



CACTUS DRILLING COMPANY, L.L.C.

REPORT OF PROOF OF APPARENT DEVIATION
NEW MEXICO

OPERATOR CIMAREX ENERGY CO OF CO

600 N. Marienfeld St

Midland, TX 79701

FIELD NAME

COUNTY/PARISH EDDY

WELL NAME & NO. GLYCERIN 10 FED #2

LEGAL SEC 10-16S-29E

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
420	4.20	1	1.7452	7.33	7.33	
1093	6.73	1	1.7452	11.75	19.08	
1372	2.79	2	3.4899	9.74	28.81	
1665	2.93	1	1.7452	5.11	33.93	
2007	3.42	1	1.7452	5.97	39.89	
2465	4.58	1	1.7452	7.99	47.89	
2921	4.56	1	1.7452	7.96	55.85	
3480	5.59	1	1.7452	9.76	65.60	
3900	4.20	1	1.7452	7.33	72.93	
4325	4.25	1	1.7452	7.42	80.35	
4805	4.80	1	1.7452	8.38	88.73	
5280	4.75	1	1.7452	8.29	97.02	
6311	10.31	1	1.7452	17.99	115.01	
6783	4.72	1	1.7452	8.24	123.25	
7283	5.00	2	3.4899	17.45	140.70	

Leslie N. Kidd
6-22-10

LESLIE N. KIDD
NOTARY PUBLIC - STATE OF OKLAHOMA
MY COMMISSION EXPIRES: MARCH 07, 2011
MY COMMISSION # 07002370

P.O. Box 270848 • Oklahoma City, OK 73137-0848
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6/22/2010

Acid, Fracture, Treatment, Cement Squeeze, etc. Attachment

Glycerin 10 Federal Com No. 2

10-16S-29E

Eddy County, NM

Depth Interval	Amount and Type of Material Used
Stage 1 11142-11390	2789 gal 15% HCL, 2982 gal 15% XL HCL, 27,867 gal slickwater and 94,572 gal 20# XL Borate carrying 47,056# 20/40 white sand and 26,943# 20/40 SB Excel sand
Stage 2 10500-11142	3430 gal 15% HCL, 4485 gal 15% XL HCL, 26,120 gal slickwater and 92,396 gal 20# XL Borate carrying 48,385# 20/40 white sand and 18,665# 20/40 SB Excel sand
Stage 3 10034-10500	3485 gal 15% HCL, 2431 gal 15% XL HCL, 25,477 gal slickwater and 103,415 gal 20# XL Borate carrying 51,038# 20/40 white sand and 21,544# 20/40 SB Excel sand
Stage 4 9512-10034	3548 gal 15% HCL, 3626 gal 15% XL HCL, 32,677 gal slickwater and 93,859 gal 20# XL Borate carrying 50,595# 20/40 white sand and 25,582# 20/40 SB Excel sand
Stage 5 8990-9512	4447 gal 15% HCL, 2501 gal 15% XL HCL, 50,639 gal slickwater and 108,096 gal 20# XL Borate carrying 52,502# 20/40 white sand and 22,821# 20/40 SB Excel sand
Stage 6 8468-8990	2594 gal 15% HCL, 2321 gal 15% XL HCL, 22,548 gal slickwater and 95,812 gal 20# XL Borate carrying 50,158# 20/40 white sand and 25,747# 20/40 SB Excel sand
Stage 7 7952-8468	2462 gal 15% HCL, 2372 gal 15% XL HCL, 35.285 gal slickwater and 97.115 gal 20# XL Borate carrying 46.719# 20/40 white sand and 30.593# 20/40 SB Excel sand
Stage 8 7524-7952	2237 gal 15% HCL, 6597 gal 15% XL HCL, 20,436 gal slickwater and 94,415 gal 20# XL Borate carrying 54,329# 20/40 white sand and 23,833# 20/40 SB Excel sand
Stage 9 6758-7524	3725 gal 15% HCL, 6054 gal 15% XL HCL, 38,856 gal slickwater and 93,911 gal 20# XL Borate carrying 39,876# 20/40 white sand and 7439# 20/40 SB Excel sand