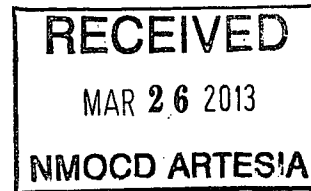




30-d15-40517

November 5, 2012

**Devon Energy
20 N. Broadway
Oklahoma City, Oklahoma 73102**



**Re: Final Directional Report
Burton Flat Deep Unit #47H
Eddy County, NM**

Included in this report are a directional comparison plot and final survey report, daily directional drilling reports, and final BHA reports.

The report covers the following:

Leam Job # 20121182D-MD from November 01, 2012 to November 12, 2012.
Drilling start depth of 5,971' MD to 13,250' total measured depth.

We appreciate you giving LEAM Drilling Systems, LLC the opportunity to do business with you and look forward to working with you in the future.

Regards,

Nora Tucker
Well Planner
LEAM Drilling Systems, LLC

DEVON ENERGY

Project: Eddy County, NM (NAD-83)
Site: Burton Flat Deep Unit
Well: #47H
Wellbore: OH
Design: OH



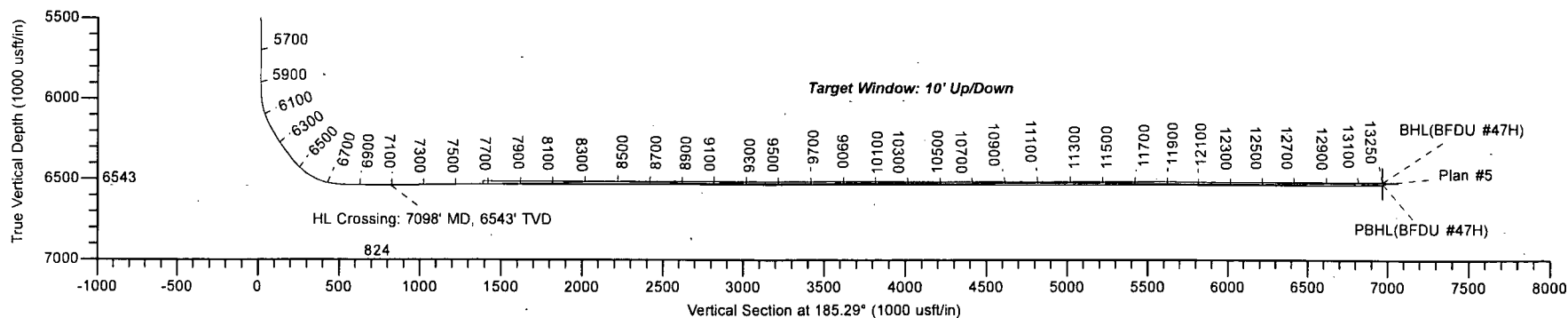
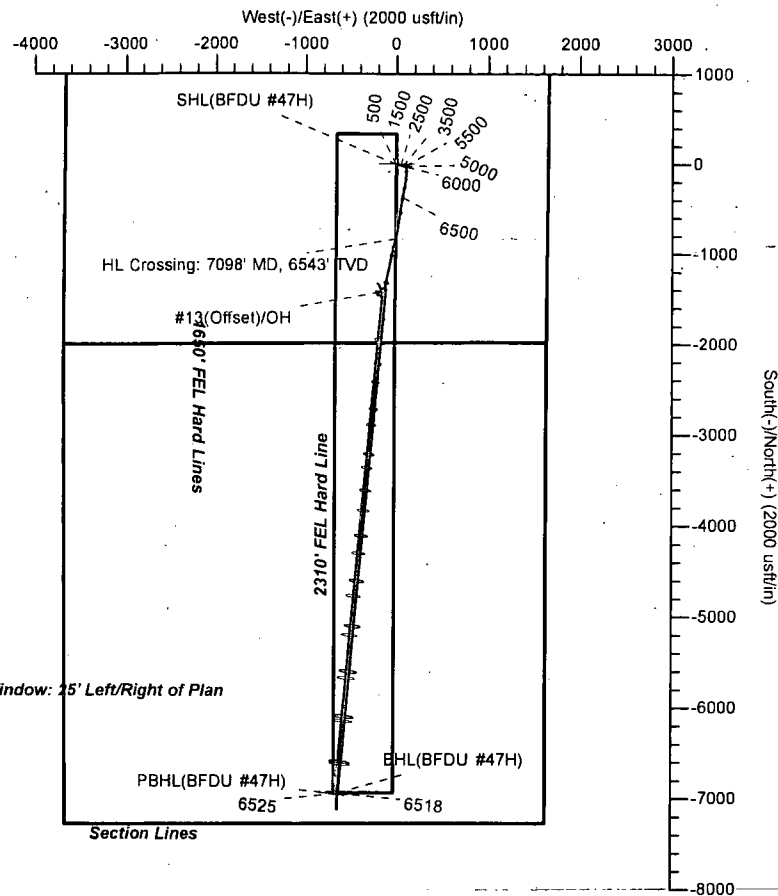
Azimuths to Grid North
True North: -0.08°
Magnetic North: 7.64°

Magnetic Field
Strength: 48607.8nT
Dip Angle: 60.34°
Date: 10/18/2012
Model: IGRF2010

devon

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(BFDU #47H)	0.00	0.00	0.00	561188.23	588697.47	32° 32' 33.612 N	104° 10' 46.709 W
SHL(BFDU #13)	10.00	-1320.93	-207.24	559867.30	588490.23	32° 32' 20.544 N	104° 10' 49.152 W
BHL(BFDU #47H)	6518.13	-6939.58	-628.90	554248.65	588068.57	32° 31' 24.950 N	104° 10' 54.171 W
PBHL(BFDU #47H)	6525.00	-6940.65	-643.00	554247.58	588054.47	32° 31' 24.940 N	104° 10' 54.336 W
T1(BFDU #47H)	6525.00	-3500.01	-324.25	557688.22	588373.22	32° 31' 58.982 N	104° 10' 50.555 W



LEAM DRILLING SYSTEMS LLC
2010 East Davis, Conroe, Texas 77301
Phone: 936/756-7577, Fax 936/756-7595

Design: OH (#47H/OH)
Burton Flat Deep Unit
Created By: Tyler Carlson
Date: 13:10, November 12 2012
Approved: _____ Date: _____

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #47H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3224' + KB 25' @ 3249.00usft (H&P 223)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3224' + KB 25' @ 3249.00usft (H&P 223)
Well:	#47H	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	Burton Flat Deep Unit		
Site Position:		Northing:	548,073.21 usft
From:	Map	Easting:	592,066.43 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 30' 23.782 N
		Longitude:	104° 10' 7.587 W
		Grid Convergence:	0.09 °

Well	#47H					
Well Position	+N/-S	0.00 usft	Northing:	561,188.23 usft	Latitude:	32° 32' 33.612 N
	+E/-W	0.00 usft	Easting:	588,697.47 usft	Longitude:	104° 10' 46.709 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,224.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/18/12	7.72	60.34	48,608

Design	OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	185.29

Survey Program	Date	11/12/12		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
124.00	5,858.00	Survey #1 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s
5,971.00	13,195.00	Survey #2 (OH)	LEAM MWD	MWD - Standard
13,250.00	13,250.00	Survey #3 (OH)	Project	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(BFDU #47H)									
124.00	1.13	219.78	123.99	-0.94	-0.78	1.01	0.91	0.91	0.00
218.00	1.13	219.43	217.97	-2.37	-1.96	2.54	0.01	0.00	-0.37
312.00	1.16	221.23	311.95	-3.80	-3.18	4.08	0.05	0.03	1.91
406.00	0.53	205.11	405.94	-4.91	-3.99	5.26	0.71	-0.67	-17.15
500.00	0.64	96.31	499.94	-5.36	-3.65	5.67	1.01	0.12	-115.74
594.00	1.11	75.51	593.93	-5.19	-2.25	5.38	0.60	0.50	-22.13
688.00	1.23	80.03	687.91	-4.79	-0.38	4.80	0.16	0.13	4.81

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #47H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3224' + KB 25' @ 3249.00usft (H&P 223)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3224' + KB 25' @ 3249.00usft (H&P 223)
Well:	#47H	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)
782.00	1.36	101.98	781.89	-4.84	1.71	4.67	0.54	0.14	23.35
876.00	1.49	111.42	875.86	-5.52	3.94	5.14	0.29	0.14	10.04
970.00	1.48	112.86	969.83	-6.44	6.19	5.84	0.04	-0.01	1.53
1,064.00	1.93	107.24	1,063.79	-7.38	8.82	6.54	0.51	0.48	-5.98
1,158.00	1.94	104.17	1,157.73	-8.24	11.88	7.11	0.11	0.01	-3.27
1,252.00	1.70	100.54	1,251.68	-8.88	14.79	7.48	0.28	-0.26	-3.86
1,346.00	1.64	100.41	1,345.64	-9.38	17.49	7.73	0.06	-0.06	-0.14
1,440.00	1.74	106.80	1,439.60	-10.04	20.18	8.13	0.23	0.11	6.80
1,534.00	1.83	110.31	1,533.56	-10.97	22.95	8.81	0.15	0.10	3.73
1,628.00	1.54	103.84	1,627.52	-11.79	25.58	9.38	0.37	-0.31	-6.88
1,722.00	1.58	103.15	1,721.48	-12.39	28.07	9.75	0.05	0.04	-0.73
1,816.00	1.42	103.38	1,815.45	-12.96	30.47	10.09	0.17	-0.17	0.24
1,910.00	1.48	107.09	1,909.42	-13.58	32.76	10.50	0.12	0.06	3.95
2,004.00	1.39	107.57	2,003.39	-14.28	35.01	10.99	0.10	-0.10	0.51
2,098.00	1.38	106.10	2,097.36	-14.94	37.18	11.45	0.04	-0.01	-1.56
2,192.00	1.30	108.37	2,191.34	-15.59	39.28	11.90	0.10	-0.09	2.41
2,286.00	1.40	108.40	2,285.31	-16.29	41.38	12.40	0.11	0.11	0.03
2,380.00	1.44	110.32	2,379.28	-17.06	43.58	12.97	0.07	0.04	2.04
2,474.00	1.68	111.43	2,473.25	-17.98	45.97	13.66	0.26	0.26	1.18
2,568.00	1.53	112.93	2,567.21	-18.97	48.41	14.42	0.17	-0.16	1.60
2,662.00	1.47	110.69	2,661.18	-19.88	50.69	15.12	0.09	-0.06	-2.38
2,756.00	1.40	109.01	2,755.15	-20.68	52.91	15.71	0.09	-0.07	-1.79
2,850.00	1.39	107.74	2,849.12	-21.40	55.08	16.23	0.03	-0.01	-1.35
2,944.00	1.29	106.76	2,943.10	-22.06	57.18	16.69	0.11	-0.11	-1.04
3,038.00	1.32	113.37	3,037.07	-22.79	59.18	17.23	0.16	0.03	7.03
3,132.00	1.11	104.13	3,131.05	-23.44	61.06	17.71	0.30	-0.22	-9.83
3,226.00	1.03	91.13	3,225.03	-23.68	62.79	17.79	0.27	-0.09	-13.83
3,320.00	1.09	98.88	3,319.02	-23.84	64.52	17.78	0.17	0.06	8.24
3,414.00	1.24	104.08	3,413.00	-24.22	66.39	17.99	0.20	0.16	-5.53
3,508.00	1.49	102.42	3,506.97	-24.73	68.57	18.30	0.27	0.27	-1.77
3,602.00	1.50	93.20	3,600.94	-25.06	70.99	18.41	0.26	0.01	-9.81
3,696.00	1.35	92.66	3,694.91	-25.18	73.32	18.31	0.16	-0.16	-0.57
3,790.00	1.12	74.53	3,788.89	-24.99	75.31	17.94	0.48	-0.24	-19.29
3,884.00	0.44	90.91	3,882.88	-24.75	76.56	17.58	0.75	-0.72	17.43
3,978.00	0.59	111.63	3,976.88	-24.94	77.37	17.69	0.25	0.16	22.04
4,072.00	0.94	97.94	4,070.87	-25.22	78.59	17.86	0.42	0.37	-14.56
4,166.00	0.92	102.80	4,164.86	-25.49	80.08	18.00	0.09	-0.02	5.17
4,260.00	0.54	107.86	4,258.85	-25.80	81.24	18.19	0.41	-0.40	5.38
4,354.00	0.58	100.19	4,352.84	-26.02	82.13	18.33	0.09	0.04	-8.16
4,448.00	0.77	86.40	4,446.84	-26.06	83.23	18.27	0.26	0.20	-14.67
4,542.00	0.50	77.41	4,540.83	-25.93	84.26	18.05	0.31	-0.29	-9.56
4,636.00	0.78	41.52	4,634.83	-25.36	85.09	17.41	0.51	0.30	-38.18
4,730.00	0.96	31.37	4,728.81	-24.21	85.92	16.18	0.25	0.19	-10.80

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #47H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3224' + KB 25' @ 3249.00usft (H&P 223)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3224' + KB 25' @ 3249.00usft (H&P 223)
Well:	#47H	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)	
4,824.00	0.83	33.04	4,822.80	-22.97	86.70	14.87	0.14	-0.14	1.78	
4,918.00	0.62	38.80	4,916.80	-22.00	87.39	13.85	0.24	-0.22	6.13	
5,012.00	0.10	13.07	5,010.79	-21.53	87.73	13.34	0.57	-0.55	-27.37	
5,106.00	0.44	333.19	5,104.79	-21.12	87.58	12.95	0.39	0.36	-42.43	
5,200.00	1.11	82.57	5,198.79	-20.68	88.32	12.45	1.41	0.71	116.36	
5,294.00	1.25	108.43	5,292.77	-20.89	90.20	12.48	0.58	0.15	27.51	
5,388.00	1.55	119.57	5,386.74	-21.84	92.28	13.24	0.43	0.32	11.85	
5,482.00	1.54	138.91	5,480.71	-23.42	94.21	14.63	0.55	-0.01	20.57	
5,576.00	2.19	116.65	5,574.66	-25.18	96.65	16.16	1.02	0.69	-23.68	
5,670.00	2.41	89.14	5,668.58	-25.95	100.23	16.60	1.19	0.23	-29.27	
5,764.00	2.18	89.14	5,762.51	-25.90	103.99	16.19	0.24	-0.24	0.00	
5,858.00	2.18	88.95	5,856.44	-25.84	107.57	15.81	0.01	0.00	-0.20	
5,971.00	1.80	169.00	5,969.39	-27.54	110.06	17.27	2.28	-0.34	70.84	
6,002.00	5.40	185.40	6,000.32	-29.47	110.01	19.20	11.96	11.61	52.90	
6,034.00	9.40	188.00	6,032.05	-33.56	109.51	23.32	12.54	12.50	8.13	
6,065.00	13.50	188.50	6,062.43	-39.65	108.62	29.46	13.23	13.23	1.61	
6,097.00	18.60	187.60	6,093.17	-48.41	107.39	38.29	15.96	15.94	-2.81	
6,128.00	22.60	182.70	6,122.18	-59.26	106.46	49.19	14.04	12.90	-15.81	
6,159.00	26.00	178.70	6,150.44	-72.01	106.33	61.90	12.18	10.97	-12.90	
6,191.00	29.10	177.80	6,178.80	-86.80	106.79	76.58	9.77	9.69	-2.81	
6,223.00	30.20	181.50	6,206.62	-102.63	106.88	92.33	6.67	3.44	11.56	
6,254.00	31.00	182.90	6,233.30	-118.39	106.27	108.08	3.46	2.58	4.52	
6,286.00	32.20	183.90	6,260.55	-135.13	105.27	124.84	4.09	3.75	3.13	
6,317.00	34.10	185.70	6,286.51	-152.02	103.85	141.79	6.90	6.13	5.81	
6,349.00	35.70	186.20	6,312.75	-170.23	101.95	160.10	5.08	5.00	1.56	
6,380.00	36.20	186.60	6,337.85	-188.31	99.92	178.29	1.78	1.61	1.29	
6,412.00	37.50	187.80	6,363.45	-207.35	97.51	197.47	4.64	4.06	3.75	
6,443.00	39.60	189.70	6,387.70	-226.44	94.56	216.75	7.78	6.77	6.13	
6,474.00	43.20	191.30	6,410.95	-246.59	90.82	237.16	12.10	11.61	5.16	
6,506.00	47.50	191.20	6,433.43	-268.92	86.38	259.80	13.44	13.44	-0.31	
6,537.00	51.30	190.80	6,453.60	-292.02	81.89	283.22	12.30	12.26	-1.29	
6,569.00	56.10	190.80	6,472.54	-317.34	77.06	308.88	15.00	15.00	0.00	
6,600.00	60.60	191.00	6,488.80	-343.25	72.07	335.14	14.53	14.52	0.65	
6,631.00	64.60	190.50	6,503.07	-370.28	66.94	362.53	12.98	12.90	-1.61	
6,662.00	70.20	190.50	6,514.97	-398.41	61.73	391.02	18.06	18.06	0.00	
6,694.00	75.40	189.60	6,524.43	-428.50	56.40	421.47	16.47	16.25	-2.81	
6,725.00	80.00	188.70	6,531.04	-458.40	51.58	451.68	15.11	14.84	-2.90	
6,757.00	84.50	187.50	6,535.35	-489.78	47.12	483.34	14.54	14.06	-3.75	
6,788.00	87.20	187.10	6,537.59	-520.45	43.19	514.24	8.80	8.71	-1.29	
6,820.00	89.30	186.60	6,538.57	-552.20	39.38	546.21	6.75	6.56	-1.56	
6,915.00	87.30	187.80	6,541.39	-646.40	27.48	641.11	2.45	-2.11	1.26	
7,009.00	90.00	191.00	6,543.60	-739.09	12.13	734.82	4.45	2.87	3.40	
7,098.60	90.28	192.32	6,543.38	-826.84	-5.98	823.87	1.51	0.32	1.47	
HL Crossing: 7098' MD, 6543' TVD										

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #47H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3224' + KB 25' @ 3249.00usft (H&P 223)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3224' + KB 25' @ 3249.00usft (H&P 223)
Well:	#47H	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)
7,104.00	90.30	192.40	6,543.36	-832.12	-7.13	829.23	1.51	0.32	1.47
7,198.00	91.50	192.90	6,541.88	-923.82	-27.72	922.44	1.38	1.28	0.53
7,293.00	90.90	192.70	6,539.89	-1,016.44	-48.76	1,016.60	0.67	-0.63	-0.21
7,386.00	91.00	192.40	6,538.35	-1,107.21	-68.96	1,108.85	0.34	0.11	-0.32
7,481.00	91.10	192.60	6,536.61	-1,199.94	-89.52	1,203.08	0.24	0.11	0.21
7,575.00	90.30	192.00	6,535.46	-1,291.77	-109.54	1,296.37	1.06	-0.85	-0.64
7,670.00	89.90	192.00	6,535.29	-1,384.70	-129.30	1,390.72	0.42	-0.42	0.00
7,765.00	91.10	188.90	6,534.46	-1,478.10	-146.52	1,485.32	3.50	1.26	-3.26
7,859.00	90.90	187.50	6,532.82	-1,571.13	-159.93	1,579.18	1.50	-0.21	-1.49
7,954.00	91.60	186.20	6,530.75	-1,665.42	-171.26	1,674.12	1.55	0.74	-1.37
8,048.00	91.40	186.90	6,528.29	-1,758.78	-181.98	1,768.06	0.77	-0.21	0.74
8,143.00	91.20	186.10	6,526.13	-1,853.14	-192.73	1,863.02	0.87	-0.21	-0.84
8,238.00	91.50	183.80	6,523.90	-1,947.75	-200.92	1,957.98	2.44	0.32	-2.42
8,332.00	91.60	183.40	6,521.35	-2,041.53	-206.82	2,051.91	0.44	0.11	-0.43
8,427.00	91.30	184.10	6,518.95	-2,136.30	-213.03	2,146.84	0.80	-0.32	0.74
8,521.00	88.50	182.00	6,519.11	-2,230.15	-218.03	2,240.76	3.72	-2.98	-2.23
8,616.00	89.10	182.20	6,521.10	-2,325.07	-221.51	2,335.59	0.67	0.63	0.21
8,710.00	89.50	183.40	6,522.25	-2,418.95	-226.11	2,429.49	1.35	0.43	1.28
8,805.00	88.50	183.60	6,523.91	-2,513.75	-231.90	2,524.43	1.07	-1.05	0.21
8,899.00	88.90	185.00	6,526.04	-2,607.46	-238.95	2,618.39	1.55	0.43	1.49
8,993.00	90.10	186.20	6,526.86	-2,701.01	-248.12	2,712.38	1.81	1.28	1.28
9,088.00	90.90	186.40	6,526.03	-2,795.43	-258.55	2,807.36	0.87	0.84	0.21
9,182.00	90.00	186.60	6,525.29	-2,888.82	-269.19	2,901.33	0.98	-0.96	0.21
9,276.00	89.10	186.90	6,526.03	-2,982.16	-280.24	2,995.30	1.01	-0.96	0.32
9,371.00	89.50	185.70	6,527.19	-3,076.58	-290.66	3,090.28	1.33	0.42	-1.26
9,466.00	90.30	185.20	6,527.36	-3,171.15	-299.68	3,185.27	0.99	0.84	-0.53
9,560.00	90.00	185.40	6,527.11	-3,264.75	-308.36	3,279.27	0.38	-0.32	0.21
9,655.00	89.10	184.50	6,527.86	-3,359.39	-316.56	3,374.27	1.34	-0.95	-0.95
9,749.00	90.50	184.10	6,528.19	-3,453.12	-323.61	3,468.25	1.55	1.49	-0.43
9,844.00	90.60	183.90	6,527.28	-3,547.89	-330.24	3,563.22	0.24	0.11	-0.21
9,938.00	90.10	183.80	6,526.70	-3,641.67	-336.55	3,657.19	0.54	-0.53	-0.11
10,033.00	89.60	184.50	6,526.95	-3,736.42	-343.42	3,752.17	0.91	-0.53	0.74
10,127.00	89.70	184.70	6,527.52	-3,830.12	-350.96	3,846.16	0.24	0.11	0.21
10,222.00	90.40	185.40	6,527.44	-3,924.75	-359.32	3,941.16	1.04	0.74	0.74
10,317.00	90.60	185.90	6,526.61	-4,019.28	-368.68	4,036.15	0.57	0.21	0.53
10,411.00	89.60	187.30	6,526.45	-4,112.65	-379.48	4,130.13	1.83	-1.06	1.49
10,506.00	88.50	187.80	6,528.02	-4,206.82	-391.96	4,225.04	1.27	-1.16	0.53
10,601.00	89.50	187.80	6,529.68	-4,300.92	-404.85	4,319.93	1.05	1.05	0.00
10,696.00	90.90	186.40	6,529.35	-4,395.19	-416.59	4,414.88	2.08	1.47	-1.47
10,790.00	91.50	187.50	6,527.38	-4,488.48	-427.96	4,508.82	1.33	0.64	1.17
10,885.00	90.80	187.60	6,525.47	-4,582.63	-440.44	4,603.72	0.74	-0.74	0.11
10,979.00	90.70	186.10	6,524.24	-4,675.95	-451.65	4,697.68	1.60	-0.11	-1.60
11,074.00	90.20	185.20	6,523.50	-4,770.48	-461.01	4,792.67	1.08	-0.53	-0.95

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #47H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3224' + KB 25' @ 3249.00usft (H&P 223)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3224' + KB 25' @ 3249.00usft (H&P 223)
Well:	#47H	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)	
11,169.00	89.90	185.20	6,523.42	-4,865.09	-469.62	4,887.67	0.32	-0.32	0.00	
11,225.00	89.80	185.70	6,523.56	-4,920.84	-474.93	4,943.67	0.91	-0.18	0.89	
11,320.00	89.80	185.50	6,523.89	-5,015.39	-484.20	5,038.67	0.21	0.00	-0.21	
11,414.00	89.60	185.40	6,524.39	-5,108.96	-493.13	5,132.67	0.24	-0.21	-0.11	
11,509.00	89.70	185.40	6,524.97	-5,203.54	-502.07	5,227.66	0.11	0.11	0.00	
11,603.00	89.50	185.20	6,525.62	-5,297.13	-510.76	5,321.66	0.30	-0.21	-0.21	
11,698.00	89.00	184.10	6,526.87	-5,391.81	-518.46	5,416.65	1.27	-0.53	-1.16	
11,793.00	88.90	183.80	6,528.61	-5,486.57	-525.00	5,511.60	0.33	-0.11	-0.32	
11,888.00	89.20	184.30	6,530.18	-5,581.32	-531.71	5,606.57	0.61	0.32	0.53	
11,983.00	89.20	183.80	6,531.51	-5,676.07	-538.42	5,701.54	0.53	0.00	-0.53	
12,077.00	89.30	183.40	6,532.74	-5,769.88	-544.32	5,795.49	0.44	0.11	-0.43	
12,172.00	89.50	184.50	6,533.73	-5,864.64	-550.86	5,890.45	1.18	0.21	1.16	
12,266.00	91.00	185.90	6,533.32	-5,958.25	-559.38	5,984.45	2.18	1.60	1.49	
12,361.00	91.10	184.80	6,531.58	-6,052.82	-568.24	6,079.43	1.16	-0.11	-1.16	
12,455.00	90.70	183.60	6,530.11	-6,146.55	-575.12	6,173.40	1.35	-0.43	-1.28	
12,550.00	91.40	183.40	6,528.36	-6,241.36	-580.92	6,268.34	0.77	0.74	-0.21	
12,645.00	90.80	182.00	6,526.54	-6,336.24	-585.39	6,363.22	1.60	-0.63	-1.47	
12,739.00	90.30	184.30	6,525.64	-6,430.08	-590.56	6,457.14	2.50	-0.53	2.45	
12,834.00	90.70	184.70	6,524.81	-6,524.79	-598.01	6,552.13	0.60	0.42	0.42	
12,928.00	90.70	184.30	6,523.66	-6,618.49	-605.39	6,646.11	0.43	0.00	-0.43	
13,023.00	90.90	184.10	6,522.33	-6,713.22	-612.34	6,741.09	0.30	0.21	-0.21	
13,117.00	91.00	184.10	6,520.78	-6,806.97	-619.06	6,835.05	0.11	0.11	0.00	
13,195.00	91.20	184.30	6,519.28	-6,884.75	-624.77	6,913.02	0.36	0.26	0.26	
13,250.00	91.20	184.30	6,518.13	-6,939.58	-628.90	6,968.00	0.00	0.00	0.00	
PBHL(BFDU #47H) - BHL(BFDU #47H)										

Design Targets										
Target Name.										
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting			
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude	
SHL(BFDU #47H)	0.00	0.01	0.00	0.00	0.00	561,188.23	588,697.47	32° 32' 33.612 N	104° 10' 46.709 W	
- actual wellpath hits target center										
- Point										
BHL(BFDU #47H)	0.00	0.01	6,518.13	-6,939.58	-628.90	554,248.65	588,068.57	32° 31' 24.950 N	104° 10' 54.171 W	
- actual wellpath hits target center										
- Point										
PBHL(BFDU #47H)	0.00	185.29	6,525.00	-6,940.65	-643.00	554,247.59	588,054.47	32° 31' 24.940 N	104° 10' 54.336 W	
- actual wellpath misses target center by 15.73usft at 13250.00usft MD (6518.13 TVD, -6939.58 N, -628.90 E)										
- Rectangle (sides W50.00 H5,579.65 D20.00)										

LEAM Drilling Systems LLC

Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #47H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3224' + KB 25' @ 3249.00usft (H&P 223)
Site:	Burton Flat Deep Unit	MD Reference:	GE 3224' + KB 25' @ 3249.00usft (H&P 223)
Well:	#47H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,098.60	6,543.38	-826.84	-5.98	HL Crossing: 7098' MD, 6543' TVD

Checked By: _____ Approved By: _____ Date: _____