



October 22, 2015

Devon Energy Production Company, L.P.
Well: Billiken 7 Federal #2H
County/Parish: Lea County, NM

HOBBS OCD
JUL 21 2017
RECEIVED

LEAM MWD: (OH) from 1,261' MD – 13,755' MD
Projection: 13,818'

This Borehole Survey taken between 10/08/15 and 10/21/15 had been conducted and calculated according to the highest professional standards and complies with all known State and Federal requirements.

Reviewed and Approved:

Date: October 22, 2015

Physical & Mailing: 303 Longmire Dr., Suite 801, Conroe, TX 77304
936-756-7577 • www.lead.net • 1 (800) 756-7504



Survey Certification Form

State of New Mexico

Lea County

I, Randy W. Rakowitz, certify that; I am employed by LEAM Drilling Systems LLC, that I did on the day(s) of October 8, 2015 through October 21, 2015, conduct or supervise the taking of MWD Survey from a depth of 1,261' to 13,818' 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 Production Company, L.P. for the Billiken 7 Federal #2H in Lea 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.

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

Randy W. Rakowitz
MWD Operations Coordinator

Leam Drilling Systems LLC

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3267' GL + 30' RKB @ 3297.00usft
Site:	Billiken 7 Federal	MD Reference:	3267' GL + 30' RKB @ 3297.00usft
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Multi_User Db

Project	Lea 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	Billiken 7 Federal		
Site Position:		Northing:	384,022.88 usft
From:	Map	Easting:	826,015.10 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 8.742 N
		Longitude:	103° 24' 52.118 W
		Grid Convergence:	0.49 °

Well	2H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty		0.00 usft	Wellhead Elevation:
			3,297.00 usft
			Latitude:
			32° 3' 9.237 N
			Longitude:
			103° 24' 52.118 W
			Ground Level:
			3,267.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	BGGM2015	09/17/15	(°)
			7.15
			Dip Angle
			(°)
			60.01
			Field Strength
			(nT)
			48,112

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			89.16

Survey Program	Date 10/22/15		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
212.00	1,098.00	Survey #1 (OH)	MWD-ISCWSA
1,261.00	13,755.00	Survey #2 (OH)	LEAM MWD+HDGM
13,818.00	13,818.00	Survey #3 (OH)	Project
			Description
			MWD - Standard
			MWD+HDGM
			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
212.00	1.00	329.21	211.99	1.59	-0.95	-0.92	0.47	0.47	0.00
303.00	0.88	338.91	302.98	2.92	-1.60	-1.56	0.22	-0.13	10.66
489.00	0.70	321.71	488.96	5.15	-2.82	-2.75	0.16	-0.10	-9.25
581.00	0.88	303.01	580.95	5.97	-3.76	-3.68	0.34	0.20	-20.33
644.00	1.32	292.93	643.94	6.52	-4.84	-4.74	0.76	0.70	-16.00
735.00	1.41	280.31	734.91	7.13	-6.90	-6.80	0.34	0.10	-13.87
825.00	1.58	273.11	824.88	7.39	-9.23	-9.12	0.28	0.19	-8.00
1,010.00	1.80	292.41	1,009.80	8.64	-14.47	-14.34	0.33	0.12	10.43

Leam Drilling Systems LLC

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Site:	Billiken 7 Federal	MD Reference:	3267' GL + 30' RKB @ 3297.00usft
Well:	2H	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)	
1,098.00	2.02	285.63	1,097.76	9.59	-17.24	-17.09	0.36	0.25	-7.70	
1,261.00	2.00	294.40	1,260.66	11.53	-22.59	-22.42	0.19	-0.01	5.38	
1,355.00	2.00	298.80	1,354.60	13.00	-25.52	-25.33	0.16	0.00	4.68	
1,450.00	1.90	313.10	1,449.54	14.88	-28.13	-27.91	0.52	-0.11	15.05	
1,545.00	1.80	322.60	1,544.49	17.14	-30.18	-29.93	0.34	-0.11	10.00	
1,640.00	1.80	333.70	1,639.45	19.66	-31.75	-31.46	0.37	0.00	11.68	
1,735.00	2.40	348.60	1,734.38	22.95	-32.81	-32.47	0.85	0.63	15.68	
1,830.00	3.30	356.20	1,829.27	27.63	-33.38	-32.97	1.03	0.95	8.00	
1,925.00	4.00	357.30	1,924.07	33.66	-33.72	-33.22	0.74	0.74	1.16	
2,020.00	4.90	1.60	2,018.79	41.03	-33.76	-33.15	1.01	0.95	4.53	
2,115.00	6.00	1.10	2,113.35	50.05	-33.55	-32.81	1.16	1.16	-0.53	
2,210.00	7.10	1.20	2,207.73	60.88	-33.33	-32.44	1.16	1.16	0.11	
2,305.00	7.70	3.10	2,301.94	73.11	-32.87	-31.79	0.68	0.63	2.00	
2,399.00	9.10	0.30	2,394.93	86.83	-32.49	-31.21	1.55	1.49	-2.98	
2,494.00	9.00	0.30	2,488.75	101.77	-32.41	-30.91	0.11	-0.11	0.00	
2,589.00	9.50	359.30	2,582.51	117.04	-32.46	-30.75	0.55	0.53	-1.05	
2,684.00	9.60	359.40	2,676.20	132.80	-32.64	-30.69	0.11	0.11	0.11	
2,779.00	9.20	0.00	2,769.92	148.32	-32.73	-30.55	0.43	-0.42	0.63	
2,874.00	9.10	0.90	2,863.71	163.43	-32.61	-30.21	0.18	-0.11	0.95	
2,969.00	9.70	359.60	2,957.44	178.94	-32.55	-29.92	0.67	0.63	-1.37	
3,063.00	9.20	0.90	3,050.16	194.37	-32.48	-29.63	0.58	-0.53	1.38	
3,158.00	9.70	0.60	3,143.87	209.97	-32.28	-29.20	0.53	0.53	-0.32	
3,253.00	10.70	0.50	3,237.37	226.79	-32.12	-28.79	1.05	1.05	-0.11	
3,348.00	10.70	0.20	3,330.72	244.43	-32.01	-28.43	0.06	0.00	-0.32	
3,443.00	10.20	2.80	3,424.14	261.65	-31.57	-27.73	0.72	-0.53	2.74	
3,538.00	10.30	4.00	3,517.62	278.52	-30.57	-26.48	0.25	0.11	1.26	
3,633.00	10.40	3.80	3,611.08	295.55	-29.41	-25.07	0.11	0.11	-0.21	
3,728.00	9.80	3.80	3,704.61	312.18	-28.30	-23.72	0.63	-0.63	0.00	
3,822.00	9.30	2.70	3,797.30	327.75	-27.41	-22.61	0.57	-0.53	-1.17	
3,917.00	9.30	1.40	3,891.05	343.09	-26.86	-21.83	0.22	0.00	-1.37	
4,012.00	8.90	359.90	3,984.86	358.11	-26.69	-21.44	0.49	-0.42	-1.58	
4,107.00	9.10	0.10	4,078.69	372.97	-26.69	-21.22	0.21	0.21	0.21	
4,202.00	8.80	359.70	4,172.53	387.75	-26.71	-21.03	0.32	-0.32	-0.42	
4,296.00	8.90	358.90	4,265.41	402.21	-26.89	-20.99	0.17	0.11	-0.85	
4,391.00	9.50	356.90	4,359.19	417.39	-27.46	-21.34	0.72	0.63	-2.11	
4,486.00	9.10	356.10	4,452.94	432.71	-28.39	-22.05	0.44	-0.42	-0.84	
4,581.00	9.10	357.70	4,546.75	447.71	-29.20	-22.64	0.27	0.00	1.68	
4,675.00	9.80	0.50	4,639.47	463.14	-29.43	-22.64	0.89	0.74	2.98	
4,770.00	9.30	5.50	4,733.16	478.86	-28.63	-21.60	1.02	-0.53	5.26	
4,865.00	9.20	4.40	4,826.92	494.08	-27.31	-20.06	0.21	-0.11	-1.16	
4,960.00	9.60	7.80	4,920.65	509.50	-25.65	-18.18	0.72	0.42	3.58	
5,055.00	9.20	11.70	5,014.37	524.78	-23.04	-15.34	0.79	-0.42	4.11	
5,150.00	9.20	10.20	5,108.15	539.69	-20.15	-12.24	0.25	0.00	-1.58	

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Survey									
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5,346.00	8.00	4.00	5,301.95	568.72	-16.42	-8.09	0.77	-0.61	-3.16
5,430.00	8.60	3.40	5,385.07	580.82	-15.64	-7.13	0.72	0.71	-0.71
5,525.00	10.50	0.20	5,478.75	596.57	-15.19	-6.45	2.08	2.00	-3.37
5,620.00	10.70	357.90	5,572.12	614.04	-15.49	-6.48	0.49	0.21	-2.42
5,715.00	11.00	356.20	5,665.43	631.90	-16.41	-7.14	0.46	0.32	-1.79
5,810.00	10.90	354.20	5,758.70	649.88	-17.92	-8.39	0.41	-0.11	-2.11
5,904.00	10.50	352.50	5,851.06	667.21	-19.93	-10.15	0.54	-0.43	-1.81
5,999.00	10.40	351.10	5,944.49	684.26	-22.39	-12.36	0.29	-0.11	-1.47
6,094.00	11.10	354.40	6,037.82	701.84	-24.61	-14.32	0.98	0.74	3.47
6,189.00	11.50	355.10	6,130.98	720.37	-26.31	-15.75	0.45	0.42	0.74
6,284.00	11.20	351.80	6,224.12	738.94	-28.44	-17.60	0.75	-0.32	-3.47
6,379.00	10.40	353.70	6,317.44	756.60	-30.69	-19.60	0.92	-0.84	2.00
6,474.00	9.80	353.70	6,410.97	773.16	-32.52	-21.18	0.63	-0.63	0.00
6,568.00	10.10	356.90	6,503.55	789.34	-33.84	-22.27	0.67	0.32	3.40
6,663.00	10.00	356.20	6,597.09	805.88	-34.84	-23.02	0.17	-0.11	-0.74
6,758.00	10.00	354.80	6,690.65	822.33	-36.14	-24.08	0.26	0.00	-1.47
6,853.00	10.10	353.10	6,784.19	838.81	-37.88	-25.58	0.33	0.11	-1.79
6,948.00	10.40	355.60	6,877.68	855.63	-39.54	-26.99	0.56	0.32	2.63
7,043.00	10.70	354.80	6,971.07	872.96	-41.00	-28.20	0.35	0.32	-0.84
7,137.00	10.70	352.40	7,063.44	890.30	-42.94	-29.89	0.47	0.00	-2.55
7,232.00	9.90	355.30	7,156.91	907.19	-44.78	-31.48	1.00	-0.84	3.05
7,327.00	9.50	355.00	7,250.55	923.14	-46.13	-32.59	0.42	-0.42	-0.32
7,421.00	8.90	353.50	7,343.34	938.09	-47.63	-33.87	0.69	-0.64	-1.60
7,516.00	8.90	352.20	7,437.20	952.67	-49.46	-35.49	0.21	0.00	-1.37
7,611.00	8.60	352.10	7,531.09	966.99	-51.43	-37.25	0.32	-0.32	-0.11
7,706.00	8.00	348.60	7,625.10	980.50	-53.72	-39.34	0.83	-0.63	-3.68
7,800.00	7.70	348.60	7,718.21	993.09	-56.26	-41.69	0.32	-0.32	0.00
7,895.00	7.60	344.50	7,812.37	1,005.38	-59.19	-44.45	0.58	-0.11	-4.32
7,990.00	7.00	342.00	7,906.60	1,016.94	-62.66	-47.74	0.71	-0.63	-2.63
8,085.00	6.00	337.00	8,000.99	1,027.02	-66.39	-51.33	1.21	-1.05	-5.26
8,179.00	5.50	334.40	8,094.52	1,035.60	-70.25	-55.07	0.60	-0.53	-2.77
8,274.00	4.50	331.80	8,189.15	1,042.99	-73.98	-58.68	1.08	-1.05	-2.74
8,369.00	3.70	327.40	8,283.91	1,048.86	-77.40	-62.01	0.90	-0.84	-4.63
8,464.00	3.50	327.60	8,378.72	1,053.89	-80.60	-65.14	0.21	-0.21	0.21
8,559.00	3.00	324.60	8,473.57	1,058.36	-83.59	-68.07	0.56	-0.53	-3.16
8,609.00	2.60	324.70	8,523.51	1,060.36	-85.01	-69.45	0.80	-0.80	0.20
8,642.00	2.60	319.20	8,556.47	1,061.53	-85.93	-70.36	0.76	0.00	-16.67
8,674.00	2.50	339.80	8,588.44	1,062.74	-86.65	-71.06	2.87	-0.31	64.38
8,705.00	3.90	37.20	8,619.40	1,064.21	-86.24	-70.63	10.67	4.52	185.16
8,737.00	7.60	57.30	8,651.24	1,066.22	-83.80	-68.16	12.99	11.56	62.81
8,768.00	11.60	63.40	8,681.80	1,068.73	-79.29	-63.61	13.30	12.90	19.68
8,815.00	18.20	68.70	8,727.19	1,073.51	-68.21	-52.47	14.32	14.04	11.28
8,863.00	24.50	74.30	8,771.88	1,078.94	-51.63	-35.80	13.78	13.13	11.67

Leam Drilling Systems LLC

Survey Report

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Site:	Billiken 7 Federal	MD Reference:	3267' GL + 30' RKB @ 3297.00usft
Well:	2H	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)
8,910.00	31.00	79.60	8,813.46	1,083.76	-30.31	-14.42	14.78	13.83	11.28
8,958.00	36.40	81.90	8,853.38	1,088.01	-4.04	11.91	11.56	11.25	4.79
9,005.00	41.30	82.90	8,889.97	1,091.89	25.18	41.18	10.51	10.43	2.13
9,053.00	46.30	84.90	8,924.61	1,095.39	58.20	74.25	10.81	10.42	4.17
9,099.00	50.60	85.80	8,955.11	1,098.17	92.51	108.60	9.46	9.35	1.96
9,148.00	54.60	85.20	8,984.87	1,101.23	131.30	147.43	8.22	8.16	-1.22
9,195.00	59.30	85.20	9,010.49	1,104.53	170.55	186.72	10.00	10.00	0.00
9,243.00	62.90	84.70	9,033.69	1,108.23	212.40	228.63	7.56	7.50	-1.04
9,290.00	66.00	84.90	9,053.96	1,112.07	254.63	270.90	6.61	6.60	0.43
9,350.00	71.40	86.10	9,075.74	1,116.45	310.33	326.67	9.19	9.00	2.00
9,381.00	73.90	85.60	9,084.99	1,118.59	339.84	356.21	8.21	8.06	-1.61
9,413.00	76.60	84.90	9,093.13	1,121.15	370.68	387.08	8.70	8.44	-2.19
9,444.00	78.90	84.50	9,099.71	1,123.95	400.84	417.28	7.53	7.42	-1.29
9,539.00	82.70	85.20	9,114.90	1,132.36	494.22	510.77	4.07	4.00	0.74
9,634.00	84.50	86.10	9,125.49	1,139.52	588.36	605.00	2.12	1.89	0.95
9,729.00	84.80	86.50	9,134.35	1,145.63	682.74	699.47	0.52	0.32	0.42
9,824.00	84.80	86.60	9,142.96	1,151.32	777.18	793.98	0.10	0.00	0.11
9,919.00	86.40	86.80	9,150.24	1,156.77	871.74	888.61	1.70	1.68	0.21
10,014.00	88.70	86.60	9,154.30	1,162.23	966.49	983.43	2.43	2.42	-0.21
10,109.00	90.80	87.00	9,154.72	1,167.54	1,061.34	1,078.34	2.25	2.21	0.42
10,203.00	91.10	87.40	9,153.16	1,172.13	1,155.21	1,172.27	0.53	0.32	0.43
10,298.00	91.50	87.20	9,151.00	1,176.60	1,250.08	1,267.20	0.47	0.42	-0.21
10,393.00	91.80	87.30	9,148.27	1,181.16	1,344.93	1,362.10	0.33	0.32	0.11
10,488.00	92.30	87.20	9,144.87	1,185.71	1,439.76	1,456.99	0.54	0.53	-0.11
10,583.00	91.50	88.00	9,141.72	1,189.69	1,534.62	1,551.90	1.19	-0.84	0.84
10,678.00	91.80	88.00	9,138.99	1,193.00	1,629.53	1,646.84	0.32	0.32	0.00
10,773.00	92.20	87.50	9,135.67	1,196.73	1,724.40	1,741.75	0.67	0.42	-0.53
10,868.00	90.70	88.70	9,133.27	1,199.88	1,819.31	1,836.70	2.02	-1.58	1.26
10,962.00	89.40	89.50	9,133.18	1,201.36	1,913.29	1,930.70	1.62	-1.38	0.85
11,057.00	89.60	89.10	9,134.01	1,202.52	2,008.28	2,025.70	0.47	0.21	-0.42
11,152.00	89.40	88.90	9,134.84	1,204.17	2,103.26	2,120.69	0.30	-0.21	-0.21
11,247.00	89.90	87.50	9,135.42	1,207.16	2,198.21	2,215.67	1.56	0.53	-1.47
11,342.00	88.00	87.70	9,137.16	1,211.13	2,293.11	2,310.62	2.01	-2.00	0.21
11,437.00	88.50	87.90	9,140.06	1,214.78	2,388.00	2,405.55	0.57	0.53	0.21
11,531.00	87.80	87.90	9,143.10	1,218.22	2,481.88	2,499.48	0.74	-0.74	0.00
11,626.00	86.50	88.60	9,147.82	1,221.12	2,576.72	2,594.34	1.55	-1.37	0.74
11,721.00	85.90	88.40	9,154.12	1,223.60	2,671.48	2,689.13	0.67	-0.63	-0.21
11,816.00	85.60	88.40	9,161.16	1,226.25	2,766.18	2,783.86	0.32	-0.32	0.00
11,911.00	86.30	88.00	9,167.87	1,229.22	2,860.89	2,878.61	0.85	0.74	-0.42
12,006.00	87.20	88.60	9,173.25	1,232.04	2,955.70	2,973.44	1.14	0.95	0.63
12,101.00	87.80	89.10	9,177.40	1,233.94	3,050.59	3,068.35	0.82	0.63	0.53
12,195.00	87.90	89.10	9,180.92	1,235.42	3,144.51	3,162.28	0.11	0.11	0.00
12,290.00	88.00	89.50	9,184.32	1,236.58	3,239.44	3,257.22	0.43	0.11	0.42
12,385.00	88.70	90.20	9,187.06	1,236.83	3,334.40	3,352.17	1.04	0.74	0.74

Leam Drilling Systems LLC

Survey Report

Company:	Devon Energy	Local Co-ordinate Reference:	Well 2H
Project:	Lea County, NM (NAD-83)	TVD Reference:	3267' GL + 30' RKB @ 3297.00usft
Site:	Billiken 7 Federal	MD Reference:	3267' GL + 30' RKB @ 3297.00usft
Well:	2H	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)	
12,479.00	87.90	89.10	9,189.85	1,237.40	3,428.36	3,446.13	1.45	-0.85	-1.17	
12,574.00	88.50	89.50	9,192.83	1,238.56	3,523.30	3,541.08	0.76	0.63	0.42	
12,669.00	86.70	87.30	9,196.81	1,241.21	3,618.17	3,635.98	2.99	-1.89	-2.32	
12,764.00	87.00	86.60	9,202.03	1,246.26	3,712.89	3,730.76	0.80	0.32	-0.74	
12,858.00	87.10	86.10	9,206.87	1,252.23	3,806.58	3,824.53	0.54	0.11	-0.53	
12,953.00	88.80	87.20	9,210.27	1,257.78	3,901.35	3,919.37	2.13	1.79	1.16	
13,047.00	85.10	87.50	9,215.27	1,262.12	3,995.10	4,013.17	3.95	-3.94	0.32	
13,142.00	87.20	88.70	9,221.65	1,265.26	4,089.83	4,107.93	2.54	2.21	1.26	
13,237.00	86.90	89.10	9,226.53	1,267.08	4,184.68	4,202.81	0.53	-0.32	0.42	
13,331.00	87.10	88.90	9,231.45	1,268.72	4,278.54	4,296.68	0.30	0.21	-0.21	
13,426.00	88.30	88.20	9,235.27	1,271.12	4,373.43	4,391.59	1.46	1.26	-0.74	
13,521.00	89.90	88.90	9,236.76	1,273.52	4,468.38	4,486.57	1.84	1.68	0.74	
13,616.00	89.40	88.60	9,237.34	1,275.60	4,563.36	4,581.57	0.61	-0.53	-0.32	
13,711.00	87.40	88.70	9,239.99	1,277.83	4,658.29	4,676.52	2.11	-2.11	0.11	
13,755.00	87.10	88.90	9,242.10	1,278.75	4,702.23	4,720.47	0.82	-0.68	0.45	
13,818.00	87.10	88.90	9,245.29	1,279.96	4,765.14	4,783.39	0.00	0.00	0.00	
Projection										