

INCLINATION REPORT

Field Name Baish-Wolfcamp County Lea State New Mexico
Operator Kirby Exploration Company Address 312 North Big Spring Midland, Texas 79701
Lease Name & No. Kirby - Hudson Federal Well No. 1 Survey Totco

15-17-82

RECORD OF INCLINATION

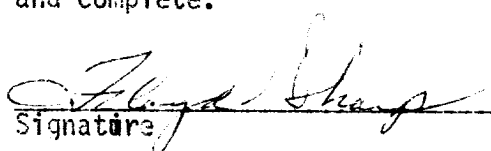
Depth (feet)	Angle of Inclination (degrees)	Displacement (feet)	Accumulative Displacement (feet)
460	1/4	1.79	1.79
1061	1/2	5.29	7.08
1460	1/4	1.70	8.84
1842	1/2	3.36	12.20
2289	1/4	1.97	14.17
2335	1/4	.42	14.59
2823	3/4	5.94	20.53
3060	3/4	3.10	23.63
3475	1/2	3.65	27.28
3895	3/4	5.50	32.78
4190	3/4	3.06	46.64
4365	3/4	2.29	38.93
4650	3/4	3.73	42.66
4730	3/4	1.05	43.71
5145	3/4	5.44	49.15
5490	3/4	4.52	53.67
6290	1	14.00	67.67
6690	1	7.00	74.67
6980	2 1/4	11.40	86.07
7200	3/4	2.88	88.95
7345	3/4	1.90	90.35
7740	3/4	5.17	96.02
7790	1/4	.22	96.24
8196	1/4	1.79	98.03
8600	3/4	5.29	103.32
8940	3/4	4.45	107.77
9345	1	7.09	114.86
9754	3/4	5.36	120.22
10,145	3/4	5.12	125.34
10,448	1	5.30	130.64
10,550	3/4	1.34	131.98
10,718	1	2.94	134.92
10,920	1 1/4	4.40	139.32
11,030	1 3/4	3.36	142.68
11,085	1 1/2	1.44	144.12
11,211	2	4.40	148.52
11,270	1 1/2	1.55	150.07
11,330	1 1/4	1.31	151.38
11,422	1	1.61	152.99
11,519	1 1/4	2.11	155.10
11,607	1	1.54	156.64
11,695	1	1.54	158.18

Total displacement 158.18

Survey was run in Open hole Distance to the nearest lease line 1980 feet

Certification of personal knowledge of Inclination Data:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information given above is true and complete.


Signature

Harcum Drilling Company
Company