



ProDirectional



NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 04 2017

RECEIVED

D Culbertson 26-15S-36E TL State #234H

Lea County, NM

30-025. 43562

May 02, 2017

Job No. LNM5135217

HOBBS OCD

AUG 09 2017

RECEIVED

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

HOBS OCD
AUG 09 2017
RECEIVED





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 234H
Project:	Lea County, NM	TVD Reference:	Rig @ 3887.50usft (GL: 3859' + KB: 28.5' (Patt809))
Site:	D Culbertson 26-15S-36E TL State	MD Reference:	Rig @ 3887.50usft (GL: 3859' + KB: 28.5' (Patt809))
Well:	234H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD	Database:	WellPlanner1

Project	Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	D Culbertson 26-15S-36E TL State		
Site Position:		Northing:	722,689.00 usft
From:	Map	Easting:	826,347.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 58' 55.941 N
		Longitude:	103° 16' 8.787 W
		Grid Convergence:	0.58 °

Well	234H		
Well Position	+N/-S	0.00 usft	Northing: 722,689.00 usft
	+E/-W	0.00 usft	Easting: 826,347.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 58' 55.941 N
		Longitude:	103° 16' 8.787 W
		Ground Level:	3,859.00 usft

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

Design	MWD		
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 (°)
			359.46

Survey Program	Date 4/9/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
200.00	16,132.00	Survey #1 (OH)	MWD - OWSG
			Description
			MWD - OWSG



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

Local Co-ordinate Reference: Well 234H
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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)	
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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Site: D Culbertson 26-15S-36E TL State
Well: 234H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well 234H
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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	601.60	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



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 234H
Project:	Lea County, NM	TVD Reference:	Rig @ 3887.50usft (GL: 3859' + KB: 28.5' (Patt809))
Site:	D Culbertson 26-15S-36E TL State	MD Reference:	Rig @ 3887.50usft (GL: 3859' + KB: 28.5' (Patt809))
Well:	234H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD	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:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well 234H
Rig @ 3887.50usft (GL: 3859' + KB: 28.5' (Patt809))
Rig @ 3887.50usft (GL: 3859' + KB: 28.5' (Patt809))
Grid
Minimum Curvature
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



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' (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



PRODIRECTIONAL

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:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well 234H
Rig @ 3867.50usft (CL: 3859' + KB: 28.5' (Pat809))
Rig @ 3867.50usft (CL: 3859' + KB: 28.5' (Pat809))
Grid
Minimum Curvature
WellPanner1

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N-S (usft)	+E-W (usft)	Comment
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