



D Culbertson 26-15S-36E TL State #234H
Lea County, NM

May 02, 2017

Job No. LNM5135217

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

May 02, 2017



Operator Name: Matador Resources
Well Name: D Culbertson 26-15S-36E TL State #234H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5135217

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

<u>Surveyor</u>	<u>Surveyed Depths</u>	<u>Projection to Bit</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
ProDirectional	200' MD – 15,944' MD	16,132' MD	03/17/17 – 04/08/17	MWD-OWSG

Sincerely,

Mike Coats
Well Planning
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266

prodirectional.com



Matador Resources

Lea County, NM

D Culbertson 26-15S-36E TL State

234H

OH

Survey: ProDirectional

Survey Report

02 May, 2017





ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: D Culbertson 26-15S-36E TL State
Well: 234H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well 234H
TVD Reference: Rig @ 3887.50usft (GL: 3859' + KB: 28.5' (Pat809))
MD Reference: Rig @ 3887.50usft (GL: 3859' + KB: 28.5' (Pat809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Project Lea County, NM

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site D Culbertson 26-15S-36E TL State

Site Position:	Northing:	722,689.00 usft	Latitude:	32° 58' 55.941 N
From: Map	Easting:	826,347.00 usft	Longitude:	103° 16' 8.787 W
Position Uncertainty: 0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.58 °

Well 234H

Well Position	+N/-S	0.00 usft	Northing:	722,689.00 usft	Latitude:	32° 58' 55.941 N
	+E/-W	0.00 usft	Easting:	826,347.00 usft	Longitude:	103° 16' 8.787 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,859.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/23/2017	6.90	60.85	48,331.20

Design MWD

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	359.46

Survey Program Date 4/9/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.00	16,132.00	Survey #1 (OH)	MWD - OWSG	MWD - OWSG



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	722,689.00	826,347.00
200.00	0.40	322.30	200.00	0.56	0.55	-0.43	0.70	322.30	722,689.55	826,346.57
Pro MWD First Survey: 200' MD										
229.00	0.50	322.00	229.00	0.74	0.73	-0.57	0.93	322.26	722,689.73	826,346.43
323.00	0.50	293.30	322.99	1.23	1.22	-1.20	1.71	315.51	722,690.22	826,345.80
451.00	0.50	282.60	450.99	1.58	1.56	-2.25	2.74	304.69	722,690.56	826,344.75
548.00	0.60	299.40	547.98	1.93	1.90	-3.11	3.65	301.45	722,690.90	826,343.89
610.00	0.50	290.70	609.98	2.19	2.16	-3.65	4.24	300.61	722,691.16	826,343.35
701.00	0.60	303.60	700.98	2.60	2.56	-4.41	5.10	300.12	722,691.56	826,342.59
795.00	0.60	303.20	794.97	3.15	3.10	-5.24	6.09	300.65	722,692.10	826,341.76
886.00	0.60	278.60	885.97	3.49	3.44	-6.11	7.01	299.36	722,692.44	826,340.89
978.00	0.80	319.00	977.96	4.06	3.99	-7.00	8.06	299.68	722,692.99	826,340.00
1,071.00	1.00	326.90	1,070.95	5.24	5.16	-7.87	9.41	303.25	722,694.16	826,339.13
1,164.00	1.10	326.00	1,163.93	6.66	6.58	-8.81	11.00	306.75	722,695.58	826,338.19
1,257.00	0.90	314.50	1,256.92	7.93	7.83	-9.83	12.57	308.54	722,696.83	826,337.17
1,350.00	0.70	338.60	1,349.91	8.97	8.87	-10.56	13.80	310.04	722,697.87	826,336.44
1,444.00	0.50	295.10	1,443.91	9.69	9.58	-11.14	14.70	310.69	722,698.58	826,335.86
1,536.00	0.30	139.60	1,535.91	9.68	9.57	-11.35	14.85	310.13	722,698.57	826,335.65
1,626.00	0.40	146.40	1,625.90	9.23	9.13	-11.02	14.31	309.63	722,698.13	826,335.98
1,719.00	0.50	119.40	1,718.90	8.76	8.66	-10.49	13.60	309.54	722,697.66	826,336.51
1,812.00	0.50	146.30	1,811.90	8.22	8.12	-9.91	12.82	309.33	722,697.12	826,337.09
1,904.00	0.30	161.60	1,903.90	7.65	7.56	-9.61	12.23	308.18	722,696.56	826,337.39
1,998.00	1.00	238.00	1,997.89	6.99	6.89	-10.23	12.34	303.96	722,695.89	826,336.77
2,183.00	1.90	251.20	2,182.83	5.18	5.05	-14.50	15.36	289.19	722,694.05	826,332.50
2,277.00	0.90	193.00	2,276.80	3.98	3.83	-16.15	16.59	283.33	722,692.83	826,330.85
2,370.00	2.30	125.40	2,369.77	2.17	2.03	-14.79	14.93	277.83	722,691.03	826,332.21
2,463.00	3.80	115.90	2,462.64	-0.30	-0.39	-10.49	10.50	267.85	722,688.61	826,336.51



ProDirectional Survey Report



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Wellbore: OH
Design: MWD

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Database: WellPlanner1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
2,556.00	4.50	112.00	2,555.39	-3.07	-3.11	-4.34	5.34	234.40	722,685.89	826,342.66
2,649.00	5.60	104.60	2,648.03	-5.65	-5.62	3.43	6.58	148.56	722,683.38	826,350.43
2,743.00	5.70	106.30	2,741.58	-8.20	-8.08	12.35	14.76	123.20	722,680.92	826,359.35
2,836.00	5.80	107.70	2,834.11	-11.01	-10.81	21.26	23.85	116.95	722,678.19	826,368.26
2,929.00	5.70	109.70	2,926.64	-14.08	-13.79	30.09	33.10	114.63	722,675.21	826,377.09
3,022.00	5.30	113.70	3,019.21	-17.44	-17.08	38.37	42.00	113.99	722,671.92	826,385.37
3,116.00	5.00	117.00	3,112.83	-21.11	-20.68	45.99	50.43	114.21	722,668.32	826,392.99
3,210.00	5.60	117.20	3,206.43	-25.14	-24.64	53.72	59.10	114.64	722,664.36	826,400.72
3,303.00	6.40	117.20	3,298.92	-29.67	-29.08	62.37	68.82	115.00	722,659.92	826,409.37
3,396.00	6.20	117.00	3,391.36	-34.40	-33.73	71.45	79.01	115.27	722,655.27	826,418.45
3,490.00	5.90	118.40	3,484.83	-39.09	-38.33	80.23	88.91	115.54	722,650.67	826,427.23
3,584.00	5.60	117.80	3,578.36	-43.60	-42.77	88.53	98.32	115.79	722,646.23	826,435.53
3,677.00	5.40	117.00	3,670.93	-47.78	-46.87	96.45	107.23	115.92	722,642.13	826,443.45
3,770.00	5.10	117.40	3,763.54	-51.74	-50.76	104.01	115.74	116.01	722,638.24	826,451.01
3,864.00	5.00	115.00	3,857.18	-55.46	-54.42	111.44	124.01	116.03	722,634.58	826,458.44
3,958.00	5.10	112.00	3,950.81	-58.83	-57.71	119.02	132.28	115.87	722,631.29	826,466.02
4,051.00	5.10	110.30	4,043.45	-61.89	-60.69	126.73	140.52	115.59	722,628.31	826,473.73
4,145.00	5.60	109.20	4,137.04	-64.92	-63.65	134.98	149.24	115.25	722,625.35	826,481.98
4,238.00	5.90	108.40	4,229.57	-68.01	-66.65	143.80	158.50	114.87	722,622.35	826,490.80
4,332.00	5.60	110.60	4,323.09	-71.23	-69.79	152.68	167.88	114.57	722,619.21	826,499.68
4,425.00	4.90	110.80	4,415.70	-74.31	-72.80	160.64	176.37	114.38	722,616.20	826,507.64
4,519.00	4.40	113.40	4,509.39	-77.23	-75.66	167.70	183.98	114.28	722,613.34	826,514.70
4,612.00	3.70	112.50	4,602.16	-79.86	-78.22	173.75	190.55	114.24	722,610.78	826,520.75
4,705.00	3.00	113.60	4,695.00	-82.03	-80.34	178.75	195.98	114.20	722,608.66	826,525.75
4,800.00	3.40	109.30	4,789.85	-84.00	-82.27	183.69	201.27	114.13	722,606.73	826,530.69
4,893.00	4.40	104.60	4,882.64	-85.87	-84.08	189.74	207.54	113.90	722,604.92	826,536.74
4,952.00	4.30	104.50	4,941.47	-87.03	-85.21	194.08	211.96	113.70	722,603.79	826,541.08



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Well: 234H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well 234H
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
5,081.00	3.60	107.90	5,070.16	-89.57	-87.66	202.61	220.76	113.40	722,601.34	826,549.61
5,174.00	5.40	103.00	5,162.87	-91.52	-89.54	209.65	227.98	113.13	722,599.46	826,556.65
5,268.00	5.80	103.00	5,256.42	-93.66	-91.61	218.59	237.01	112.74	722,597.39	826,565.59
5,361.00	6.60	104.60	5,348.88	-96.16	-94.01	228.34	246.94	112.38	722,594.99	826,575.34
5,455.00	7.10	106.70	5,442.21	-99.29	-97.04	239.13	258.08	112.09	722,591.96	826,586.13
5,549.00	6.80	104.20	5,535.51	-102.43	-100.08	250.09	269.37	111.81	722,588.92	826,597.09
5,642.00	6.40	106.20	5,627.90	-105.32	-102.87	260.41	279.99	111.56	722,586.13	826,607.41
5,735.00	6.10	103.20	5,720.35	-107.99	-105.45	270.20	290.04	111.32	722,583.55	826,617.20
5,829.00	8.00	111.40	5,813.63	-111.62	-108.98	281.15	301.53	111.19	722,580.02	826,628.15
5,922.00	8.40	114.30	5,905.68	-116.89	-114.13	293.37	314.79	111.26	722,574.87	826,640.37
6,016.00	7.90	116.20	5,998.73	-122.68	-119.81	305.42	328.08	111.42	722,569.19	826,652.42
6,110.00	7.60	114.50	6,091.87	-128.22	-125.24	316.87	340.73	111.57	722,563.76	826,663.87
6,203.00	7.30	115.10	6,184.09	-133.38	-130.30	327.82	352.77	111.68	722,558.70	826,674.82
6,296.00	7.10	114.80	6,276.36	-138.40	-135.21	338.39	364.40	111.78	722,553.79	826,685.39
6,390.00	6.90	116.60	6,369.66	-143.46	-140.18	348.71	375.83	111.90	722,548.82	826,695.71
6,484.00	6.40	117.30	6,463.02	-148.48	-145.11	358.42	386.68	112.04	722,543.89	826,705.42
6,577.00	6.00	114.90	6,555.48	-152.99	-149.53	367.43	396.69	112.14	722,539.47	826,714.43
6,670.00	5.30	115.60	6,648.03	-156.97	-153.44	375.71	405.84	112.21	722,535.56	826,722.71
6,764.00	4.80	115.10	6,741.66	-160.59	-156.98	383.19	414.10	112.28	722,532.02	826,730.19
6,858.00	6.10	105.60	6,835.24	-163.68	-159.99	391.56	422.99	112.22	722,529.01	826,738.56
6,951.00	5.80	101.90	6,927.74	-166.06	-162.29	400.92	432.52	112.04	722,526.71	826,747.92
7,045.00	4.90	100.60	7,021.33	-167.86	-164.01	409.51	441.13	111.83	722,524.99	826,756.51
7,138.00	6.30	99.70	7,113.88	-169.53	-165.60	418.45	450.02	111.59	722,523.40	826,765.45
7,232.00	6.70	99.90	7,207.27	-171.45	-167.41	428.93	460.45	111.32	722,521.59	826,775.93
7,325.00	5.90	98.50	7,299.71	-173.18	-169.05	439.01	470.43	111.06	722,519.95	826,786.01
7,419.00	5.50	94.30	7,393.25	-174.32	-170.10	448.28	479.46	110.78	722,518.90	826,795.28
7,513.00	6.70	99.60	7,486.71	-175.66	-171.35	458.18	489.17	110.51	722,517.65	826,805.18



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7,606.00	7.10	102.90	7,579.04	-177.96	-173.54	469.13	500.20	110.30	722,515.46	826,816.13
7,700.00	6.30	103.30	7,672.40	-180.54	-176.03	479.81	511.08	110.15	722,512.97	826,826.81
7,793.00	5.10	104.80	7,764.94	-182.85	-178.25	488.77	520.26	110.04	722,510.75	826,835.77
7,887.00	5.90	106.60	7,858.50	-185.38	-180.70	497.44	529.25	109.96	722,508.30	826,844.44
7,980.00	6.20	109.20	7,950.99	-188.49	-183.72	506.76	539.04	109.93	722,505.28	826,853.76
8,074.00	6.00	108.10	8,044.45	-191.77	-186.92	516.23	549.02	109.90	722,502.08	826,863.23
8,167.00	5.30	105.80	8,137.00	-194.53	-189.59	524.98	558.17	109.86	722,499.41	826,871.98
8,261.00	6.90	117.50	8,230.47	-198.41	-193.38	534.17	568.10	109.90	722,495.62	826,881.17
8,354.00	7.60	119.80	8,322.73	-204.14	-199.02	544.46	579.69	110.08	722,489.98	826,891.46
8,448.00	6.90	122.20	8,415.97	-210.34	-205.12	554.63	591.35	110.30	722,483.88	826,901.63
8,541.00	6.00	120.60	8,508.38	-215.87	-210.57	563.54	601.80	110.49	722,478.43	826,910.54
8,635.00	7.60	113.10	8,601.72	-220.91	-215.51	573.49	612.65	110.60	722,473.49	826,920.49
8,729.00	7.30	112.80	8,694.93	-225.76	-220.26	584.71	624.82	110.64	722,468.74	826,931.71
8,822.00	6.40	111.70	8,787.26	-230.07	-224.47	594.98	635.91	110.67	722,464.53	826,941.98
8,916.00	6.00	109.20	8,880.71	-233.71	-228.02	604.48	646.06	110.67	722,460.98	826,951.48
9,009.00	7.80	114.90	8,973.04	-238.06	-232.28	614.80	657.21	110.70	722,456.72	826,961.80
9,103.00	8.00	117.90	9,066.15	-243.92	-238.02	626.37	670.07	110.81	722,450.98	826,973.37
9,196.00	7.50	118.20	9,158.30	-249.92	-243.92	637.43	682.51	110.94	722,445.08	826,984.43
9,290.00	7.00	118.30	9,251.54	-255.63	-249.54	647.88	694.28	111.06	722,439.46	826,994.88
9,383.00	6.90	114.90	9,343.86	-260.76	-254.57	657.94	705.47	111.15	722,434.43	827,004.94
9,477.00	6.60	115.50	9,437.21	-265.56	-259.28	667.94	716.50	111.21	722,429.72	827,014.94
9,570.00	6.10	116.80	9,529.64	-270.18	-263.81	677.17	726.74	111.28	722,425.19	827,024.17
9,664.00	6.00	120.90	9,623.12	-275.03	-268.58	685.85	736.56	111.39	722,420.42	827,032.85
9,757.00	6.10	123.50	9,715.60	-280.33	-273.80	694.14	746.19	111.53	722,415.20	827,041.14
9,851.00	6.40	124.40	9,809.04	-286.13	-279.52	702.62	756.18	111.69	722,409.48	827,049.62
9,944.00	6.60	125.70	9,901.44	-292.26	-285.57	711.24	766.43	111.88	722,403.43	827,058.24
10,038.00	6.70	125.20	9,994.81	-298.65	-291.88	720.11	777.01	112.06	722,397.12	827,067.11



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Wellbore: OH
Design: MWD

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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
10,132.00	5.70	127.30	10,088.26	-304.72	-297.87	728.30	786.86	112.24	722,391.13	827,075.30
10,225.00	4.00	117.50	10,180.92	-309.08	-302.17	734.86	794.55	112.35	722,386.83	827,081.86
10,318.00	3.00	104.70	10,273.75	-311.24	-304.28	740.09	800.20	112.35	722,384.72	827,087.09
10,413.00	2.90	115.50	10,368.62	-312.95	-305.95	744.66	805.06	112.34	722,383.05	827,091.66
10,506.00	2.60	117.50	10,461.52	-314.98	-307.94	748.65	809.51	112.36	722,381.06	827,095.65
10,600.00	1.70	130.70	10,555.45	-316.90	-309.83	751.60	812.96	112.40	722,379.17	827,098.60
10,693.00	1.50	128.00	10,648.41	-318.57	-311.48	753.61	815.44	112.46	722,377.52	827,100.61
10,787.00	2.20	60.70	10,742.37	-318.46	-311.35	756.15	817.74	112.38	722,377.65	827,103.15
10,873.00	8.20	22.40	10,828.00	-312.02	-304.87	759.93	818.80	111.86	722,384.13	827,106.93
10,920.00	13.10	11.10	10,874.18	-303.71	-296.54	762.24	817.89	111.26	722,392.46	827,109.24
10,966.00	18.60	6.10	10,918.42	-291.30	-284.12	764.02	815.14	110.40	722,404.88	827,111.02
11,013.00	23.00	4.00	10,962.34	-274.70	-267.49	765.46	810.85	109.26	722,421.51	827,112.46
11,060.00	27.80	2.70	11,004.79	-254.59	-247.37	766.62	805.54	107.88	722,441.63	827,113.62
11,107.00	31.50	5.60	11,045.63	-231.43	-224.20	768.33	800.37	106.27	722,464.80	827,115.33
11,154.00	32.10	6.80	11,085.57	-206.83	-199.58	771.01	796.42	104.51	722,489.42	827,118.01
11,201.00	35.80	7.60	11,124.55	-180.83	-173.54	774.31	793.52	102.63	722,515.46	827,121.31
11,247.00	39.80	6.90	11,160.89	-152.90	-145.58	777.86	791.36	100.60	722,543.42	827,124.86
11,294.00	43.80	4.50	11,195.93	-121.77	-114.41	780.94	789.28	98.34	722,574.59	827,127.94
11,341.00	47.20	2.50	11,228.87	-88.34	-80.96	782.97	787.14	95.90	722,608.04	827,129.97
11,371.00	49.90	1.00	11,248.72	-65.87	-58.49	783.65	785.83	94.27	722,630.51	827,130.65
11,381.00	51.06	0.67	11,255.09	-58.16	-50.78	783.76	785.40	93.71	722,638.22	827,130.76
XL Xing: 11381' MD										
11,402.00	53.50	0.00	11,267.93	-41.55	-34.17	783.86	784.60	92.50	722,654.83	827,130.86
11,434.00	57.80	359.20	11,285.99	-15.14	-7.75	783.67	783.71	90.57	722,681.25	827,130.67
11,481.00	64.00	358.40	11,308.83	25.90	33.28	782.80	783.51	87.57	722,722.28	827,129.80
11,527.00	70.10	358.90	11,326.76	68.24	75.61	781.81	785.45	84.48	722,764.61	827,128.81
11,551.00	74.20	359.30	11,334.12	91.08	98.45	781.45	787.63	82.82	722,787.45	827,128.45



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: D Culbertson 26-15S-36E TL State
Well: 234H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well 234H
TVD Reference: Rig @ 3887.50usft (GL: 3859' + KB: 28.5' (Pat809))
MD Reference: Rig @ 3887.50usft (GL: 3859' + KB: 28.5' (Pat809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
11,614.00	80.20	1.20	11,348.07	152.47	159.85	781.73	797.90	78.44	722,848.85	827,128.73
11,708.00	87.40	359.50	11,358.21	245.85	253.23	782.29	822.26	72.06	722,942.23	827,129.29
11,739.00	92.00	359.20	11,358.38	276.84	284.22	781.94	831.99	70.02	722,973.22	827,128.94
11,802.00	92.50	359.30	11,355.90	339.79	347.17	781.11	854.79	66.04	723,036.17	827,128.11
11,896.00	88.90	0.10	11,354.76	433.77	441.14	780.62	896.65	60.53	723,130.14	827,127.62
11,990.00	88.70	359.40	11,356.72	527.74	535.12	780.21	946.09	55.56	723,224.12	827,127.21
12,085.00	89.80	359.50	11,357.97	622.73	630.11	779.30	1,002.17	51.04	723,319.11	827,126.30
12,179.00	88.10	1.10	11,359.69	716.70	724.08	779.79	1,064.13	47.12	723,413.08	827,126.79
12,273.00	88.40	1.40	11,362.56	810.61	818.02	781.84	1,131.56	43.70	723,507.02	827,128.84
12,368.00	89.00	1.00	11,364.72	905.54	912.97	783.83	1,203.29	40.65	723,601.97	827,130.83
12,462.00	89.30	0.30	11,366.11	999.51	1,006.95	784.90	1,276.72	37.94	723,695.95	827,131.90
12,556.00	89.60	359.50	11,367.01	1,093.50	1,100.95	784.73	1,352.00	35.48	723,789.95	827,131.73
12,650.00	89.00	359.20	11,368.16	1,187.50	1,194.94	783.67	1,428.99	33.26	723,883.94	827,130.67
12,744.00	88.50	0.40	11,370.21	1,281.47	1,288.91	783.34	1,508.28	31.29	723,977.91	827,130.34
12,838.00	89.20	0.10	11,372.10	1,375.44	1,382.89	783.75	1,589.54	29.54	724,071.89	827,130.75
12,933.00	89.60	359.80	11,373.09	1,470.43	1,477.88	783.67	1,672.80	27.94	724,166.88	827,130.67
13,026.00	88.30	0.90	11,374.80	1,563.40	1,570.86	784.23	1,755.74	26.53	724,259.86	827,131.23
13,121.00	88.90	1.20	11,377.12	1,658.34	1,665.82	785.97	1,841.93	25.26	724,354.82	827,132.97
13,215.00	90.20	3.20	11,377.86	1,752.22	1,759.74	789.58	1,928.76	24.17	724,448.74	827,136.58
13,309.00	88.90	1.20	11,378.60	1,846.10	1,853.66	793.19	2,016.24	23.17	724,542.66	827,140.19
13,403.00	89.10	0.50	11,380.24	1,940.06	1,947.64	794.58	2,103.48	22.19	724,636.64	827,141.58
13,496.00	89.90	0.30	11,381.05	2,033.04	2,040.63	795.23	2,190.11	21.29	724,729.63	827,142.23
13,590.00	87.00	357.00	11,383.59	2,126.98	2,134.55	793.02	2,277.10	20.38	724,823.55	827,140.02
13,684.00	87.50	356.20	11,388.10	2,220.75	2,228.27	787.45	2,363.32	19.46	724,917.27	827,134.45
13,778.00	88.40	356.30	11,391.46	2,314.54	2,322.01	781.31	2,449.93	18.60	725,011.01	827,128.31
13,872.00	89.00	358.30	11,393.60	2,408.45	2,415.88	776.88	2,537.72	17.83	725,104.88	827,123.88
13,965.00	89.30	358.10	11,394.98	2,501.41	2,508.82	773.96	2,625.49	17.14	725,197.82	827,120.96



ProDirectional Survey Report



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Project: Lea County, NM
Site: D Culbertson 26-15S-36E TL State
Well: 234H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well 234H
TVD Reference: Rig @ 3887.50usft (GL: 3859' + KB: 28.5' (Patt809))
MD Reference: Rig @ 3887.50usft (GL: 3859' + KB: 28.5' (Patt809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
14,059.00	90.70	358.80	11,394.98	2,595.40	2,602.78	771.42	2,714.69	16.51	725,291.78	827,118.42
14,154.00	89.50	357.60	11,394.81	2,690.37	2,697.73	768.44	2,805.04	15.90	725,386.73	827,115.44
14,248.00	88.60	355.10	11,396.37	2,784.21	2,791.52	762.45	2,893.77	15.28	725,480.52	827,109.45
14,342.00	90.00	359.20	11,397.52	2,878.10	2,885.37	757.78	2,983.22	14.72	725,574.37	827,104.78
14,437.00	89.50	359.40	11,397.93	2,973.10	2,980.37	756.62	3,074.91	14.24	725,669.37	827,103.62
14,531.00	89.30	359.50	11,398.92	3,067.10	3,074.36	755.72	3,165.88	13.81	725,763.36	827,102.72
14,625.00	90.70	0.50	11,398.92	3,161.09	3,168.35	755.72	3,257.23	13.42	725,857.35	827,102.72
14,719.00	89.50	1.20	11,398.75	3,255.06	3,262.34	757.11	3,349.04	13.07	725,951.34	827,104.11
14,814.00	87.30	0.10	11,401.40	3,349.99	3,357.29	758.19	3,441.84	12.73	726,046.29	827,105.19
14,908.00	87.70	359.20	11,405.50	3,443.90	3,451.20	757.62	3,533.38	12.38	726,140.20	827,104.62
15,003.00	88.00	357.50	11,409.07	3,538.81	3,546.09	754.88	3,625.55	12.02	726,235.09	827,101.88
15,096.00	88.30	356.60	11,412.07	3,631.68	3,638.91	750.10	3,715.42	11.65	726,327.91	827,097.10
15,191.00	88.60	356.10	11,414.64	3,726.51	3,733.69	744.05	3,807.10	11.27	726,422.69	827,091.05
15,285.00	89.60	358.50	11,416.12	3,820.42	3,827.56	739.63	3,898.37	10.94	726,516.56	827,086.63
15,379.00	90.00	0.60	11,416.45	3,914.42	3,921.55	738.89	3,990.56	10.67	726,610.55	827,085.89
15,473.00	89.90	0.70	11,416.53	4,008.39	4,015.55	739.96	4,083.15	10.44	726,704.55	827,086.96
15,568.00	90.20	0.10	11,416.44	4,103.38	4,110.54	740.62	4,176.73	10.21	726,799.54	827,087.62
15,662.00	88.50	1.00	11,417.51	4,197.35	4,204.53	741.52	4,269.42	10.00	726,893.53	827,088.52
15,756.00	88.30	1.00	11,420.14	4,291.28	4,298.48	743.16	4,362.25	9.81	726,987.48	827,090.16
15,850.00	88.60	0.40	11,422.68	4,385.23	4,392.44	744.31	4,455.05	9.62	727,081.44	827,091.31
15,944.00	89.10	0.50	11,424.57	4,479.19	4,486.41	745.05	4,547.86	9.43	727,175.41	827,092.05
Last Survey: 15944' MD, 11424.57' TVD										
16,032.00	89.10	0.50	11,425.95	4,567.17	4,574.40	745.81	4,634.80	9.26	727,263.40	827,092.81
XL Xing: 16032' MD										
16,132.00	89.10	0.50	11,427.52	4,667.14	4,674.38	746.69	4,733.65	9.08	727,363.38	827,093.69
PTB: 16132' MD, 11427.52' TVD										



ProDirectional Survey Report



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Wellbore: OH
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MD Reference: Rig @ 3887.50usft (GL: 3859' + KB: 28.5' (Pati809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
200.00	200.00	0.55	-0.43	Pro MWD First Survey: 200' MD
11,381.00	11,255.09	-50.78	783.76	XL Xing: 11381' MD
15,944.00	11,424.57	4,486.41	745.05	Last Survey: 15944' MD, 11424.57' TVD
16,032.00	11,425.95	4,574.40	745.81	XL Xing: 16032' MD
16,132.00	11,427.52	4,674.38	746.69	PTB: 16132' MD, 11427.52' TVD