Welex

5"=100'

DIP LOG CALCULATIONS

COMPANY AMERICAN QUASAR PETROLEUM CO.
WELL HICKEY NO. 9-12
FIELD LEBANON
COUNTY LINN STATE ORE.

COMPANY AMERICAN QUASAR PETROLEUM COMPANY

WELL HICKEY NO. 9-12

FIELD LEBANON (API NO. 36 043 00013)

COUNTY LINN **STATE** OREGON

Location 1980' SOUTH AND 990' EAST FROM THE NORTHWEST CORNER OF:

Other Services:
DIG
CDL/N
C/AVL

Sec. 9 Twp. 12S Rge. 2W

Permanent Datum G.L. Elev. 329.0
Log Measured From K.B. OR 10.5 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 340.5
D.F.
G.L. 329.0

Date	1-27-81	2-5-81		
Run No.	ONE	TWO		
Depth - Driller	2162	4030		
Depth - Welex	2162	4026		
Btm. Log Inter.	2160	4024		
Top Log Inter.	522	2116		
Casing - Driller	9 5/8@ 521	7 @2116	@	@
Casing - Welex	522	2116		
Bit Size	8 3/4	6 1/4		
Type Fluid in Hole	LIGNOSULF	LIGNOSULF		
Dens. | Visc.	90 | 70	94 | 65	|	|
pH | Fluid Loss	9.5 | 5.8 ml	9.5 | 14.0 ml	| ml	| ml
Source of Sample	CIRCULATED	CIRCULATED		
Rm @ Meas. Temp.	3.46@46 °F	1.90@ 48 °F	@ °F	@ °F
Rmf @ Meas. Temp.	4.58@58 °F	1.05@ 53 °F	@ °F	@ °F
Rmc @ Meas. Temp.	3.22@54 °F	3.00@ 50 °F	@ °F	@ °F
Source Rmf Rmc	MEASURED	MEASURED	|	|
Rm @ BHT	1.44@ 110 °F	0.65@ 140 °F	@ °F	@ °F
Time Since Circ.	N/A	N/A		
Max. Rec. Temp.	110°F @BHT	110°F @ BHT	°F @	°F @
Equip. | Location	8586 | WDLND	2876 | WDLND	|	|
Recorded By	ANDERSON	ANDERSON		
Witnessed By	MANN	MANN		

Fold Here

Service Ticket No. 055110 Remarks: ~~RUN TWO; 055114~~

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	ONE |	TWO |
Rm @ BHT	1.44 @ 110 °F	0.65@140 °F
Rmf @ BHT	2.41 @ 110 °F	0.39@140 °F
Rmc @ BHT	1.68 @ 110 °F	1.07@140 °F

Run No.	1	2	3	4
Tool Type	DIP	DIP		
Tool Number	N/A	N/A		
Pad Type	FORXO	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 22^0 EAST

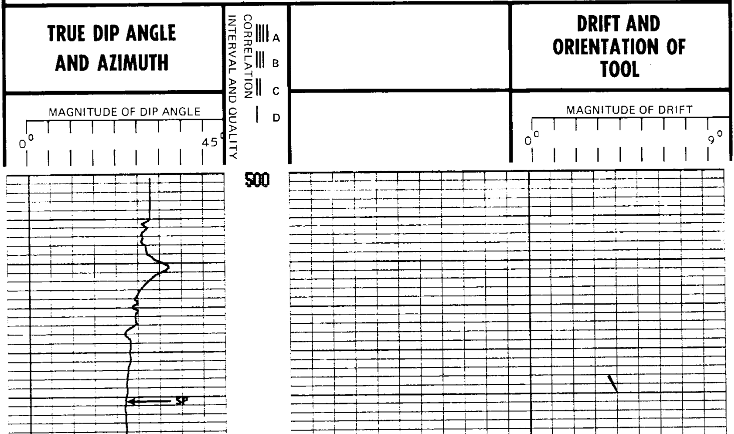
TABLE OF CONSTANTS FOR DETERMINING VERTICAL DIFFERENCE AT VARIOUS DIP ANGLES

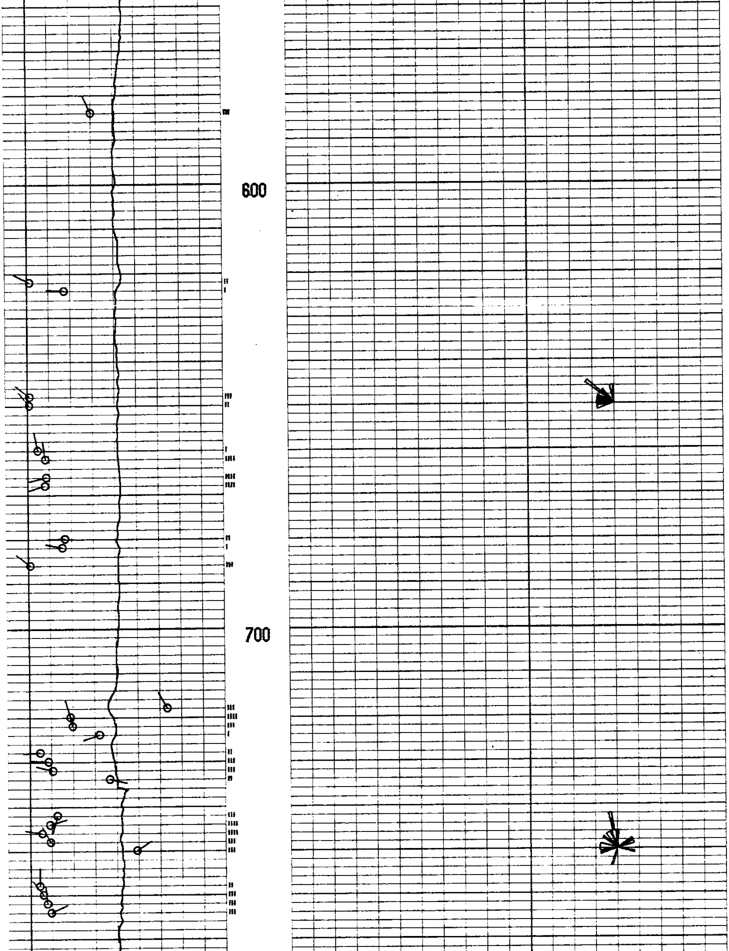
DIP ANGLES Degrees	CONSTANT	DIP ANGLES Degrees	CONSTANT	DIP ANGLES Degrees	CONSTANT	DIP ANGLES Degrees	CONSTANT
1	.0175	11	.194	21	.384	35	.700
2	.035	12	.213	22	.404	40	.839
3	.052	13	.231	23	.425	45	1.000
4	.070	14	.249	24	.445	50	1.192
5	.088	15	.268	25	.466	55	1.428
6	.105	16	.287	26	.487	60	1.732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

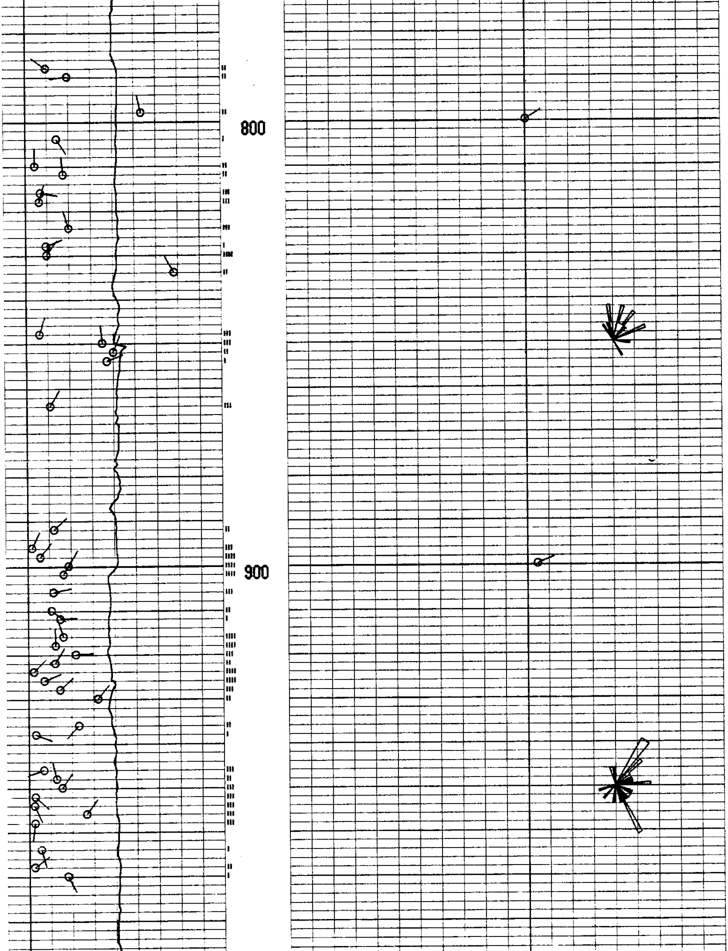
Vertical difference in feet is obtained by multiplying the constant for any given dip angle by the horizontal distance in feet.

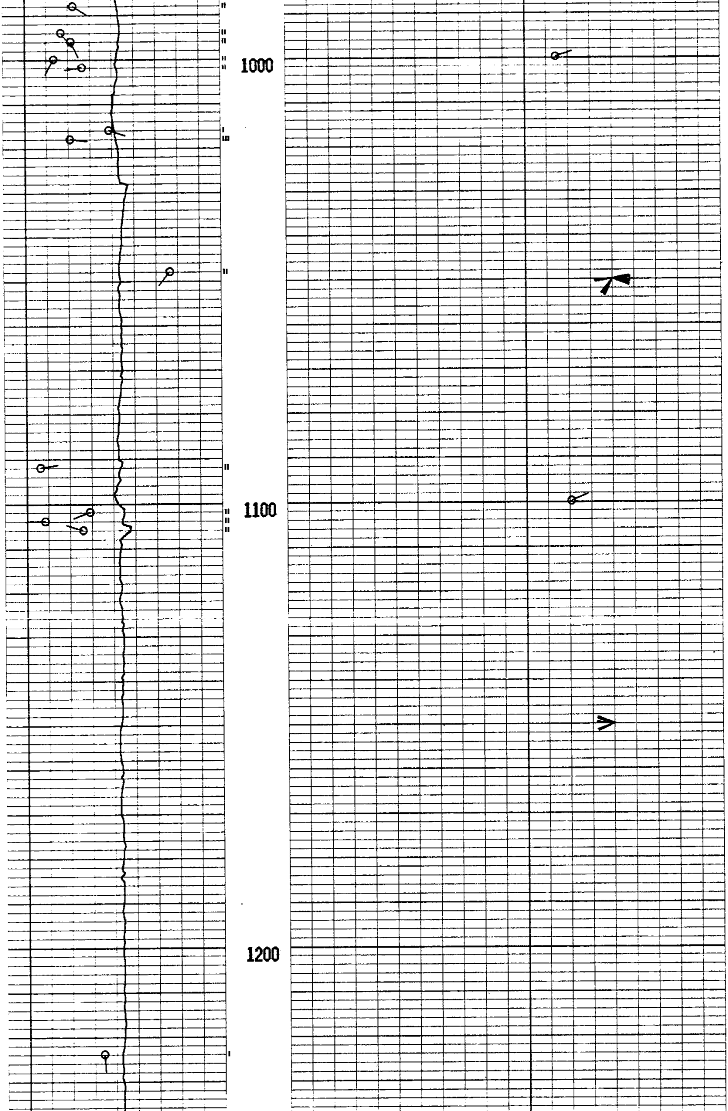
Example: Dip angle 10°, Horizontal distance 440 ft.
Vertical difference = .176 x 440 = 77.44

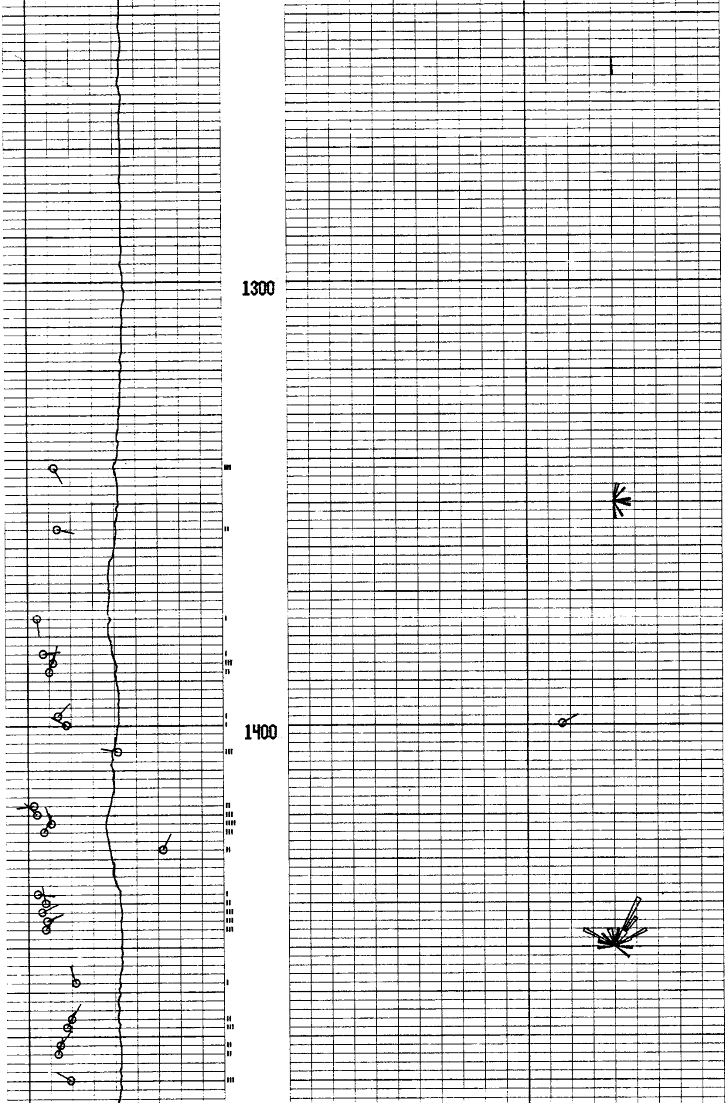
GRAPHIC PRESENTATION

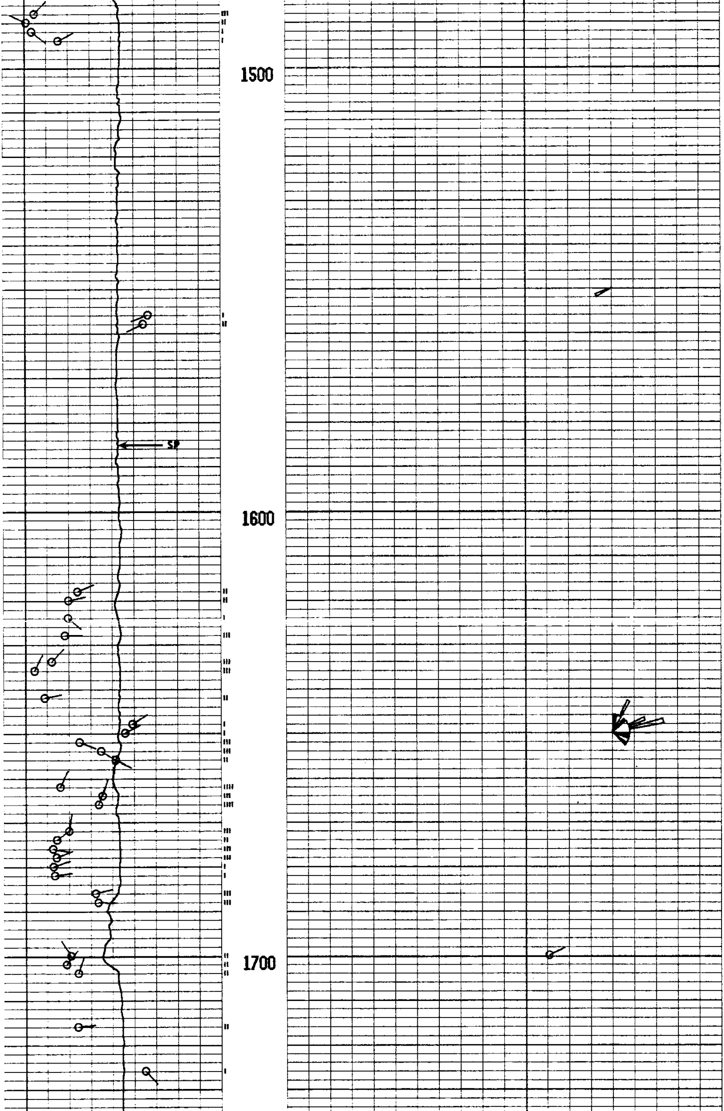


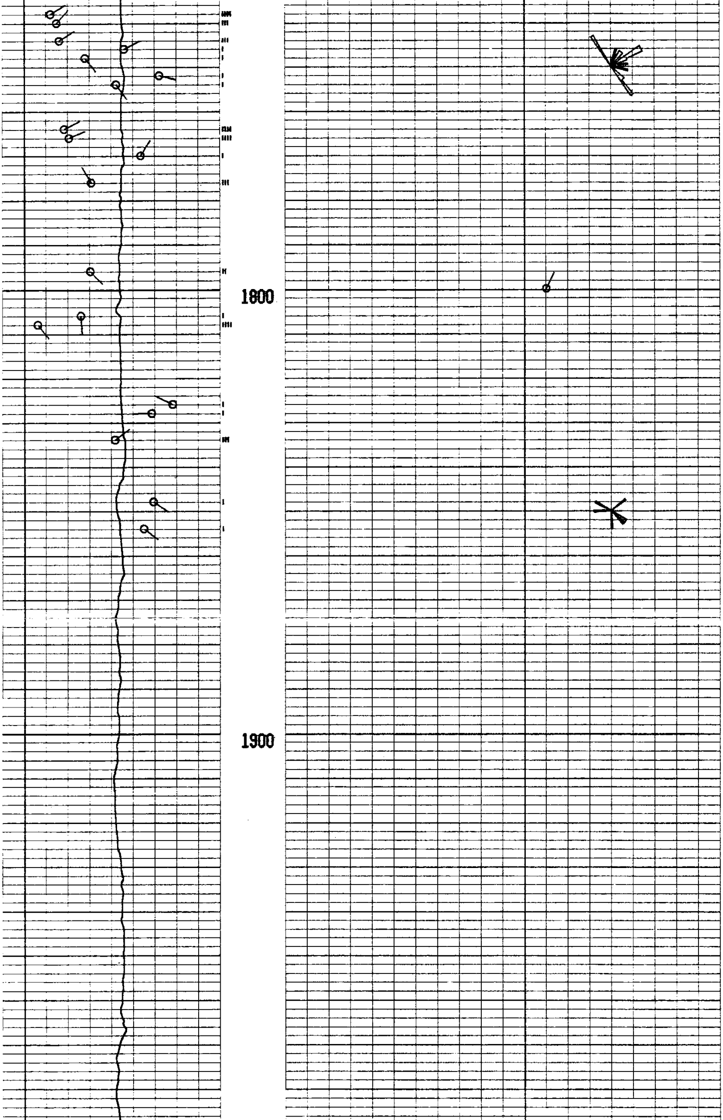


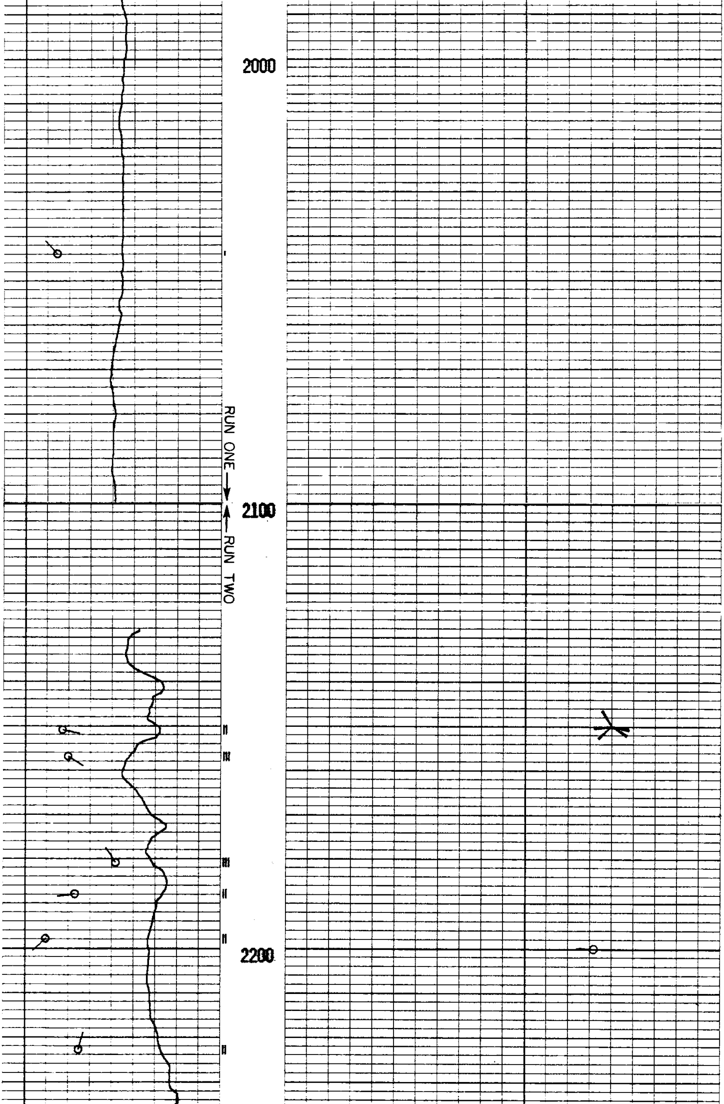


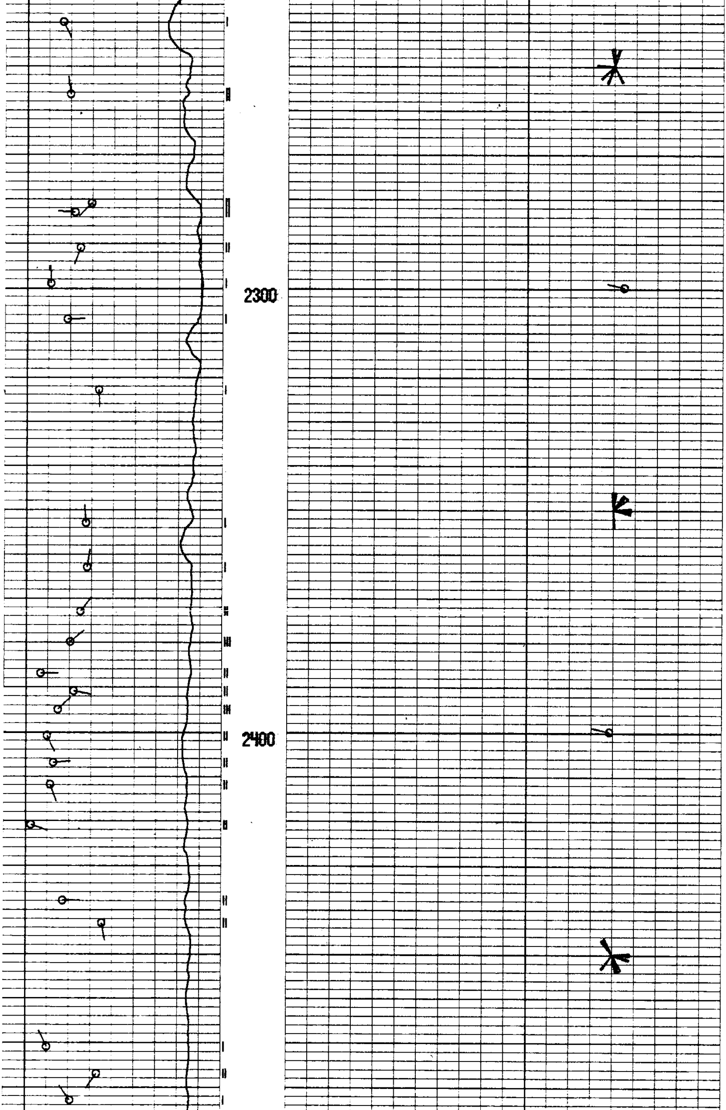


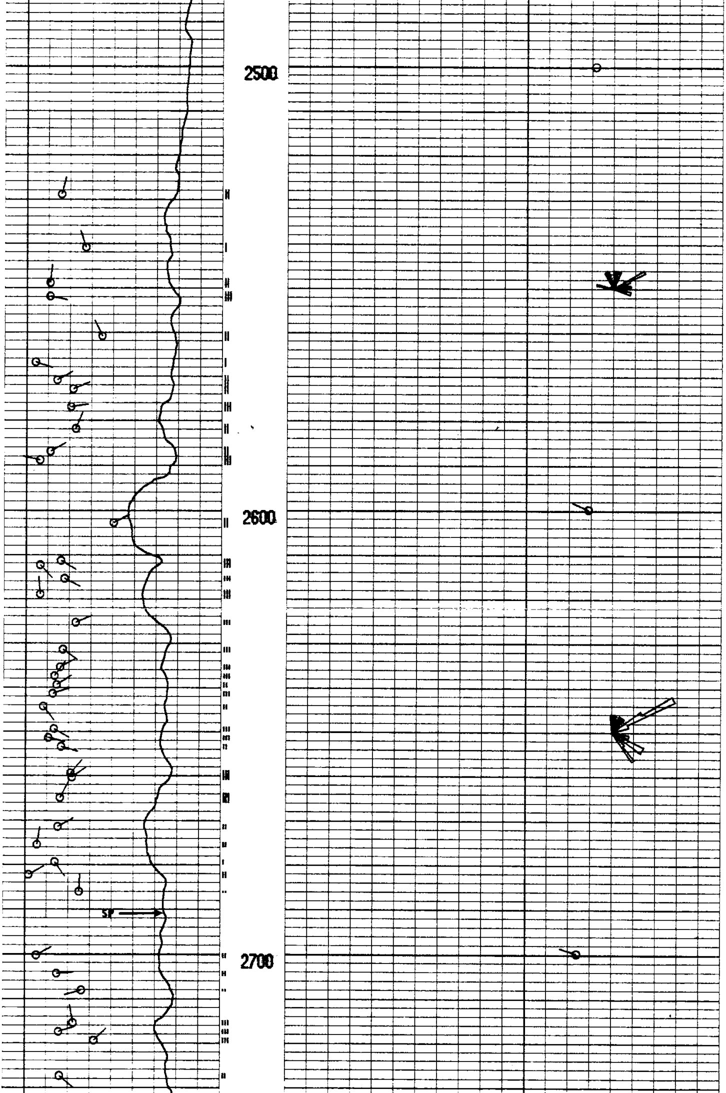


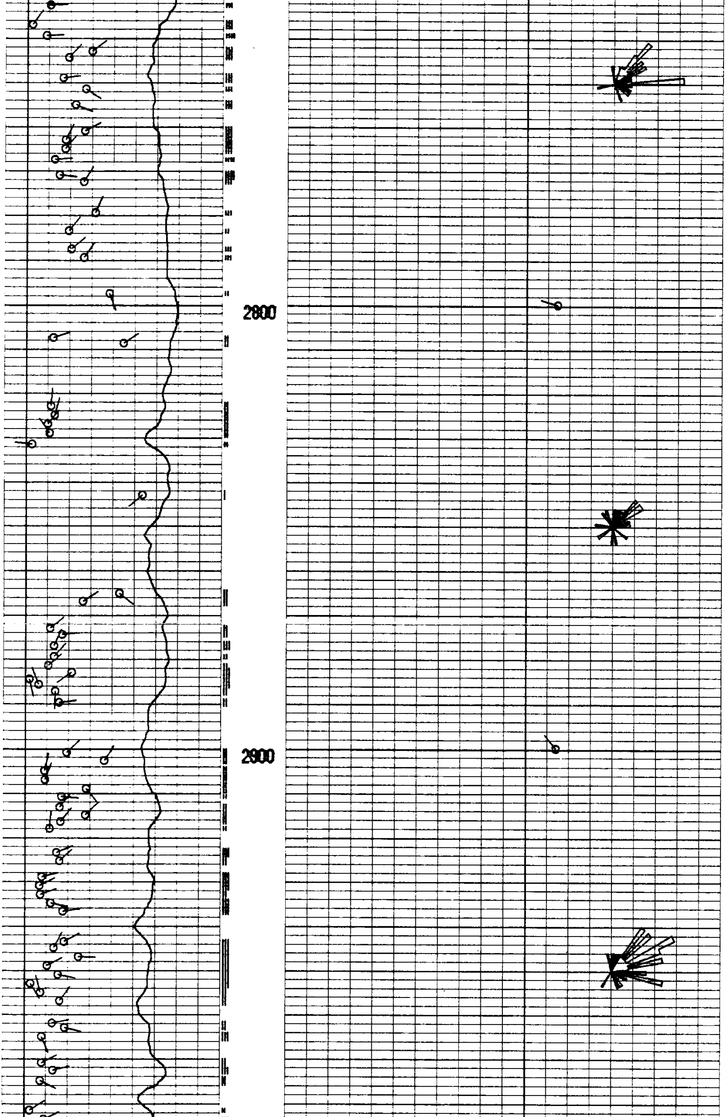


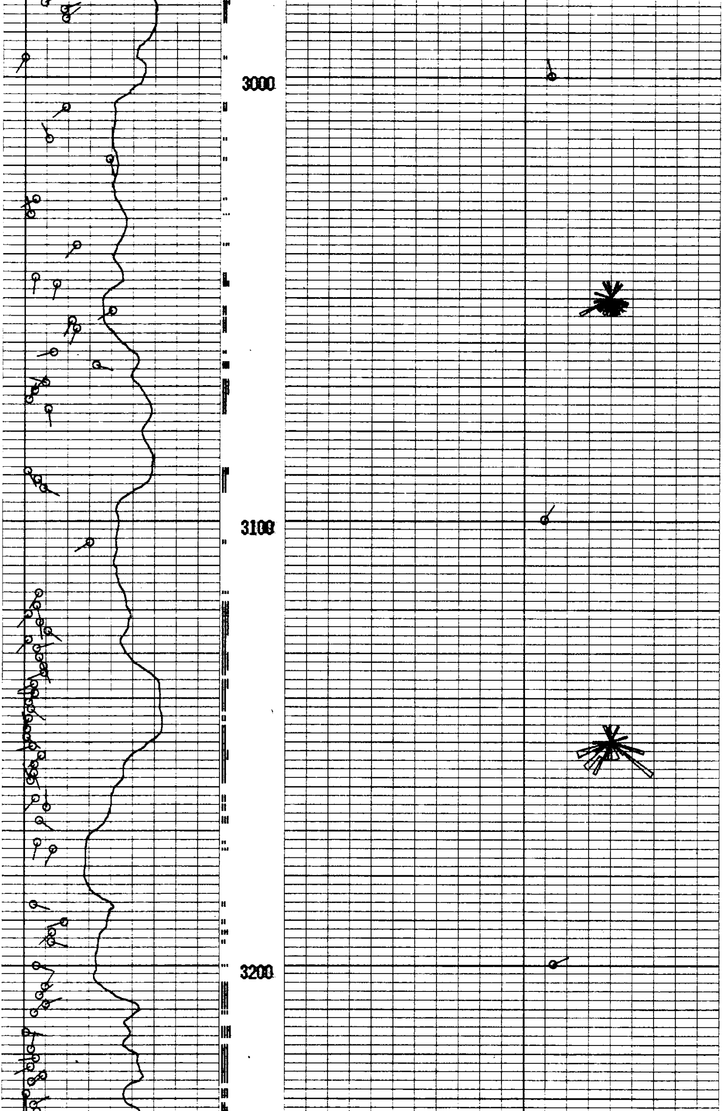


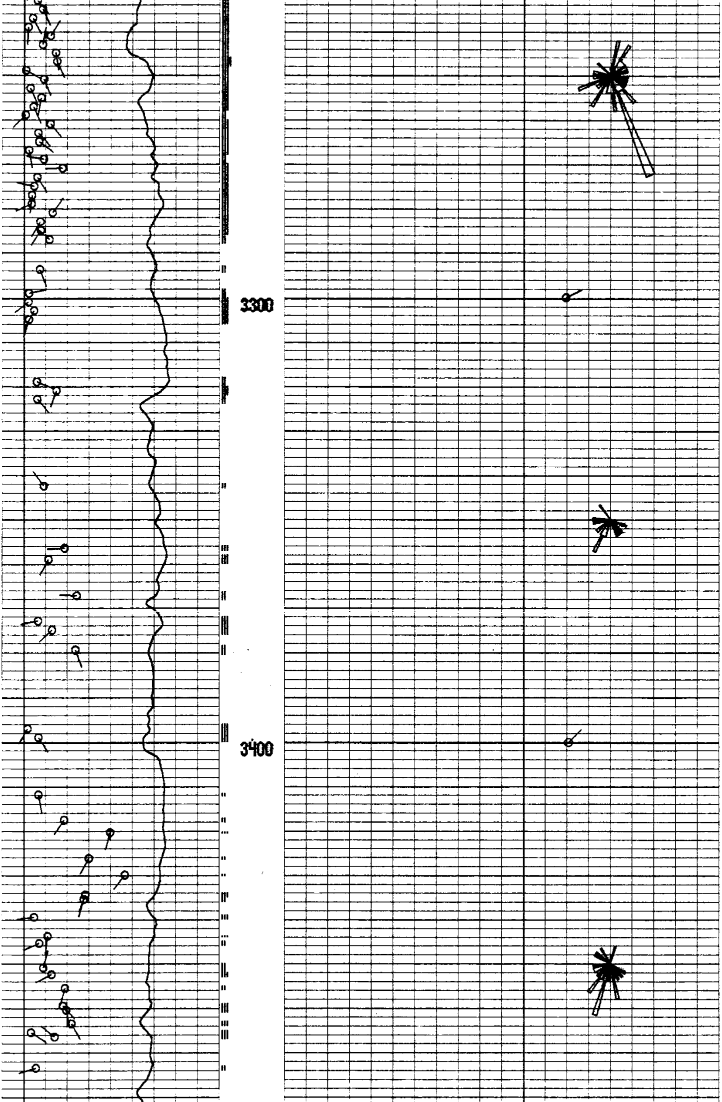


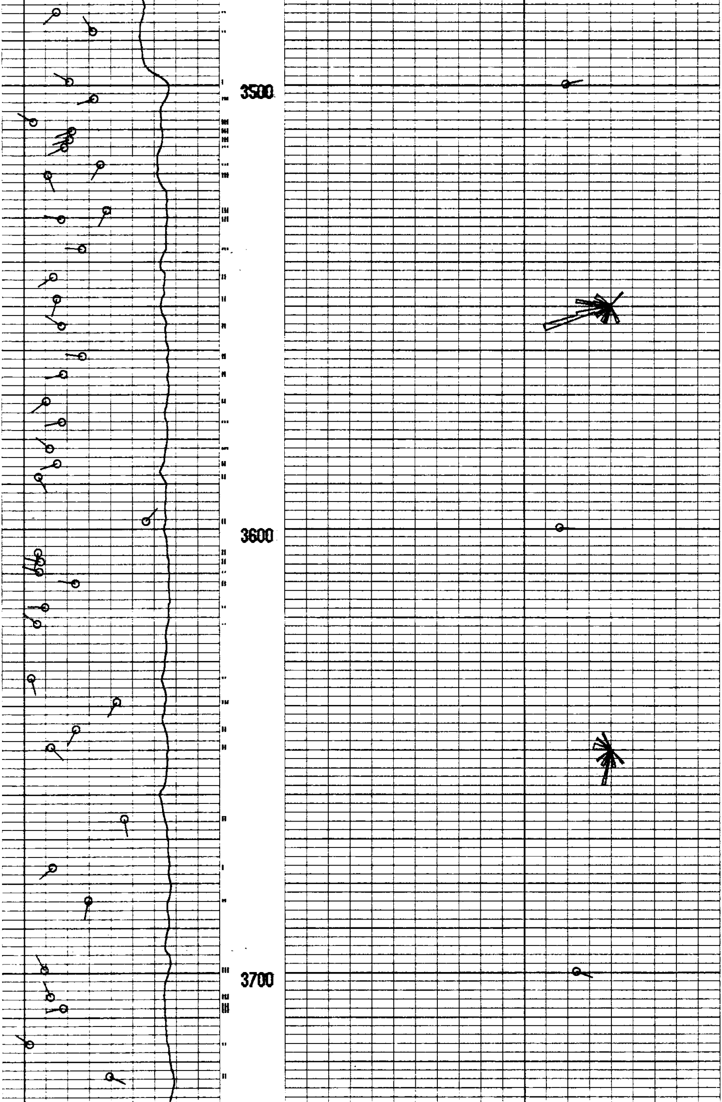


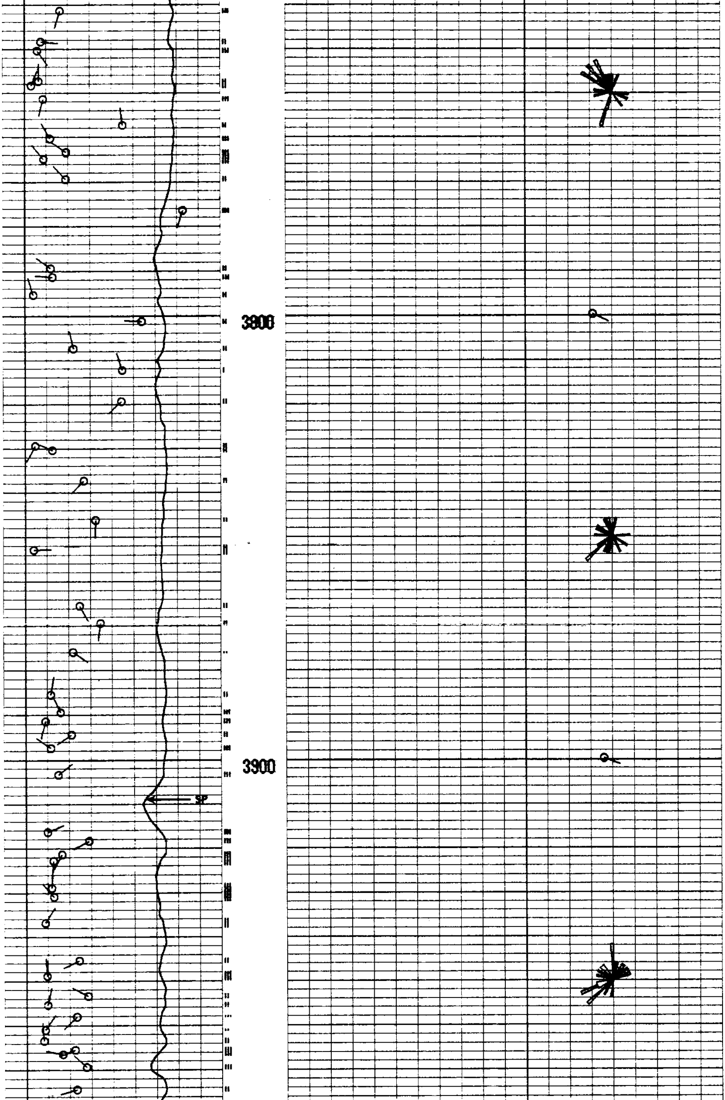


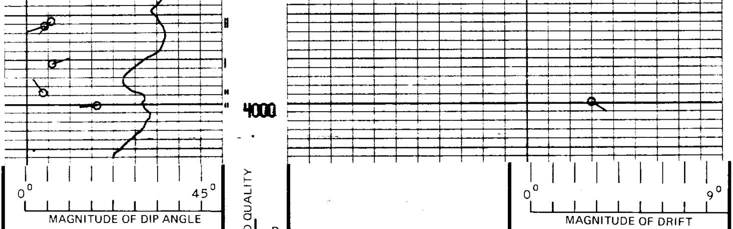












TRUE DIP ANGLE AND AZIMUTH

CORRELATION INTERVAL AND QUALITY

| D |
| C |
| B |
| A |

DRIFT AND ORIENTATION OF TOOL

AMERICAN QUASAR PETROLEUM COMPANY
HICKEY NO. 9-12
LEBANON (API NO. 36 043 00013)
LINN COUNTY, OREGON

T.D. LOGGED 4024
T.D. DRILLER 4030
T.D. WELEX 4026
ELEV. G.L. 329. K.B. 340.5