



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

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

FIELD NAME _____

COUNTY/PARISH LEA _____

WELL NAME & NO. MESCALERO 19 FED #2 *VCm*

LEGAL SEC 19-19S-34E

Unit L 1650/S + 990/W

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
240	2.40	2/3	1.1868	2.85	2.85	
593	3.53	2/9	0.4014	1.42	4.27	
1098	5.05	1	1.5882	8.02	12.29	
1613	5.15	1/2	0.8727	4.49	16.78	
1900	2.87	1	1.7452	5.01	21.79	
2235	3.35	1/2	0.8727	2.92	24.71	
2535	3.00	1/2	0.8727	2.62	27.33	
2828	2.93	1/2	0.8727	2.56	29.89	
3143	3.15	1/2	0.8727	2.75	32.64	
3436	2.93	1/2	0.8727	2.56	35.19	
3720	2.84	1/2	0.8727	2.48	37.67	
4037	3.17	1/2	0.8727	2.77	40.44	
4321	2.84	1/2	0.8727	2.48	42.92	
4650	3.29	1/2	0.8727	2.87	45.79	
5015	3.65	1/2	0.8727	3.19	48.97	
5291	2.76	1/2	0.8727	2.41	51.38	
5588	2.97	1/2	0.8727	2.59	53.97	
5864	2.76	1/2	0.8727	2.41	56.38	
6160	2.96	1/2	0.8727	2.58	58.96	
6500	3.40	7/9	1.3439	4.57	63.53	
6797	2.97	1/2	0.8727	2.59	66.12	
7052	2.55	1/2	0.8727	2.23	68.35	
7431	3.79	1/2	0.8727	3.31	71.66	
7752	3.21	1/2	0.8727	2.80	74.46	
8430	6.78	1/2	0.8727	5.92	80.38	
8644	2.14	1	1.7452	3.73	84.11	
8690	0.46	2	3.4899	1.61	85.72	
8795	1.05	1 1/3	2.2687	2.38	88.10	
8878	0.83	1 1/4	2.2164	1.84	89.94	
9078	2.00	1/2	0.8727	1.75	91.68	
9278	2.00	1/2	0.8727	1.75	93.43	
9447	1.69	1	1.7452	2.95	96.38	
9555	1.08	1/4	0.4363	0.47	96.85	
9785	2.30	1/2	0.8727	2.01	98.86	
9970	1.85	1	1.7452	3.23	102.08	
10124	1.54	1/2	0.8727	1.34	103.43	
10180	0.56	1/2	0.8727	0.49	103.92	
10348	1.68	1/2	0.8727	1.47	105.38	
10505	1.57	1/2	0.8552	1.34	106.73	
10675	1.70	1/2	0.8727	1.48	108.21	
10771	0.96	1/2	0.8727	0.84	109.05	
10932	1.61	3/7	0.7330	1.18	110.23	
11316	3.84	1/2	0.8727	3.35	113.58	
11433	1.17	1/2	0.8727	1.02	114.60	
11570	1.37	1/2	0.8727	1.20	115.79	
11774	2.04	1/2	0.8727	1.78	117.57	
11964	1.90	1/2	0.8727	1.66	119.23	
12113	1.49	1/2	0.8727	1.30	120.53	
12303	1.90	1/2	0.8727	1.66	122.19	
12595	2.92	1	1.7452	5.10	127.29	
12880	2.85	1/2	0.8727	2.49	129.77	
13190	3.10	1/2	0.8727	2.71	132.48	

10/3/2006

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

Leslie N. Kidd
10-26-07