



CACTUS DRILLING COMPANY, L.L.C.
REPORT OF PROOF OF APPARENT DEVIATION
NEW MEXICO

OPERATOR CIMAREX ENERGY CO
600 EAST LAS COLINAS BLVD. STE 1100
IRVING, TX 75039

FIELD NAME _____

COUNTY/PARISH EDDY _____

WELL NAME & NO. MCGRUDER 13 FEDERAL #3 _____

LEGAL SEC 13-22S-25E _____

MEASURED DEPTH (FT)	COURSE LENGTH (HUNDREDS OF FT)	ANGLE OF INCLINATION (DEGREES)	DISPLACEMENT PER HUNDRED FT (SINE OF ANGLE X 100)	COURSE DISPLACEMENT (FEET)	ACCUMULATIVE DISPLACEMENT (FEET)	REMARKS
15	0.15	0	0.1396	0.02	0.02	
625	6.10	1/3	0.5410	3.30	3.32	
1071	4.46	1 1/6	2.0419	9.11	12.43	
1525	4.54	5/7	1.2392	5.63	18.05	
2025	5.00	3/4	1.3264	6.63	24.69	
2394	3.69	1/2	0.9425	3.48	28.16	
3138	7.44	3/5	1.0472	7.79	35.95	
3685	5.47	1/3	0.5934	3.25	39.20	
4185	5.00	5/8	1.0821	5.41	44.61	
4669	4.84	1 4/5	3.1236	15.12	59.73	
5169	5.00	1 1/3	2.3385	11.69	71.42	
5464	2.95	1	1.7976	5.30	76.72	
5964	5.00	3/4	1.2741	6.37	83.10	

NOTARY
SEAL
PUBLIC

LESLIE N. KIDD
Oklahoma County
Notary Public in and for
State of Oklahoma
Commission # 03003457 Expires 2/27/07

Leslie N. Kidd