



Dipmeter

COUNTY POLK
FIELD or LOCATION HOLMES GAP AREA
WELL ROY-L&G-BRUER NO. 1
COMPANY RESERVE OIL AND GAS COMPANY
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WELL ROY-L&G-BRUER NO. 1
FIELD HOLMES GAP AREA
LOCATION 31-65-4W
COUNTY POLK
STATE OREGON
Other Surveys I-ES, SL
Location of Well 2334 FT S & 1855 FT W FROM NE COR SEC 31
Elevation: D.F.: 358
K.B.: 345
or G.L.: 345
FILING NO.

RUN No.	ONE	TWO	THREE	FOUR	FIVE
Date	6-1-60				
First Reading	5523				
Last Reading	530				
Feet Measured	4993				
Csg. Schlum.	530				
Csg. Driller	529				
Depth Reached	5527				
Bottom Driller	5549				
Depth Datum	KB				
Mud Nature	GEL				
Dens. Visc.	84. 60				
Mud Resist.	095 @ 78°F	@	@	@	@
Res. BHT	062 @ 122°F	@	@	@	@
" PH	9 @ 78°F	@	@	@	@
" Wtr. Loss	6.2 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	REMARKS				
Type Equip.	CDM-P				
DCM No.	23A				
Truck Number	2532 SAC				
Mag. Decl.	20°E				
Recorded By	STRONG				
Witnessed By	L. E. ROY				
Computed By	ODONNELL				

REMARKS BIT SIZE: 9/8-5529, 7/8-5549

TABLE OF VERTICAL DISPLACEMENT IN FEET CORRESPONDING TO VARIOUS HORIZONTAL DISTANCES AND ANGLES OF DIP

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

STATION	Depth Interval	FROM MAGNETIC NORTH						FROM TRUE NORTH			REMARKS		
		Drift Azimuth	Drift Angle	Orient No. I	Displacement of curves in reference to I		Hole Dia	Direction	Dip	AVERAGE DIRECTION		AV DIP	Graph of Direction
1	582 to 600	230	1°00	285	NO APPARENT DISPLACEMENT OF CURVES								GOOD
2	812 to 830	105	1°30	170	NO APPARENT DISPLACEMENT OF CURVES								FAIR
3	1294 to 1312	110	1°15	195	NO APPARENT DISPLACEMENT OF CURVES								FAIR
4	1776 to 1794	140	1°15	25	NO APPARENT DISPLACEMENT OF CURVES								FAIR
5	2116 to 2134	5	0°45	120	NO APPARENT DISPLACEMENT OF CURVES								FAIR
6	2810 to 2826	240	2°45	240	0	0	10 1/2	60	3°	N80E	3°		GOOD
7	3278 to 3296	265	2°45	335	0	0	10 1/2	85	3°	S75E	3°		WEAK
8	3858 to 3876	300	3°30	150	0	0	10 3/4	120	3°	S30E	3°		WEAK
9	4156 to 4174	300	2°30	20	POSSIBILITY OF A 3° DIP IN DIRECTION S30E								
10	4482 to 4500	350	3°00	240	0	0	11	287	9°	N43W	9°		FAIR

LEGEND

- EXCELLENT** - Nearly perfect correlation between the curves and rotation to a minimum.
- GOOD** - Obvious correlation, yet maybe a slight averaging of orientation between top and bottom of the level.
- FAIR** - Correlation may not be readily seen, but would be agreeable to anyone familiar with Dipmeter calculations.
- WEAK** - Lack of precision as to either or both amount of displacement and direction of dip.
- POSSIBILITY** - Very doubtful due to lack of repetition of curves. Spot correlation sometimes may be used, but not reliable.