

15-38987



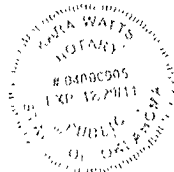
CACTUS DRILLING COMPANY, L.L.C.

REPORT OF PROOF OF APPARENT DEVIATION
NEW MEXICOOPERATOR CIMAREX CO OF COLORADO603 N. MARIENFELD ST
MIDLAND, TX 79701

FIELD NAME _____

COUNTY/PARISH EDDYWELL NAME & NO WEST SHUGART 31 FED COM 5LEGAL SEC 31-18S-31E

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
336	3.36	1/2	0.8727	2.93	2.93	
816	4.80	1	1.7452	8.38	11.31	
1066	2.50	1/2	0.8727	2.18	13.49	
1536	4.70	1/2	0.8727	4.10	17.59	
2029	4.93	1/2	0.8727	4.30	21.89	
2496	4.67	1/2	0.8727	4.08	25.97	
2986	4.90	1/2	0.8727	4.28	30.25	
3496	5.10	1	1.7452	8.90	39.15	
3719	2.23	1/2	0.8727	1.95	41.09	
4209	4.90	1/2	0.8727	4.28	45.37	
4709	5.00	1/2	0.8727	4.36	49.73	
5256	5.57	1/2	0.8727	4.86	54.59	
5709	4.43	1/2	0.8727	3.87	58.46	
6164	4.55	1	1.8325	8.34	66.80	
6607	4.43	1	1.7452	7.73	74.53	
7107	5.00	1/2	0.8727	4.36	78.89	
7533	4.26	1 1/5	2.1117	9.00	87.89	
8075	5.42	1/2	0.8026	4.35	92.24	



Kara Watts
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 Exp 12/29/2011

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10/17/2011