Watzek 30-1

Run 2

Schlumberger

FOUR — ARM
HIGH RESOLUTION
CONTINUOUS DIPMETER
(COMPUTED)

COUNTY CLATSOP
FIELD or LOCATION WILDCAT
WELL WATZEK ET AL NO. 30-1
COMPANY QUINTANA PET. CORP

COMPANY QUINTANA PETROLEUM CORPORATION

WELL WATZEK ET AL NO. 30-1

FIELD WILDCAT

COUNTY CLATSOP STATE OREGON

LOCATION
1769' SOUTH & 3935' WEST OF THE
NORTHEAST CORNER OF:
Sec. 30 Twp. 6N Rge. 6W

Other Services:
BHC, DIL
FDC/CNL/GR

Permanent Datum: GL, Elev. 870.7
Log Measured From KB, 13.6 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 884.3
D.F. --
G.L. 870.7

Date	12-24-80			
Run No.	2			
Depth—Driller	7069			
Depth—Logger	7048			
Btm. Log Interval	7047			
Top Log Interval	6538			
Casing—Driller	9⅝ @ 796	@	@	@
Casing—Logger	796			
Bit Size	8¾			
Type Fluid in Hole	LIGNOSULFONATE			
Dens. | Visc.	11.2 | 58			
pH | Fluid Loss	9.8 | 4.4 ml	ml	ml	ml
Source of Sample	CIRCULATION			
R_m @ Meas. Temp.	.79 @ 86 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	2.5 @ 54 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	2.64 @ 62 °F	@ °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	M | M			
R_m @ BHT	.53 @ 128 °F	@ °F	@ °F	@ °F
Time Since Circ.	10 HOURS			
Max. Rec. Temp.	129 °F	°F	°F	°F
Equip. | Location	8126 | SAC			
Recorded By	ANDERSON			
Witnessed By				

RECEIVED PTLD
JAN 20 1981
DEPT OF GEOLOGY & MINERAL INDUSTRIES

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

Changes 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	@ °F	@ °F
R_{mf} @ BHT	@ °F	@ °F
R_{mc} @ BHT	@ °F	@ °F

Run No.	1	2	3	4
Tool Type	HDT			
HDM No.	754			
Magnetic Declination	20°			
Analog Panel No.	--			
Digital Panel No.	752			
Correlated By	PCDCC			
Computed By	PCDCC			
Plotted By	PCDCC			
Remarks —	SERVICE ORDER NO. 135789			

"Any directional computations made from the dipmeter log must be regarded as approximate only. This is because the dipmeter log indicates the orientation of the instrument itself, rather than the direction and amount of the wall drift. Therefore, we do not and cannot guarantee the accuracy of such directional computations, and we shall not, except in the case of willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained that may result from any such computations."

TABLE OF VERTICAL DISPLACEMENT IN FEET CORRESPONDING TO

VARIOUS HORIZONTAL DISTANCES AND ANGLES OF DIP

DIP ANGLES (degrees)	VERTICAL DISPLACEMENT FOR HORIZONTAL DISTANCES OF 100′	1000′	1 mile (5280′)	DIP ANGLES (degrees)	VERTICAL DISPLACEMENT FOR HORIZONTAL DISTANCES OF 100′	1000′	1 mile (5280′)
1	1.75	17.5	92.2	19	34.4	344.	1818.
2	3.5	35.	184.	20	36.4	364.	1922.
3	5.2	52.	277.	21	38.4	384.	2027.
4	7.0	70.	369.	22	40.4	404.	2133.
5	8.8	88.	462.	23	42.5	425.	2241.
6	10.5	105.	555.	24	44.5	445.	2351.
7	12.3	123.	648.	25	46.6	466.	2462.
8	14.1	141.	742.	30	57.7	577.	3048.
9	15.8	158.	836.	35	70.0	700.	3697.
10	17.6	176.	931.	40	83.9	839.	4430.
11	19.4	194.	1026.	45	100.0	1000.	5280.
12	21.3	213.	1122.	50	119.2	1192.	6293.
13	23.1	231.	1219.	55	142.8	1428.	7540.
14	24.9	249.	1316.	60	173.2	1732.	9145.
15	26.8	268.	1415.	65	214.4	2144.	11323.
16	28.7	287.	1514.	70	274.8	2748.	14507.
17	30.6	306.	1614.	75	373.2	3732.	19705.
18	32.5	325.	1716.	80	567.1	5671.	29945.

To obtain vertical displacements corresponding to multiples of hundreds feet, thousands of feet or miles, multiply the number found in the table by the number of hundreds, thousands or miles.

Example: The formation dip is 16 degrees. The vertical displacement occurring at a spot 660 feet away from the well is desired. The table shows 28.7 feet per 100 feet for 16° dip. Therefore 28.7 x 6.60 = 189.42, or 189. feet.

N

GRAPHIC PRESENTATION

CORRELATION CURVE	DEPTHS	TRUE DIP ANGLE AND DIRECTION	DRIFT & DIRECTION OF SONDE
		0° 10° 20° 30° 40° 50° 60° 70° 80° 90°	0° 10°

QUINTANA PETROLEUM CORP.
WATZEK 30-1
WILDCAT
CLATSOP COUNTY, OREGON
RUN NO. ONE 24-DEC-80
P.C.D.C.
ARROW PLOT FROM CLUSTER PROGRAM

CORRELATION LENGTH 4.00 FT.
STEP LENGTH 2 FT.
SEARCH ANGLE 30 DEGREES
HDT-G CSU DEC-10

JOB

LOT 8 135789

5072.00

X2

SCHLUMBERGER DIPMETER ARROW PLOT

FOOT DUO-DECIMAL .500 IN. GRID

CORRELATION CURVE	DEPTHS	DIP ANGLE AND DIRECTION	BOREHOLE DRIFT
		0 10 20 30 40 50 60 70 80 90	0 10

POOLED ARROW PLOT

2 LEVELS POOLED WHEN WITHIN

3.5 DEGREES SOLID ANGLE

BLACK ARROWS ARE POOLED RESULTS

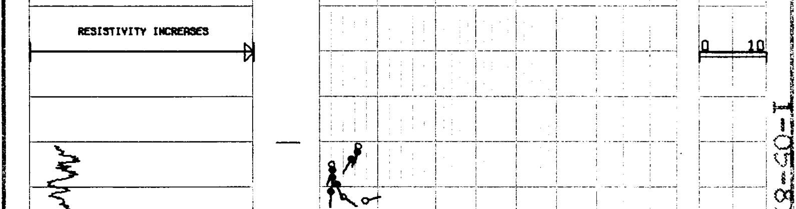
CORRELATION LENGTH 4.00 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 30 DEGREES X2

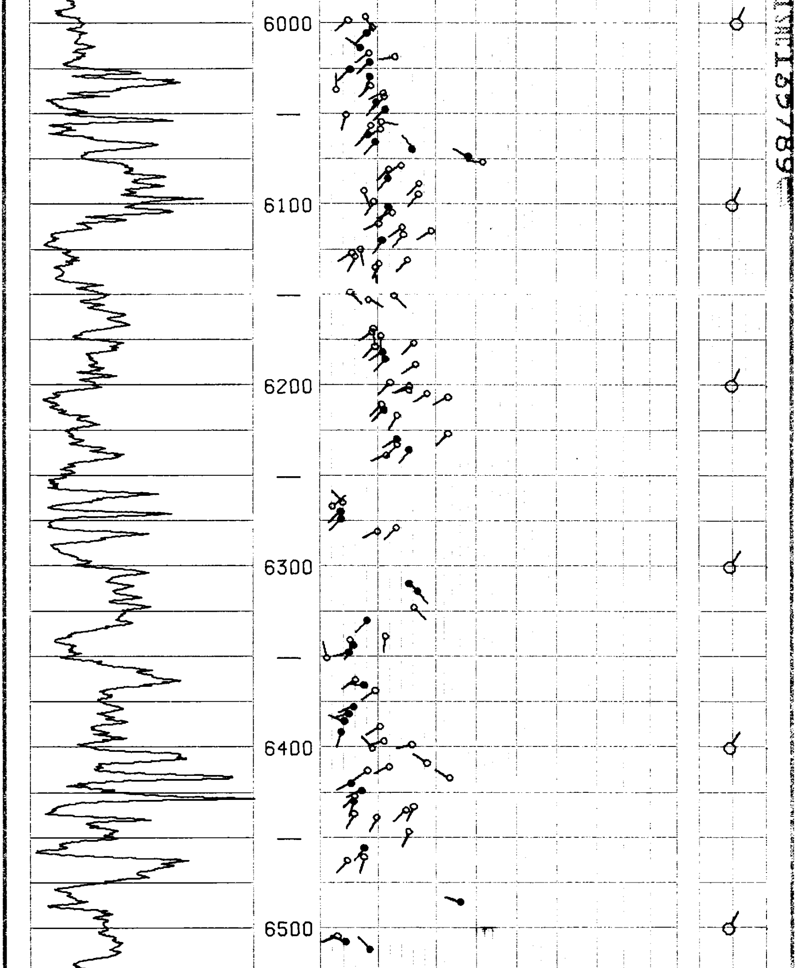
PC0130023518307001020420

ZONE FROM 5952 TO 7004



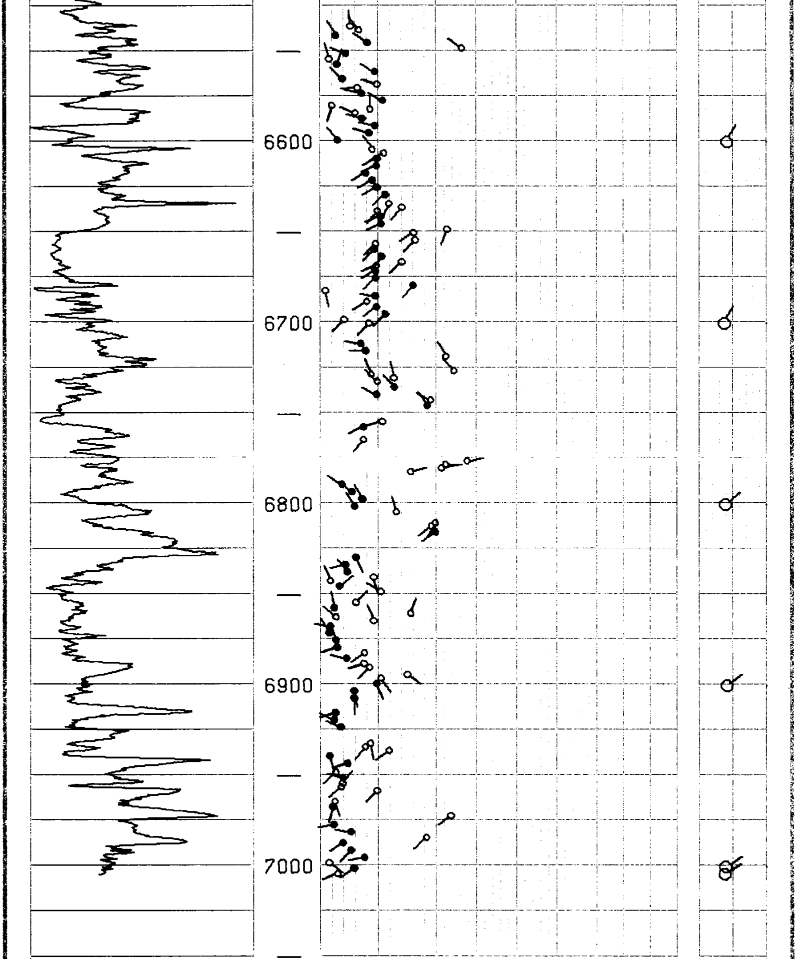
1-05-8

SCHLUMBERGER DIPMETER ARROW PLOT



FOOT DUO-DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT



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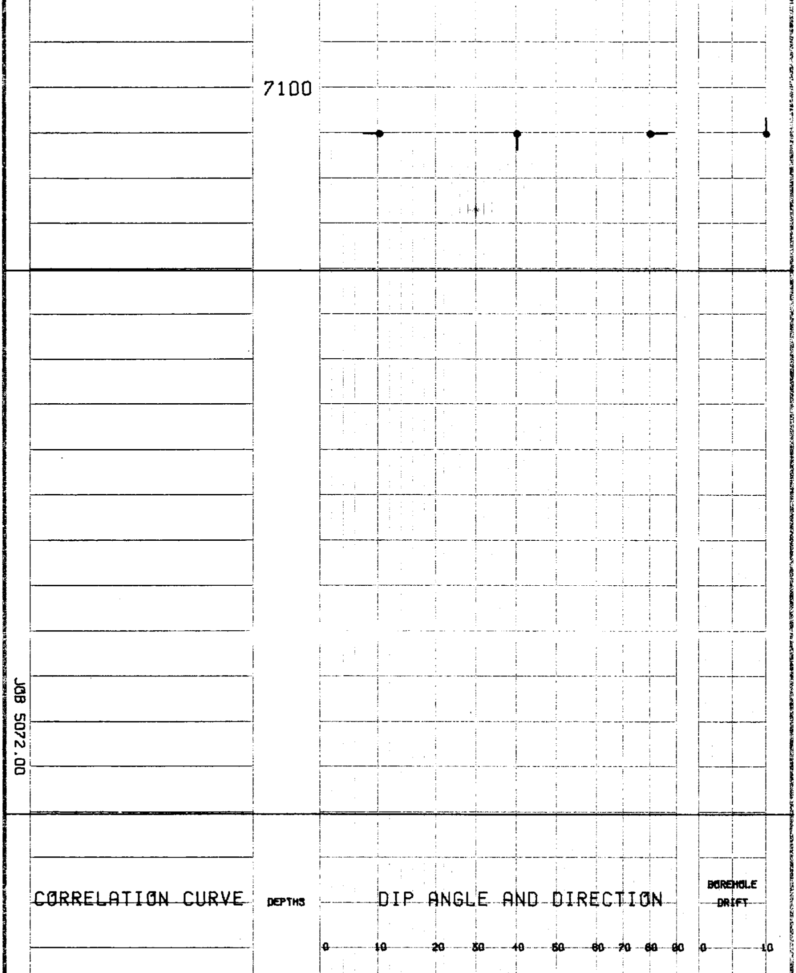


SCHLUMBERGER DIPMETER ARROW PLOT

JOB 5072.00

FOOT DUO-DECIMAL .500 IN. GRID

ALL QUALITY ARROW PLOT 5072

FROM THE CLUSTER PROGRAM

BLACK ARROWS ARE HIGHEST QUALITY

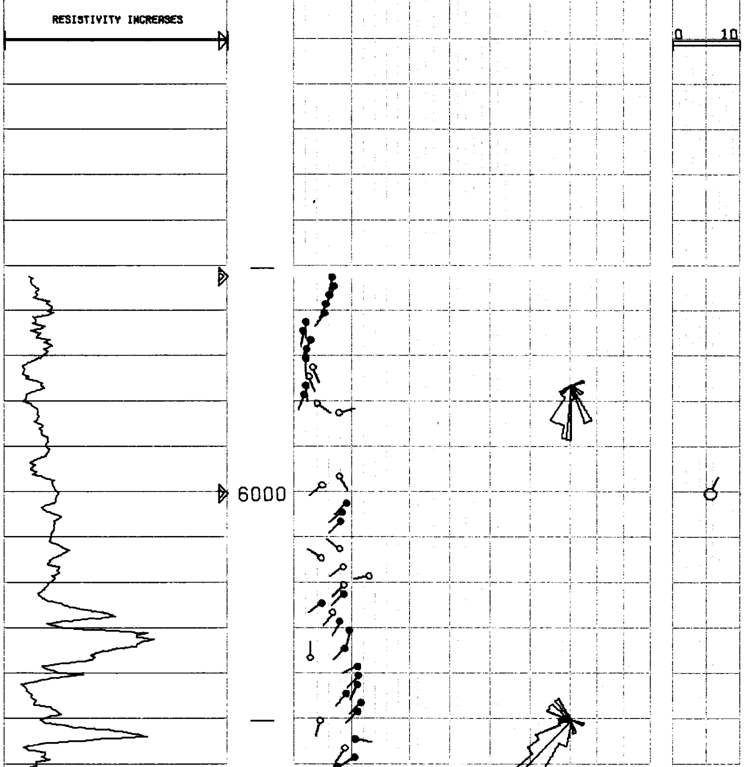
CORRELATION LENGTH 4.00 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 30 DEGREES X2

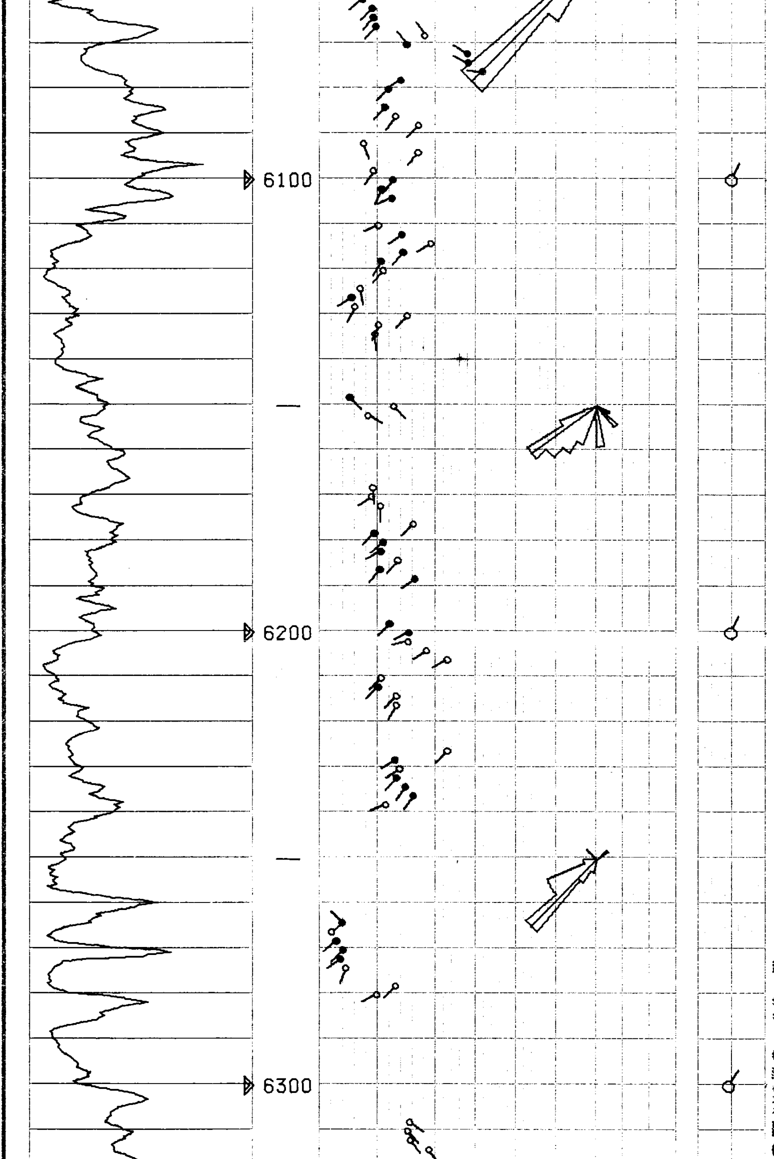
PC0130023518307001020420

ZONE FROM 5952 TO 7004



SCHLUMBERGER DIPMETER ARROW PLOT

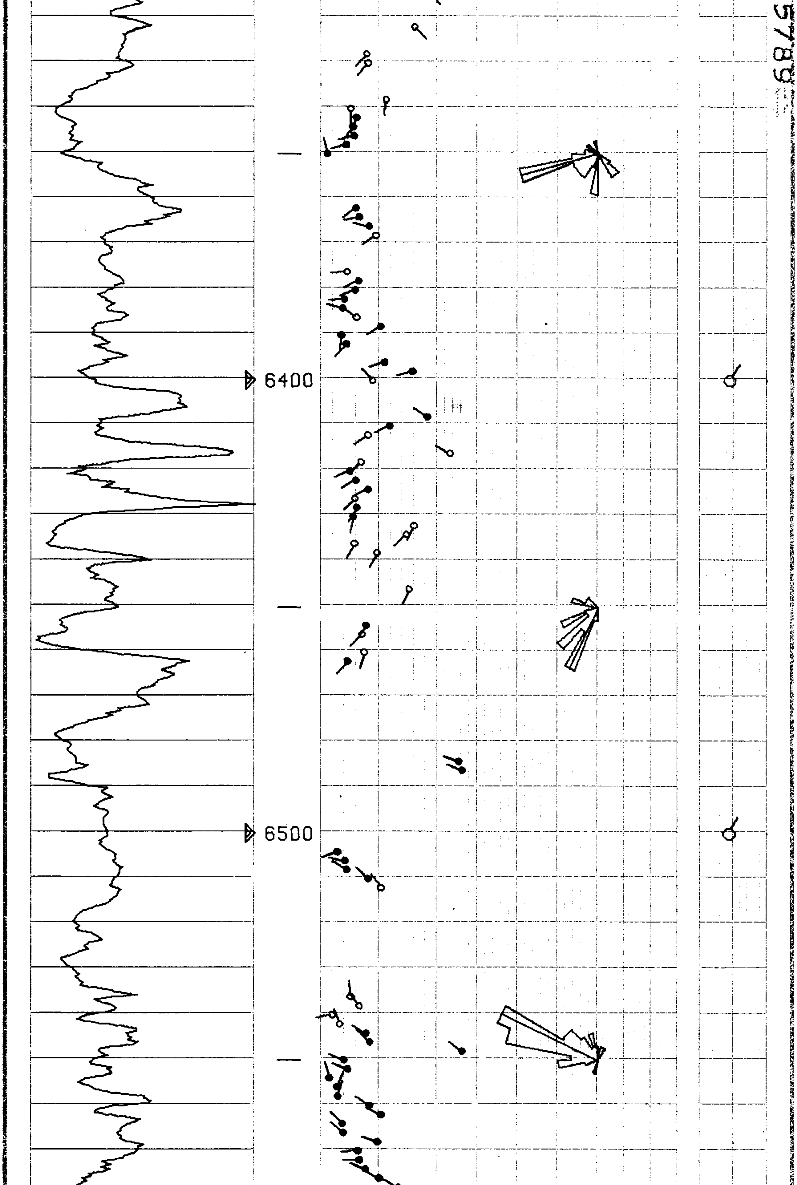
FOOT DUO-DECIMAL .500 IN. GRID



SCHLUMBERGER DIPMETER ARROW PLOT

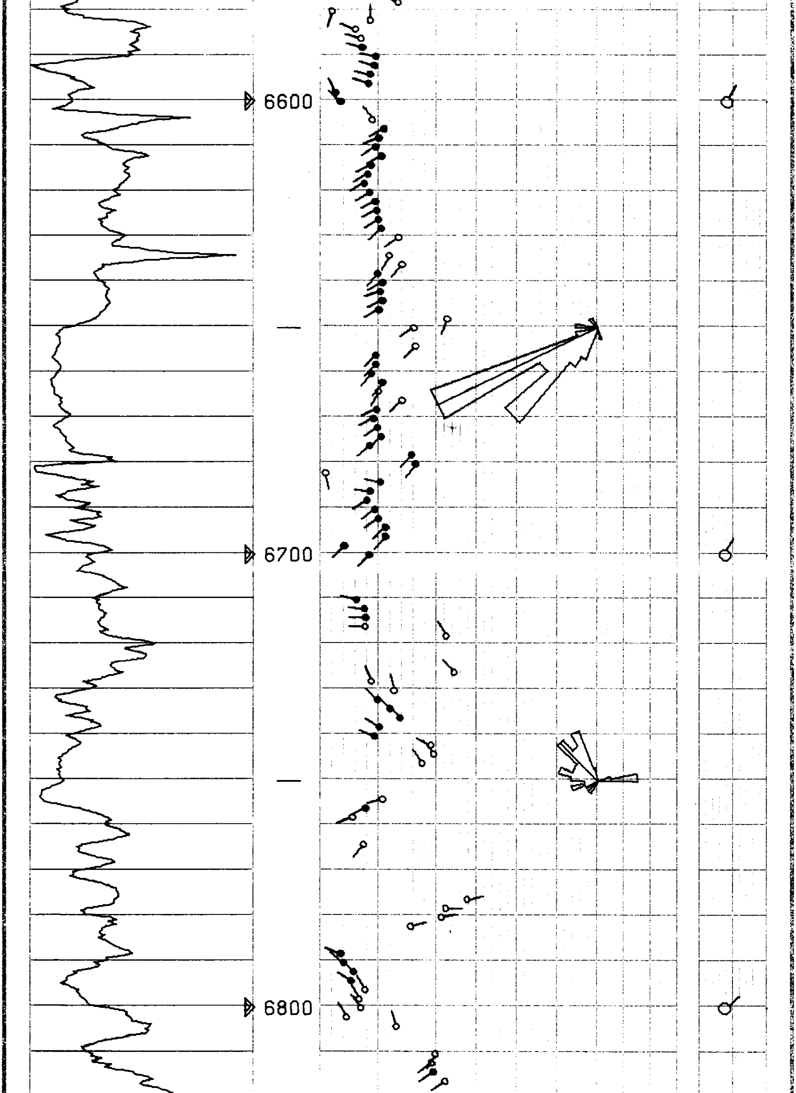
1-07-81SMT13

SCHLUMBERGER DIPMETER ARROW PLOT



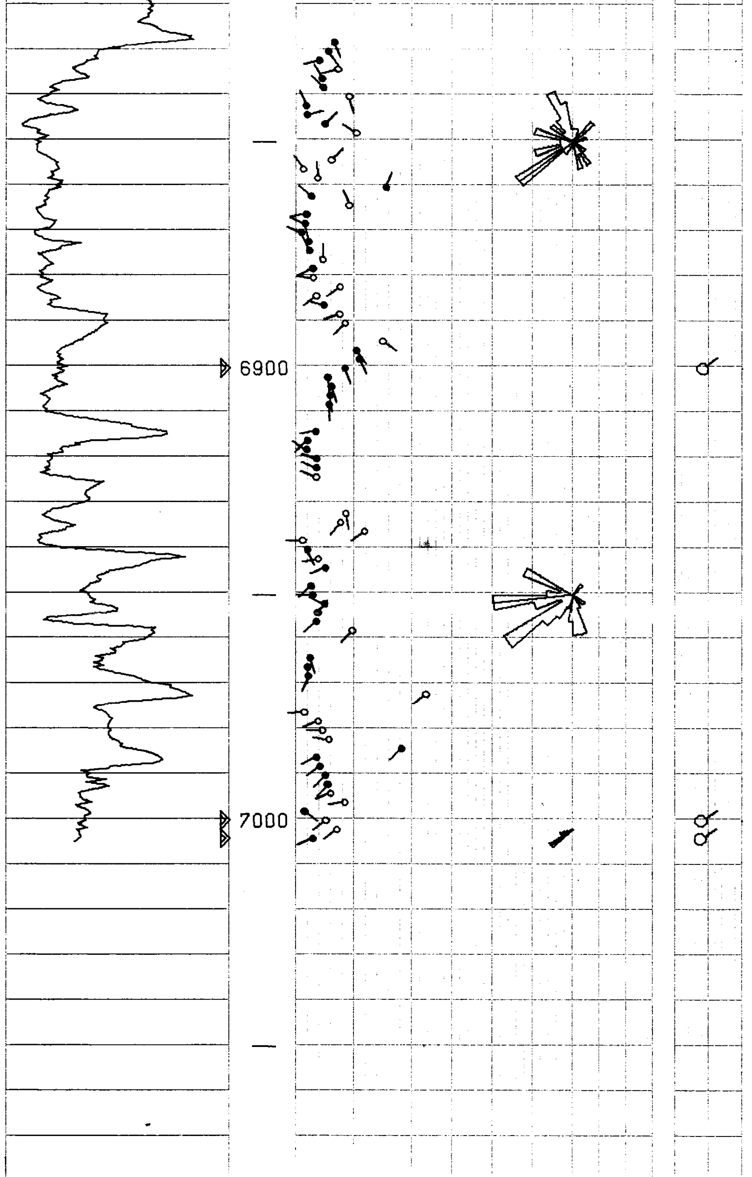
FOOT DUO-DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT

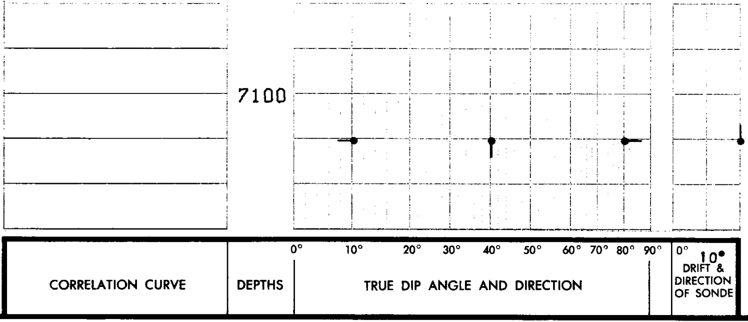


FOOT DUO-DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT



FOOT DUO-DECIMAL .500 IN. GRID



COMPANY	QUINTANA PETROEUM CORPORATION	Rm .79 @ 86 °F	SCHL. FR 7047
		Rmf 2.5 @ 54 °F	SCHL. TD 7048
WELL	WATZEK ET AL NO. 30-1	Rmc 2.64 @ 62 °F	DRLR TD 7069
		BHT 128 °F	Elev:
FIELD	WILDCAT		KB 884.3
			DF --
COUNTY	CLATSOP STATE OREGON		GL 870.7

SCHL