



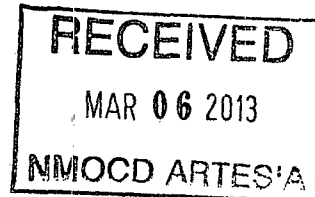
A GYRO TECHNOLOGIES INC. COMPANY

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

November 9, 2012

3001540372

Devon Energy Production Company
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010



Attn: Patti Riechers

Re: **Lone Tree Draw 13 State Com No. 002H**

Please find enclosed a copy of the survey from 0' to 6,978.42' ran on the above referenced well.

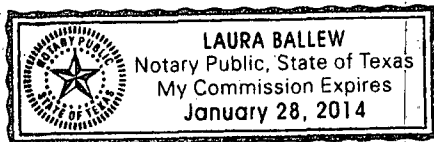
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 13th day of November, A.D., 2012, by Keith Havelka.




Laura Ballew
Notary Public, State of Texas



Company: Devon Energy Production Company
Lease/Well: Lone Tree Draw 13 State Com/No. 002H
Location: D-13-21S-27E
Rig Name: HP 223
State/County: New Mexico/Eddy
Latitude: 32.49, Longitude: -104.15
GRID North is 0.10 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB 25 Feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: msgyro_run01-01.ut

Minimum Curvature Method

Report Date/Time: 11/9/2012 / 08:13

Vaughn Energy Services

(432) 563-5444

Gardendale, TX

Surveyor: Rob Lampert

Lone Tree Draw 13 State Com No. 002H / API 30-015-40372



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	****
79.92	0.10	112.04	79.92	-0.03	0.06	-0.03	0.07	112.04	0.13
174.42	0.14	117.09	174.42	-0.11	0.24	-0.11	0.27	114.22	0.04
268.92	0.21	112.37	268.92	-0.23	0.51	-0.23	0.56	114.24	0.08
363.42	0.25	117.12	363.42	-0.39	0.85	-0.39	0.94	114.53	0.05
457.92	0.36	113.47	457.92	-0.60	1.31	-0.60	1.44	114.69	0.11
552.42	0.49	119.30	552.41	-0.92	1.94	-0.92	2.14	115.39	0.14
646.92	0.61	114.56	646.91	-1.33	2.75	-1.33	3.05	115.77	0.14
741.42	0.82	128.83	741.40	-1.96	3.73	-1.96	4.22	117.70	0.29
835.92	0.96	127.13	835.89	-2.86	4.89	-2.86	5.67	120.33	0.15
930.42	1.19	125.77	930.37	-3.91	6.32	-3.91	7.43	121.77	0.25
1024.92	1.31	125.45	1024.85	-5.12	8.00	-5.12	9.49	122.61	0.13
1119.42	1.50	132.49	1119.32	-6.58	9.79	-6.58	11.79	123.90	0.27
1213.92	1.63	137.27	1213.79	-8.40	11.61	-8.40	14.33	125.88	0.19
1308.42	2.23	143.02	1308.23	-10.85	13.63	-10.85	17.42	128.53	0.67
1402.92	2.10	143.63	1402.67	-13.71	15.76	-13.71	20.89	131.03	0.14
1497.42	2.01	144.88	1497.11	-16.46	17.74	-16.46	24.20	132.86	0.11
1591.92	1.56	142.97	1591.56	-18.84	19.46	-18.84	27.09	134.07	0.48
1686.42	1.55	128.51	1686.03	-20.66	21.23	-20.66	29.62	134.21	0.41

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
1780.92	1.33	122.60	1780.50	-22.04	23.15	-22.04	31.97	133.59	0.28
1875.42	0.93	121.45	1874.98	-23.03	24.73	-23.03	33.79	132.96	0.42
1969.92	0.83	119.39	1969.47	-23.77	25.98	-23.77	35.21	132.45	0.10
2064.42	0.74	118.34	2063.96	-24.39	27.12	-24.39	36.47	131.97	0.10
2158.92	1.02	122.74	2158.45	-25.14	28.36	-25.14	37.90	131.55	0.30
2253.42	1.04	120.15	2252.93	-26.03	29.81	-26.03	39.58	131.12	0.05
2347.92	1.05	119.75	2347.42	-26.88	31.30	-26.88	41.26	130.66	0.01
2442.42	0.95	116.51	2441.90	-27.66	32.76	-27.66	42.87	130.18	0.11
2536.92	0.83	113.97	2536.39	-28.29	34.08	-28.29	44.29	129.70	0.14
2631.42	0.85	118.44	2630.88	-28.90	35.32	-28.90	45.64	129.29	0.07
2725.92	0.82	118.35	2725.37	-29.55	36.53	-29.55	46.99	128.97	0.03
2820.42	0.90	121.31	2819.86	-30.26	37.76	-30.26	48.39	128.71	0.10
2914.92	1.02	120.69	2914.35	-31.08	39.12	-31.08	49.96	128.46	0.13
3009.42	0.88	117.15	3008.83	-31.84	40.50	-31.84	51.51	128.18	0.16
3103.92	0.84	113.05	3103.32	-32.44	41.78	-32.44	52.90	127.83	0.08
3198.42	0.94	104.75	3197.81	-32.91	43.16	-32.91	54.28	127.33	0.17
3292.92	1.09	95.77	3292.30	-33.20	44.80	-33.20	55.76	126.54	0.23
3387.42	1.02	86.72	3386.78	-33.24	46.53	-33.24	57.18	125.54	0.19
3481.92	0.75	77.08	3481.27	-33.05	47.97	-33.05	58.26	124.57	0.33
3576.42	0.73	72.58	3575.76	-32.74	49.14	-32.74	59.05	123.67	0.06
3670.92	0.69	57.59	3670.25	-32.25	50.19	-32.25	59.66	122.73	0.20
3765.42	0.78	45.14	3764.75	-31.50	51.13	-31.50	60.05	121.64	0.19
3859.92	0.80	36.94	3859.24	-30.51	51.98	-30.51	60.28	120.41	0.12
3954.42	0.74	43.83	3953.73	-29.54	52.80	-29.54	60.51	119.23	0.12
4048.92	0.62	33.11	4048.22	-28.67	53.50	-28.67	60.70	118.19	0.18
4143.42	0.59	35.49	4142.72	-27.85	54.07	-27.85	60.82	117.25	0.05
4237.92	0.54	28.30	4237.21	-27.06	54.56	-27.06	60.90	116.38	0.09
4332.42	0.53	25.97	4331.71	-26.27	54.96	-26.27	60.92	115.55	0.03
4426.92	0.49	27.54	4426.20	-25.52	55.34	-25.52	60.94	114.76	0.05
4521.42	0.51	28.19	4520.70	-24.80	55.73	-24.80	60.99	113.99	0.02
4615.92	0.49	24.64	4615.20	-24.06	56.09	-24.06	61.03	113.22	0.04
4710.42	0.44	18.48	4709.69	-23.35	56.38	-23.35	61.02	112.50	0.07
4804.92	0.44	6.05	4804.19	-22.64	56.53	-22.64	60.90	111.83	0.10
4899.42	0.52	2.34	4898.69	-21.86	56.58	-21.86	60.66	111.12	0.09
4993.92	0.73	6.91	4993.18	-20.83	56.67	-20.83	60.38	110.18	0.23
5088.42	1.02	21.02	5087.67	-19.44	57.05	-19.44	60.27	108.81	0.38
5182.92	1.19	24.04	5182.15	-17.75	57.75	-17.75	60.42	107.08	0.19
5277.42	1.31	25.58	5276.63	-15.88	58.62	-15.88	60.73	105.16	0.12
5371.92	1.14	18.66	5371.11	-14.02	59.39	-14.02	61.02	103.28	0.24

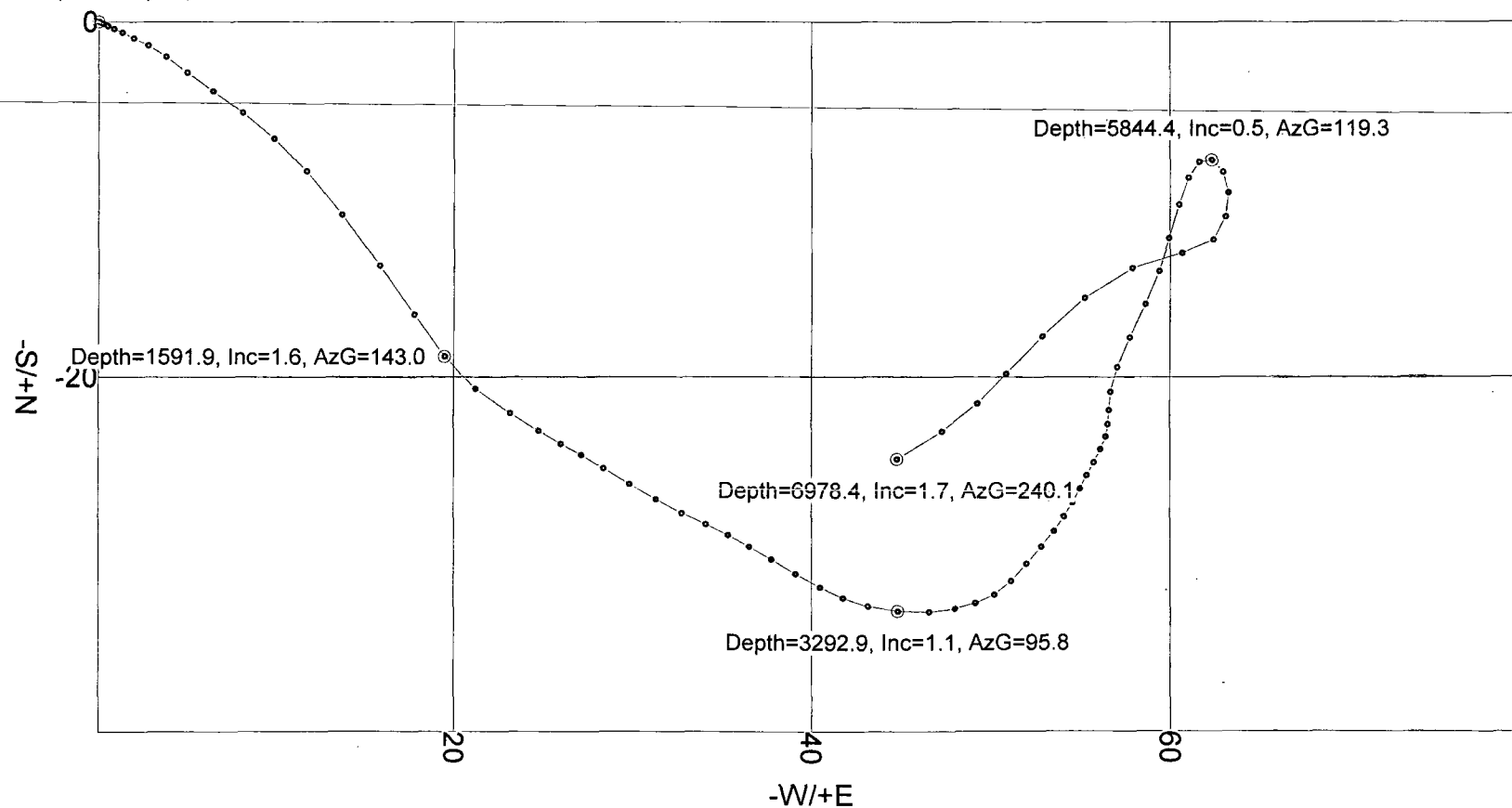
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5466.42	1.21	15.30	5465.59	-12.17	59.95	-12.17	61.17	101.47	0.11
5560.92	1.17	17.83	5560.07	-10.28	60.51	-10.28	61.38	99.64	0.07
5655.42	0.78	19.20	5654.56	-8.76	61.02	-8.76	61.64	98.17	0.42
5749.92	0.59	53.17	5749.05	-7.86	61.62	-7.86	62.12	97.27	0.46
5844.42	0.46	119.30	5843.55	-7.76	62.33	-7.76	62.81	97.09	0.62
5938.92	0.69	152.02	5938.04	-8.45	62.93	-8.45	63.49	97.64	0.42
6033.42	0.80	176.57	6032.53	-9.61	63.24	-9.61	63.96	98.64	0.35
6127.92	0.87	194.86	6127.02	-10.96	63.09	-10.96	64.04	99.86	0.29
6222.42	0.93	220.14	6221.51	-12.24	62.41	-12.24	63.60	101.10	0.42
6316.92	1.55	262.72	6315.99	-12.99	60.65	-12.99	62.03	102.09	1.13
6411.42	2.01	245.02	6410.45	-13.85	57.89	-13.85	59.52	103.46	0.75
6505.92	1.84	230.26	6504.89	-15.52	55.22	-15.52	57.36	105.70	0.55
6600.42	2.04	224.32	6599.34	-17.69	52.88	-17.69	55.76	108.50	0.30
6694.92	1.52	222.68	6693.79	-19.82	50.86	-19.82	54.58	111.29	0.56
6789.42	1.30	225.63	6788.27	-21.49	49.24	-21.49	53.73	113.57	0.24
6883.92	1.81	235.96	6882.73	-23.07	47.24	-23.07	52.57	116.03	0.61
6978.42	1.74	240.07	6977.19	-24.62	44.76	-24.62	51.09	118.81	0.15



Vaughn Energy Services
(432) 563-5444
Gardendale, TX
Surveyor: Rob Lampert
Lone Tree Draw 13 State Com No. 002H / API 30-015-40372



Depth=0.0, Inc=0.0, AzG=0.0



VES Survey Date: 10/5/2012



Survey Certification Form

State of New Mexico
Eddy County

Randy W. Rakowitz, certify that; I am employed by LEAM Drilling Systems, LLC., that I did on the day(s) of October 9, 2012 through October 15, 2012, conduct or supervise the taking of MWD Survey from a depth of 4,361' to 9,485' 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 Lone Tree Draw State #2H in Eddy County, New Mexico; and that I reviewed this report and find that it conforms to the principals and procedures as set forth by LEAM Drilling Systems, LLC.

Randy W. Rakowitz
MWD Operations Coordinator

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 2H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3129' + KB 26' @ 3218.00usft (H&P 223)
Site:	Lone Tree Draw "13" State	MD Reference:	GE 3129' + KB 26' @ 3218.00usft (H&P 223)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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

Site:	Lone Tree Draw "13" State		
Site Position:		Northing:	541,005.87 usft
From:	Map	Easting:	598,047.12 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 29' 13.750 N
		Longitude:	104° 8' 57.887 W
		Grid Convergence:	0.10 °

Well:	2H, Sec. 13, T21S, R27E		
Well Position		Northing:	541,005.87 usft
	+N/-S 0.00 usft	Easting:	598,047.12 usft
	+E/-W 0.00 usft	Latitude:	32° 29' 13.750 N
Position Uncertainty	0.00 usft	Longitude:	104° 8' 57.887 W
		Wellhead Elevation:	usft
		Ground Level:	3,192.00 usft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	09/26/12	7.71
			Dip Angle
			60.30
			Field Strength
			48,584

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	4,332.42
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			184.68

Survey Program	Date	10/16/12	
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
79.92	4,332.42	Survey #1 (Pilot)	NS-GYRO-MS
4,361.00	9,430.00	Survey #1 (OH)	LEAM MWD
9,485.00	9,485.00	Survey #2 (OH)	Project
			Description
			North sensing gyrocompassing m/s
			MWD - Standard
			Projection

Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL(LTDS 2H)									
79.92	0.10	112.04	79.92	-0.03	0.06	0.02	0.13	0.13	0.00
174.42	0.14	117.09	174.42	-0.11	0.24	0.09	0.04	0.04	5.34
268.92	0.21	112.37	268.92	-0.23	0.51	0.19	0.08	0.07	-4.99
363.42	0.25	117.12	363.42	-0.39	0.85	0.32	0.05	0.04	5.03
457.92	0.36	113.47	457.92	-0.60	1.31	0.49	0.12	0.12	-3.86
552.42	0.49	119.30	552.41	-0.92	1.93	0.76	0.14	0.14	6.17
646.92	0.61	114.56	646.91	-1.32	2.74	1.10	0.14	0.13	-5.02

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 2H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3129' + KB 26' @ 3218.00usft (H&P 223)
Site:	Lone Tree Draw "13" State	MD Reference:	GE 3129' + KB 26' @ 3218.00usft (H&P 223)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single 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)
741.42	0.82	128.83	741.40	-1.96	3.73	1.65	0.29	0.22	15.10
835.92	0.96	127.13	835.89	-2.86	4.88	2.45	0.15	0.15	-1.80
930.42	1.19	125.77	930.37	-3.91	6.31	3.38	0.24	0.24	-1.44
1,024.92	1.31	125.45	1,024.85	-5.11	7.99	4.44	0.13	0.13	-0.34
1,119.42	1.50	132.49	1,119.32	-6.57	9.78	5.75	0.27	0.20	7.45
1,213.92	1.63	137.27	1,213.79	-8.39	11.60	7.42	0.19	0.14	5.06
1,308.42	2.23	143.02	1,308.23	-10.85	13.62	9.70	0.67	0.63	6.08
1,402.92	2.10	143.63	1,402.67	-13.71	15.75	12.38	0.14	-0.14	0.65
1,497.42	2.01	144.88	1,497.11	-16.46	17.73	14.96	0.11	-0.10	1.32
1,591.92	1.56	142.97	1,591.56	-18.85	19.46	17.20	0.48	-0.48	-2.02
1,686.42	1.55	128.51	1,686.03	-20.67	21.24	18.87	0.41	-0.01	-15.30
1,780.92	1.33	122.60	1,780.50	-22.05	23.16	20.09	0.28	-0.23	-6.25
1,875.42	0.93	121.45	1,874.98	-23.05	24.74	20.95	0.42	-0.42	-1.22
1,969.92	0.83	119.39	1,969.47	-23.78	25.99	21.58	0.11	-0.11	-2.18
2,064.42	0.74	118.34	2,063.96	-24.41	27.12	22.11	0.10	-0.10	-1.11
2,158.92	1.02	122.74	2,158.45	-25.15	28.37	22.75	0.30	0.30	4.66
2,253.42	1.04	120.15	2,252.93	-26.04	29.82	23.52	0.05	0.02	-2.74
2,347.92	1.05	119.75	2,347.42	-26.90	31.31	24.25	0.01	0.01	-0.42
2,442.42	0.95	116.51	2,441.90	-27.68	32.76	24.91	0.12	-0.11	-3.43
2,536.92	0.83	113.97	2,536.39	-28.30	34.09	25.43	0.13	-0.13	-2.69
2,606.54	0.84	117.28	2,606.00	-28.74	35.01	25.79	0.07	0.02	4.76
9 5/8"									
2,631.42	0.85	118.44	2,630.88	-28.92	35.33	25.94	0.07	0.02	4.64
2,725.92	0.82	118.35	2,725.37	-29.57	36.54	26.49	0.03	-0.03	-0.10
2,820.42	0.90	121.31	2,819.86	-30.28	37.77	27.10	0.10	0.08	3.13
2,914.92	1.02	120.69	2,914.35	-31.09	39.13	27.80	0.13	0.13	-0.66
3,009.42	0.88	117.15	3,008.83	-31.85	40.50	28.44	0.16	-0.15	-3.75
3,103.92	0.84	113.05	3,103.32	-32.46	41.78	28.94	0.08	-0.04	-4.34
3,198.42	0.94	104.75	3,197.81	-32.92	43.17	29.29	0.17	0.11	-8.78
3,292.92	1.09	95.77	3,292.30	-33.21	44.81	29.45	0.23	0.16	-9.50
3,387.42	1.02	86.72	3,386.78	-33.25	46.55	29.35	0.19	-0.07	-9.58
3,481.92	0.75	77.08	3,481.27	-33.07	47.99	29.04	0.33	-0.29	-10.20
3,576.42	0.73	72.58	3,575.76	-32.75	49.17	28.63	0.07	-0.02	-4.76
3,670.92	0.69	57.59	3,670.25	-32.26	50.22	28.06	0.20	-0.04	-15.86
3,765.42	0.78	45.14	3,764.75	-31.51	51.16	27.23	0.19	0.10	-13.17
3,859.92	0.80	36.94	3,859.24	-30.53	52.01	26.18	0.12	0.02	-8.68
3,954.42	0.74	43.83	3,953.73	-29.56	52.83	25.15	0.12	-0.06	7.29
4,048.92	0.62	33.11	4,048.22	-28.69	53.53	24.23	0.18	-0.13	-11.34
4,143.42	0.59	35.49	4,142.72	-27.86	54.09	23.36	0.04	-0.03	2.52
4,237.92	0.54	28.30	4,237.21	-27.08	54.59	22.53	0.09	-0.05	-7.61
4,332.42	0.53	25.97	4,331.71	-26.29	54.99	21.72	0.03	-0.01	-2.47
4,361.00	4.30	172.50	4,360.26	-27.24	55.19	22.64	16.62	13.19	512.70
4,393.00	6.60	177.40	4,392.12	-30.26	55.43	25.64	7.33	7.19	15.31

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 2H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3129' + KB 26' @ 3218.00usft (H&P 223)
Site:	Lone Tree Draw "13" State	MD Reference:	GE 3129' + KB 26' @ 3218.00usft (H&P 223)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single 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)
4,424.00	8.00	179.70	4,422.88	-34.20	55.52	29.56	4.61	4.52	7.42
4,456.00	9.90	181.10	4,454.47	-39.18	55.48	34.52	5.98	5.94	4.38
4,487.00	12.50	181.30	4,484.88	-45.20	55.35	40.53	8.39	8.39	0.65
4,518.00	15.00	180.90	4,514.99	-52.56	55.21	47.88	8.07	8.06	-1.29
4,550.00	17.70	180.60	4,545.69	-61.57	55.09	56.87	8.44	8.44	-0.94
4,581.00	20.70	181.30	4,574.97	-71.76	54.92	67.04	9.71	9.68	2.26
4,613.00	23.60	181.60	4,604.60	-83.82	54.61	79.09	9.07	9.06	0.94
4,644.00	26.40	182.30	4,632.69	-96.91	54.16	92.17	9.08	9.03	2.26
4,676.00	29.20	182.70	4,661.00	-111.82	53.51	107.08	8.77	8.75	1.25
4,707.00	32.10	183.20	4,687.66	-127.60	52.69	122.88	9.39	9.35	1.61
4,739.00	35.70	183.00	4,714.22	-145.42	51.73	140.72	11.26	11.25	-0.63
4,771.00	39.70	182.70	4,739.53	-164.96	50.76	160.27	12.51	12.50	-0.94
4,802.00	43.50	182.90	4,762.71	-185.51	49.75	180.84	12.27	12.26	0.65
4,833.00	45.90	184.30	4,784.74	-207.27	48.38	202.64	8.37	7.74	4.52
4,865.00	49.00	185.50	4,806.38	-230.76	46.36	226.21	10.07	9.89	3.75
4,897.00	53.40	186.60	4,826.43	-255.55	43.72	251.13	14.01	13.75	3.44
4,928.00	56.90	187.40	4,844.14	-280.80	40.62	276.55	11.49	11.29	2.58
4,960.00	60.20	186.60	4,860.83	-307.89	37.30	303.82	10.53	10.31	-2.50
4,991.00	62.80	186.70	4,875.63	-334.95	34.14	331.04	8.39	8.39	0.32
5,023.00	65.90	186.60	4,889.48	-363.59	30.80	359.87	9.69	9.69	-0.31
5,054.00	70.10	186.40	4,901.09	-392.15	27.55	388.59	13.56	13.55	-0.65
5,086.00	74.60	186.60	4,910.79	-422.44	24.10	419.06	14.08	14.06	0.63
5,117.00	77.10	186.70	4,918.36	-452.29	20.62	449.10	8.07	8.06	0.32
5,149.00	80.10	186.90	4,924.69	-483.44	16.90	480.45	9.39	9.38	0.63
5,181.00	82.60	186.60	4,929.50	-514.85	13.19	512.06	7.87	7.81	-0.94
5,212.00	84.50	186.00	4,932.98	-545.47	9.81	542.85	6.42	6.13	-1.94
5,243.82	86.19	185.90	4,935.56	-577.00	6.52	574.55	5.32	5.31	-0.31
LP Target(LTDS 2H)									
5,244.00	86.20	185.90	4,935.58	-577.19	6.50	574.73	5.32	5.31	-0.31
5,275.00	90.50	186.70	4,936.47	-607.98	3.10	605.70	14.11	13.87	2.58
5,307.00	91.90	187.30	4,935.80	-639.73	-0.80	637.67	4.76	4.38	1.88
5,396.00	89.00	188.30	4,935.10	-727.90	-12.88	726.52	3.45	-3.26	1.12
5,490.00	88.50	189.00	4,937.15	-820.80	-27.01	820.27	0.91	-0.53	0.74
5,585.00	90.00	188.10	4,938.39	-914.74	-41.13	915.04	1.84	1.58	-0.95
5,680.00	89.80	184.10	4,938.56	-1,009.18	-51.22	1,010.00	4.22	-0.21	-4.21
5,774.00	89.50	182.10	4,939.13	-1,103.04	-56.31	1,103.95	2.15	-0.32	-2.13
5,869.00	89.20	182.50	4,940.21	-1,197.95	-60.12	1,198.86	0.53	-0.32	0.42
5,963.00	88.70	183.20	4,941.93	-1,291.82	-64.79	1,292.80	0.92	-0.53	0.74
6,058.00	87.80	182.50	4,944.84	-1,386.66	-69.51	1,387.71	1.20	-0.95	-0.74
6,152.00	89.00	183.90	4,947.46	-1,480.47	-74.76	1,481.63	1.96	1.28	1.49
6,247.00	91.50	186.20	4,947.05	-1,575.09	-83.12	1,576.62	3.58	2.63	2.42
6,341.00	91.20	185.50	4,944.83	-1,668.57	-92.70	1,670.57	0.81	-0.32	-0.74
6,436.00	89.10	182.90	4,944.58	-1,763.30	-99.66	1,765.55	3.52	-2.21	-2.74
6,531.00	89.40	181.50	4,945.83	-1,858.22	-103.30	1,860.45	1.51	0.32	-1.47

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 2H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3129' + KB 26' @ 3218.00usft (H&P 223)
Site:	Lone Tree Draw "13" State	MD Reference:	GE 3129' + KB 26' @ 3218.00usft (H&P 223)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single 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)	
6,625.00	89.40	181.80	4,946.81	-1,952.18	-106.01	1,954.32	0.32	0.00	0.32	
6,719.00	90.10	184.30	4,947.22	-2,046.03	-111.01	2,048.27	2.76	0.74	2.66	
6,814.00	89.80	185.00	4,947.30	-2,140.72	-118.71	2,143.27	0.80	-0.32	0.74	
6,909.00	90.30	185.30	4,947.22	-2,235.34	-127.24	2,238.27	0.61	0.53	0.32	
7,003.00	90.00	184.80	4,946.97	-2,328.97	-135.51	2,332.26	0.62	-0.32	-0.53	
7,098.00	90.30	185.20	4,946.73	-2,423.61	-143.79	2,427.26	0.53	0.32	0.42	
7,193.00	91.50	186.40	4,945.23	-2,518.11	-153.39	2,522.23	1.79	1.26	1.26	
7,272.43	91.58	186.57	4,943.10	-2,597.00	-162.36	2,601.59	0.24	0.11	0.21	
T1(LTDS 2H)										
7,287.00	91.60	186.60	4,942.69	-2,611.47	-164.03	2,616.15	0.24	0.11	0.21	
7,382.00	92.00	186.90	4,939.71	-2,705.76	-175.19	2,711.04	0.53	0.42	0.32	
7,477.00	90.20	187.10	4,937.88	-2,800.03	-186.76	2,805.94	1.91	-1.89	0.21	
7,572.00	88.90	185.90	4,938.63	-2,894.42	-197.52	2,900.88	1.86	-1.37	-1.26	
7,667.00	88.70	186.40	4,940.62	-2,988.85	-207.69	2,995.83	0.57	-0.21	0.53	
7,761.00	88.40	186.60	4,943.00	-3,082.21	-218.33	3,089.75	0.38	-0.32	0.21	
7,856.00	88.60	187.30	4,945.48	-3,176.48	-229.82	3,184.64	0.77	0.21	0.74	
7,950.00	88.40	187.40	4,947.94	-3,269.68	-241.84	3,278.51	0.24	-0.21	0.11	
8,045.00	88.50	188.00	4,950.51	-3,363.79	-254.57	3,373.34	0.64	0.11	0.83	
8,140.00	88.30	187.80	4,953.17	-3,457.85	-267.62	3,468.16	0.30	-0.21	-0.21	
8,234.00	89.30	187.30	4,955.14	-3,551.01	-279.97	3,562.02	1.19	1.06	-0.53	
8,329.00	89.20	185.20	4,956.38	-3,645.43	-290.31	3,656.97	2.21	-0.11	-2.21	
8,423.00	90.70	185.50	4,956.46	-3,739.02	-299.07	3,750.96	1.63	1.60	0.32	
8,518.00	91.00	184.50	4,955.05	-3,833.65	-307.35	3,845.94	1.10	0.32	-1.05	
8,613.00	91.00	184.50	4,953.39	-3,928.34	-314.80	3,940.93	0.00	0.00	0.00	
8,707.00	89.90	183.00	4,952.66	-4,022.13	-320.95	4,034.91	1.98	-1.17	-1.60	
8,802.00	90.00	183.60	4,952.74	-4,116.98	-326.42	4,129.88	0.64	0.11	0.63	
8,897.00	90.50	185.70	4,952.32	-4,211.66	-334.12	4,224.88	2.27	0.53	2.21	
8,991.00	90.20	185.30	4,951.75	-4,305.22	-343.13	4,318.86	0.53	-0.32	-0.43	
9,086.00	88.30	183.90	4,952.99	-4,399.90	-350.75	4,413.85	2.48	-2.00	-1.47	
9,181.00	87.20	182.90	4,956.72	-4,494.66	-356.38	4,508.75	1.56	-1.16	-1.05	
9,275.00	87.80	183.20	4,960.82	-4,588.43	-361.37	4,602.62	0.71	0.64	0.32	
9,369.00	87.70	183.60	4,964.51	-4,682.20	-366.94	4,696.53	0.44	-0.11	0.43	
9,430.00	87.20	183.80	4,967.23	-4,743.01	-370.88	4,757.46	0.88	-0.82	0.33	
9,485.00	87.20	183.80	4,969.91	-4,797.82	-374.52	4,812.38	0.00	0.00	0.00	
PBHL(LTDS 2H)										