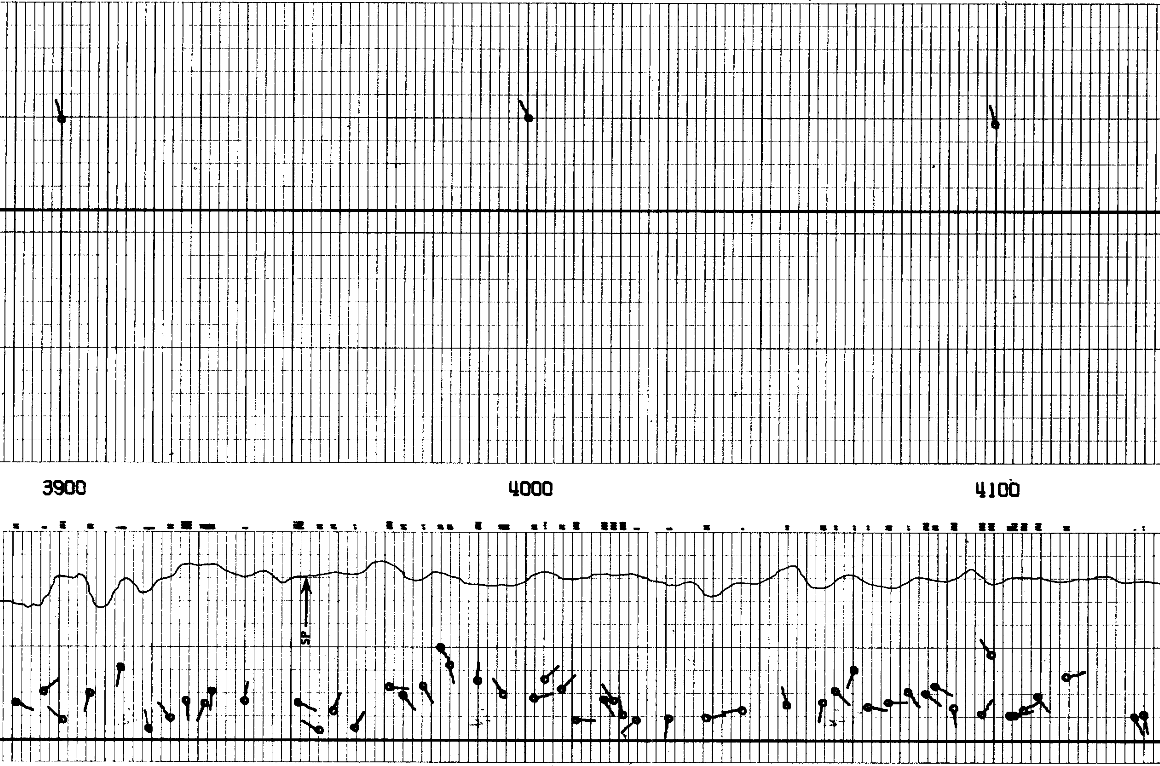


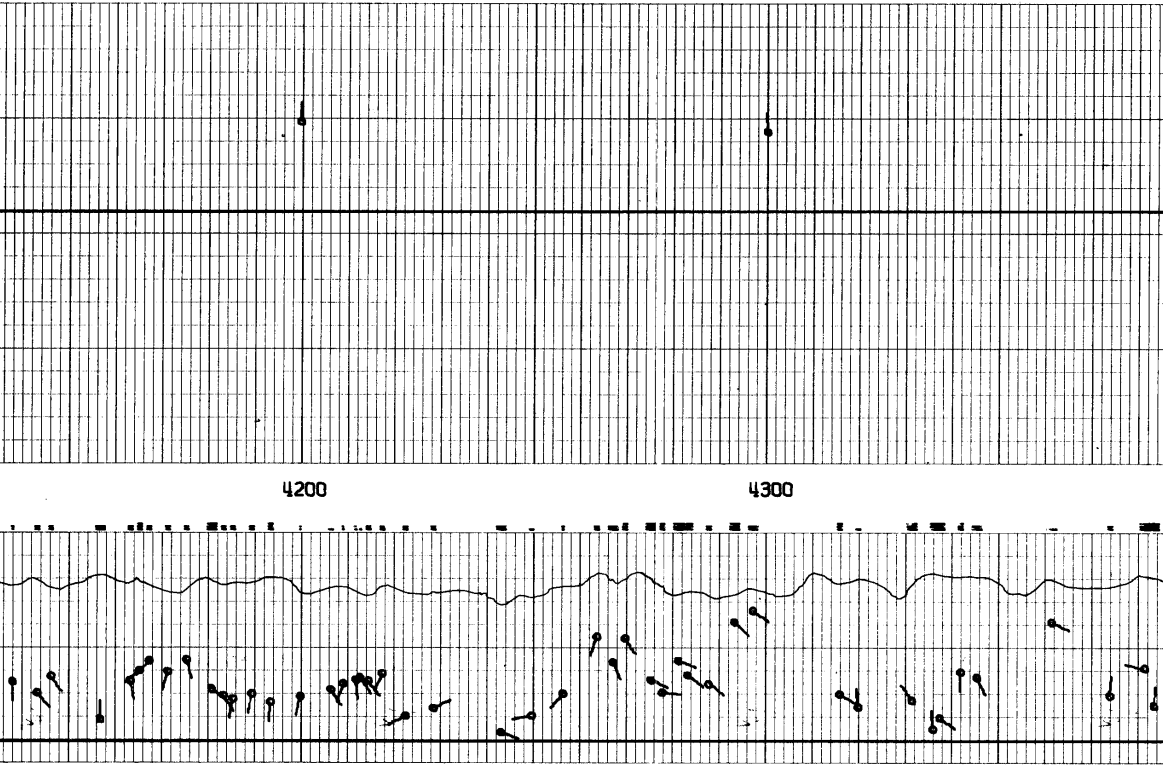


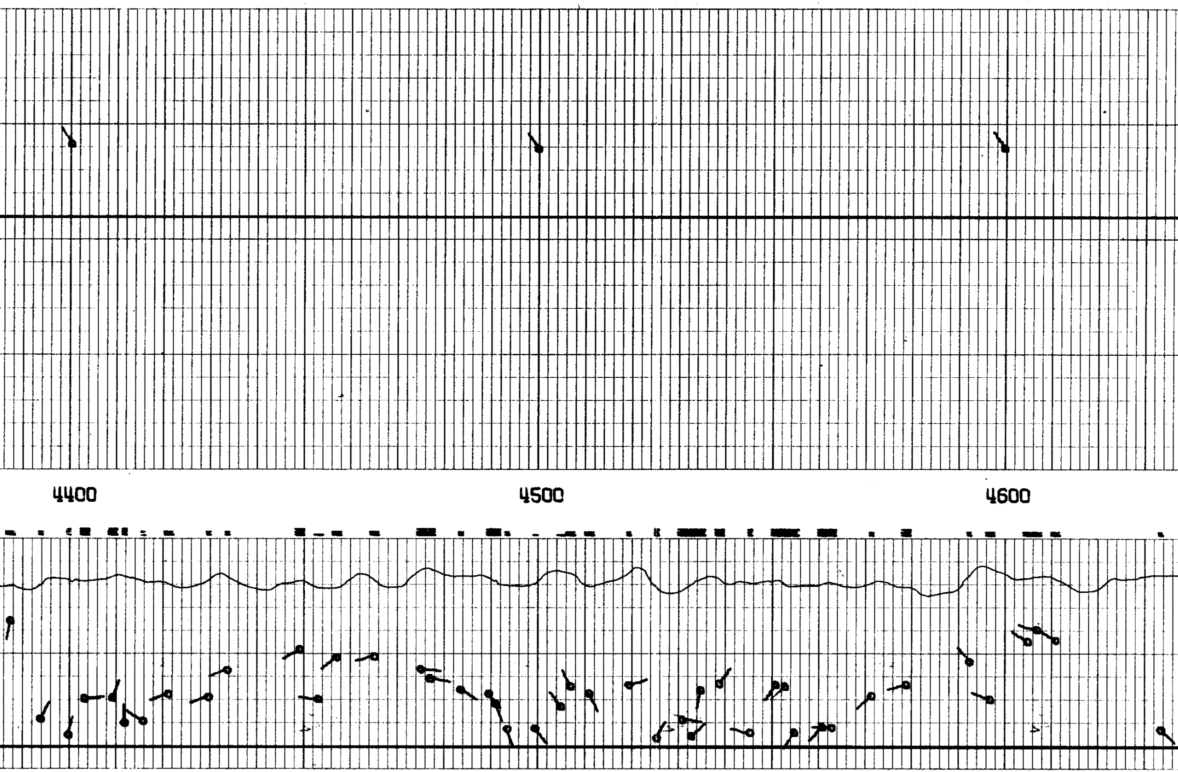


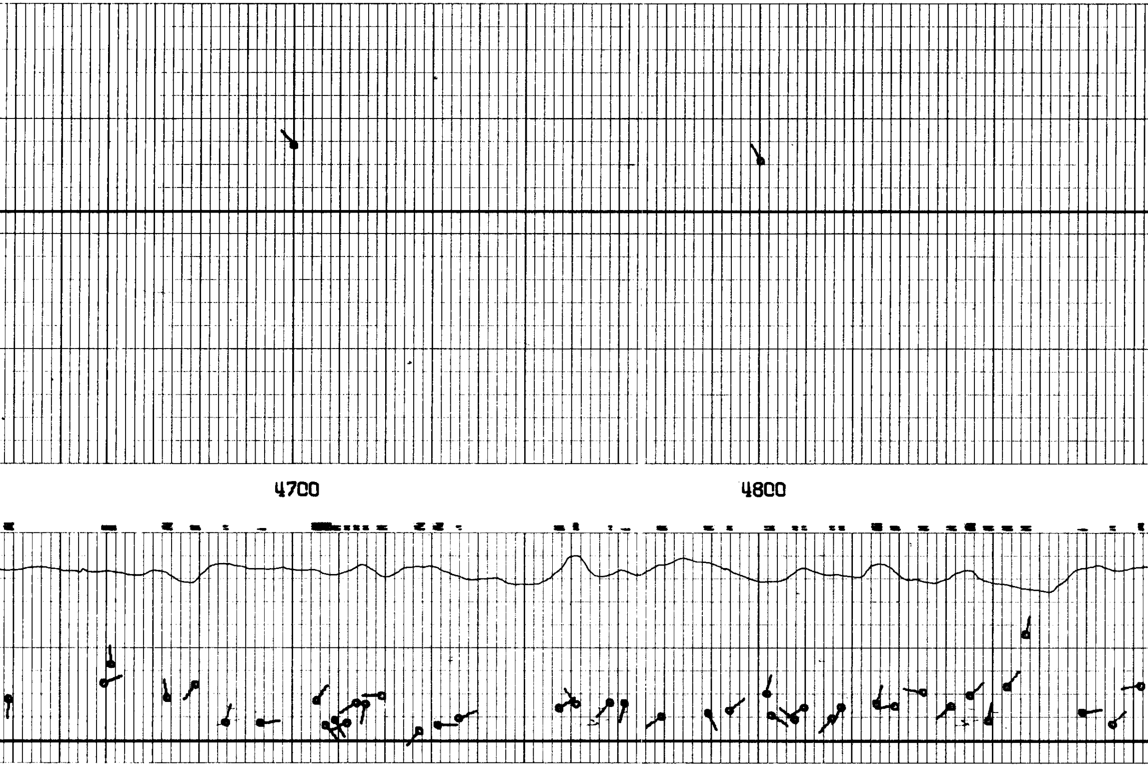


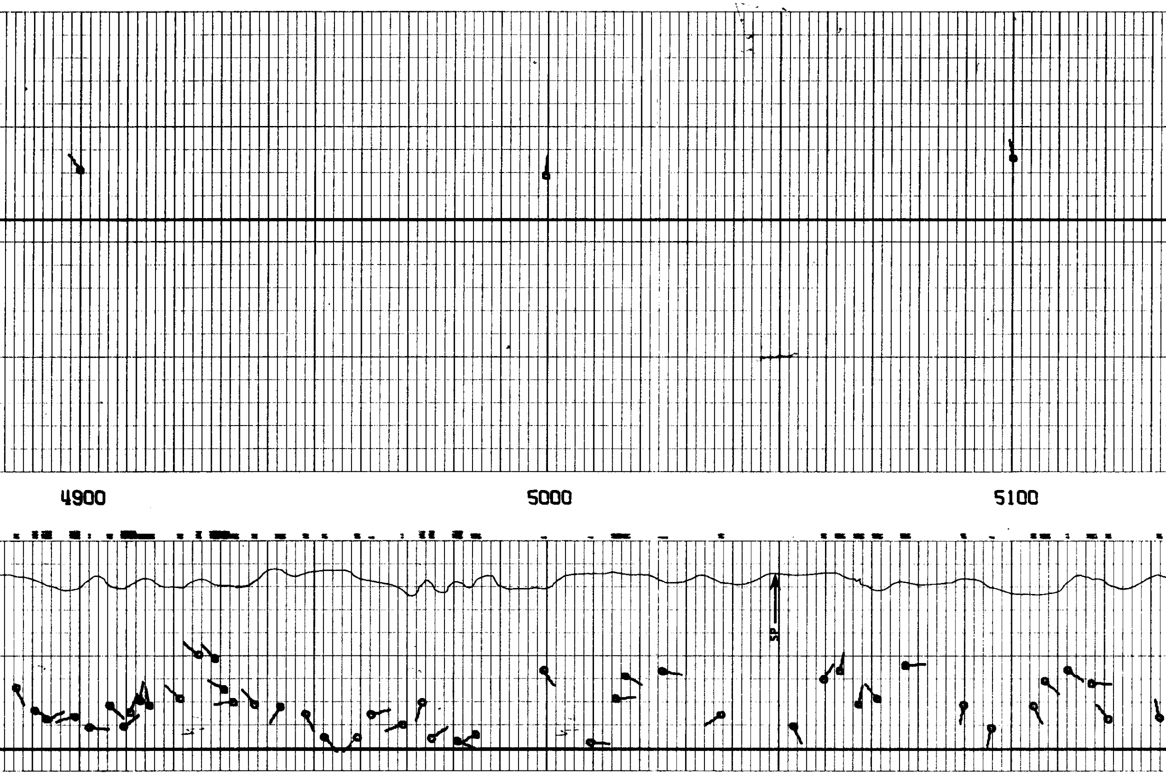


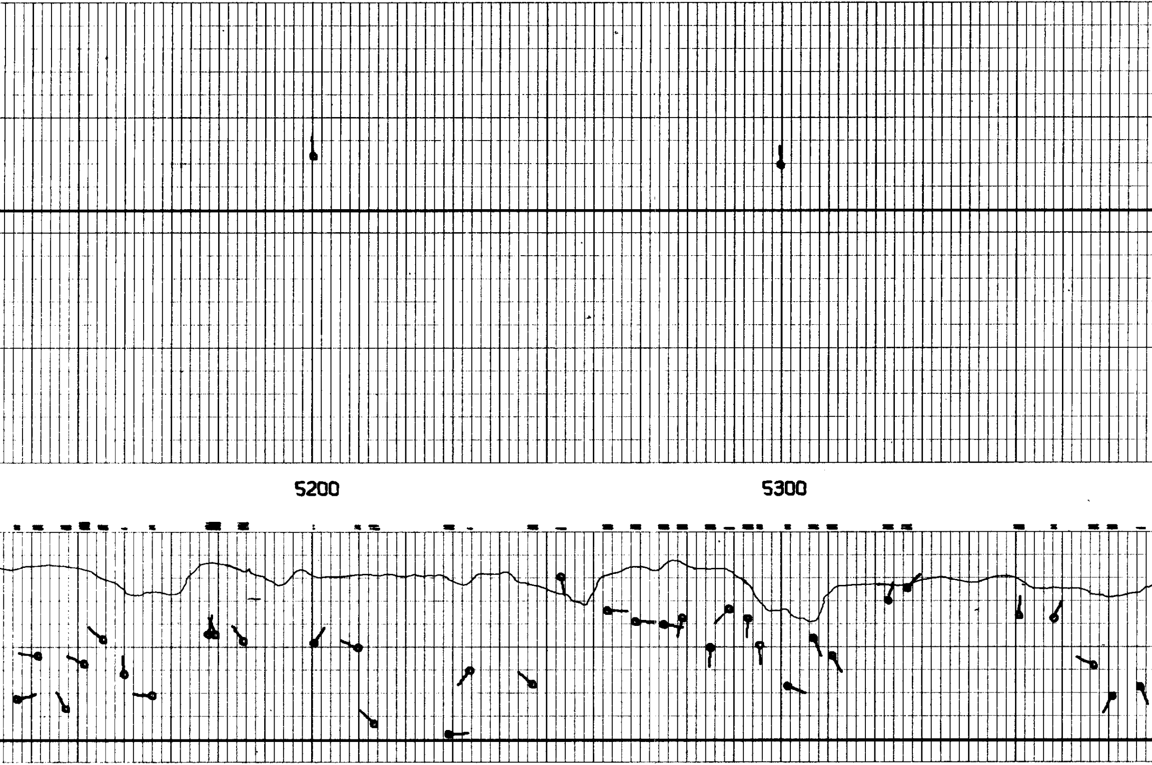


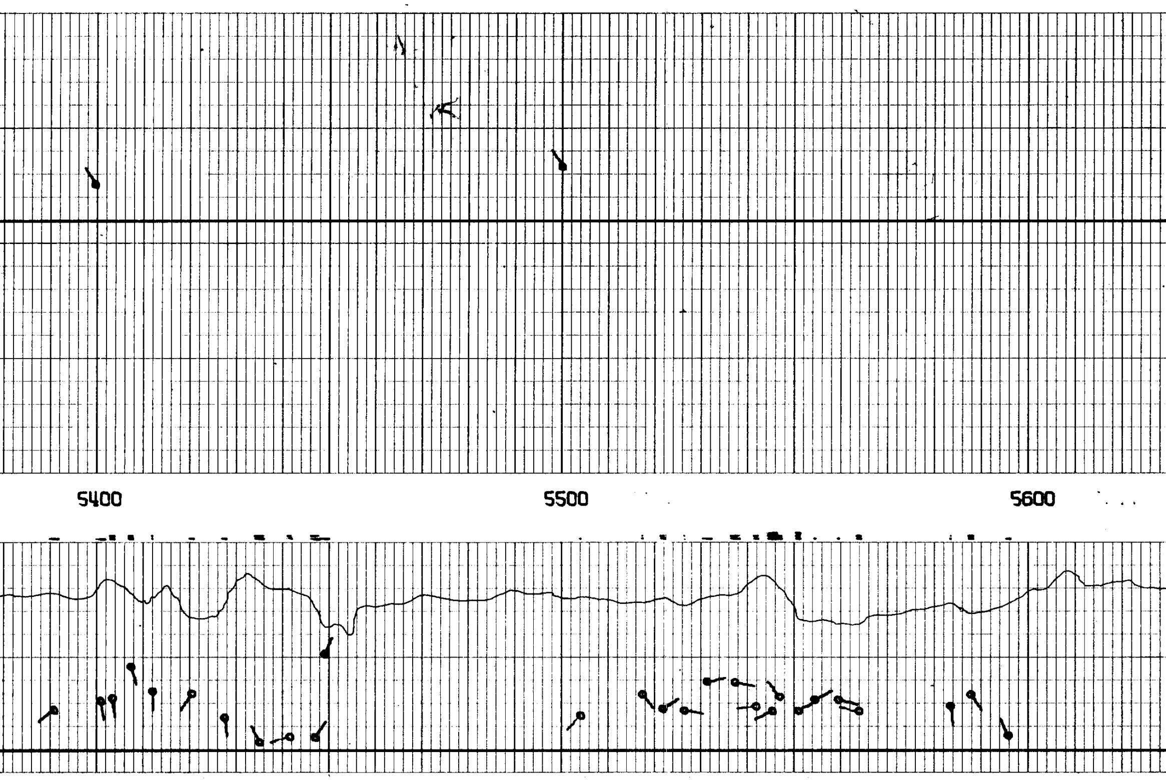


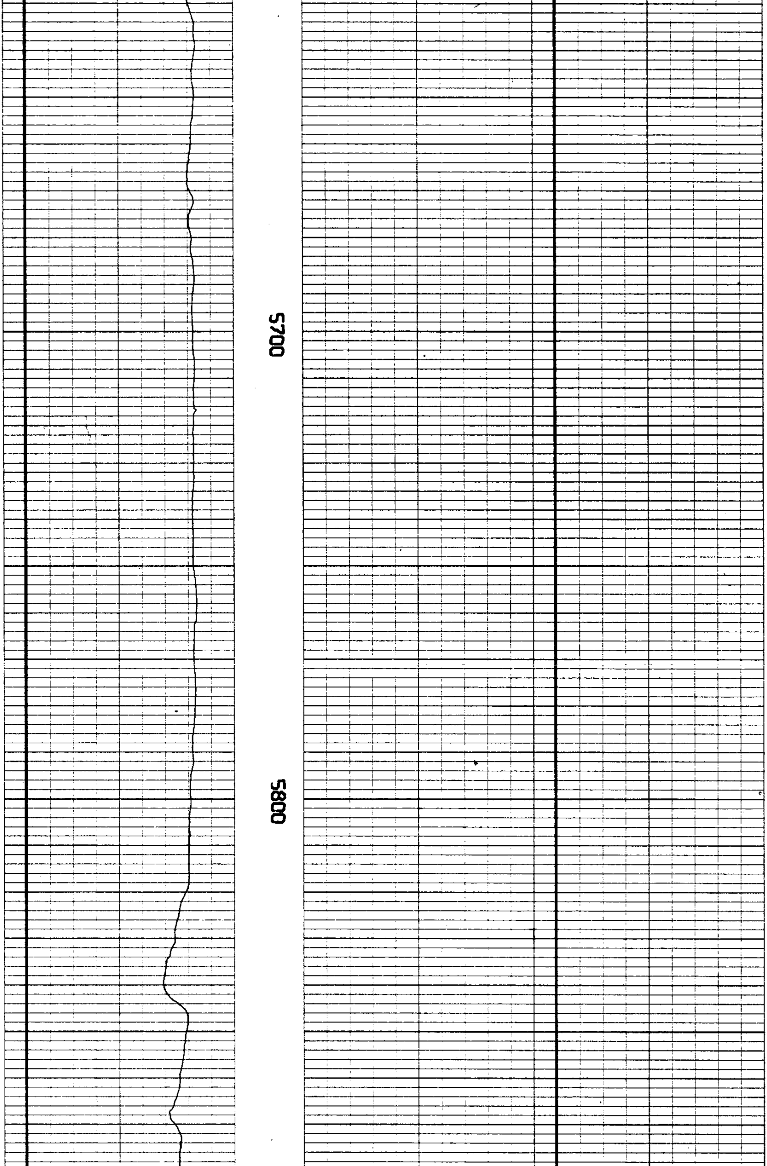


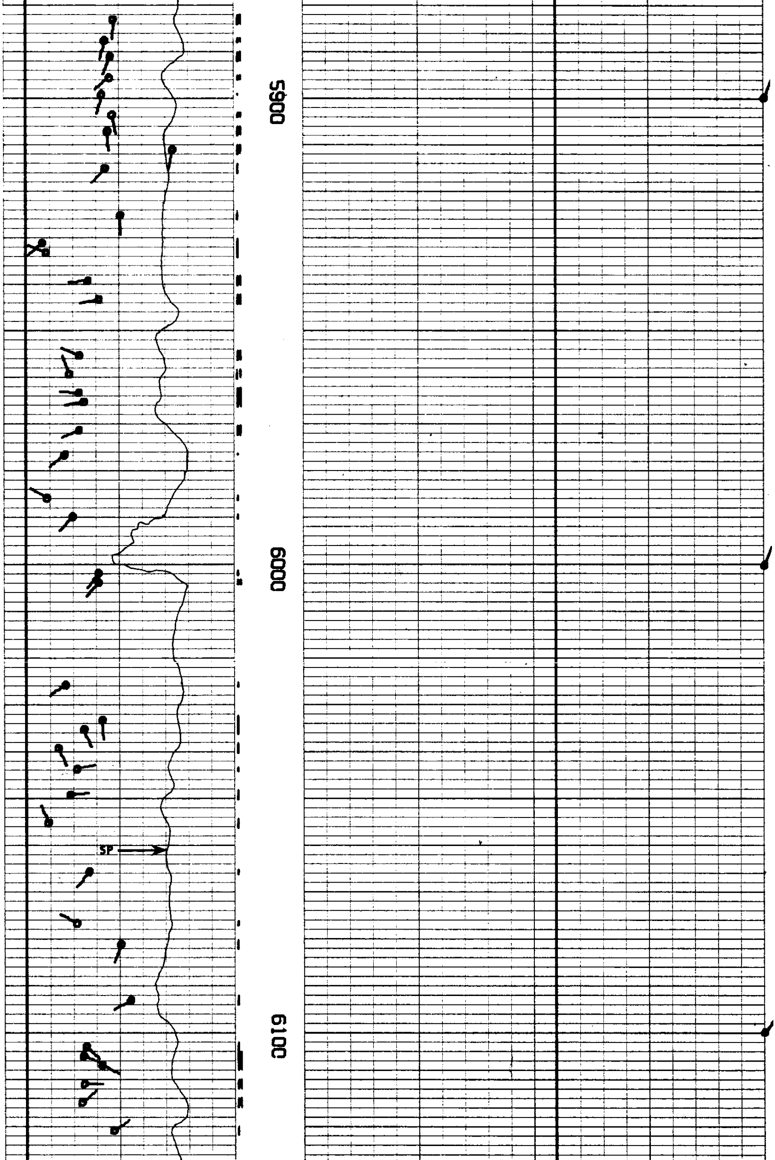


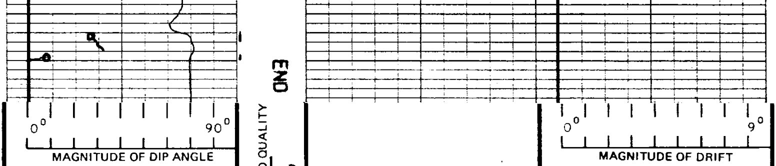












TRUE DIP ANGLE AND AZIMUTH

CORRELATION INTERVAL AND QUALITY
I D
II C
III B
IIII A

DRIFT AND ORIENTATION OF TOOL

OREGON NATURAL GAS DEVELOPMENT CORPORATION
CROWN ZELLERBACH NO. 1
TILLAMOOK AREA
TILLAMOOK COUNTY, OREGON

T.D. LOGGED	6143
T.D. DRILLER	6158
T.D. WELEX	6145

ELEV: KB 210.5 GL 199.7