



PO Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

30 015 41058

July 9, 2013

Devon Energy Production Co., LP
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

Attn: Patti Riechers

Re: **Cerf 10 Federal No 003H**

Please find enclosed a copy of the survey from 0' to 5,810.48' ran on the above referenced well.

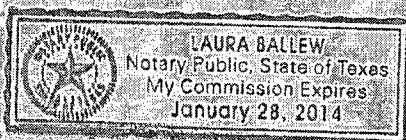
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 9th day of July, A.D., 2013, by Keith Havelka.



Laura Ballew
Laura Ballew
Notary Public, State of Texas

devon

Company: DEVON ENERGY
Lease/Well: CERF 10 FEDERAL/No 003H

Rig Name: CACTUS 126
State/County: NEW MEXICO/EDDY
Latitude: 32.50 Longitude: -104.19
GRID North is 0.08 Degrees East of True North
VS-Azi: 0.00 Degrees

VES

Depth Reference: RKB= 25 FT

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: slickdrop.ut
Minimum Curvature Method
Report Date/Time: 7/9/2013 / 12:57

Vaughn Energy Services
Midland, Texas
432-563-5444

Surveyor: Danny Spring
CERF 10 Federal No 003H / API 30-015-41058

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
68.07	0.32	20.69	68.07	0.18	0.07	0.18	0.19	20.69	0.47
162.74	0.49	49.91	162.74	0.69	0.47	0.69	0.83	34.46	0.28
257.41	0.70	29.45	257.40	1.45	1.07	1.45	1.80	36.29	0.31
352.08	0.55	23.76	352.07	2.37	1.53	2.37	2.82	32.89	0.17
446.75	0.48	69.84	446.73	2.93	2.09	2.93	3.60	35.58	0.43
541.42	0.50	40.62	541.40	3.37	2.74	3.37	4.34	39.03	0.26
636.09	0.48	45.29	636.07	3.97	3.29	3.97	5.15	39.64	0.04
730.76	0.66	30.12	730.73	4.72	3.85	4.72	6.09	39.16	0.25
825.43	0.80	43.47	825.39	5.67	4.57	5.67	7.29	38.87	0.23
920.10	0.87	20.12	920.05	6.83	5.28	6.83	8.63	37.68	0.37
1014.77	0.71	54.21	1014.72	7.85	6.00	7.85	9.88	37.39	0.52
1109.44	0.77	52.12	1109.38	8.58	6.98	8.58	11.06	39.10	0.06
1204.11	0.73	42.00	1204.04	9.42	7.88	9.42	12.28	39.91	0.15
1298.78	0.56	41.47	1298.70	10.21	8.59	10.21	13.35	40.06	0.18
1393.45	0.51	27.50	1393.37	10.94	9.09	10.94	14.22	39.73	0.15
1488.12	0.91	28.79	1488.03	11.97	9.65	11.97	15.37	38.87	0.42
1582.79	0.66	36.29	1582.69	13.07	10.33	13.07	16.66	38.33	0.28
1677.46	0.81	41.04	1677.36	14.01	11.09	14.01	17.87	38.37	0.17

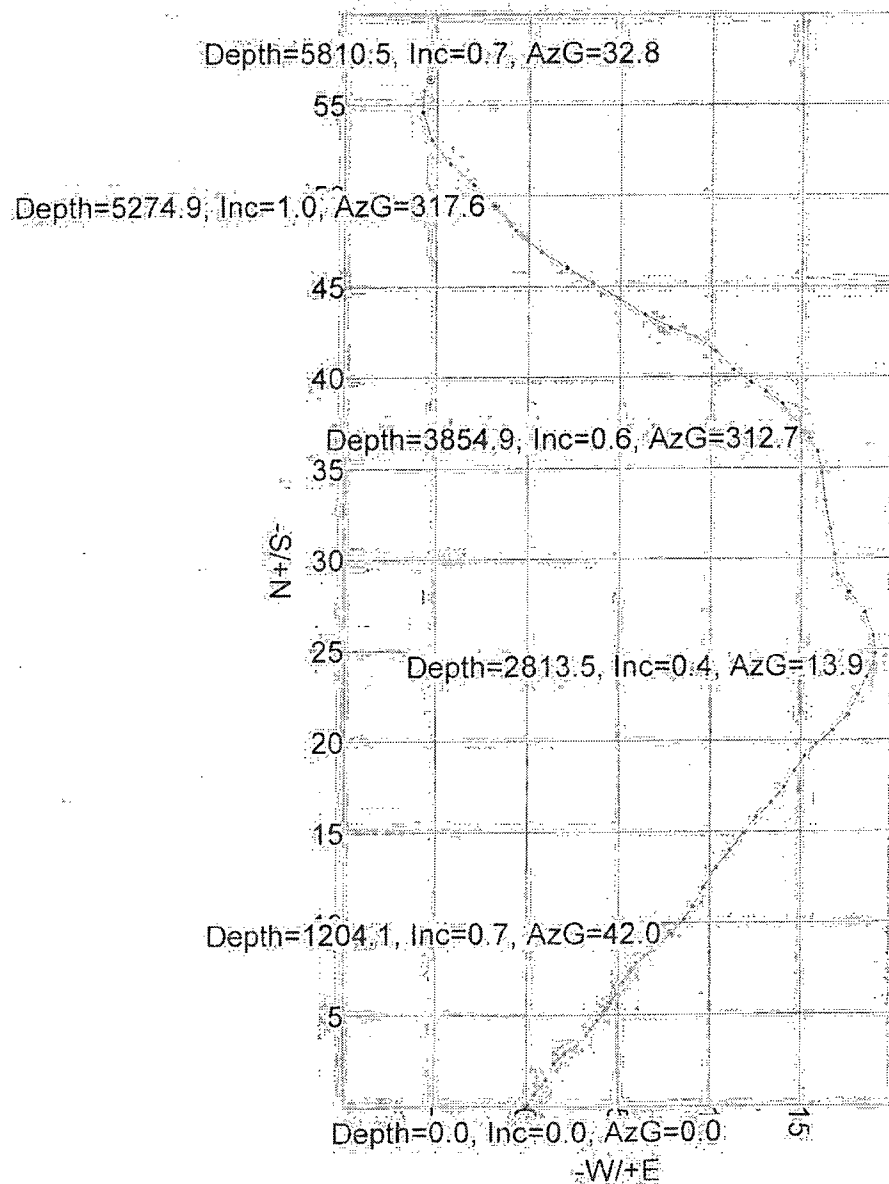
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1772.13	0.63	35.49	1772.02	14.94	11.83	14.94	19.06	38.39	0.20
1866.80	0.71	42.55	1866.68	15.80	12.54	15.80	20.17	38.43	0.12
1961.47	0.67	50.74	1961.34	16.58	13.36	16.58	21.29	38.86	0.12
2056.14	0.70	29.42	2056.01	17.43	14.07	17.43	22.40	38.91	0.27
2150.81	0.60	35.34	2150.67	18.34	14.64	18.34	23.47	38.60	0.12
2245.48	0.54	36.19	2245.34	19.11	15.20	19.11	24.41	38.49	0.07
2340.15	0.64	48.06	2340.00	19.83	15.86	19.83	25.39	38.65	0.17
2434.82	0.76	54.34	2434.67	20.55	16.76	20.55	26.51	39.20	0.15
2529.49	0.72	32.04	2529.33	21.41	17.58	21.41	27.70	39.39	0.30
2624.16	0.78	18.26	2623.99	22.53	18.10	22.53	28.89	38.78	0.20
2718.83	0.54	39.37	2718.65	23.49	18.58	23.49	29.95	38.35	0.36
2813.50	0.36	13.92	2813.32	24.12	18.94	24.12	30.67	38.14	0.28
2908.17	0.43	4.34	2907.99	24.76	19.04	24.76	31.23	37.55	0.11
3002.84	0.80	350.35	3002.65	25.77	18.95	25.77	31.99	36.34	0.41
3097.51	0.86	329.54	3097.31	27.03	18.48	27.03	32.74	34.37	0.32
3192.18	0.85	314.00	3191.97	28.13	17.62	28.13	33.19	32.05	0.24
3286.85	0.61	347.41	3286.63	29.11	17.00	29.11	33.71	30.28	0.51
3381.52	0.76	355.06	3381.30	30.23	16.83	30.23	34.60	29.11	0.18
3476.19	1.02	344.95	3475.96	31.67	16.56	31.67	35.74	27.61	0.32
3570.86	0.92	355.85	3570.61	33.24	16.29	33.24	37.01	26.11	0.22
3665.53	0.93	351.32	3665.27	34.76	16.12	34.76	38.31	24.87	0.08
3760.20	0.51	341.16	3759.93	35.92	15.86	35.92	39.27	23.83	0.46
3854.87	0.56	312.66	3854.60	36.63	15.39	36.63	39.73	22.79	0.28
3949.54	0.82	328.21	3949.26	37.52	14.69	37.52	40.29	21.39	0.33
4044.21	0.77	318.02	4043.92	38.56	13.91	38.56	41.00	19.84	0.16
4138.88	0.60	290.78	4138.59	39.21	13.02	39.21	41.32	18.37	0.38
4233.55	0.63	310.61	4233.25	39.73	12.16	39.73	41.55	17.02	0.23
4328.22	0.82	304.55	4327.91	40.45	11.20	40.45	41.98	15.48	0.22
4422.89	0.88	324.74	4422.57	41.44	10.22	41.44	42.68	13.85	0.32
4517.56	0.84	287.59	4517.23	42.24	9.13	42.24	43.22	12.20	0.58
4612.23	0.90	293.29	4611.89	42.75	7.78	42.75	43.45	10.32	0.11
4706.90	0.97	300.02	4706.55	43.45	6.40	43.45	43.92	8.38	0.14
4801.57	1.08	303.24	4801.20	44.34	4.96	44.34	44.61	6.39	0.13
4896.24	1.01	297.56	4895.86	45.21	3.48	45.21	45.34	4.40	0.13
4990.91	0.98	303.47	4990.51	46.04	2.07	46.04	46.09	2.57	0.11
5085.58	1.03	300.67	5085.17	46.92	0.66	46.92	46.93	0.80	0.07
5180.26	1.17	321.00	5179.82	48.11	-0.69	48.11	48.12	359.18	0.44
5274.92	0.97	317.61	5274.48	49.46	-1.84	49.46	49.49	357.87	0.22
5369.59	1.01	313.82	5369.13	50.63	-2.98	50.63	50.72	356.63	0.08

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5464.26	1.06	309.62	5463.79	51.77	-4.26	51.77	51.94	355.30	0.10
5558.93	1.03	334.16	5558.44	53.09	-5.31	53.09	53.35	354.29	0.47
5653.60	0.95	351.23	5653.10	54.63	-5.79	54.63	54.93	353.95	0.32
5748.27	0.57	24.38	5747.76	55.83	-5.72	55.83	56.12	354.15	0.60
5810.48	0.67	32.79	5809.97	56.42	-5.39	56.42	56.68	354.54	0.22

devon

Vaughn Energy Services
Midland, Texas
432-563-5444
Surveyor: Danny Spring
Cert. 10 Federal No 003H / API 30-015-41058

VES
VAUGHN ENERGY SERVICES





CERF 10 FED 3H

WEST UNRESTRICTED

Directional Survey

District PERMIAN BASIN	County EDDY	Field Name BURTON FLAT	Project Group DELAWARE BASIN	State/Province NM
Surface Legal Location SEC9 T21S R27E	API/UWI 3001541058	Latitude (°) 32° 29' 54.337" N	Longitude (°) 104° 11' 14.119" W	Ground Elev... 3,211.80
			KB - GL (ft) 25.00	Orig KB Elev (ft) 3,236.80
				Tubing Head Elevation (ft)

Wellbores

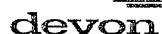
Wellbore Name OH	Parent Wellbore OH	Property Number 33269	Kick Off Depth (ftKB)	Vertical Section Direction (°) 82.98
Actual Deviation Survey GYRO & MWD, Proposed? No	Definitive? Yes	Proposed? No	Proposed Deviation Survey	

Deviation Survey

Date 6/27/2013		Description GYRO & MWD			
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EWtie In (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
6/27/2013	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	68.07	0.32	20.69	68.07	0.09	0.18	0.07	0.47	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	162.74	0.49	49.91	162.74	0.55	0.69	0.47	0.28	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	257.41	0.70	29.45	257.40	1.23	1.45	1.06	0.31	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	352.08	0.55	23.76	352.07	1.81	2.37	1.53	0.17	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	446.75	0.48	69.84	446.73	2.43	2.92	2.09	0.43	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	541.42	0.50	40.62	541.40	3.12	3.37	2.73	0.26	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	636.09	0.48	45.29	636.07	3.74	3.96	3.28	0.05	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	730.76	0.66	30.12	730.73	4.38	4.72	3.83	0.25	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	825.43	0.80	43.47	825.39	5.22	5.67	4.56	0.23	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	920.10	0.87	20.12	920.05	6.06	6.82	5.26	0.36	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	1,014.77	0.71	54.21	1,014.72	6.90	7.84	5.99	0.52	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	1,109.44	0.77	52.12	1,109.38	7.96	8.57	6.97	0.07	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	1,204.11	0.73	42.00	1,204.04	8.96	9.41	7.87	0.15	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	1,298.78	0.56	41.47	1,298.70	9.76	10.21	8.58	0.18	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	1,393.45	0.51	27.50	1,393.37	10.35	10.93	9.08	0.15	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	1,488.12	0.91	28.79	1,488.03	11.03	11.96	9.64	0.42	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	1,582.79	0.66	36.29	1,582.69	11.84	13.06	10.32	0.28	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	1,677.46	0.81	41.04	1,677.36	12.71	14.00	11.09	0.17	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	1,772.13	0.63	35.49	1,772.02	13.56	14.93	11.83	0.20	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	1,866.80	0.71	42.55	1,866.68	14.36	15.79	12.53	0.12	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	1,961.47	0.67	50.74	1,961.34	15.28	16.57	13.35	0.11	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	2,056.14	0.70	29.42	2,056.01	16.09	17.42	14.06	0.27	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	2,150.81	0.60	35.34	2,150.67	16.76	18.33	14.63	0.13	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	2,245.48	0.54	36.19	2,245.34	17.40	19.09	15.18	0.06	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	2,340.15	0.64	48.06	2,340.00	18.14	19.81	15.84	0.17	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	2,434.82	0.76	54.34	2,434.67	19.13	20.53	16.74	0.15	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	2,529.49	0.72	32.04	2,529.33	20.05	21.40	17.57	0.31	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	2,624.16	0.78	18.26	2,623.99	20.70	22.51	18.09	0.20	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	2,718.83	0.54	39.37	2,718.65	21.30	23.47	18.57	0.36	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	2,813.50	0.36	13.92	2,813.32	21.73	24.10	18.93	0.28	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	2,908.17	0.43	4.34	2,907.99	21.91	24.75	19.03	0.10	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	3,002.84	0.80	350.35	3,002.65	21.95	25.75	18.94	0.42	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	3,097.51	0.86	329.54	3,097.31	21.63	27.02	18.47	0.32	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	3,192.18	0.85	314.00	3,191.97	20.91	28.12	17.61	0.24	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	3,286.85	0.61	347.41	3,286.64	20.42	29.10	16.99	0.51	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	3,381.52	0.76	355.06	3,381.30	20.39	30.21	16.83	0.19	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	3,476.19	1.02	344.95	3,475.96	20.30	31.65	16.55	0.32	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	3,570.86	0.92	355.85	3,570.61	20.22	33.23	16.28	0.22	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	3,665.53	0.93	351.32	3,665.27	20.23	34.74	16.11	0.08	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	3,760.20	0.51	341.16	3,759.93	20.13	35.90	15.86	0.46	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	3,854.87	0.56	312.66	3,854.60	19.74	36.61	15.38	0.28	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	3,949.54	0.82	328.21	3,949.26	19.16	37.50	14.68	0.34	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	4,044.21	0.77	318.02	4,043.92	18.51	38.55	13.90	0.16	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	4,138.88	0.60	290.78	4,138.59	17.71	39.20	13.01	0.38	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	4,233.55	0.63	310.61	4,233.25	16.92	39.71	12.15	0.23	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	4,328.22	0.82	304.55	4,327.91	16.06	40.44	11.20	0.22	GYRO	VAUHGN ENERGY SERVICES



CERF 10 FED 3H

WEST UNRESTRICTED

Directional Survey

District PERMIAN BASIN	County EDDY	Field Name BURTON FLAT	Project Group DELAWARE BASIN	State/Province NM
Surface Legal Location SEC9 T21S R27E	API/UWI 3001541058	Latitude (°) 32° 29' 54.337" N	Longitude (°) 104° 11' 14.119" W	Ground Elev... 3,211.80
			KB - GL (ft) 25.00	Orig KB Elev (ft) 3,236.80
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
6/27/2013	4,422.89	0.88	324.74	4,422.57	15.21	41.42	10.22	0.32	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	4,517.56	0.84	287.59	4,517.23	14.23	42.22	9.14	0.58	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	4,612.23	0.90	293.29	4,611.89	12.96	42.72	7.80	0.11	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	4,706.90	0.97	300.02	4,706.55	11.68	43.42	6.42	0.14	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	4,801.57	1.08	303.24	4,801.21	10.36	44.31	4.98	0.13	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	4,896.24	1.01	297.56	4,895.86	8.99	45.18	3.49	0.13	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	4,990.91	0.98	303.47	4,990.52	7.69	46.01	2.08	0.11	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	5,085.58	1.03	300.67	5,085.17	6.40	46.90	0.67	0.07	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	5,180.25	1.17	321.00	5,179.82	5.21	48.08	-0.67	0.44	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	5,274.92	0.97	317.61	5,274.48	4.24	49.42	-1.82	0.22	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	5,369.59	1.01	313.82	5,369.13	3.25	50.59	-2.96	0.08	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	5,464.26	1.06	309.62	5,463.79	2.12	51.73	-4.23	0.10	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	5,558.93	1.03	334.16	5,558.44	1.24	53.05	-5.28	0.47	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	5,653.60	0.95	351.23	5,653.10	0.94	54.59	-5.77	0.32	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	5,748.27	0.57	24.38	5,747.76	1.17	55.80	-5.70	0.60	GYRO	VAUHGN ENERGY SERVICES
6/27/2013	5,810.48	0.67	32.79	5,809.97	1.56	56.39	-5.37	0.22	GYRO	VAUHGN ENERGY SERVICES
6/28/2013	5,874.00	1.10	110.90	5,873.48	2.34	56.48	-4.60	1.83	MWD	LEAM DRILLING SYSTEMS
6/28/2013	5,905.00	1.50	110.60	5,904.47	2.96	56.23	-3.94	1.29	MWD	LEAM DRILLING SYSTEMS
6/28/2013	5,937.00	3.90	79.30	5,936.44	4.42	56.29	-2.48	8.54	MWD	LEAM DRILLING SYSTEMS
6/28/2013	5,969.00	7.80	65.20	5,968.26	7.57	57.40	0.56	12.90	MWD	LEAM DRILLING SYSTEMS
6/28/2013	6,000.00	12.60	58.40	5,998.77	12.65	60.06	5.35	15.94	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,032.00	17.50	55.70	6,029.66	20.11	64.60	12.30	15.46	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,063.00	21.60	55.90	6,058.87	29.33	70.43	20.88	13.23	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,095.00	25.40	56.60	6,088.21	40.73	77.51	31.49	11.91	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,127.00	28.20	57.70	6,116.77	53.72	85.33	43.62	8.89	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,158.00	31.50	58.90	6,143.65	67.74	93.43	56.75	10.82	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,189.00	34.30	61.00	6,169.68	83.24	101.85	71.32	9.75	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,221.00	37.00	64.20	6,195.68	100.72	110.41	87.88	10.25	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,252.00	39.90	66.60	6,219.96	119.09	118.42	105.41	10.52	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,284.00	43.70	67.20	6,243.81	139.59	126.79	125.03	11.94	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,316.00	47.40	66.80	6,266.21	161.54	135.71	146.05	11.60	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,347.00	51.00	66.60	6,286.47	184.06	145.00	167.60	11.62	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,378.00	54.30	66.50	6,305.27	207.70	154.80	190.21	10.65	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,410.00	57.20	66.50	6,323.28	233.06	165.35	214.46	9.06	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,441.00	60.20	66.80	6,339.38	258.48	175.84	238.78	9.71	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,472.00	63.40	67.50	6,354.03	284.76	186.45	263.95	10.51	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,504.00	66.80	67.30	6,367.50	312.71	197.60	290.74	10.64	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,544.00	71.60	69.40	6,381.70	348.88	211.38	325.49	12.96	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,574.00	73.70	70.50	6,390.65	376.78	221.20	352.39	7.83	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,604.00	76.20	71.00	6,398.44	405.09	230.75	379.74	8.49	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,634.00	78.30	71.20	6,405.06	433.72	240.22	407.42	7.03	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,664.00	80.40	72.30	6,410.60	462.64	249.46	435.42	7.87	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,694.00	82.40	72.80	6,415.09	491.81	258.35	463.71	6.87	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,724.00	84.30	73.10	6,418.56	521.15	267.09	492.20	6.41	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,756.00	86.40	73.50	6,421.16	552.59	276.25	522.75	6.68	MWD	LEAM DRILLING SYSTEMS
6/29/2013	6,787.00	88.60	74.40	6,422.51	583.17	284.81	552.51	7.67	MWD	LEAM DRILLING SYSTEMS
6/30/2013	6,819.00	90.80	74.70	6,422.68	614.83	293.34	583.35	6.94	MWD	LEAM DRILLING SYSTEMS
6/30/2013	6,914.00	92.80	73.70	6,419.69	708.66	319.19	674.71	2.35	MWD	LEAM DRILLING SYSTEMS
6/30/2013	7,008.00	92.90	71.20	6,415.02	800.96	347.50	764.22	2.66	MWD	LEAM DRILLING SYSTEMS
6/30/2013	7,103.00	91.20	70.00	6,411.62	893.68	379.03	853.76	2.19	MWD	LEAM DRILLING SYSTEMS
6/30/2013	7,189.00	89.90	71.70	6,410.79	977.75	407.24	934.99	2.49	MWD	LEAM DRILLING SYSTEMS
7/1/2013	7,292.00	90.30	74.70	6,410.61	1,079.25	437.01	1,033.58	2.94	MWD	LEAM DRILLING SYSTEMS
7/1/2013	7,387.00	90.30	76.80	6,410.12	1,173.48	460.39	1,125.66	2.21	MWD	LEAM DRILLING SYSTEMS
7/1/2013	7,481.00	89.60	78.60	6,410.20	1,267.08	480.41	1,217.49	2.05	MWD	LEAM DRILLING SYSTEMS
7/1/2013	7,575.00	90.40	81.40	6,410.20	1,360.94	496.73	1,310.06	3.10	MWD	LEAM DRILLING SYSTEMS



CERF 10 FED 3H

WEST UNRESTRICTED

Directional Survey

District PERMIAN BASIN	County EDDY	Field Name BURTON FLAT	Project Group DELAWARE BASIN	State/Province NM
Surface Legal Location SEC9 T21S R27E	API/UWI 3001541058	Latitude (°) 32° 29' 54.337" N	Longitude (°) 104° 11' 14.119" W	Ground Elev... 3,211.80
				KB - GL (ft) 25.00
				Orig KB Elev (ft) 3,236.80
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
7/1/2013	7,670.00	89.60	85.80	6,410.20	1,455.91	507.32	1,404.44	4.71	MWD	LEAM DRILLING SYSTEMS
7/1/2013	7,764.00	90.10	87.20	6,410.44	1,549.73	513.06	1,498.26	1.58	MWD	LEAM DRILLING SYSTEMS
7/1/2013	7,859.00	90.10	89.80	6,410.28	1,644.28	515.55	1,593.22	2.74	MWD	LEAM DRILLING SYSTEMS
7/1/2013	7,954.00	90.90	89.80	6,409.45	1,738.61	515.88	1,688.21	0.84	MWD	LEAM DRILLING SYSTEMS
7/1/2013	8,049.00	91.40	89.10	6,407.54	1,832.98	516.79	1,783.19	0.91	MWD	LEAM DRILLING SYSTEMS
7/1/2013	8,144.00	90.00	89.00	6,406.38	1,927.44	518.36	1,878.17	1.48	MWD	LEAM DRILLING SYSTEMS
7/1/2013	8,238.00	87.40	88.10	6,408.51	2,020.96	520.74	1,972.10	2.93	MWD	LEAM DRILLING SYSTEMS
7/1/2013	8,333.00	88.20	88.30	6,412.16	2,115.50	523.72	2,066.99	0.87	MWD	LEAM DRILLING SYSTEMS
7/1/2013	8,428.00	89.20	87.60	6,414.32	2,210.12	527.12	2,161.90	1.28	MWD	LEAM DRILLING SYSTEMS
7/1/2013	8,523.00	90.00	87.40	6,414.98	2,304.82	531.26	2,256.81	0.87	MWD	LEAM DRILLING SYSTEMS
7/2/2013	8,618.00	90.00	87.00	6,414.98	2,399.56	535.90	2,351.69	0.42	MWD	LEAM DRILLING SYSTEMS
7/2/2013	8,712.00	86.70	86.80	6,417.69	2,493.29	540.99	2,445.50	3.52	MWD	LEAM DRILLING SYSTEMS
7/2/2013	8,808.00	86.60	87.00	6,423.30	2,588.90	546.17	2,541.20	0.23	MWD	LEAM DRILLING SYSTEMS
7/2/2013	8,902.00	87.70	88.10	6,427.97	2,682.48	550.18	2,634.99	1.65	MWD	LEAM DRILLING SYSTEMS
7/2/2013	8,996.00	87.40	87.40	6,431.99	2,776.07	553.87	2,728.84	0.81	MWD	LEAM DRILLING SYSTEMS
7/2/2013	9,091.00	88.80	87.90	6,435.14	2,870.70	557.76	2,823.70	1.56	MWD	LEAM DRILLING SYSTEMS
7/2/2013	9,186.00	89.80	97.70	6,436.30	2,964.19	553.13	2,918.46	10.37	MWD	LEAM DRILLING SYSTEMS
7/2/2013	9,279.00	87.20	86.70	6,438.74	3,055.80	549.56	3,011.21	12.15	MWD	LEAM DRILLING SYSTEMS
7/2/2013	9,373.00	87.30	86.50	6,443.25	3,149.51	555.13	3,104.94	0.24	MWD	LEAM DRILLING SYSTEMS
7/2/2013	9,467.00	87.80	86.10	6,447.27	3,243.26	561.19	3,198.66	0.68	MWD	LEAM DRILLING SYSTEMS
7/2/2013	9,561.00	87.90	86.10	6,450.80	3,337.06	567.57	3,292.37	0.11	MWD	LEAM DRILLING SYSTEMS
7/2/2013	9,656.00	88.40	86.50	6,453.86	3,431.85	573.70	3,387.12	0.67	MWD	LEAM DRILLING SYSTEMS
7/2/2013	9,751.00	89.30	86.70	6,455.77	3,526.64	579.33	3,481.94	0.97	MWD	LEAM DRILLING SYSTEMS
7/2/2013	9,845.00	87.30	85.40	6,458.56	3,620.46	585.81	3,575.67	2.54	MWD	LEAM DRILLING SYSTEMS
7/2/2013	9,940.00	86.50	85.30	6,463.70	3,715.23	593.50	3,670.21	0.85	MWD	LEAM DRILLING SYSTEMS
7/2/2013	10,035.00	84.50	85.60	6,471.15	3,809.85	601.01	3,764.62	2.13	MWD	LEAM DRILLING SYSTEMS
7/2/2013	10,129.00	86.00	86.00	6,478.93	3,903.41	607.87	3,858.04	1.65	MWD	LEAM DRILLING SYSTEMS
7/3/2013	10,224.00	86.60	86.80	6,485.06	3,998.04	613.82	3,952.65	1.05	MWD	LEAM DRILLING SYSTEMS
7/3/2013	10,317.00	87.80	89.70	6,489.61	4,090.53	616.66	4,045.49	3.37	MWD	LEAM DRILLING SYSTEMS
7/3/2013	10,412.00	88.50	89.80	6,492.68	4,184.81	617.07	4,140.44	0.74	MWD	LEAM DRILLING SYSTEMS
7/3/2013	10,507.00	88.90	90.00	6,494.83	4,279.10	617.24	4,235.41	0.47	MWD	LEAM DRILLING SYSTEMS
7/3/2013	10,602.00	88.80	90.00	6,496.74	4,373.37	617.24	4,330.39	0.11	MWD	LEAM DRILLING SYSTEMS
7/3/2013	10,697.00	89.60	89.80	6,498.06	4,467.66	617.40	4,425.38	0.87	MWD	LEAM DRILLING SYSTEMS
7/3/2013	10,791.00	89.80	89.70	6,498.56	4,561.01	617.81	4,519.38	0.24	MWD	LEAM DRILLING SYSTEMS
7/3/2013	10,886.00	89.70	89.30	6,498.97	4,655.39	618.64	4,614.38	0.43	MWD	LEAM DRILLING SYSTEMS
7/3/2013	10,980.00	87.90	88.10	6,500.94	4,748.90	620.77	4,708.33	2.30	MWD	LEAM DRILLING SYSTEMS
7/3/2013	11,075.00	87.10	86.50	6,505.08	4,843.53	625.24	4,803.13	1.88	MWD	LEAM DRILLING SYSTEMS
7/3/2013	11,170.00	87.50	86.50	6,509.56	4,938.25	631.04	4,897.84	0.42	MWD	LEAM DRILLING SYSTEMS
7/3/2013	11,264.00	85.40	85.80	6,515.38	5,031.92	637.34	4,991.45	2.35	MWD	LEAM DRILLING SYSTEMS
7/3/2013	11,359.00	85.60	85.40	6,522.83	5,126.53	644.60	5,085.87	0.47	MWD	LEAM DRILLING SYSTEMS
7/3/2013	11,454.00	86.80	86.00	6,529.13	5,221.21	651.71	5,180.39	1.41	MWD	LEAM DRILLING SYSTEMS
7/3/2013	11,495.00	86.90	85.60	6,531.38	5,262.10	654.71	5,221.22	1.00	MWD	LEAM DRILLING SYSTEMS
7/3/2013	11,559.00	86.90	85.60	6,534.84	5,325.94	659.61	5,284.94	0.00	BIT	LEAM DRILLING SYSTEMS