

**Well Name and Number:** McGruder 13 Fed Com. 1

**Location:** Sec. 13, T22S, R25E, Eddy County, New Mexico

**Operator:** Louis Dreyfus Natural Gas Company

**Drilling Contractor:** McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
¼ 171	9.21 N 73.7 E 5621	22.3 N 88.4 E 9329
1 355	17 N 63.1 NE 6000	12 N 88.5 E 9697
2 ½ 718	21.7 N 60 E 6249	6.8 N 89.1 E 9951
3 856	25.3 N 64.4 E 6525	6.5 N 89.1 E 9998
2 ¾ 1216	21.3 N 68 E 6829	5.8 N 87.9 E 10103
2 1556	21 N 6991	23 N 86.0 E 10294
1 ¼ 2058	26.3 N 74.3 E 7453	½ N 86.9 E 10557
½ 2570	27.7 N 72.9 E 7858	O S 71.2 E 10767
½ 3058	27.9 N 74.9 E 8076	.8 N 58 W 10906
¾ 4016	23.2 N 80.0 E 8500	1 N 52 W 10927
1 ½ 4497	24.9 N 89.6 E 8695	1 ½ N 70 W 11316
½ 5000	24.8 S 77 E 8822	1 ½ N 85 W 11523
1 5200	23.1 S 89.8 E 9100	2 ¼ N 70 W 11708

**Drilling Contractor:** McVay Drilling Company

**By:** Jan Kypas

Subscribed and sworn to before me this 20th day of January, 1998.

Tina Hemens

**Notary Public**

**My Commission Expires:** 6-16-2001

**Lea County, New Mexico**