

PARKER DRILLING COMPANY
RIG #170
INCLINATION REPORT

CNG Producing Company
Bar 4 Federal #1 *1830.5 6-1-14*
~~1980 FSL 990 FWL~~ Sec. 4 25S-29E
Eddy Co., New Mexico

Measured Depth (Ft)	Course Length (100's Ft)	Angle of Inclination (Degrees)	Displacement /100 Ft	Course Displacement (Ft)	Accumulative Displacement (Ft)
9230	1.88	2.00	3.49	6.56	223.68
9514	2.84	1.25	2.18	6.19	229.87
9836	3.22	1.00	1.75	5.64	235.50
10100	2.64	1.00	1.75	4.62	240.12
10448	3.48	1.25	2.18	7.59	247.71
10790	3.42	1.50	2.62	8.96	256.67
11069	2.79	1.75	3.05	8.51	265.18
11377	3.08	1.25	2.18	6.71	271.89
11595	2.18	1.00	1.75	3.82	275.71
11870	2.75	2.00	3.49	9.60	285.31
12320	4.50	1.50	2.62	11.79	297.10
12362	0.42	1.25	2.18	0.92	298.01
12380	0.18	1.00	1.75	0.32	298.33
12395	0.15	1.25	2.18	0.33	298.65
12631	2.36	4.75	8.28	19.54	318.20
13173	5.42	2.25	3.93	21.30	339.50
13540	3.67	1.50	2.62	9.62	349.11

Accumulative total displacement of well bore at total depth of 13,540'=349.11'.

Inclination measurements were made in - Drill pipe.

Notary Seal

Subscribed and sworn to before me this 11th day of May 1988

Glenda J. Parker Tulsa, Oklahoma
Notary Public County

My commission expires November 9, 1989.

INCLINATION DATA CERTIFICATION

Harold Jennings
Signature of Authorized Representative

Harold Jennings
Name of Person and Title (type or print)
Administrative Manager
PARKER DRILLING COMPANY
Name of Company

Telephone: (918) 585-8221
Area Code

OPERATOR CERTIFICATION

Susan Lacy
Signature of Authorized Representative

Susan Lacy, Engr. Tech.
Name of Person and Title (type or print)
CNG Producing Co-Tulsa Div.
Operator

Telephone: 918 594-3823
Area Code

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Bar 4 Federal #1

~~1980 FSL 990 FWL~~ Sec. 4 25S-29E

Eddy Co., New Mexico

1830/5 660/41

Measured Depth (Ft)	Course Length (100's Ft)	Angle of Inclination (Degrees)	Displacement /100 Ft	Course Displacement (Ft)	Accumulative Displacement (Ft)
118	1.18	0.50	0.87	1.03	1.03
228	1.10	0.25	0.44	0.48	1.51
522	2.94	1.00	1.75	5.15	6.66
705	1.83	1.00	1.75	3.20	9.86
810	1.05	1.75	3.05	3.20	13.06
904	0.94	1.75	3.05	2.87	15.93
997	0.93	1.75	3.05	2.84	18.76
1092	0.95	1.50	2.62	2.49	21.25
1239	1.47	2.00	3.49	5.13	26.38
1275	0.36	1.75	3.05	1.10	27.48
1369	0.94	1.75	3.05	2.87	30.35
1511	1.42	1.25	2.18	3.10	33.44
1618	1.07	1.25	2.18	2.33	35.78
1806	1.88	1.50	2.62	4.93	40.70
2005	1.99	1.50	2.62	5.21	45.92
2160	1.55	1.25	2.18	3.38	49.30
2253	0.93	2.75	4.80	4.46	53.76
2406	1.53	2.75	4.80	7.34	61.10
2531	1.25	3.00	5.23	6.54	67.64
2623	0.92	4.00	6.98	6.42	74.06
2673	0.50	3.50	6.10	3.05	77.11
2704	0.31	3.50	6.10	1.89	79.00
2718	0.14	3.50	6.10	0.85	79.86
2767	0.49	3.25	5.67	2.78	82.64
2781	0.14	3.00	5.23	0.73	83.37
2873	0.92	2.00	3.49	3.21	86.58
2920	0.47	2.00	3.49	1.64	88.22
2979	0.59	1.25	2.18	1.29	89.50
3322	3.43	1.00	1.75	6.00	95.51
3793	4.71	0.75	1.31	6.17	101.68
4292	4.99	0.50	0.87	4.34	106.02
4792	5.00	0.25	0.44	2.20	108.22
5290	4.98	1.50	2.62	13.05	121.27
5477	1.87	0.50	0.87	1.63	122.89
5977	5.00	1.00	1.75	8.75	131.64
6389	4.12	0.50	0.87	3.58	135.23
6888	4.99	1.75	3.05	15.22	150.45
7044	1.56	2.25	3.93	6.13	156.58
7137	0.93	1.75	3.05	2.84	159.41
7223	0.86	1.75	3.05	2.62	162.04
7380	1.57	1.50	2.62	4.11	166.15
7631	2.51	1.25	2.18	5.47	171.62
7880	2.49	1.25	2.18	5.43	177.05
8034	1.54	1.75	3.05	4.70	181.75
8208	1.74	2.25	3.93	6.84	188.59
8302	0.94	2.00	3.49	3.28	191.87
8395	0.93	1.75	3.05	2.84	194.70
8520	1.25	2.00	3.49	4.36	199.07
8645	1.25	1.75	3.05	3.81	202.88
8800	1.55	1.75	3.05	4.73	207.61