



A GYRO TECHNOLOGIES INC. COMPANY

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

July 9, 2013

30 015 41058

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.

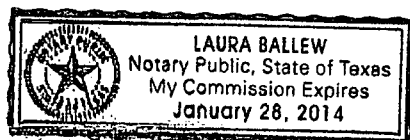
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

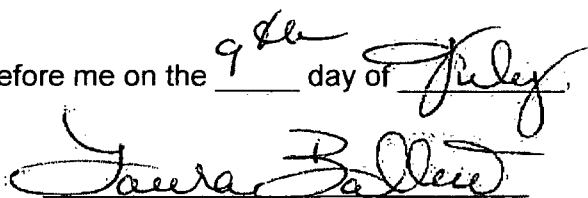
Sincerely,


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
Notary Public, State of Texas



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



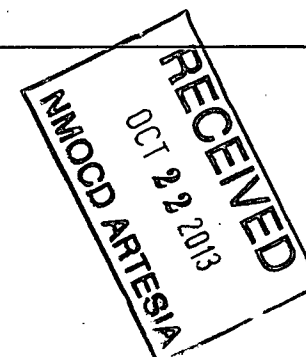
Depth Reference : RKB= 25 FT.

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: slick drop .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



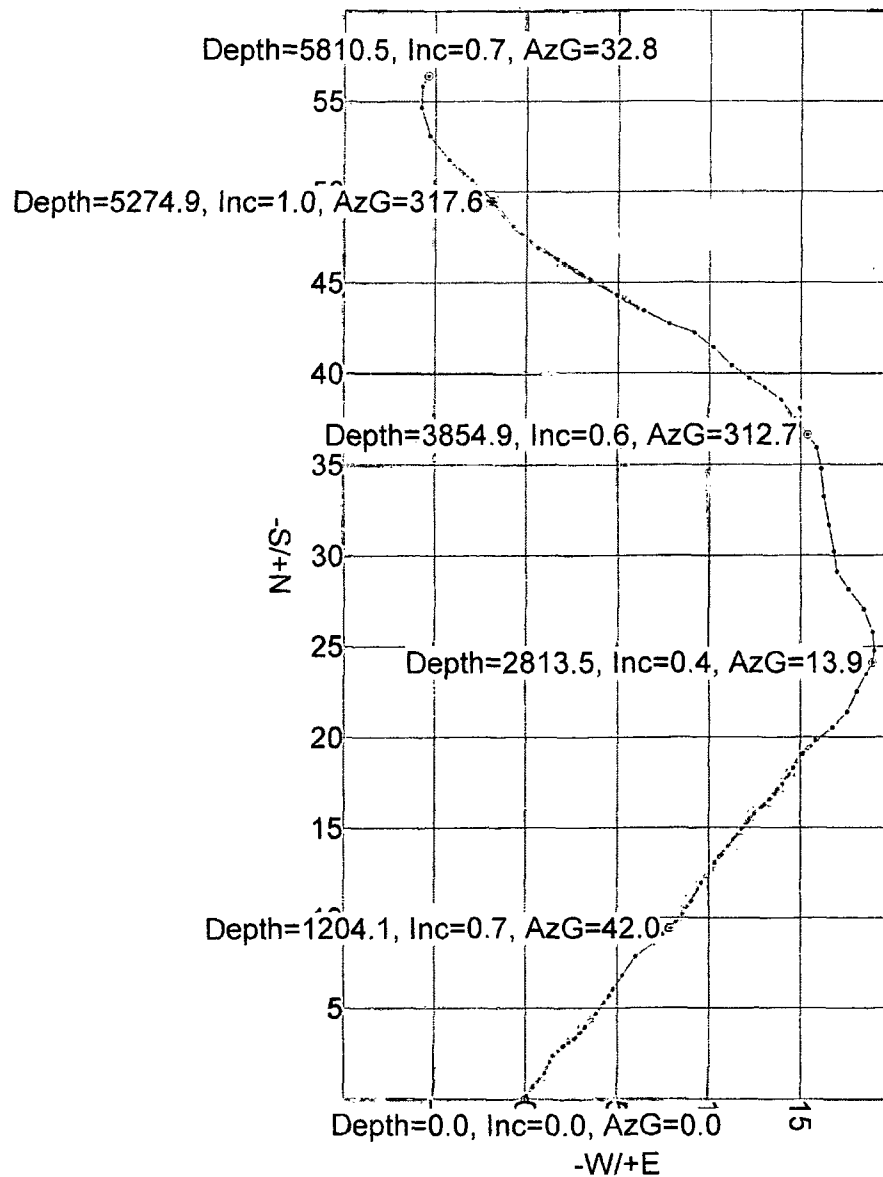
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
68.07	0.32	20.69	68.07	0.18	0.07	0.18	0.19	20.69	0.47
162.74	0.49	49.91	162.74	0.69	0.47	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
5180.25	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



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



VES Survey Date: 06/27/2013



August 14, 2013

Devon Energy
Well: Cerf 10 Fed 3H
County/Parish: Eddy County, NM

Leam MWD: (OH) from 5,874' MD – 11,495' MD
Projection: 11,559'

This Borehole Survey taken between 06/28/2013 and 07/03/2013 has been conducted and calculated according to the highest professional standards and complies with all known State and federal requirements.

Reviewed and Approved:

Date: August 14, 2013

*Physical & Mailing: 2010 East Davis, Conroe, TX 77301
936-756-7577 • 936-756-7595 Fax • 1 (800) 756-7504*



Survey Certification Form

State of NM
Eddy County

I, Randy W. Rakowitz, certify that; I am employed by LEAM Drilling Systems LLC, that I did on the day(s) of June 28, 2013 through July 3, 2013, conduct or supervise the taking of MWD Survey from a depth of 5,874' to 11,559' MD; that the data is true, correct, complete and within the limitations of the tools as set forth by LEAM Drilling Systems LLC, that I am authorized and qualified to make this report; that this survey was conducted at the request of Devon Energy for the Cert 10 Fed 3H in Eddy County, NM; and that I reviewed this report and find that it conforms to the principals and procedures as set forth by LEAM Drilling Systems LLC.

A handwritten signature in black ink, appearing to read 'Randy W. Rakowitz', written over a horizontal line.

Randy W. Rakowitz
MWD Operations Coordinator

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well: 3H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3212' + KB 25' @ 3237.00usft (Cactus 126)
Site:	Cerf 10 Fed	MD Reference:	GE 3212' + KB 25' @ 3237.00usft (Cactus 126)
Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Multi User DB

Project: Eddy County, NM (NAD-83)			
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Cerf 10 Fed			
Site Position:		Northing:	545,089.31 usft	Latitude:	32° 29' 54.337 N
From:	Map	Easting:	586,373.32 usft	Longitude:	104° 11' 14.119 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.08 °

Well	13H					
Well Position	+N/-S	0.00 usft	Northing:	545,089.31 usft	Latitude:	32° 29' 54.337 N
	+E/-W	0.00 usft	Easting:	586,373.32 usft	Longitude:	104° 11' 14.119 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,212.00 usft	

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/13/13	7.64	60:29	48,516

Design:	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	82.98	

Survey Program		Date	08/14/13	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
68.07	5,810.48	Survey #1 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s
5,874.00	11,495.00	Survey #2 (OH)	LEAM MWD	MWD - Standard
11,559.00	11,559.00	Survey #3 (OH)	Project	Projection

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	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	0.09	0.47	0.47	0.00
162.74	0.49	49.91	162.74	0.69	0.47	0.55	0.28	0.18	30.87
257.41	0.70	29.45	257.40	1.45	1.06	1.23	0.31	0.22	-21.61
352.08	0.55	23.76	352.07	2.37	1.53	1.81	0.17	-0.16	-6.01
446.75	0.48	69.84	446.73	2.92	2.09	2.43	0.43	-0.07	48.67
541.42	0.50	40.62	541.40	3.37	2.73	3.12	0.26	0.02	-30.87
636.09	0.48	45.29	636.07	3.96	3.28	3.74	0.05	-0.02	4.93
730.76	0.66	30.12	730.73	4.72	3.83	4.38	0.25	0.19	-16.02

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 3H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3212' + KB 25' @ 3237.00usft (Cactus 126)
Site:	Cerf 10 Fed	MD Reference:	GE 3212' + KB 25' @ 3237.00usft (Cactus 126)
Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Multi User DB

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
825.43	0.80	43.47	825.39	5.67	4.56	5.22	0.23	0.15	14.10
920.10	0.87	20.12	920.05	6.82	5.26	6.06	0.36	0.07	-24.66
1,014.77	0.71	54.21	1,014.72	7.84	5.99	6.90	0.52	-0.17	36.01
1,109.44	0.77	52.12	1,109.38	8.57	6.97	7.96	0.07	0.06	-2.21
1,204.11	0.73	42.00	1,204.04	9.41	7.87	8.96	0.15	-0.04	-10.69
1,298.78	0.56	41.47	1,298.70	10.21	8.58	9.76	0.18	-0.18	-0.56
1,393.45	0.51	27.50	1,393.37	10.93	9.08	10.35	0.15	-0.05	-14.76
1,488.12	0.91	28.79	1,488.03	11.96	9.64	11.03	0.42	0.42	1.36
1,582.79	0.66	36.29	1,582.69	13.06	10.32	11.84	0.28	-0.26	7.92
1,677.46	0.81	41.04	1,677.36	14.00	11.09	12.71	0.17	0.16	5.02
1,772.13	0.63	35.49	1,772.02	14.93	11.83	13.56	0.20	-0.19	-5.86
1,866.80	0.71	42.55	1,866.68	15.79	12.53	14.36	0.12	0.08	7.46
1,961.47	0.67	50.74	1,961.34	16.57	13.35	15.28	0.11	-0.04	8.65
2,056.14	0.70	29.42	2,056.01	17.42	14.06	16.09	0.27	0.03	-22.52
2,150.81	0.60	35.34	2,150.67	18.33	14.63	16.77	0.13	-0.11	6.25
2,245.48	0.54	36.19	2,245.34	19.09	15.18	17.40	0.06	-0.06	0.90
2,340.15	0.64	48.06	2,340.00	19.81	15.84	18.14	0.17	0.11	12.54
2,434.82	0.76	54.34	2,434.67	20.53	16.74	19.13	0.15	0.13	6.63
2,529.49	0.72	32.04	2,529.33	21.40	17.57	20.05	0.31	-0.04	-23.56
2,624.16	0.78	18.26	2,623.99	22.51	18.09	20.70	0.20	0.06	-14.56
2,718.83	0.54	39.37	2,718.65	23.47	18.57	21.30	0.36	-0.25	22.30
2,813.50	0.36	13.92	2,813.32	24.10	18.93	21.73	0.28	-0.19	-26.88
2,908.17	0.43	4.34	2,907.99	24.75	19.03	21.91	0.10	0.07	-10.12
3,002.84	0.80	350.35	3,002.65	25.75	18.94	21.95	0.42	0.39	-14.78
3,097.51	0.86	329.54	3,097.31	27.02	18.47	21.63	0.32	0.06	-21.98
3,192.18	0.85	314.00	3,191.97	28.12	17.61	20.91	0.24	-0.01	-16.41
3,286.85	0.61	347.41	3,286.64	29.10	16.99	20.42	0.51	-0.25	35.29
3,381.52	0.76	355.06	3,381.30	30.21	16.83	20.39	0.19	0.16	8.08
3,476.19	1.02	344.95	3,475.96	31.65	16.55	20.30	0.32	0.27	-10.68
3,570.86	0.92	355.85	3,570.61	33.23	16.28	20.22	0.22	-0.11	11.51
3,665.53	0.93	351.32	3,665.27	34.74	16.11	20.24	0.08	0.01	-4.79
3,760.20	0.51	341.16	3,759.93	35.90	15.86	20.13	0.46	-0.44	-10.73
3,854.87	0.56	312.66	3,854.60	36.61	15.38	19.74	0.28	0.05	-30.10
3,949.54	0.82	328.21	3,949.26	37.50	14.68	19.16	0.34	0.27	16.43
4,044.21	0.77	318.02	4,043.92	38.55	13.90	18.51	0.16	-0.05	-10.76
4,138.88	0.60	290.78	4,138.59	39.20	13.01	17.71	0.38	-0.18	-28.77
4,233.55	0.63	310.61	4,233.25	39.71	12.15	16.92	0.23	0.03	20.95
4,328.22	0.82	304.55	4,327.91	40.44	11.20	16.06	0.22	0.20	-6.40
4,422.89	0.88	324.74	4,422.57	41.42	10.22	15.21	0.32	0.06	21.33
4,517.56	0.84	287.59	4,517.23	42.22	9.14	14.23	0.58	-0.04	-39.24
4,612.23	0.90	293.29	4,611.89	42.72	7.80	12.96	0.11	0.06	6.02
4,706.90	0.97	300.02	4,706.55	43.42	6.42	11.68	0.14	0.07	7.11
4,801.57	1.08	303.24	4,801.21	44.31	4.98	10.36	0.13	0.12	3.40

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 3H.
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3212' + KB 25' @ 3237.00usft (Cactus 126)
Site:	Cerf 10 Fed.	MD Reference:	GE 3212' + KB 25' @ 3237.00usft (Cactus 126)
Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Multi User DB

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,896.24	1.01	297.56	4,895.86	45.18	3.49	8.99	0.13	-0.07	-6.00
4,990.91	0.98	303.47	4,990.52	46.01	2.08	7.69	0.11	-0.03	6.24
5,085.58	1.03	300.67	5,085.17	46.90	0.67	6.40	0.07	0.05	-2.96
5,180.25	1.17	321.00	5,179.82	48.08	-0.67	5.21	0.44	0.15	21.47
5,274.92	0.97	317.61	5,274.48	49.42	-1.82	4.24	0.22	-0.21	-3.58
5,369.59	1.01	313.82	5,369.13	50.59	-2.96	3.25	0.08	0.04	-4.00
5,464.26	1.06	309.62	5,463.79	51.73	-4.23	2.12	0.10	0.05	-4.44
5,558.93	1.03	334.16	5,558.44	53.05	-5.28	1.24	0.47	-0.03	25.92
5,653.60	0.95	351.23	5,653.10	54.59	-5.77	0.95	0.32	-0.08	18.03
5,748.27	0.57	24.38	5,747.76	55.80	-5.70	1.17	0.60	-0.40	35.02
5,810.48	0.67	32.79	5,809.97	56.39	-5.37	1.56	0.22	0.16	13.52
5,874.00	1.10	110.90	5,873.48	56.48	-4.60	2.34	1.83	0.68	122.97
5,905.00	1.50	110.60	5,904.47	56.23	-3.94	2.96	1.29	1.29	-0.97
5,937.00	3.90	79.30	5,936.44	56.29	-2.48	4.42	8.54	7.50	-97.81
5,969.00	7.80	65.20	5,968.27	57.40	0.56	7.57	12.90	12.19	-44.06
6,000.00	12.60	58.40	5,998.77	60.06	5.35	12.65	15.94	15.48	-21.94
6,032.00	17.50	55.70	6,029.66	64.60	12.30	20.11	15.46	15.31	-8.44
6,063.00	21.60	55.90	6,058.87	70.43	20.88	29.34	13.23	13.23	0.65
6,095.00	25.40	56.60	6,088.21	77.51	31.49	40.73	11.91	11.88	2.19
6,127.00	28.20	57.70	6,116.77	85.33	43.62	53.72	8.89	8.75	3.44
6,158.00	31.50	58.90	6,143.65	93.43	56.75	67.74	10.82	10.65	3.87
6,189.00	34.30	61.00	6,169.68	101.85	71.32	83.24	9.75	9.03	6.77
6,221.00	37.00	64.20	6,195.68	110.41	87.88	100.72	10.25	8.44	10.00
6,252.00	39.90	66.60	6,219.96	118.42	105.41	119.10	10.52	9.35	7.74
6,284.00	43.70	67.20	6,243.81	126.79	125.03	139.59	11.94	11.88	1.88
6,316.00	47.40	66.80	6,266.21	135.71	146.05	161.55	11.60	11.56	-1.25
6,347.00	51.00	66.60	6,286.47	145.00	167.60	184.07	11.62	11.61	-0.65
6,378.00	54.30	66.50	6,305.27	154.80	190.21	207.70	10.65	10.65	-0.32
6,410.00	57.20	66.50	6,323.28	165.35	214.46	233.06	9.06	9.06	0.00
6,441.00	60.20	66.80	6,339.38	175.84	238.78	258.48	9.71	9.68	0.97
6,472.00	63.40	67.50	6,354.03	186.45	263.95	284.76	10.51	10.32	2.26
6,504.00	66.80	67.30	6,367.50	197.60	290.74	312.72	10.64	10.63	-0.63
6,544.00	71.60	69.40	6,381.70	211.38	325.49	348.89	12.96	12.00	5.25
6,574.00	73.70	70.50	6,390.65	221.20	352.39	376.78	7.83	7.00	3.67
6,604.00	76.20	71.00	6,398.44	230.75	379.74	405.10	8.49	8.33	1.67
6,634.00	78.30	71.20	6,405.06	240.22	407.42	433.73	7.03	7.00	0.67
6,664.00	80.40	72.30	6,410.60	249.46	435.42	462.64	7.87	7.00	3.67
6,694.00	82.40	72.80	6,415.09	258.35	463.71	491.82	6.87	6.67	1.67
6,724.00	84.30	73.10	6,418.56	267.09	492.20	521.16	6.41	6.33	1.00
6,756.00	86.40	73.50	6,421.16	276.25	522.75	552.60	6.68	6.56	1.25
6,787.00	88.60	74.40	6,422.51	284.81	552.51	583.18	7.67	7.10	2.90
6,819.00	90.80	74.70	6,422.68	293.34	583.35	614.83	6.94	6.88	0.94
6,914.00	92.80	73.70	6,419.69	319.19	674.71	708.67	2.35	2.11	-1.05

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 3H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3212' + KB 25' @ 3237.00usft (Cactus 126)
Site:	Cerf 10 Fed	MD Reference:	GE 3212' + KB 25' @ 3237.00usft (Cactus 126)
Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Multi User DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,008.00	92.90	71.20	6,415.02	347.50	764.22	800.96	2.66	0.11	-2.66
7,103.00	91.20	70.00	6,411.62	379.03	853.76	893.89	2.19	-1.79	-1.26
7,198.00	89.90	71.70	6,410.71	410.19	943.49	986.56	2.25	-1.37	1.79
7,292.00	90.30	74.70	6,410.54	437.36	1,033.47	1,079.18	3.22	0.43	3.19
7,387.00	90.30	76.80	6,410.05	460.74	1,125.54	1,173.42	2.21	0.00	2.21
7,481.00	89.60	78.60	6,410.13	480.76	1,217.38	1,267.02	2.05	-0.74	1.91
7,575.00	90.40	81.40	6,410.13	497.08	1,309.94	1,360.88	3.10	0.85	2.98
7,670.00	89.60	85.80	6,410.13	507.67	1,404.33	1,455.85	4.71	-0.84	4.63
7,764.00	90.10	87.20	6,410.37	513.41	1,498.15	1,549.67	1.58	0.53	1.49
7,859.00	90.10	89.80	6,410.21	515.90	1,593.11	1,644.22	2.74	0.00	2.74
7,954.00	90.90	89.80	6,409.38	516.23	1,688.10	1,738.55	0.84	0.84	0.00
8,049.00	91.40	89.10	6,407.47	517.14	1,783.08	1,832.92	0.91	0.53	-0.74
8,144.00	90.00	89.00	6,406.31	518.71	1,878.05	1,927.38	1.48	-1.47	-0.11
8,238.00	87.40	88.10	6,408.44	521.09	1,971.99	2,020.90	2.93	-2.77	-0.96
8,333.00	88.20	88.30	6,412.09	524.07	2,066.87	2,115.44	0.87	0.84	0.21
8,428.00	89.20	87.60	6,414.25	527.47	2,161.79	2,210.05	1.28	1.05	-0.74
8,523.00	90.00	87.40	6,414.91	531.62	2,256.69	2,304.75	0.87	0.84	-0.21
8,618.00	90.00	87.00	6,414.91	536.26	2,351.58	2,399.50	0.42	0.00	-0.42
8,712.00	86.70	86.80	6,417.62	541.34	2,445.39	2,493.22	3.52	-3.51	-0.21
8,808.00	86.60	87.00	6,423.23	546.52	2,541.09	2,588.84	0.23	-0.10	0.21
8,902.00	87.70	88.10	6,427.90	550.53	2,634.88	2,682.42	1.65	1.17	1.17
8,996.00	87.40	87.40	6,431.92	554.22	2,728.72	2,776.01	0.81	-0.32	-0.74
9,091.00	88.80	87.90	6,435.07	558.11	2,823.59	2,870.64	1.56	1.47	0.53
9,186.00	89.80	87.70	6,436.23	561.76	2,918.51	2,965.29	1.07	1.05	-0.21
9,279.00	87.20	86.70	6,438.66	566.30	3,011.36	3,058.00	3.00	-2.80	-1.08
9,373.00	87.30	86.50	6,443.17	571.87	3,105.08	3,151.70	0.24	0.11	-0.21
9,467.00	87.80	86.10	6,447.19	577.93	3,198.80	3,245.46	0.68	0.53	-0.43
9,561.00	87.90	86.10	6,450.72	584.32	3,292.52	3,339.25	0.11	0.11	0.00
9,656.00	88.40	86.50	6,453.78	590.44	3,387.27	3,434.04	0.67	0.53	0.42
9,751.00	89.30	86.70	6,455.69	596.08	3,482.08	3,528.83	0.97	0.95	0.21
9,845.00	87.30	85.40	6,458.48	602.55	3,575.81	3,622.65	2.54	-2.13	-1.38
9,940.00	86.50	85.30	6,463.62	610.24	3,670.36	3,717.43	0.85	-0.84	-0.11
10,035.00	84.50	85.60	6,471.07	617.75	3,764.76	3,812.04	2.13	-2.11	0.32
10,129.00	86.00	86.00	6,478.85	624.61	3,858.18	3,905.60	1.65	1.60	0.43
10,224.00	86.60	86.80	6,484.98	630.56	3,952.80	4,000.24	1.05	0.63	0.84
10,317.00	87.80	89.70	6,489.53	633.40	4,045.63	4,092.72	3.37	1.29	3.12
10,412.00	88.50	89.80	6,492.59	633.81	4,140.58	4,187.01	0.74	0.74	0.11
10,507.00	88.90	90.00	6,494.75	633.98	4,235.56	4,281.29	0.47	0.42	0.21
10,602.00	88.80	90.00	6,496.66	633.98	4,330.54	4,375.56	0.11	-0.11	0.00
10,697.00	89.60	89.80	6,497.98	634.14	4,425.53	4,469.86	0.87	0.84	-0.21
10,791.00	89.80	89.70	6,498.48	634.56	4,519.52	4,563.20	0.24	0.21	-0.11
10,886.00	89.70	89.30	6,498.89	635.38	4,614.52	4,657.58	0.43	-0.11	-0.42
10,980.00	87.90	88.10	6,500.86	637.52	4,708.47	4,751.09	2.30	-1.91	-1.28
11,075.00	87.10	86.50	6,505.00	641.99	4,803.27	4,845.72	1.88	-0.84	-1.68

Leam Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 3H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3212' + KB 25' @ 3237.00usft (Cactus 126)
Site:	Cerf 10 Fed	MD Reference:	GE 3212' + KB 25' @ 3237.00usft (Cactus 126)
Well:	3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Multi User DB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,170.00	87.50	86.50	6,509.48	647.78	4,897.99	4,940.44	0.42	0.42	0.00	
11,264.00	85.40	85.80	6,515.30	654.08	4,991.59	5,034.11	2.35	-2.23	-0.74	
11,359.00	85.60	85.40	6,522.75	661.34	5,086.02	5,128.72	0.47	0.21	-0.42	
11,454.00	86.80	86.00	6,529.05	668.45	5,180.54	5,223.40	1.41	1.26	0.63	
11,495.00	86.90	85.60	6,531.30	671.45	5,221.37	5,264.29	1.00	0.24	-0.98	
11,559.00	86.90	85.60	6,534.76	676.35	5,285.09	5,328.13	0.00	0.00	0.00	
Projection to Bit										