GL04463-4

Schlumberger

FOUR-ARM HIGH RESOLUTION CONTINUOUS DIPMETER

COMPANY	CHEVRON OIL COMPANY
WELL	CHEVRON-ATR-GINN NO. 1-13
FIELD	MEIBLWIND VALLEY AREA
COUNTY	LANDER STATE NEVADA
LOCATION	CENTER OF THE SE-1/4, SE-1/4 OF
Other Services:	
Sec. 13 Twp. 31N Rge. 42E	
Permanent Datum: GL Elev. 4966.9	Elev.: K.B. 4980.4
Log Measured From: 13.5ft. Above Perm. Datum	D.F.
Drilling Measured From: KB	G.L. 4966.9

Date	11-23-76						
Run No.	ONE						
Depth-Driller	8500						
Depth-Logger	8493						
Bottom Log Interval	8493						
Top Log Interval	861						
Casing-Driller	13-3/8@812						
Casing-Logger	812						
Bit Size	12-1/4						
Type Fluid in Hole	G.P.						
Dens.	10.1						
Visc.	100						
pH	Fluid Loss	10.5	cc				
Source of Sample	P						
Rm @ Meas. Temp.	.82@	75					
Rmf @ Meas. Temp.	.55@	83	°F				
Rmc @ Meas. Temp.	.85@	75					
Source: Rmf	Rmc	P					
Rm @ BHT	.52@	154	°F				
Time Since Circ.	16 HRS.						
Max. Rec. Temp.	154	°F					
Equip. Location	7033	VERNAL					
Recorded By	HOUGAARD-EASTART						
Witnessed By	LANE-O'DELL						

Recorded By
Electrical Log Services
Houston, Texas 77072

REFERENCE K 26327Y

COMPLETION RECORD

SPUD DATE

COMP DATE

DST RECORD

API NO.

CASING RECORD

PERFORATING RECORD

ACID-FRAC SHOT

I.P.

GOR GR

T.P. C.P.

REMARKS:

© REPRODUCTION FOR RESALE PROHIBITED

Changes in Mud Type or Additional Samples				Run No.	1	2	3	4
Mud Sample No.				Bit Size	12-1/4			
Depth Sampled				Hole Size	13.5			
Type Fluid in Hole				Depth Driller	8500			
				Depth Logged	8493			
Dens.	Visc.			Casing Driller	13-3/8@812			
pH	Fluid Loss		cc	Casing Logged	812			
Source of Sample				Recorded By	HOUGAARD-ELIC			
Rm @ Meas. Temp.	@		°F	Witnessed By	LANE-O'DELL			
Rmf @ Meas. Temp.	@		°F	Remarks:	SS #2003			
Rmc @ Meas. Temp.	@		°F		JOB NO. 453			
Source: Rmf Rmc								
Rm @ BHT	@		°F					
Rmf @ BHT	@		°F					
Rmc @ BHT	@		°F					

In elevated composites with low Rm dipmeter log could be expected to appreciate with Rm. Because the dipmeter log indicates the variations of resistivity and rather than the absolute and amount of the cell of the dipmeter, we do not guarantee accuracy of the dipmeter measurements. Dipmeter log will be valid only for period of initial engagement of the pad, as it is in no responsible for any due time changes or engineers error or a variation in the pad force and pad contamination.

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 ANGLE	1	1 w.w. (HORIZ.)			DIP ANGLE (degrees)	100'	1000'	1 w.w. (HORIZ.)
degrees	100'	1000'	1 w.w.		1	1.75	17.5	92.2
1	1.75	17.5	92.2		2	3.5	35	184.4
2	3.5	35	184.4		3	5.2	52.4	276.6
3	5.2	52	276.6		4	7.0	70	368.8
4	7.0	70	368.8		5	8.8	88	461.2
5	8.8	88	461.2		6	10.5	105	553.6
6	10.5	105	553.6		7	12.3	123	646.0
7	12.3	123	646.0		8	14.1	141	738.4
8	14.1	141	738.4		9	15.8	158	830.8
9	15.8	158	830.8		10	17.6	176	923.2
10	17.6	176	923.2		11	19.4	194	1015.6
11	19.4	194	1015.6		12	21.1	211	1108.0
12	21.1	211	1108.0		13	22.9	229	1200.4
13	22.9	229	1200.4		14	24.7	247	1292.8
14	24.7	247	1292.8		15	26.4	264	1385.2
15	26.4	264	1385.2		16	28.2	282	1477.6
16	28.2	282	1477.6		17	29.9	299	1570.0
17	29.9	299	1570.0		18	31.7	317	1662.4
18	31.7	317	1662.4		19	33.5	335	1754.8
19	33.5	335	1754.8		20	35.2	352	1847.2
20	35.2	352	1847.2		21	37.0	370	1939.6
21	37.0	370	1939.6		22	38.8	388	2032.0
22	38.8	388	2032.0		23	40.5	405	2124.4
23	40.5	405	2124.4		24	42.3	423	2216.8
24	42.3	423	2216.8		25	44.1	441	2309.2
25	44.1	441	2309.2		26	45.8	458	2401.6
26	45.8	458	2401.6		27	47.6	476	2494.0
27	47.6	476	2494.0		28	49.4	494	2586.4
28	49.4	494	2586.4		29	51.1	511	2678.8
29	51.1	511	2678.8		30	52.9	529	2771.2
30	52.9	529	2771.2		31	54.7	547	2863.6
31	54.7	547	2863.6		32	56.4	564	2956.0
32	56.4	564	2956.0		33	58.2	582	3048.4
33	58.2	582	3048.4		34	60.0	600	3140.8
34	60.0	600	3140.8		35	61.8	618	3233.2
35	61.8	618	3233.2		36	63.5	635	3325.6
36	63.5	635	3325.6		37	65.3	653	3418.0
37	65.3	653	3418.0		38	67.1	671	3510.4
38	67.1	671	3510.4		39	68.8	688	3602.8
39	68.8	688	3602.8		40	70.6	706	3695.2
40	70.6	706	3695.2		41	72.4	724	3787.6
41	72.4	724	3787.6		42	74.1	741	3880.0
42	74.1	741	3880.0		43	75.9	759	3972.4
43	75.9	759	3972.4		44	77.7	777	4064.8
44	77.7	777	4064.8		45	79.4	794	4157.2
45	79.4	794	4157.2		46	81.2	812	4249.6
46	81.2	812	4249.6		47	83.0	830	4342.0
47	83.0	830	4342.0		48	84.7	847	4434.4
48	84.7	847	4434.4		49	86.5	865	4526.8
49	86.5	865	4526.8		50	88.3	883	4619.2
50	88.3	883	4619.2		51	90.0	900	4711.6
51	90.0	900	4711.6		52	91.8	918	4804.0
52	91.8	918	4804.0		53	93.6	936	4896.4
53	93.6	936	4896.4		54	95.3	953	4988.8
54	95.3	953	4988.8		55	97.1	971	5081.2
55	97.1	971	5081.2		56	98.9	989	5173.6
56	98.9	989	5173.6		57	100.6	1006	5266.0
57	100.6	1006	5266.0		58	102.4	1024	5358.4
58	102.4	1024	5358.4		59	104.2	1042	5450.8
59	104.2	1042	5450.8		60	105.9	1059	5543.2
60	105.9	1059	5543.2		61	107.7	1077	5635.6
61	107.7	1077	5635.6		62	109.4	1094	5728.0
62	109.4	1094	5728.0		63	111.2	1112	5820.4
63	111.2	1112	5820.4		64	113.0	1130	5912.8
64	113.0	1130	5912.8		65	114.7	1147	6005.2
65	114.7	1147	6005.2		66	116.5	1165	6097.6
66	116.5	1165	6097.6		67	118.3	1183	6190.0
67	118.3	1183	6190.0		68	120.0	1200	6282.4
68	120.0	1200	6282.4		69	121.8	1218	6374.8
69	121.8	1218	6374.8		70	123.6	1236	6467.2
70	123.6	1236	6467.2		71	125.3	1253	6559.6
71	125.3	1253	6559.6		72	127.1	1271	6652.0
72	127.1	1271	6652.0		73	128.9	1289	6744.4
73	128.9	1289	6744.4		74	130.6	1306	6836.8
74	130.6	1306	6836.8		75	132.4	1324	6929.2
75	132.4	1324	6929.2		76	134.2	1342	7021.6
76	134.2	1342	7021.6		77	135.9	1359	7114.0
77	135.9	1359	7114.0		78	137.7	1377	7206.4
78	137.7	1377	7206.4		79	139.4	1394	7298.8
79	139.4	1394	7298.8		80	141.2	1412	7391.2
80	141.2	1412	7391.2		81	143.0	1430	7483.6
81	143.0	1430	7483.6		82	144.7	1447	7576.0
82	144.7	1447	7576.0		83	146.5	1465	7668.4
83	146.5	1465	7668.4		84	148.3	1483	7760.8
84	148.3	1483	7760.8		85	150.0	1500	7853.2
85	150.0	1500	7853.2		86	151.8	1518	7945.6
86	151.8	1518	7945.6		87	153.6	1536	8038.0
87	153.6	1536	8038.0		88	155.3	1553	8130.4
88	155.3	1553	8130.4		89	157.1	1571	8222.8
89	157.1	1571	8222.8		90	158.9	1589	8315.2
90	158.9	1589	8315.2					

To obtain vertical displacement 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: For 1000 feet dip is 10 degrees. The vertical displacement occurring in a 1000 foot horizontal from the well is desired. The table shows 176.7 feet and 1530 feet for 10° dip. Therefore 176.7 + 0.00 = 1876.7 or 1877 feet.

GRAPHIC PRESENTATION

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

CORRELATION CURVE DEPTHS DIP ANGLE AND DIRECTION ABSOLUTE DEPTH

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

ALL QUALITY ARROW PLOT 00452

BLACK ARROW IN TOP 70 PERCENT

CORRELATION LENGTH 8 FT.

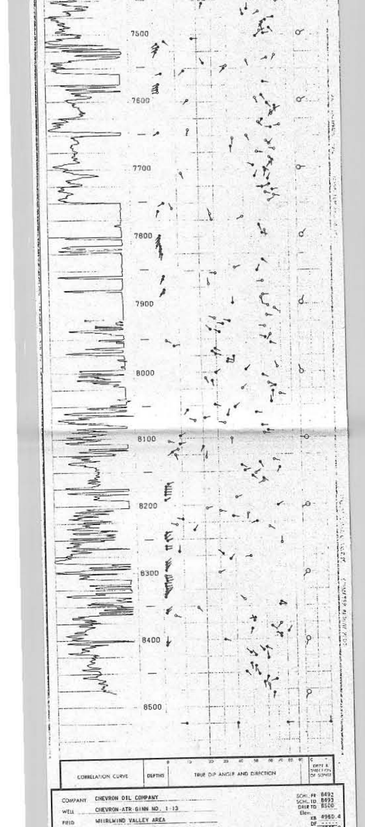
STEP LENGTH 4 FT.

SEARCH ANGLE 70 DEGREES X1

ARROW PLOT

ZONE FROM 7016 TO 8480

RELATIVITY INCHES



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

COMPANY	CHEVRON OIL COMPANY
WELL	CHEVRON-ATR-GINN NO. 1-13
FIELD	MEIBLWIND VALLEY AREA
COUNTY	LANDER STATE NEVADA

SCH. # 8452
SCH. ID 8493
DATE ID 8500
Elev.
K.B. 4980.4
D.F.
G.L. 4966.9