G00970

Schlumberger

FOUR-ARM HIGH RESOLUTION CONTINUOUS DIPMETER (COMPUTED)

COUNTY	GENTRY
FIELD or LOCATION	WILDCAT SEC. 18-63N-31W
WELL	QUINN NO. 1
COMPANY	ANSCHUTZ-N.C.R.A. DOW CHEMICAL CO.

COMPANY ANSCHUTZ CORPORATION, N.C.R.A. AND DOW CHEMICAL COMPANY

WELL QUINN NO. 1

RELEASED

FIELD WILDCAT

COUNTY GENTRY STATE MISSOURI

LOCATION SE-NE

Other Services: DIL CNL/FDC-GR

Sec. 18 Twp. 63N Rge. 31W

Permanent Datum: GROUND LEVEL, Elev. 990(EST)

Log Measured From K.B., --- Ft. Above Perm. Datum

Drilling Measured From K.B.

Elev.: K.B. ---, D.F. ---, G.L. 990(EST)

Date	11-18-74			
Run No.	ONE			
Depth—Driller	3420			
Depth—Logger	---			
Btm. Log Interval	2200			
Top Log Interval	1400			
Casing—Driller	--- @ ---	@	@	@
Casing—Logger	---			
Bit Size	7 7/8			
Type Fluid in Hole	FGM			
Dens. | Visc.	9.3 | 46			
pH | Fluid Loss	--- | --- ml	ml	ml	ml
Source of Sample	CIRCULATED			
R_m @ Meas. Temp.	1.64 @ 68 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	2.43 @ 66 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	--- @ --- °F	@ °F	@ °F	@ °F
Source: R_{mf} | R_{mc}	M | ---			
R_m @ BHT	0.91 @ 102 °F	@ °F	@ °F	@ °F
Time Since Circ.	7 HOURS			
Max. Rec. Temp.	102 °F	°F	°F	°F
Equip. | Location	7698 | PAMPA			
Recorded By	LOTT, CAMERON, LOVE			
Witnessed By	HALEY			

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	---			
HDM No.	---			
Magnetic Declination	10°E			
Analog Panel No.	---			
Digital Panel No.	---			
Correlated By	NOLCC			
Computed By	NOLCC			
Plotted By	NOLCC			
Remarks —				

"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)	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°)

CORRELATION CURVE DEPTHS DIP ANGLE AND DIRECTION BOREHOLE DRIFT

POOLED ARROW PLOT

2 LEVELS POOLED WHEN WITHIN

3.5 DEGREES SOLID ANGLE

BLACK ARROWS ARE POOLED RESULTS

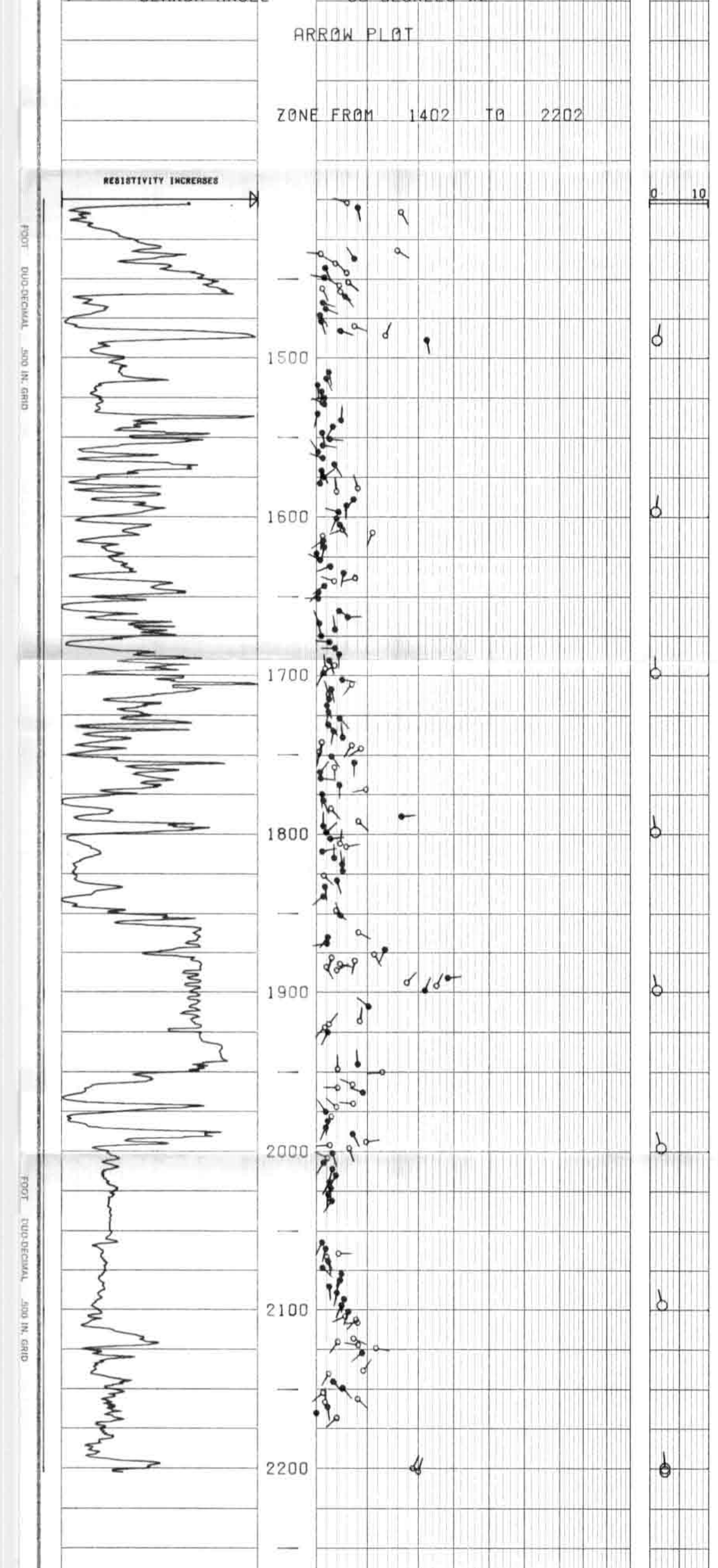
CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

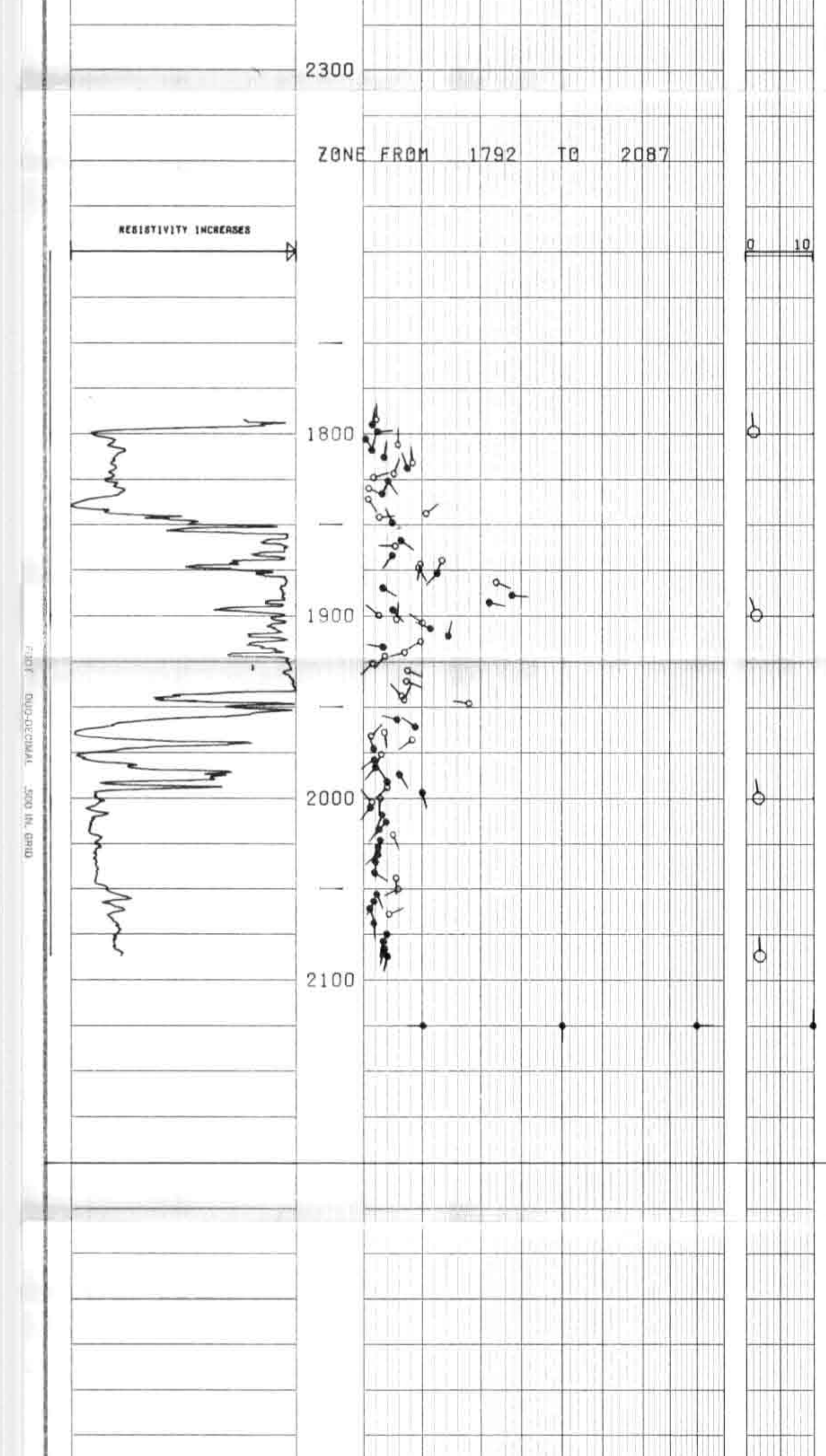
SEARCH ANGLE 30 DEGREES X2

ARROW PLOT

ZONE FROM 1402 TO 2202



ZONE FROM 1792 TO 2087



CORRELATION CURVE DEPTHS DIP ANGLE AND DIRECTION BOREHOLE DRIFT

ALL QUALITY ARROW PLOT

FROM THE CLUSTER PROGRAM

BLACK ARROWS ARE HIGHEST QUALITY

CORRELATION LENGTH 4 FT.

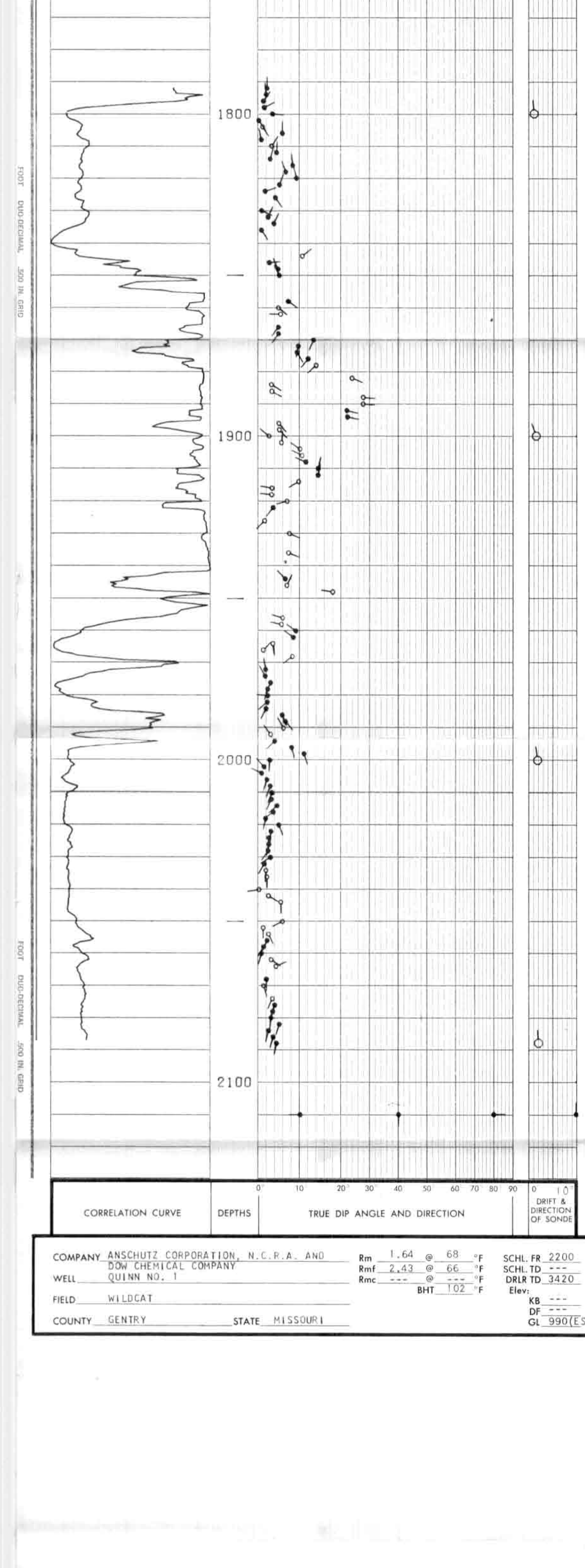
STEP LENGTH 2 FT.

SEARCH ANGLE 30 DEGREES X2

ARROW PLOT

ZONE FROM 1402 TO 2208

ZONE FROM 1792 TO 2088



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

COMPANY ANSCHUTZ CORPORATION, N.C.R.A. AND DOW CHEMICAL COMPANY

WELL QUINN NO. 1

FIELD WILDCAT

COUNTY GENTRY STATE MISSOURI

Rm 1.64 @ 68 °F
Rmf 2.43 @ 66 °F
Rmc --- @ --- °F
BHT 102 °F

SCHL. FR 2200
SCHL. TD ---
DRLR TD 3420
Elev: KB --- DF --- GL 990(EST)