Schlumberger

FOUR – ARM HIGH RESOLUTION CONTINUOUS DIPMETER
(COMPUTED)

COUNTY COLUMBIA
FIELD or LOCATION MIST
WELL A.O.P.-LONGVIEW FIBRE 25-32 REDRILL#1
COMPANY AMERICAN QUASAR

COMPANY AMERICAN QUASAR
WELL A.O.P.-LONGVIEW FIBRE 25-32 REDRILL NO. 1
FIELD MIST
COUNTY COLUMBIA STATE OREGON
LOCATION SW-NE
Other Services:
Sec. 25 Twp. 6N Rge. 5W

RECEIVED-PTLD
FEB 20 1980
DEPT OF GEOLOGY & MINERAL INDUS

Permanent Datum: GL, Elev. 866
Log Measured From KB, 22 Ft. Above Perm. Datum
Drilling Measured From KB
Elev.: K.B. 888
D.F. - -
G.L. 866

Date	2-13-80			
Run No.	ONE			
Depth—Driller	3261			
Depth—Logger	3251			
Btm. Log Interval	3250			
Top Log Interval	518			
Casing—Driller	8½" @ 518	@	@	@
Casing—Logger	518			
Bit Size	6 1/8"			
Type Fluid in Hole	LIGNOSULFONATE			
Dens. | Visc.	9.5 | 37			
pH | Fluid Loss	10 | 8 ml	ml	ml	ml
Source of Sample	CIRCULATED			
R_m @ Meas. Temp.	2.46 @ 56 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	1.74 @ 52 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	2.26 @ 45 °F	@ °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	M | M			
R_m @ BHT	1.43 @ 94 °F	@ °F	@ °F	@ °F
Time Since Circ.	3½ HOURS			
Max. Rec. Temp.	96 °F	°F	°F	°F
Equip. | Location	7763 | SAC			
Recorded By	ANDERSEN			
Witnessed By	MANN			

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-G			
HDM No.	J-724			
Magnetic Declination	20°E			
Analog Panel No.	D-970			
Digital Panel No.	1940			
Correlated By	PCDCC			
Computed By	PCDCC			
Plotted By	PCDCC			

Remarks — S.O. NO. 123134

"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

VERTICAL DISPLACEMENT FOR HORIZONTAL DISTANCES OF	VERTICAL DISPLACEMENT FOR HORIZONTAL DISTANCES OF

DIP ANGLES (degrees)	100′	1000′	1 mile (5280′)	DIP ANGLES (degrees)	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 0° 10° 20° 30° 40° 50° 60° 70° 80° 90°	DRIFT & DIRECTION OF SONDE 0° 10

SCHLUMBERGER DIPMETER

2-[illegible]8[illegible] 12314

AMERICAN QUASAR
LONGVIEW 25-32 RD#1
MIST FIELD
COLUMBIA COUNTY, OREGON
RUN NO. ONE 13-FEB-80
P.C.D.C.
ARROW PLOT FROM CLUSTER PROGRAM

CORRELATION LENGTH 4 FT.
STEP LENGTH 2 FT.
SEARCH ANGLE 30 DEGREES X2
HDT-D TTR PDP/11

JOB 4116.00

FOOT DUO-DECIMAL .500 IN. GRI

ARROW PLOT

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

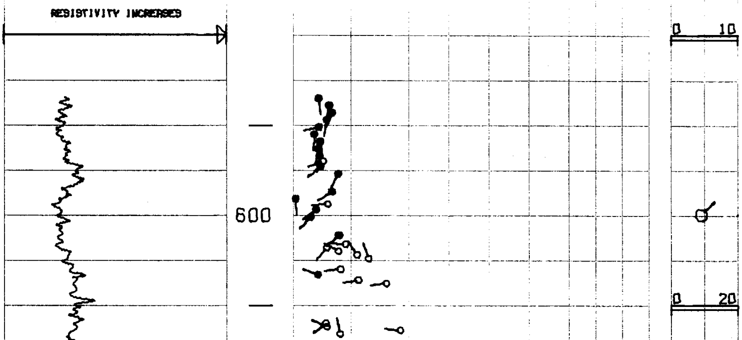
CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 30 DEGREES X2

PC0130023518307001020420

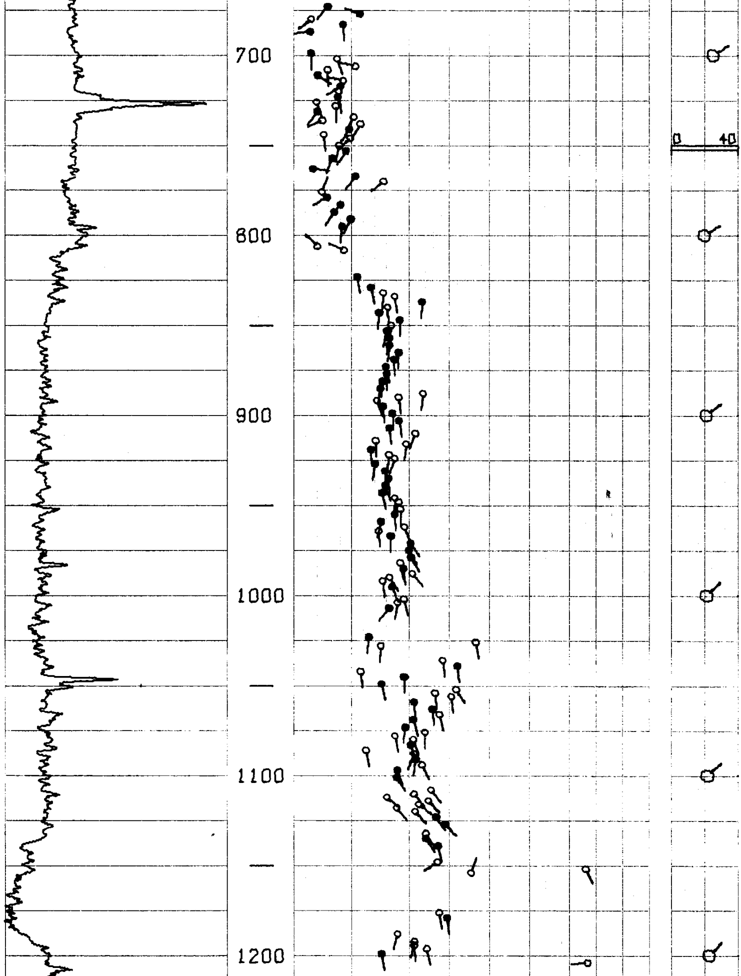
ZONE FROM 535 TO 3246



SCHLUMBERGER DIPMETER AR

FOOT DUO-DECIMAL .500 IN. GRID

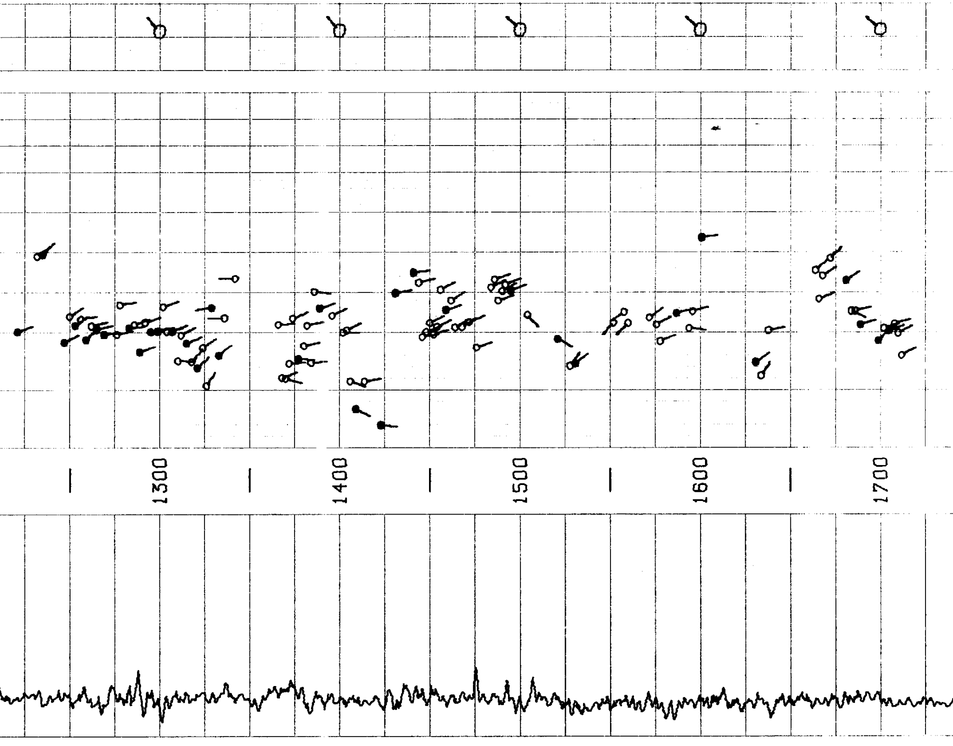
ROW PLOT



SCHLUMBERGER

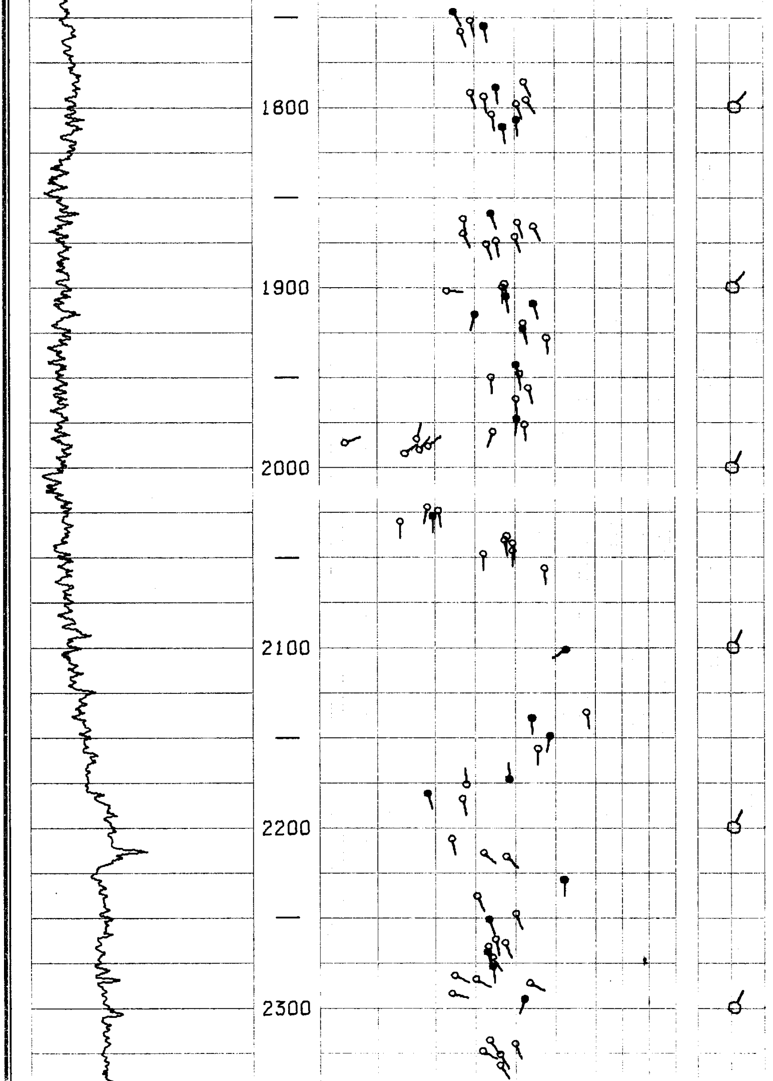
FOOT DUO-DECIMAL

DIPMETER ARROW PLOT 2-19-80SEC123134 SCHLUM



.500 IN. GRID

SCHLUM BERGER DIPMETER ARROW PLOT



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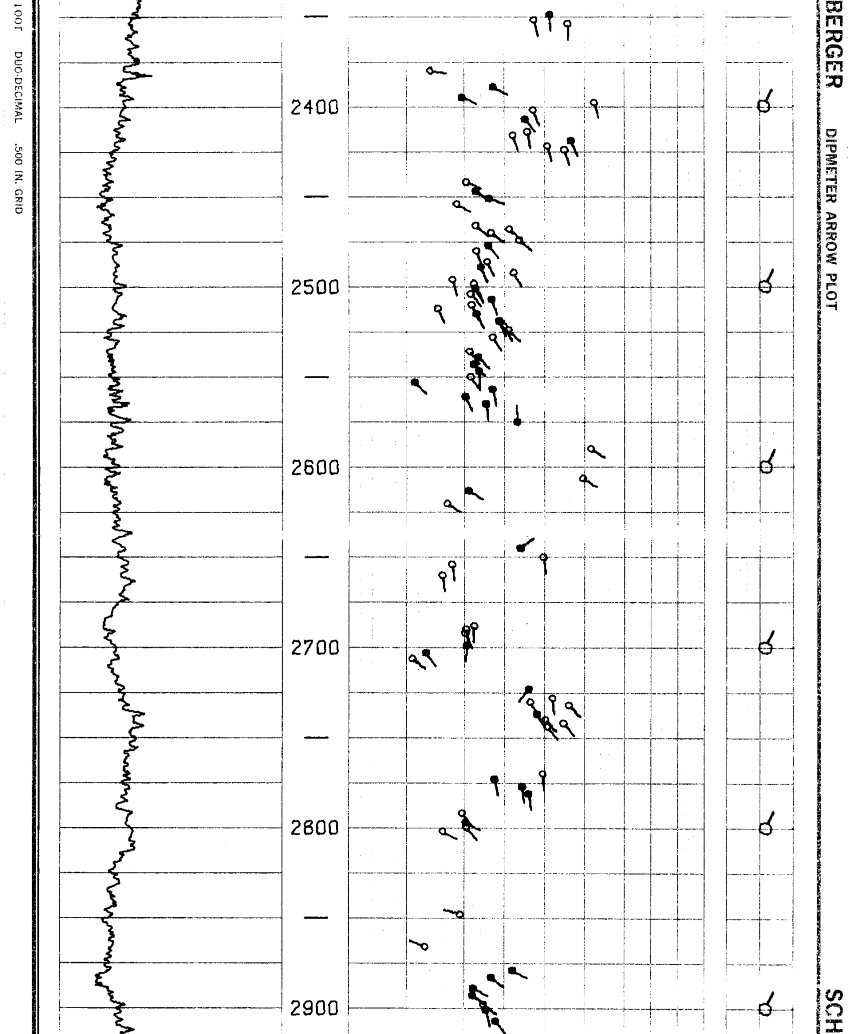
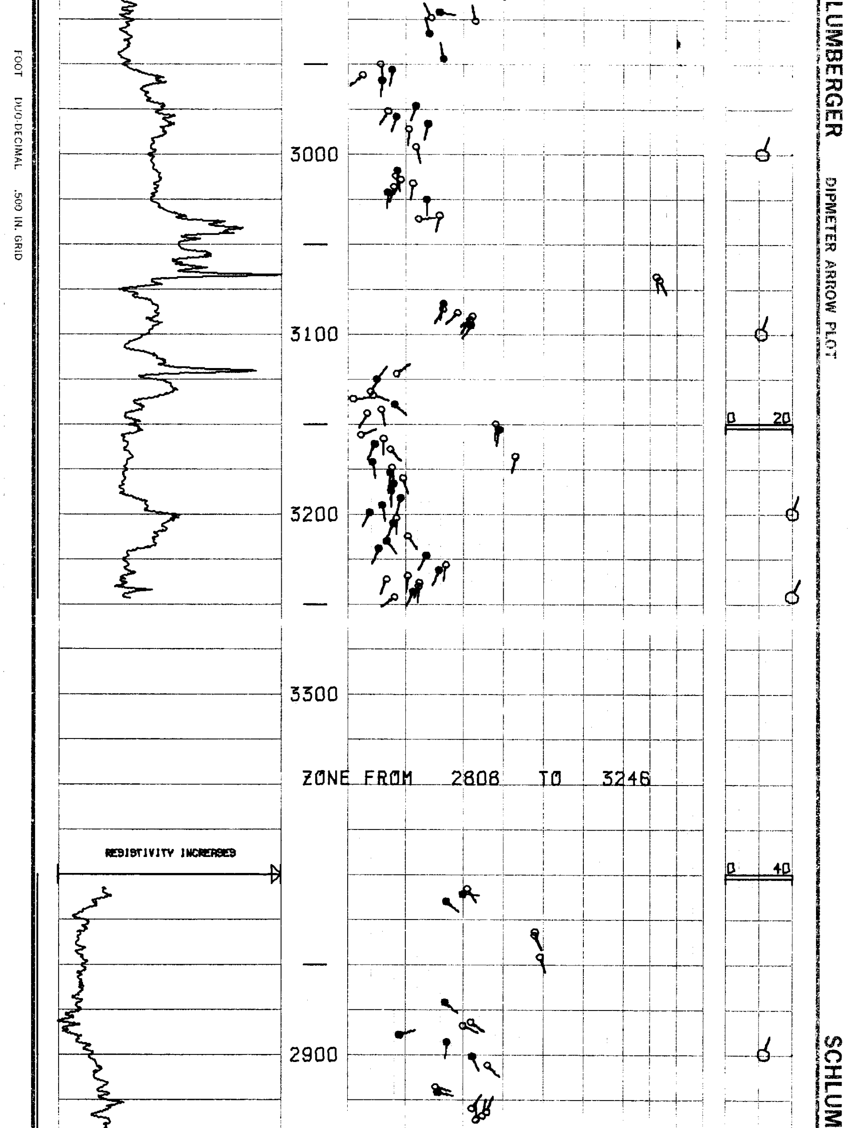
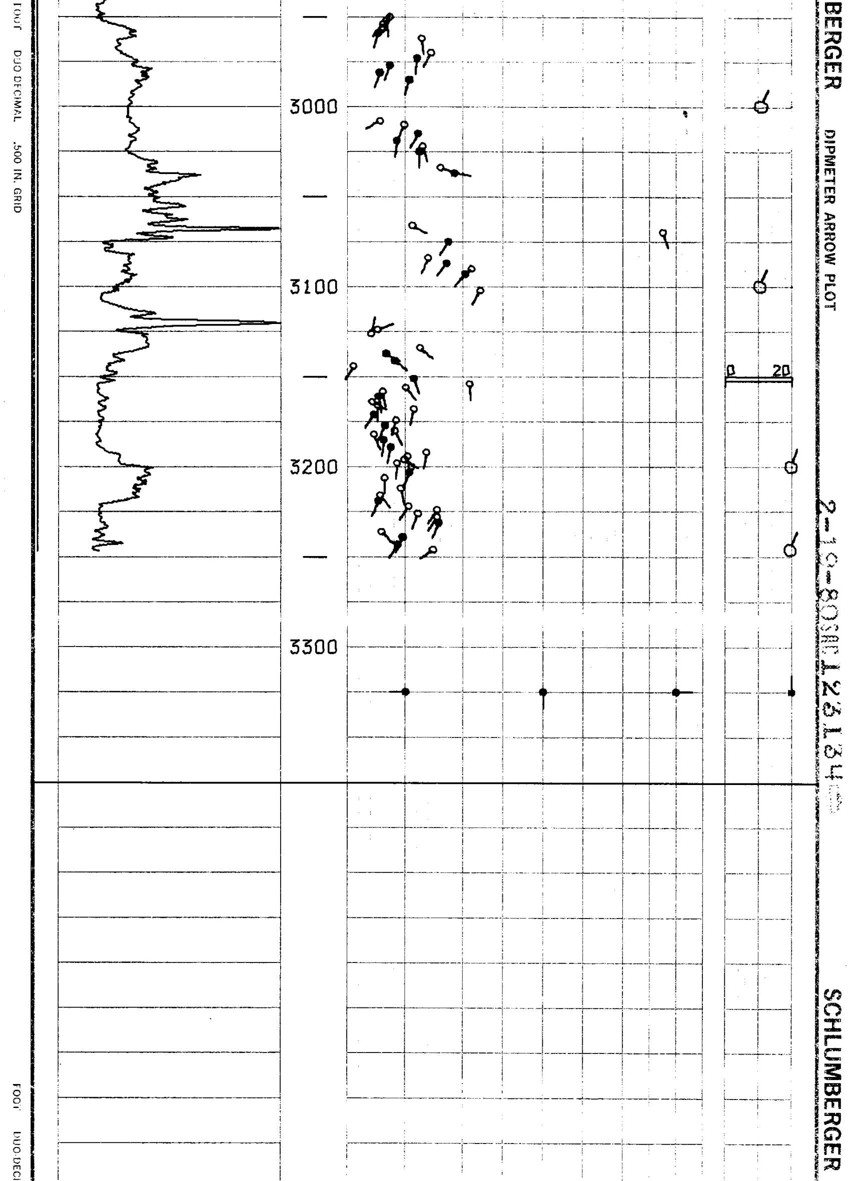






JOB 4116.00

DIPMETER ARROW PLOT

CORRELATION CURVE | DEPTHS | DIP ANGLE AND DIRECTION | BOREHOLE DRIFT

0 10 20 30 40 50 60 70 80 90 | 0 10

ALL QUALITY ARROW PLOT 4116

FROM THE CLUSTER PROGRAM

BLACK ARROWS ARE HIGHEST QUALITY

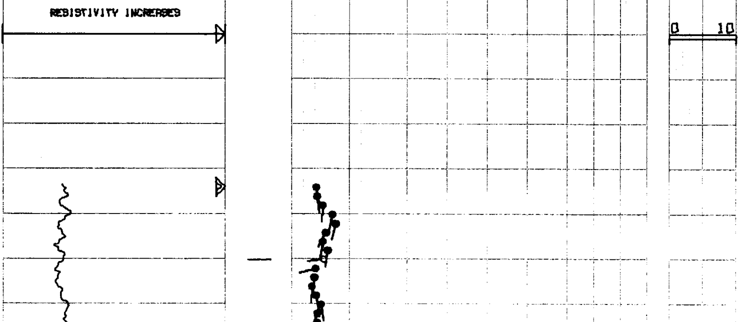
CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 30 DEGREES X2

PC0130023518307001020420

ZONE FROM 534 TO 3246



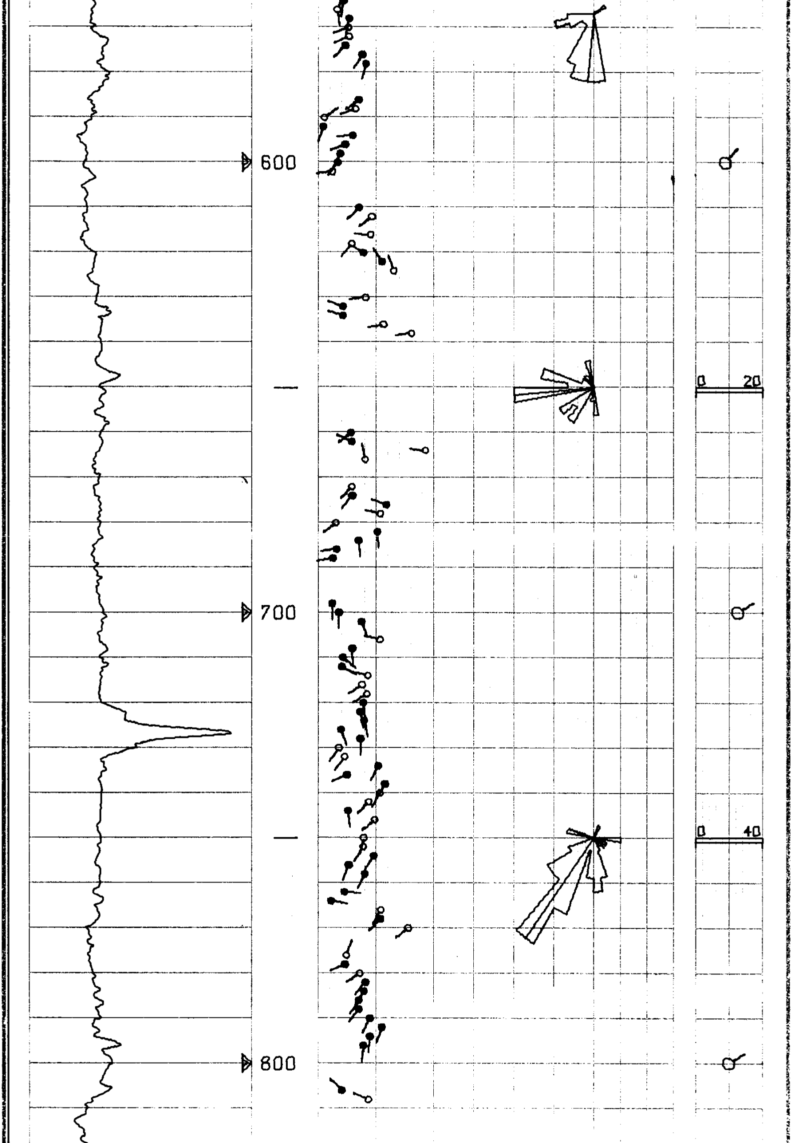
SCHLUMBERGER

MAL .500 IN. GRID

FOOT DUO-DECIMAL .500

ETER ARROW PLOT

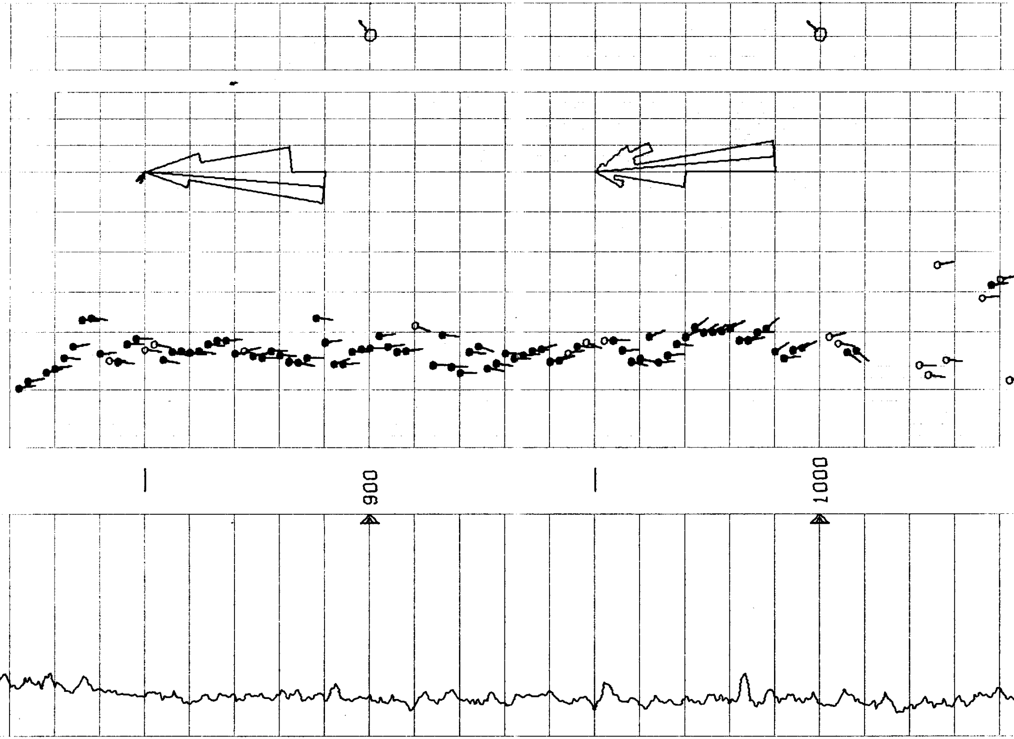
SCHLUMBERGER DIPMETER AR



N. GRID

FOOT DUO-DECIMAL .500 IN. GRID

ROW PLOT **SCHLUMBERGER** DIPM



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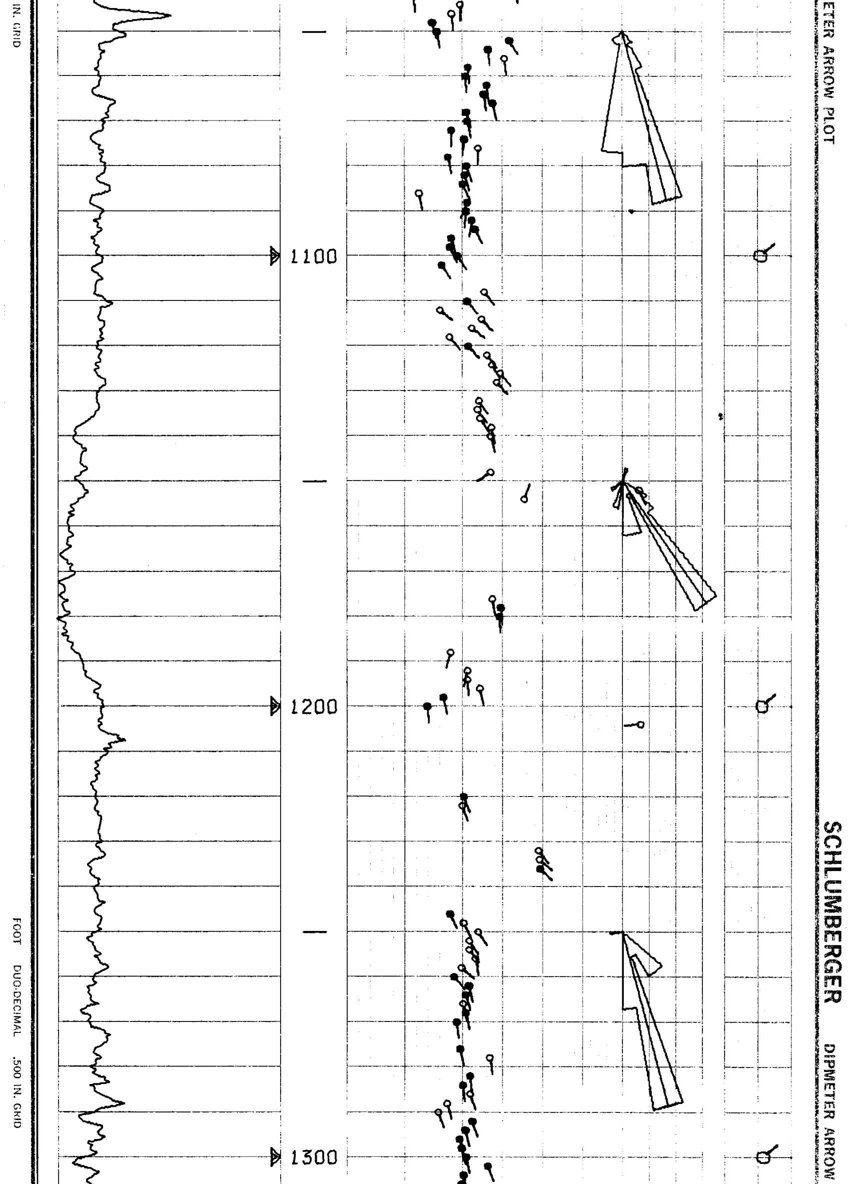
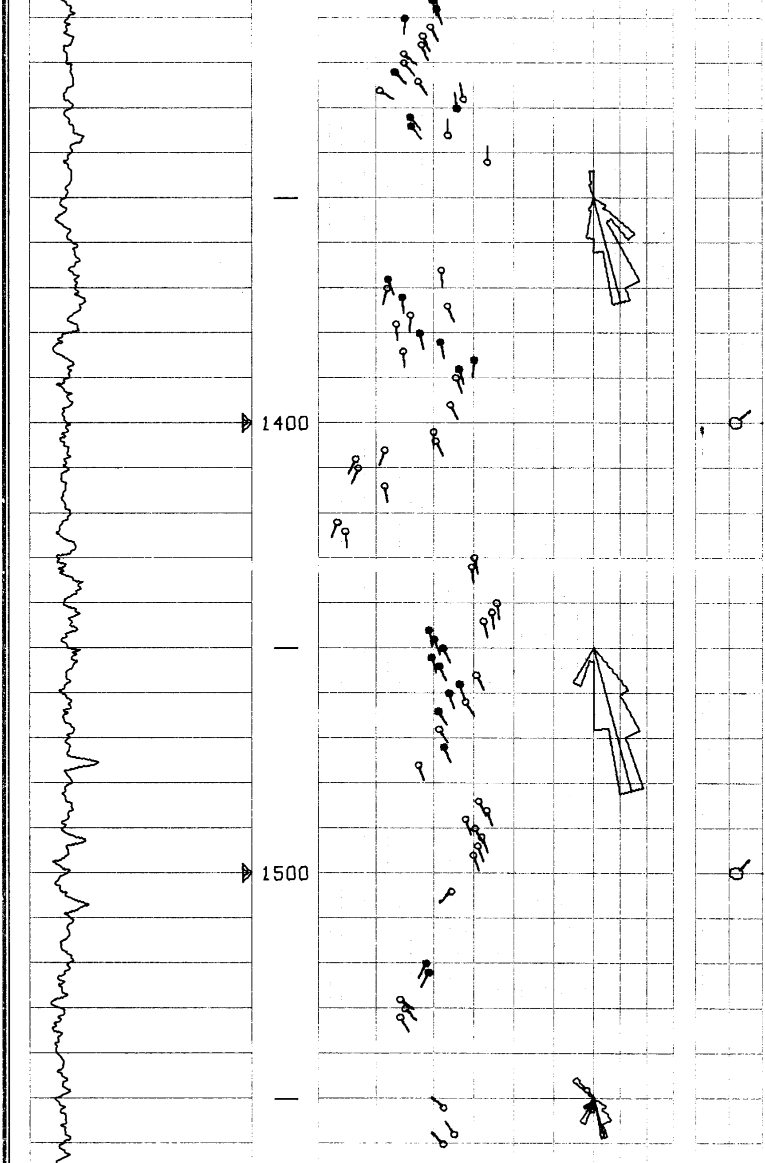


SCHLUMBERGER DIPMETER ARROW PLOT



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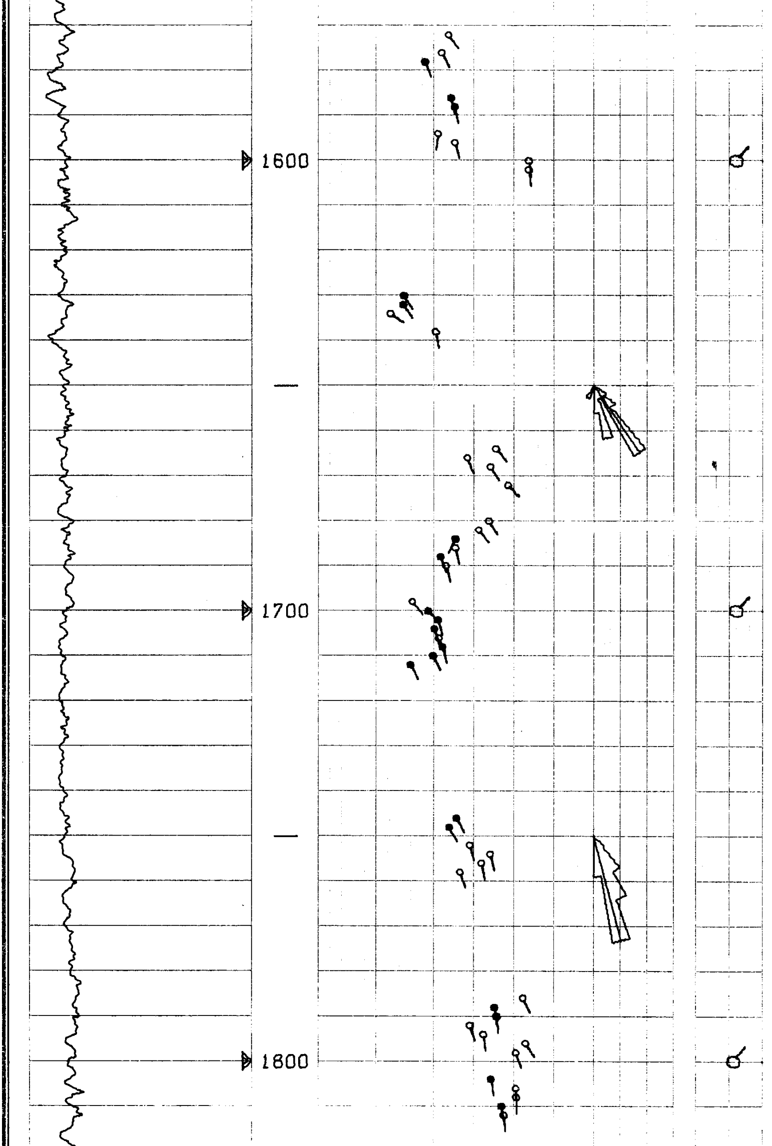

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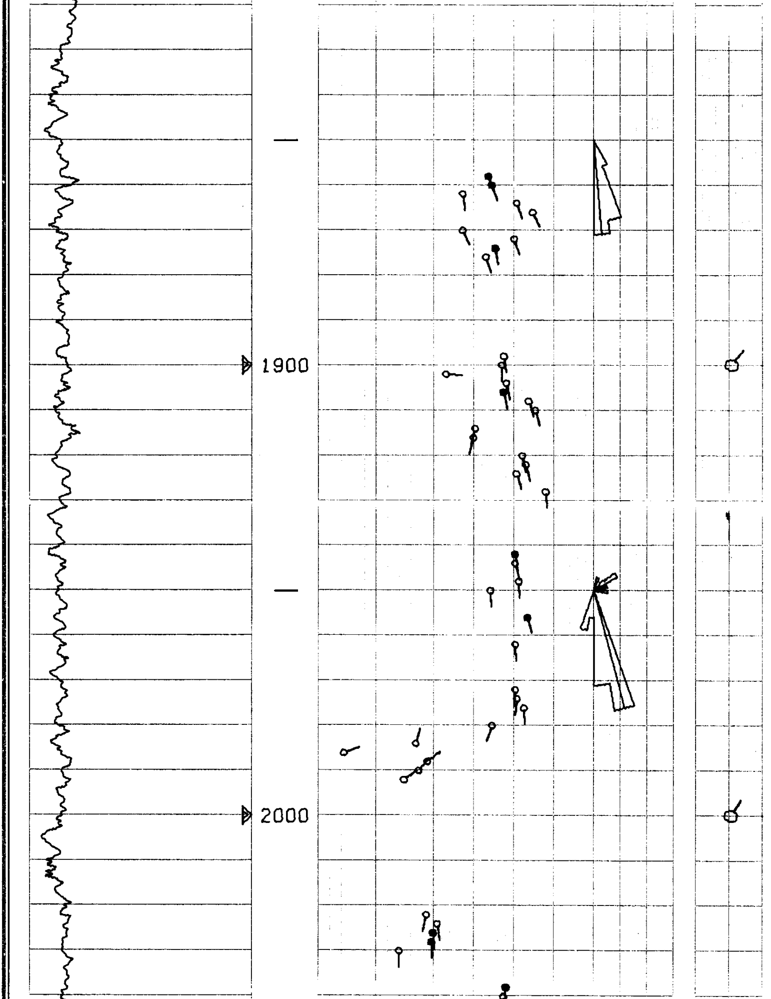
SCHLUMBERGER DIPMETER ARROW PLOT

FOOT DUO-DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT



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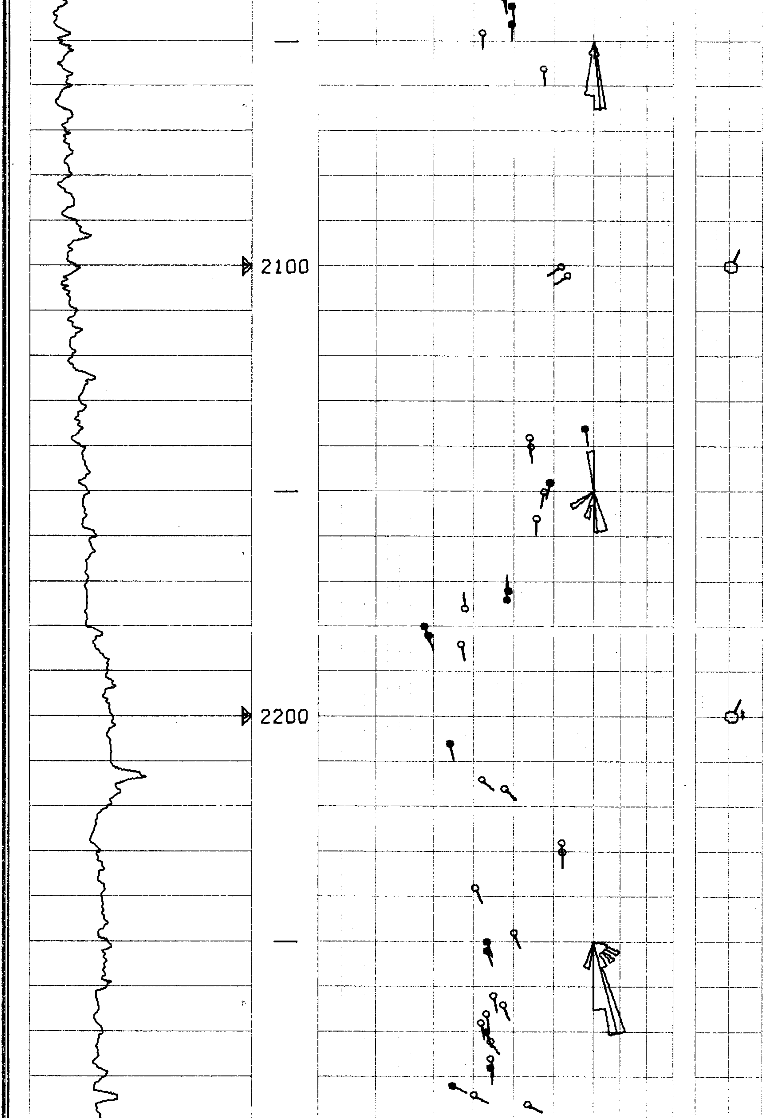
SCHLUMBERGER DIPMETER ARROW PLOT



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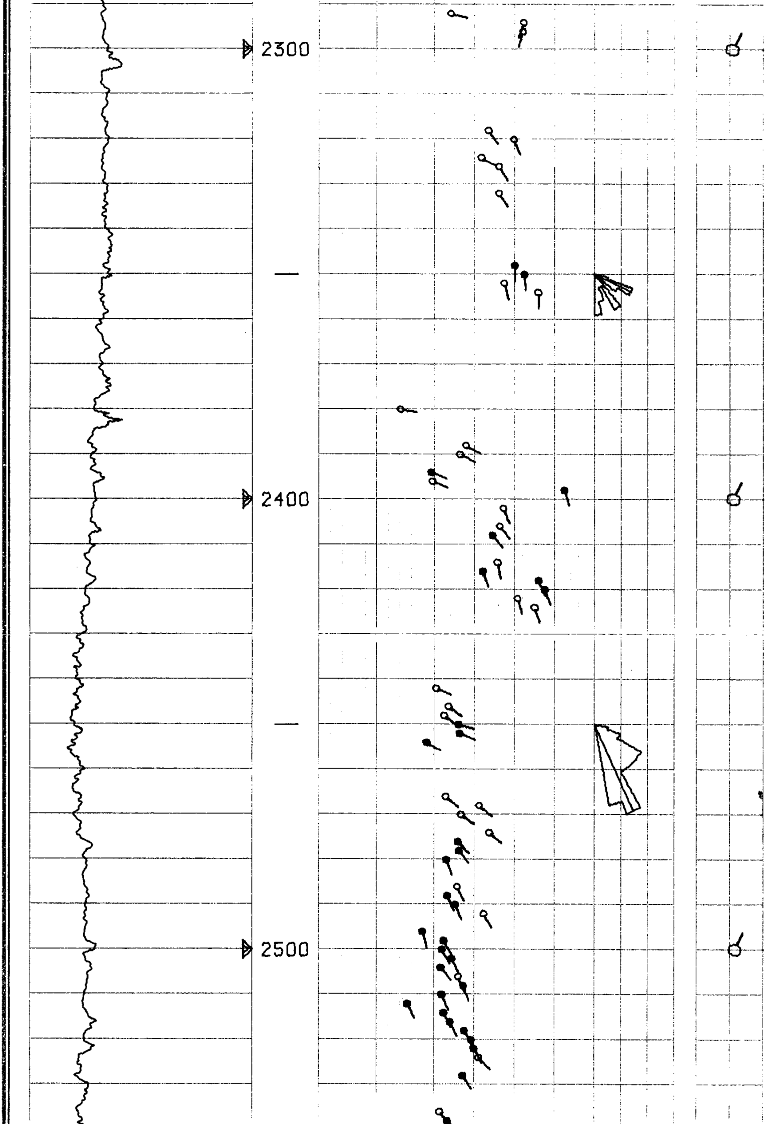
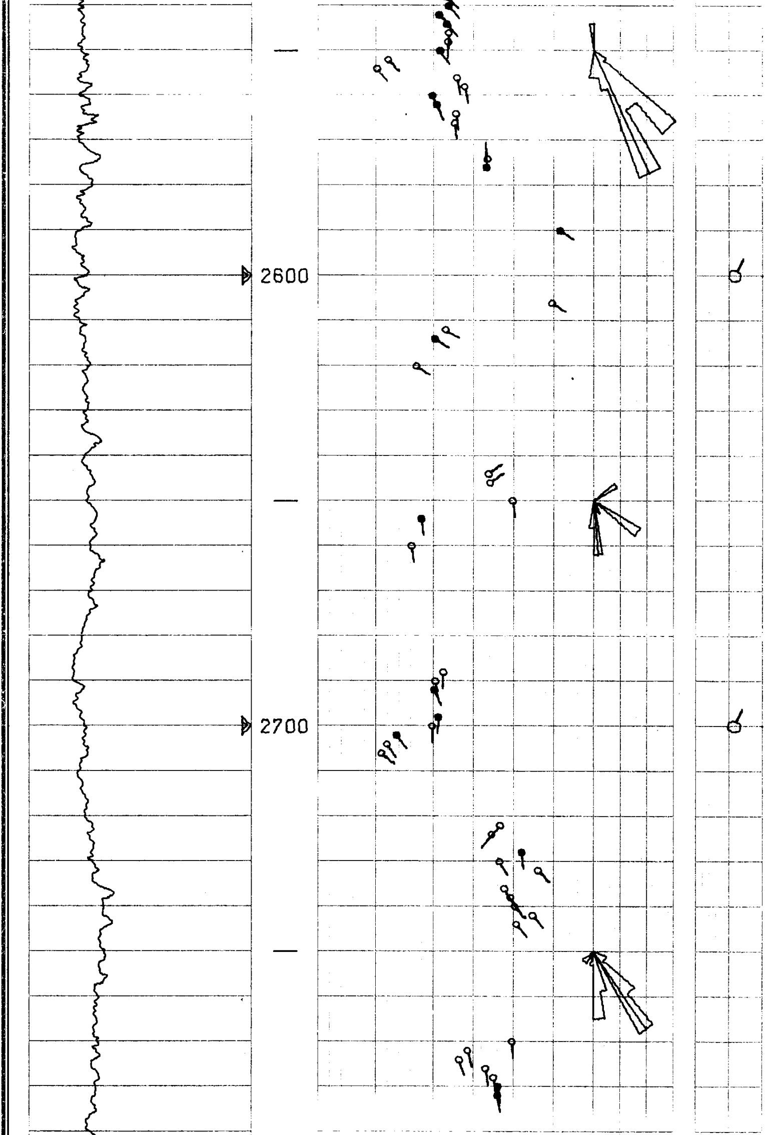
SCHLUMBERGER DIPMETER ARROW PLOT



FOOT DUO-DECIMAL .500 IN. GRID

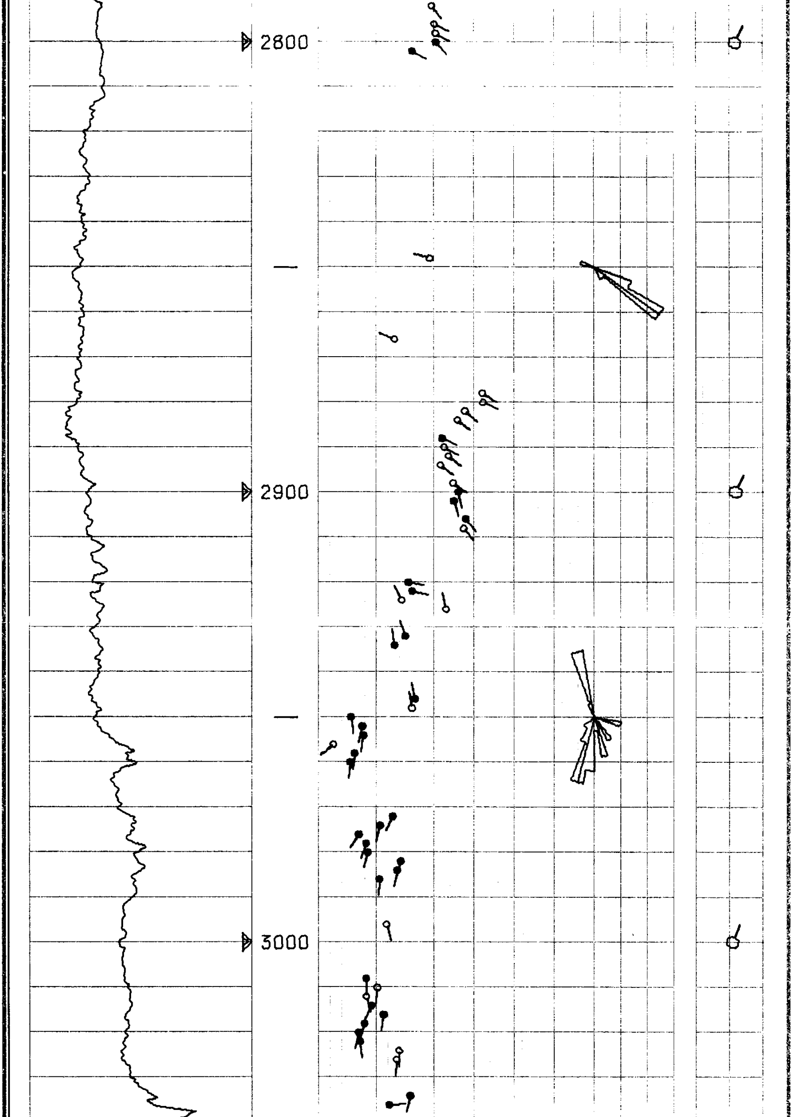
2-10-80SRC 1231346

SCHLUMBERGER DIPMETER ARROW PLOT



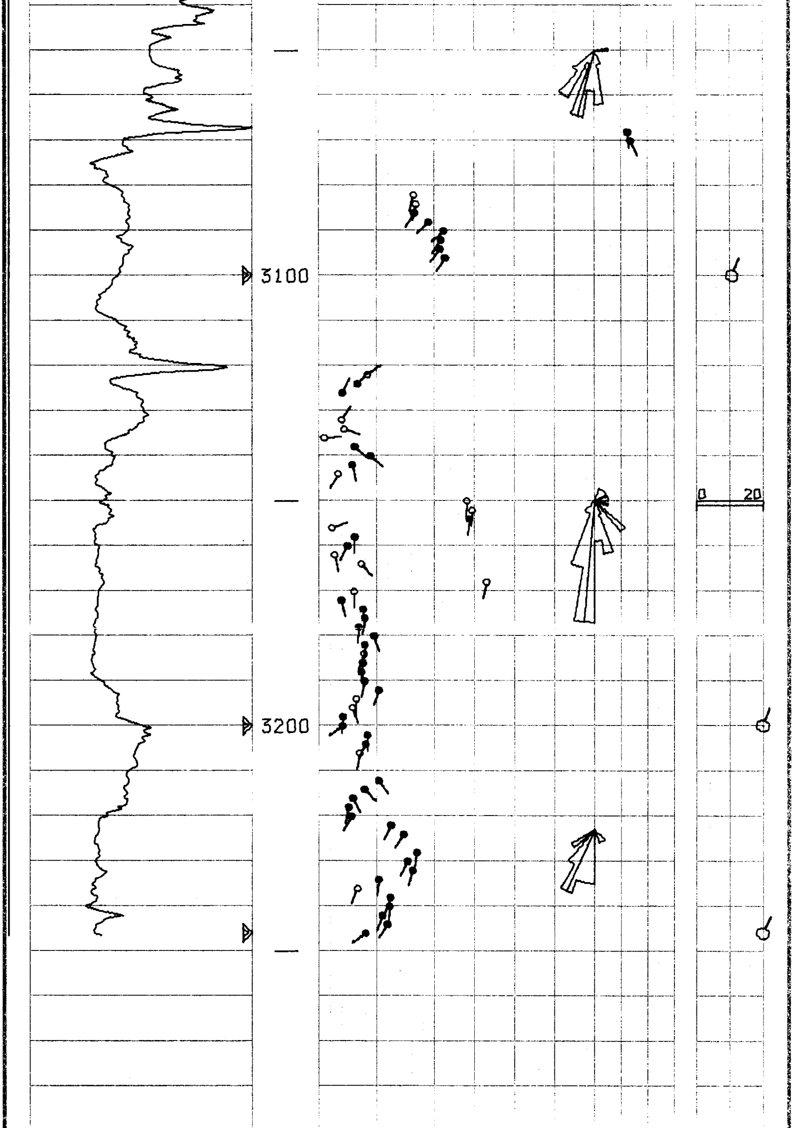
FOOT DUO-DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT



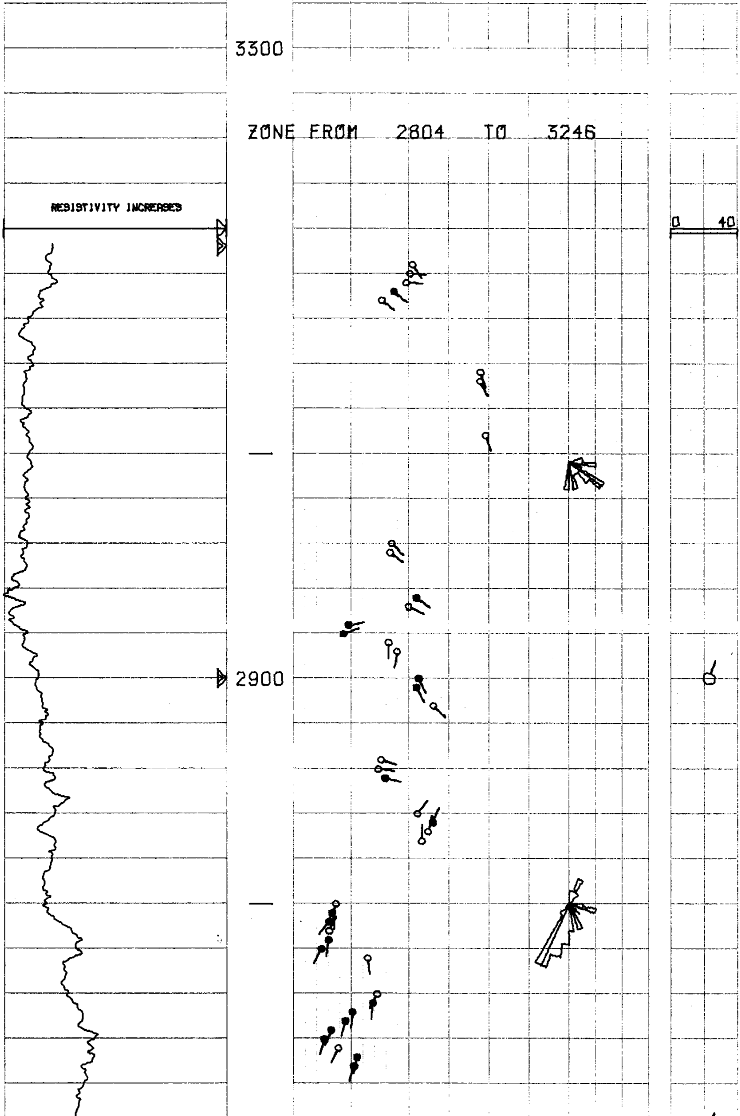
FOOT DUO-DECIMAL .500 IN. GRID

SCHLUMBERGER DIPMETER ARROW PLOT



SCHLUMBERGER

DIPMETER ARROW PLOT



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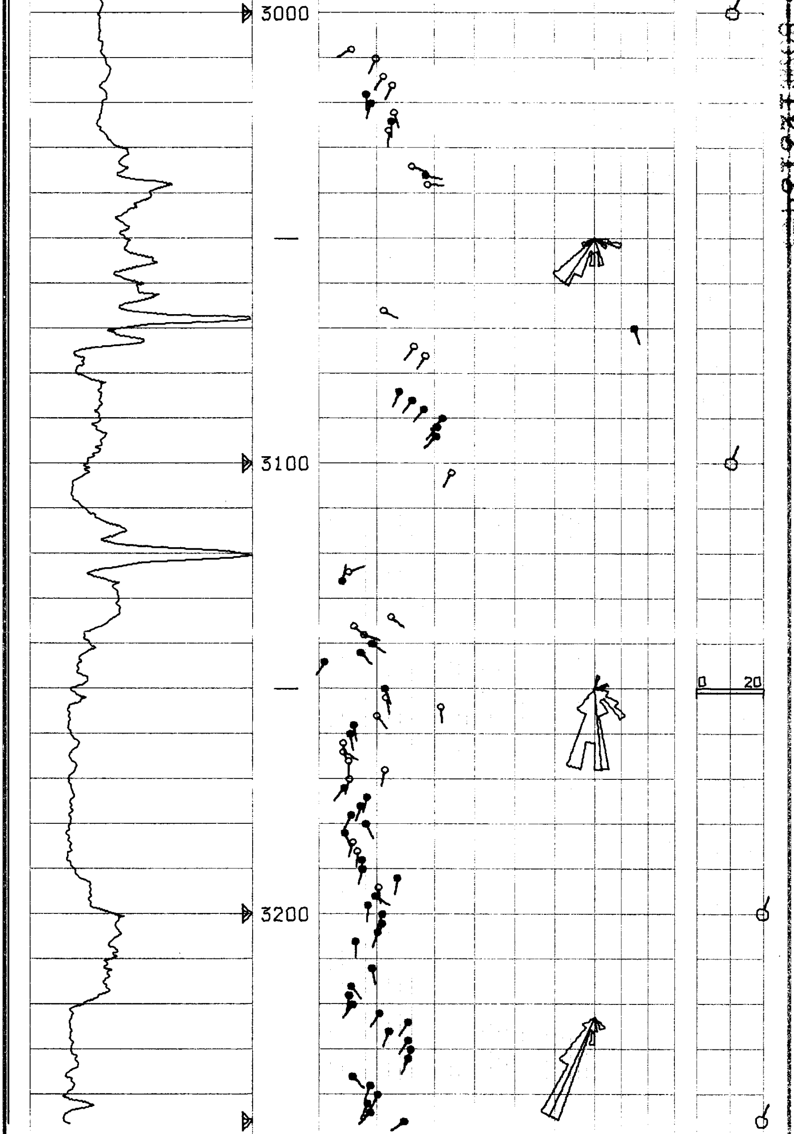
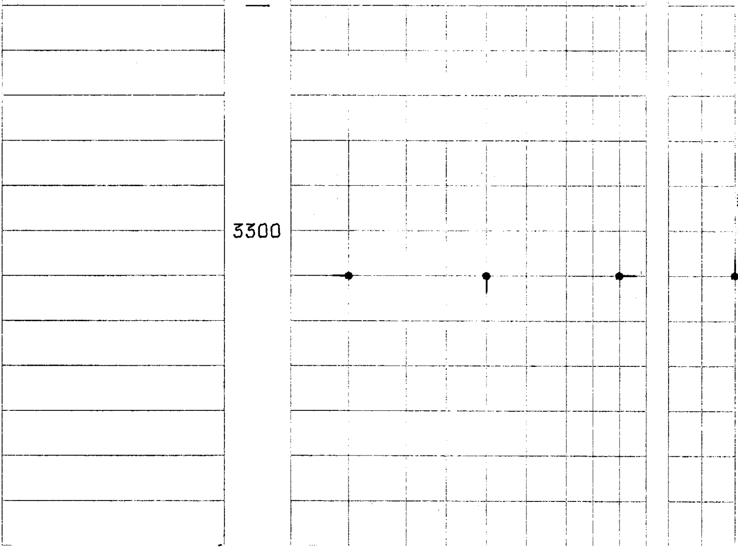
SCHLUMBERGER DIPMETER ARROW PLOT





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SCHLUMBERGER

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

COMPANY AMERICAN QUASAR

WELL A.Q.P.-LONGVIEW FIBRE 25-32 REDRILL NO. 1

FIELD MIST

COUNTY COLUMBIA STATE OREGON

Rm 2.46 @ 56 °F
Rmf 1.74 @ 52 °F
Rmc 2.26 @ 45 °F
BHT 96 °F

SCHL. FR 3250
SCHL. TD 3251
DRLR TD 3261
Elev:
KB 888
DF - -
GL 866