



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

30-015-38296

OPERATOR CIMAREX CO OF COLORADO
600 N MARIENFELD ST
MIDLAND, TX 79701

FIELD NAME _____

COUNTY/PARISH EDDY

WELL NAME & NO. PENNY PINCHER FED COM 3

LEGAL SEC 21-19S-31E ^{SL} .B 330 FNL 2310 FE

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
163	1.63	1/2	0.8727	1.42	1.42	
245	0.82	1/2	0.8727	0.72	2.14	
282	0.37	1/2	0.8727	0.32	2.46	
401	1.19	1/2	0.8727	1.04	3.50	
409	0.08	1/2	0.8727	0.07	3.57	
610	2.01	1/2	0.8727	1.75	5.32	
802	1.92	1/2	0.8727	1.68	7.00	
1098	2.96	1/2	0.8727	2.58	9.58	
1385	2.87	1/2	0.8727	2.50	12.09	
1674	2.89	1/2	0.8727	2.52	14.61	
1947	2.73	1/2	0.8727	2.38	16.99	
2244	2.97	1/2	0.8727	2.59	19.58	
2470	2.26	1/2	0.8727	1.97	21.55	
2976	5.06	1/2	0.8727	4.42	25.97	
3479	5.03	1/2	0.8727	4.39	30.36	
3979	5.00	1	1.7452	8.73	39.09	
4278	2.99	1/2	0.8727	2.61	41.70	
4684	4.06	1	1.7452	7.09	48.78	
4984	3.00	1/2	0.8727	2.62	51.40	
5407	4.23	1/2	0.8727	3.69	55.09	
5888	4.81	1/2	0.8727	4.20	59.29	
6275	3.87	1/2	0.8727	3.38	62.66	
6677	4.02	1/2	0.8727	3.51	66.17	
7078	4.01	0	0.0000	0.00	66.17	
7522	4.44	1/2	0.8727	3.87	70.05	
7895	3.73	0	0.0000	0.00	70.05	
8293	3.98	1/2	0.8727	3.47	73.52	
8674	3.81	1/2	0.8727	3.32	76.85	
9264	5.90	1/2	0.8727	5.15	81.99	

RECEIVED
AUG 4 2011
NMOCD ARTESIA

NOTARY PUBLIC
LESLIE N. KIDD
Notary Public
State of Oklahoma
Commission # 07002370 Expires 03/07/15

Leslie N. Kidd

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4/26/2011