



PRODIRECTIONAL



Jeff Hart State Com No. 134H

Lea County, NM

May 15, 2019

~~30-085-45760~~

Job No. LNM5206119

ORIGINAL

Certified Report



PRODIRECTIONAL

Survey Certification Letter

May 15, 2019



Operator Name: Matador Resources
Well Name: Jeff Hart State Com No. 134H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 810
Job Number: LNM5206119

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	153' MD – 21,738' MD	21,830' MD	04/02/19 – 04/24/19	MWD-OWSG

Sincerely,

Mike Coats

Mike Coats
Regulatory Specialist
Professional Directional

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

prodirectional.com



Matador Resources

**Lea County, NM
Jeff Hart State Com
No. 134H
OH**

Survey: ProDirectional

Survey Report

15 May, 2019





ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Jeff Hart State Com
Well: No. 134H
Wellbore: OH
Design: MWD-153'-21738', Proj. 21830'

Local Co-ordinate Reference: Well No. 134H
TVD Reference: Well @ 3424.50usft
MD Reference: Well @ 3424.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Project Lea County, NM (NAD83)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Jeff Hart State Com

Site Position:		Northing:	462,976.00 usft	Latitude:	32.269485
From:	Map	Easting:	823,993.00 usft	Longitude:	-103.418838
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 "

Well No. 134H

Well Position	+N/-S	0.00 usft	Northing:	462,976.00 usft	Latitude:	32.269485
	+E/-W	0.00 usft	Easting:	823,993.00 usft	Longitude:	-103.418838
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,396.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/10/2019	6.67	59.98	47,975.00

Design MWD-153'-21738', Proj. 21830'

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	359.50

Survey Program **Date** 5/15/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
153.00	21,830.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



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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	462,976.00	823,993.00
153.00	0.40	330.40	153.00	0.47	0.46	-0.26	0.53	330.40	462,976.46	823,992.74
Pro MWD First Survey: 153' MD										
245.00	0.60	304.40	245.00	1.02	1.02	-0.82	1.31	321.09	462,977.02	823,992.18
336.00	0.60	295.40	335.99	1.50	1.49	-1.64	2.22	312.18	462,977.49	823,991.36
427.00	0.50	277.70	426.99	1.77	1.75	-2.47	3.02	305.30	462,977.75	823,990.53
519.00	0.30	191.70	518.98	1.59	1.56	-2.91	3.31	298.24	462,977.56	823,990.09
611.00	0.10	229.60	610.98	1.30	1.28	-3.02	3.28	292.89	462,977.28	823,989.98
706.00	0.10	146.40	705.98	1.18	1.15	-3.04	3.25	290.78	462,977.15	823,989.96
800.00	0.40	48.70	799.98	1.33	1.30	-2.75	3.04	295.35	462,977.30	823,990.25
895.00	0.30	41.20	894.98	1.73	1.71	-2.34	2.89	306.17	462,977.71	823,990.66
943.00	0.40	11.70	942.98	1.99	1.97	-2.22	2.97	311.55	462,977.97	823,990.78
1,081.00	0.30	9.80	1,080.98	2.81	2.79	-2.06	3.47	323.60	462,978.79	823,990.94
1,176.00	0.40	338.40	1,175.98	3.37	3.35	-2.14	3.97	327.41	462,979.35	823,990.86
1,271.00	0.20	1.00	1,270.97	3.84	3.82	-2.26	4.44	329.41	462,979.82	823,990.74
1,366.00	0.10	294.30	1,365.97	4.04	4.02	-2.33	4.65	329.89	462,980.02	823,990.67
1,462.00	0.20	3.00	1,461.97	4.24	4.22	-2.40	4.86	330.40	462,980.22	823,990.60
1,556.00	0.30	243.20	1,555.97	4.30	4.28	-2.61	5.01	328.60	462,980.28	823,990.39
1,651.00	0.20	296.00	1,650.97	4.26	4.24	-2.98	5.18	324.87	462,980.24	823,990.02
1,746.00	0.10	289.50	1,745.97	4.37	4.34	-3.21	5.40	323.51	462,980.34	823,989.79
1,841.00	0.30	245.70	1,840.97	4.29	4.26	-3.51	5.52	320.50	462,980.26	823,989.49
1,936.00	0.10	107.60	1,935.97	4.17	4.14	-3.66	5.52	318.48	462,980.14	823,989.34
2,032.00	0.00	284.90	2,031.97	4.14	4.11	-3.58	5.45	318.93	462,980.11	823,989.42
2,127.00	0.20	74.40	2,126.97	4.18	4.15	-3.42	5.38	320.53	462,980.15	823,989.58
2,222.00	0.20	51.20	2,221.97	4.33	4.30	-3.13	5.32	323.95	462,980.30	823,989.87
2,315.00	0.30	40.40	2,314.97	4.62	4.59	-2.85	5.40	328.18	462,980.59	823,990.15
2,410.00	0.20	74.00	2,409.97	4.85	4.83	-2.53	5.45	332.35	462,980.83	823,990.47



ProDirectional
Survey Report



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Project: Lea County, NM (NAD83)
Site: Jeff Hart State Com
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Wellbore: OH
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Local Co-ordinate Reference: Well No. 134H
TVD Reference: Well @ 3424.50usft
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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)
2,505.00	0.20	80.10	2,504.97	4.92	4.90	-2.21	5.37	335.77	462,980.90	823,990.79
2,600.00	0.30	51.40	2,599.97	5.10	5.08	-1.85	5.41	340.03	462,981.08	823,991.15
2,694.00	0.40	16.10	2,693.97	5.57	5.55	-1.56	5.77	344.27	462,981.55	823,991.44
2,789.00	0.50	48.50	2,788.96	6.16	6.15	-1.16	6.25	349.29	462,982.15	823,991.84
2,884.00	0.70	66.30	2,883.96	6.66	6.65	-0.32	6.66	357.25	462,982.65	823,992.68
2,979.00	1.00	70.40	2,978.95	7.16	7.16	0.99	7.23	7.89	462,983.16	823,993.99
3,074.00	1.30	65.60	3,073.93	7.86	7.89	2.75	8.36	19.25	462,983.89	823,995.75
3,169.00	2.70	95.90	3,168.87	8.05	8.10	5.96	10.06	36.34	462,984.10	823,998.96
3,263.00	4.80	107.30	3,262.67	6.60	6.71	11.92	13.68	60.64	462,982.71	824,004.92
3,356.00	5.60	118.90	3,355.28	3.18	3.36	19.61	19.89	80.29	462,979.36	824,012.61
3,450.00	5.80	132.50	3,448.82	-2.31	-2.07	27.13	27.20	94.36	462,973.93	824,020.13
3,545.00	5.90	139.80	3,543.33	-9.34	-9.04	33.82	35.00	104.97	462,966.96	824,026.82
3,640.00	5.70	154.60	3,637.85	-17.37	-17.03	38.99	42.55	113.60	462,958.97	824,031.99
3,735.00	4.80	155.30	3,732.45	-25.28	-24.91	42.68	49.41	120.27	462,951.09	824,035.68
3,830.00	4.80	126.90	3,827.13	-31.32	-30.90	47.52	56.68	123.04	462,945.10	824,040.52
3,925.00	6.50	105.30	3,921.68	-35.20	-34.71	55.88	65.79	121.85	462,941.29	824,048.88
4,020.00	7.90	101.90	4,015.92	-38.06	-37.48	67.46	77.17	119.05	462,938.52	824,060.46
4,115.00	8.50	111.40	4,109.96	-42.08	-41.38	80.38	90.41	117.24	462,934.62	824,073.38
4,210.00	9.10	136.60	4,203.87	-50.21	-49.41	92.09	104.50	118.22	462,926.59	824,085.09
4,305.00	8.60	145.60	4,297.75	-61.61	-60.73	101.26	118.08	120.95	462,915.27	824,094.26
4,400.00	8.00	152.60	4,391.75	-73.40	-72.46	108.32	130.32	123.78	462,903.54	824,101.32
4,495.00	8.00	164.00	4,485.83	-85.67	-84.68	113.18	141.36	126.80	462,891.32	824,106.18
4,590.00	7.20	164.70	4,580.00	-97.79	-96.78	116.58	151.51	129.70	462,879.22	824,109.58
4,684.00	6.50	159.30	4,673.33	-108.48	-107.44	120.01	161.08	131.84	462,868.56	824,113.01
4,779.00	5.90	167.10	4,767.77	-118.30	-117.23	123.00	169.92	133.62	462,858.77	824,116.00
4,875.00	5.20	172.20	4,863.32	-127.43	-126.35	124.69	177.52	135.38	462,849.65	824,117.69
4,970.00	4.50	172.70	4,957.98	-135.40	-134.31	125.75	183.99	136.88	462,841.69	824,118.75



ProDirectional Survey Report



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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)
5,064.00	3.80	177.80	5,051.74	-142.18	-141.08	126.34	189.38	138.16	462,834.92	824,119.34
5,159.00	3.20	180.20	5,146.56	-147.98	-146.88	126.45	193.81	139.27	462,829.12	824,119.45
5,254.00	2.60	183.30	5,241.44	-152.78	-151.68	126.32	197.39	140.21	462,824.32	824,119.32
5,378.00	2.40	183.50	5,365.32	-158.17	-157.08	126.00	201.37	141.27	462,818.92	824,119.00
5,473.00	4.10	172.90	5,460.16	-163.53	-162.44	126.30	205.76	142.13	462,813.56	824,119.30
5,569.00	4.90	142.30	5,555.88	-170.21	-169.09	129.23	212.81	142.61	462,806.91	824,122.23
5,664.00	5.00	143.50	5,650.53	-176.79	-175.62	134.17	221.01	142.62	462,800.38	824,127.17
5,760.00	5.00	143.00	5,746.16	-183.54	-182.33	139.18	229.38	142.64	462,793.67	824,132.18
5,855.00	5.00	142.90	5,840.80	-190.19	-188.94	144.17	237.66	142.65	462,787.06	824,137.17
5,951.00	4.80	143.60	5,936.45	-196.80	-195.51	149.07	245.86	142.67	462,780.49	824,142.07
6,046.00	4.90	141.80	6,031.11	-203.23	-201.89	153.94	253.89	142.68	462,774.11	824,146.94
6,142.00	4.70	144.50	6,126.77	-209.70	-208.32	158.76	261.92	142.69	462,767.68	824,151.76
6,237.00	4.70	139.40	6,221.45	-215.86	-214.44	163.55	269.69	142.67	462,761.56	824,156.55
6,333.00	4.60	139.30	6,317.14	-221.81	-220.35	168.62	277.46	142.57	462,755.65	824,161.62
6,428.00	4.60	136.30	6,411.83	-227.50	-225.99	173.74	285.05	142.45	462,750.01	824,166.74
6,524.00	3.10	143.90	6,507.61	-232.41	-230.87	177.93	291.48	142.38	462,745.13	824,170.93
6,619.00	3.20	159.70	6,602.47	-237.00	-235.43	180.36	296.58	142.54	462,740.57	824,173.36
6,715.00	3.30	164.10	6,698.32	-242.18	-240.60	182.05	301.71	142.89	462,735.40	824,175.05
6,810.00	3.40	167.80	6,793.15	-247.58	-245.99	183.39	306.83	143.29	462,730.01	824,176.39
6,906.00	3.30	143.10	6,888.99	-252.59	-250.98	185.65	312.18	143.51	462,725.02	824,178.65
7,001.00	3.30	146.40	6,983.84	-257.08	-255.44	188.81	317.65	143.53	462,720.56	824,181.81
7,097.00	3.20	145.10	7,079.68	-261.60	-259.94	191.87	323.08	143.57	462,716.06	824,184.87
7,192.00	3.30	145.30	7,174.53	-266.05	-264.36	194.94	328.47	143.59	462,711.64	824,187.94
7,288.00	3.30	144.30	7,270.37	-270.60	-268.88	198.13	333.99	143.61	462,707.12	824,191.13
7,383.00	3.10	143.20	7,365.22	-274.90	-273.16	201.26	339.30	143.62	462,702.84	824,194.26
7,479.00	3.00	137.50	7,461.09	-278.86	-277.09	204.52	344.39	143.57	462,698.91	824,197.52
7,574.00	3.00	168.90	7,555.96	-283.15	-281.36	206.67	349.11	143.70	462,694.64	824,199.67



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7,670.00	2.80	174.60	7,651.84	-287.96	-286.16	207.38	353.40	144.07	462,689.84	824,200.38
7,765.00	2.70	170.90	7,746.73	-292.48	-290.68	207.95	357.40	144.42	462,685.32	824,200.95
7,861.00	2.50	175.40	7,842.63	-296.81	-295.00	208.48	361.23	144.75	462,681.00	824,201.48
7,956.00	2.30	171.10	7,937.55	-300.76	-298.95	208.94	364.72	145.05	462,677.05	824,201.94
8,052.00	2.10	173.40	8,033.48	-304.41	-302.60	209.44	368.01	145.31	462,673.40	824,202.44
8,147.00	1.80	185.70	8,128.42	-307.63	-305.81	209.49	370.68	145.59	462,670.19	824,202.49
8,243.00	1.70	185.60	8,224.38	-310.54	-308.73	209.20	372.93	145.88	462,667.27	824,202.20
8,338.00	1.50	183.50	8,319.34	-313.18	-311.37	208.99	375.00	146.13	462,664.63	824,201.99
8,434.00	3.20	168.60	8,415.26	-317.07	-315.25	209.44	378.48	146.40	462,660.75	824,202.44
8,529.00	3.40	172.40	8,510.10	-322.47	-320.64	210.34	383.48	146.74	462,655.36	824,203.34
8,624.00	2.80	163.90	8,604.96	-327.50	-325.67	211.35	388.24	147.02	462,650.33	824,204.35
8,720.00	2.60	164.10	8,700.86	-331.86	-330.01	212.60	392.56	147.21	462,645.99	824,205.60
8,816.00	2.90	166.60	8,796.74	-336.32	-334.47	213.76	396.94	147.42	462,641.53	824,206.76
8,911.00	2.70	165.20	8,891.63	-340.83	-338.97	214.89	401.34	147.63	462,637.03	824,207.89
9,006.00	2.90	163.80	8,986.52	-345.31	-343.44	216.13	405.79	147.82	462,632.56	824,209.13
9,102.00	2.80	164.90	9,082.40	-349.92	-348.04	217.42	410.37	148.01	462,627.96	824,210.42
9,198.00	2.70	170.10	9,178.29	-354.42	-352.53	218.42	414.71	148.22	462,623.47	824,211.42
9,293.00	2.50	182.80	9,273.19	-358.70	-356.80	218.70	418.49	148.49	462,619.20	824,211.70
9,389.00	2.40	182.80	9,369.10	-362.79	-360.90	218.50	421.89	148.81	462,615.10	824,211.50
9,484.00	2.20	194.80	9,464.03	-366.54	-364.65	217.94	424.81	149.13	462,611.35	824,210.94
9,580.00	2.10	198.90	9,559.96	-369.97	-368.10	216.90	427.25	149.49	462,607.90	824,209.90
9,675.00	0.90	259.90	9,654.93	-371.74	-369.87	215.60	428.12	149.76	462,606.13	824,208.60
9,771.00	1.00	57.60	9,750.93	-371.42	-369.56	215.56	427.83	149.74	462,606.44	824,208.56
9,866.00	0.40	35.30	9,845.92	-370.72	-368.84	216.46	427.67	149.59	462,607.16	824,209.46
9,962.00	0.30	208.90	9,941.92	-370.66	-368.79	216.53	427.66	149.58	462,607.21	824,209.53
10,057.00	1.00	264.80	10,036.91	-370.95	-369.08	215.58	427.43	149.71	462,606.92	824,208.58
10,153.00	1.70	257.00	10,132.88	-371.33	-369.48	213.36	426.66	150.00	462,606.52	824,206.36



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Site: Jeff Hart State Com
Well: No. 134H
Wellbore: OH
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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)
10,248.00	1.90	244.80	10,227.84	-372.29	-370.47	210.56	426.12	150.39	462,605.53	824,203.56
10,344.00	2.20	264.50	10,323.78	-373.11	-371.32	207.29	425.26	150.83	462,604.68	824,200.29
10,439.00	2.60	247.60	10,418.70	-374.08	-372.32	203.48	424.29	151.34	462,603.68	824,196.48
10,535.00	0.90	192.50	10,514.65	-375.62	-373.88	201.30	424.63	151.70	462,602.12	824,194.30
10,630.00	1.00	166.80	10,609.64	-377.16	-375.42	201.33	426.00	151.80	462,600.58	824,194.33
10,730.00	2.10	196.40	10,709.60	-379.76	-378.02	201.01	428.15	152.00	462,597.98	824,194.01
10,827.00	2.70	194.00	10,806.52	-383.68	-381.95	199.96	431.12	152.37	462,594.05	824,192.96
10,922.00	2.80	177.80	10,901.41	-388.16	-386.44	199.51	434.90	152.69	462,589.56	824,192.51
11,018.00	2.40	172.40	10,997.31	-392.50	-390.77	199.86	438.92	152.91	462,585.23	824,192.86
11,050.00	1.10	9.10	11,029.30	-392.86	-391.13	200.00	439.30	152.92	462,584.87	824,193.00
11,081.00	5.10	0.60	11,060.25	-391.19	-389.46	200.06	437.84	152.81	462,586.54	824,193.06
11,113.00	8.40	355.00	11,092.03	-387.44	-385.71	199.87	434.42	152.61	462,590.29	824,192.87
11,209.00	15.60	343.80	11,185.88	-367.99	-366.30	195.65	415.28	151.89	462,609.70	824,188.65
11,240.00	18.50	343.30	11,215.51	-359.26	-357.58	193.08	406.38	151.63	462,618.42	824,186.08
11,272.00	21.50	347.20	11,245.58	-348.65	-347.00	190.32	395.77	151.26	462,629.00	824,183.32
11,303.00	23.20	350.80	11,274.25	-337.06	-335.43	188.08	384.56	150.72	462,640.57	824,181.08
11,335.00	26.00	356.60	11,303.35	-323.82	-322.20	186.66	372.37	149.92	462,653.80	824,179.66
11,399.00	31.60	355.20	11,359.41	-293.07	-291.47	184.42	344.91	147.68	462,684.53	824,177.42
11,494.00	39.80	352.50	11,436.50	-237.97	-236.42	178.36	296.16	142.97	462,739.58	824,171.36
11,526.00	44.30	354.50	11,460.25	-216.66	-215.13	175.95	277.92	140.72	462,760.87	824,168.95
11,558.00	49.00	354.80	11,482.21	-193.48	-191.97	173.78	258.95	137.85	462,784.03	824,166.78
11,590.00	52.10	353.10	11,502.55	-168.89	-167.40	171.17	239.42	134.36	462,808.60	824,164.17
11,621.00	55.70	351.60	11,520.81	-144.05	-142.59	167.83	220.22	130.35	462,833.41	824,160.83
11,653.00	58.70	350.40	11,538.14	-117.45	-116.02	163.62	200.58	125.34	462,859.98	824,156.62
11,685.00	62.00	349.80	11,553.97	-90.01	-88.63	158.84	181.89	119.16	462,887.37	824,151.84
11,717.00	63.70	349.30	11,568.57	-61.97	-60.63	153.67	165.20	111.53	462,915.37	824,146.67
11,749.00	67.00	350.50	11,581.92	-33.30	-32.00	148.58	151.98	102.16	462,944.00	824,141.58



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Jeff Hart State Com
Well: No. 134H
Wellbore: OH
Design: MWD-153'-21738', Proj. 21830'

Local Co-ordinate Reference: Well No. 134H
TVD Reference: Well @ 3424.50usft
MD Reference: Well @ 3424.50usft
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)
11,780.00	72.10	353.10	11,592.75	-4.52	-3.26	144.45	144.48	91.29	462,972.74	824,137.45
11,806.00	77.60	356.80	11,599.54	20.48	21.72	142.25	143.90	81.32	462,997.72	824,135.25
11,838.00	84.80	1.10	11,604.44	52.07	53.31	141.68	151.38	69.38	463,029.31	824,134.68
11,901.00	88.20	2.60	11,608.28	114.89	116.15	143.71	184.78	51.05	463,092.15	824,136.71
11,997.00	91.40	2.90	11,608.62	210.72	212.03	148.32	258.75	34.97	463,188.03	824,141.32
12,092.00	92.00	3.20	11,605.80	305.50	306.85	153.37	343.04	26.56	463,282.85	824,146.37
12,188.00	89.80	3.90	11,604.29	401.24	402.65	159.31	433.02	21.59	463,378.65	824,152.31
12,283.00	90.40	4.30	11,604.12	495.93	497.40	166.11	524.40	18.47	463,473.40	824,159.11
12,379.00	91.20	4.20	11,602.78	591.59	593.13	173.22	617.90	16.28	463,569.13	824,166.22
12,474.00	89.40	2.60	11,602.29	686.37	687.95	178.85	710.82	14.57	463,663.95	824,171.85
12,570.00	89.80	2.00	11,602.96	782.25	783.87	182.70	804.88	13.12	463,759.87	824,175.70
12,665.00	90.70	2.20	11,602.54	877.15	878.81	186.19	898.31	11.96	463,854.81	824,179.19
12,761.00	91.70	2.60	11,600.53	973.00	974.70	190.20	993.09	11.04	463,950.70	824,183.20
12,856.00	92.70	2.90	11,596.88	1,067.78	1,069.52	194.76	1,087.11	10.32	464,045.52	824,187.76
12,952.00	91.50	0.90	11,593.37	1,163.62	1,165.40	197.94	1,182.09	9.64	464,141.40	824,190.94
13,047.00	91.80	0.60	11,590.63	1,258.56	1,260.35	199.18	1,275.99	8.98	464,236.35	824,192.18
13,143.00	92.40	0.30	11,587.11	1,354.48	1,356.28	199.94	1,370.94	8.39	464,332.28	824,192.94
13,238.00	93.10	0.60	11,582.56	1,449.36	1,451.17	200.68	1,464.98	7.87	464,427.17	824,193.68
13,334.00	91.50	0.60	11,578.70	1,545.26	1,547.08	201.69	1,560.17	7.43	464,523.08	824,194.69
13,429.00	92.00	0.80	11,575.80	1,640.20	1,642.03	202.85	1,654.51	7.04	464,618.03	824,195.85
13,525.00	92.90	1.20	11,571.70	1,736.08	1,737.93	204.52	1,749.92	6.71	464,713.93	824,197.52
13,620.00	90.40	0.80	11,568.96	1,831.00	1,832.86	206.18	1,844.42	6.42	464,808.86	824,199.18
13,716.00	91.10	1.00	11,567.71	1,926.96	1,928.84	207.68	1,939.99	6.15	464,904.84	824,200.68
13,812.00	92.30	1.00	11,564.86	2,022.88	2,024.79	209.36	2,035.58	5.90	465,000.79	824,202.36
13,907.00	92.00	0.10	11,561.29	2,117.80	2,119.71	210.27	2,130.12	5.67	465,095.71	824,203.27
14,003.00	92.80	0.60	11,557.27	2,213.70	2,215.63	210.86	2,225.64	5.44	465,191.63	824,203.86
14,098.00	93.90	1.00	11,551.72	2,308.51	2,310.45	212.18	2,320.17	5.25	465,286.45	824,205.18



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Jeff Hart State Com
Well: No. 134H
Wellbore: OH
Design: MWD-153'-21738', Proj. 21830'

Local Co-ordinate Reference: Well No. 134H
TVD Reference: Well @ 3424.50usft
MD Reference: Well @ 3424.50usft
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)
14,194.00	90.70	359.50	11,547.87	2,404.41	2,406.36	212.60	2,415.73	5.05	465,382.36	824,205.60
14,289.00	90.30	359.60	11,547.04	2,499.41	2,501.35	211.85	2,510.31	4.84	465,477.35	824,204.85
14,384.00	90.80	359.20	11,546.13	2,594.40	2,596.34	210.86	2,604.89	4.64	465,572.34	824,203.86
14,480.00	91.30	359.20	11,544.37	2,690.39	2,692.32	209.52	2,700.46	4.45	465,668.32	824,202.52
14,576.00	92.20	359.70	11,541.44	2,786.34	2,788.27	208.59	2,796.06	4.28	465,764.27	824,201.59
14,671.00	89.40	359.10	11,540.11	2,881.32	2,883.24	207.60	2,890.71	4.12	465,859.24	824,200.60
14,767.00	90.00	359.10	11,540.62	2,977.32	2,979.23	206.09	2,986.35	3.96	465,955.23	824,199.09
14,862.00	90.60	359.90	11,540.12	3,072.31	3,074.22	205.26	3,081.07	3.82	466,050.22	824,198.26
14,957.00	89.70	357.40	11,539.87	3,167.29	3,169.19	203.02	3,175.68	3.67	466,145.19	824,196.02
15,053.00	89.80	357.00	11,540.29	3,263.22	3,265.07	198.34	3,271.09	3.48	466,241.07	824,191.34
15,148.00	90.00	357.20	11,540.45	3,358.13	3,359.95	193.53	3,365.52	3.30	466,335.95	824,186.53
15,244.00	90.20	357.00	11,540.29	3,454.05	3,455.83	188.67	3,460.97	3.12	466,431.83	824,181.67
15,340.00	90.40	356.40	11,539.78	3,549.93	3,551.66	183.15	3,556.38	2.95	466,527.66	824,176.15
15,435.00	91.00	356.60	11,538.62	3,644.79	3,646.48	177.35	3,650.79	2.78	466,622.48	824,170.35
15,531.00	90.80	355.80	11,537.12	3,740.62	3,742.26	170.99	3,746.16	2.62	466,718.26	824,163.99
15,626.00	91.40	357.20	11,535.29	3,835.47	3,837.06	165.19	3,840.61	2.47	466,813.06	824,158.19
15,722.00	92.20	357.60	11,532.28	3,931.36	3,932.91	160.83	3,936.20	2.34	466,908.91	824,153.83
15,818.00	92.80	357.60	11,528.09	4,027.21	4,028.74	156.82	4,031.79	2.23	467,004.74	824,149.82
15,913.00	93.50	357.60	11,522.87	4,122.02	4,123.51	152.85	4,126.34	2.12	467,099.51	824,145.85
16,009.00	92.90	359.30	11,517.51	4,217.85	4,219.32	150.25	4,221.99	2.04	467,195.32	824,143.25
16,104.00	91.20	359.90	11,514.11	4,312.78	4,314.25	149.59	4,316.85	1.99	467,290.25	824,142.59
16,199.00	92.00	0.40	11,511.46	4,407.74	4,409.21	149.84	4,411.76	1.95	467,385.21	824,142.84
16,294.00	91.50	1.80	11,508.56	4,502.65	4,504.15	151.66	4,506.70	1.93	467,480.15	824,144.66
16,390.00	89.30	3.30	11,507.89	4,598.51	4,600.04	155.93	4,602.69	1.94	467,576.04	824,148.93
16,485.00	89.40	3.90	11,508.96	4,693.26	4,694.85	161.90	4,697.64	1.98	467,670.85	824,154.90
16,581.00	89.00	3.10	11,510.30	4,789.01	4,790.66	167.76	4,793.60	2.01	467,766.66	824,160.76
16,676.00	89.30	2.60	11,511.71	4,883.84	4,885.53	172.48	4,888.58	2.02	467,861.53	824,165.48



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Jeff Hart State Corn
Well: No. 134H
Wellbore: OH
Design: MWD-153'-21738', Proj. 21830'

Local Co-ordinate Reference: Well No. 134H
TVD Reference: Well @ 3424.50usft
MD Reference: Well @ 3424.50usft
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)
16,772.00	89.70	2.30	11,512.55	4,979.71	4,981.44	176.58	4,984.57	2.03	467,957.44	824,169.58
16,867.00	90.20	2.10	11,512.63	5,074.60	5,076.37	180.23	5,079.57	2.03	468,052.37	824,173.23
16,963.00	90.50	1.60	11,512.05	5,170.52	5,172.32	183.33	5,175.57	2.03	468,148.32	824,176.33
17,058.00	91.40	1.20	11,510.47	5,265.45	5,267.28	185.65	5,270.55	2.02	468,243.28	824,178.65
17,153.00	90.40	1.20	11,508.98	5,360.40	5,362.24	187.64	5,365.52	2.00	468,338.24	824,180.64
17,249.00	88.60	0.40	11,509.82	5,456.37	5,458.22	188.98	5,461.49	1.98	468,434.22	824,181.98
17,344.00	88.40	359.80	11,512.31	5,551.33	5,553.19	189.15	5,556.41	1.95	468,529.19	824,182.15
17,440.00	88.90	359.90	11,514.57	5,647.30	5,649.16	188.90	5,652.32	1.92	468,625.16	824,181.90
17,535.00	87.70	359.50	11,517.39	5,742.26	5,744.12	188.40	5,747.21	1.88	468,720.12	824,181.40
17,631.00	88.00	359.10	11,520.99	5,838.19	5,840.04	187.23	5,843.04	1.84	468,816.04	824,180.23
17,726.00	88.10	358.80	11,524.22	5,933.13	5,934.97	185.49	5,937.87	1.79	468,910.97	824,178.49
17,822.00	88.70	358.20	11,526.90	6,029.07	6,030.90	182.97	6,033.68	1.74	469,006.90	824,175.97
17,917.00	89.40	358.40	11,528.48	6,124.04	6,125.85	180.16	6,128.49	1.68	469,101.85	824,173.16
18,013.00	90.20	358.30	11,528.81	6,220.02	6,221.80	177.39	6,224.33	1.63	469,197.80	824,170.39
18,108.00	90.80	358.50	11,527.98	6,315.00	6,316.76	174.74	6,319.18	1.58	469,292.76	824,167.74
18,204.00	91.60	358.50	11,525.97	6,410.96	6,412.71	172.23	6,415.02	1.54	469,388.71	824,165.23
18,300.00	92.20	358.60	11,522.79	6,506.89	6,508.62	169.80	6,510.84	1.49	469,484.62	824,162.80
18,395.00	89.80	359.30	11,521.13	6,601.87	6,603.59	168.06	6,605.72	1.46	469,579.59	824,161.06
18,491.00	90.20	359.60	11,521.13	6,697.87	6,699.58	167.14	6,701.67	1.43	469,675.58	824,160.14
18,586.00	90.80	359.20	11,520.30	6,792.86	6,794.57	166.14	6,796.60	1.40	469,770.57	824,159.14
18,682.00	91.50	359.40	11,518.37	6,888.84	6,890.55	164.97	6,892.52	1.37	469,866.55	824,157.97
18,778.00	90.30	359.90	11,516.87	6,984.83	6,986.53	164.38	6,988.46	1.35	469,962.53	824,157.38
18,873.00	90.70	0.00	11,516.04	7,079.82	7,081.53	164.30	7,083.43	1.33	470,057.53	824,157.30
18,968.00	91.20	359.90	11,514.46	7,174.81	7,176.51	164.22	7,178.39	1.31	470,152.51	824,157.22
19,064.00	89.10	0.60	11,514.21	7,270.79	7,272.50	164.64	7,274.37	1.30	470,248.50	824,157.64
19,159.00	89.40	0.50	11,515.45	7,365.77	7,367.49	165.55	7,369.35	1.29	470,343.49	824,158.55
19,255.00	91.00	1.70	11,515.12	7,461.72	7,463.47	167.39	7,465.35	1.28	470,439.47	824,160.39



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Jeff Hart State Com
Well: No. 134H
Wellbore: OH
Design: MWD-153'-21738', Proj. 21830'

Local Co-ordinate Reference: Well No. 134H
TVD Reference: Well @ 3424.50usft
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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)
19,351.00	89.90	1.60	11,514.37	7,557.65	7,559.42	170.16	7,561.34	1.29	470,535.42	824,163.16
19,446.00	89.30	0.60	11,515.03	7,652.61	7,654.40	171.98	7,656.34	1.29	470,630.40	824,164.98
19,541.00	88.30	359.50	11,517.02	7,747.58	7,749.38	172.06	7,751.29	1.27	470,725.38	824,165.06
19,637.00	88.80	359.40	11,519.45	7,843.55	7,845.34	171.14	7,847.21	1.25	470,821.34	824,164.14
19,733.00	89.50	359.50	11,520.87	7,939.54	7,941.33	170.22	7,943.15	1.23	470,917.33	824,163.22
19,828.00	90.30	359.60	11,521.04	8,034.54	8,036.32	169.47	8,038.11	1.21	471,012.32	824,162.47
19,924.00	91.80	0.00	11,519.28	8,130.52	8,132.31	169.14	8,134.06	1.19	471,108.31	824,162.14
20,019.00	90.20	358.70	11,517.62	8,225.50	8,227.28	168.06	8,229.00	1.17	471,203.28	824,161.06
20,114.00	91.10	359.10	11,516.54	8,320.49	8,322.25	166.24	8,323.91	1.14	471,298.25	824,159.24
20,209.00	92.50	359.20	11,513.56	8,415.44	8,417.20	164.83	8,418.81	1.12	471,393.20	824,157.83
20,305.00	90.50	358.50	11,511.05	8,511.39	8,513.14	162.90	8,514.70	1.10	471,489.14	824,155.90
20,400.00	91.10	358.70	11,509.72	8,606.37	8,608.10	160.58	8,609.60	1.07	471,584.10	824,153.58
20,496.00	91.80	358.80	11,507.29	8,702.33	8,704.05	158.49	8,705.49	1.04	471,680.05	824,151.49
20,591.00	92.80	358.90	11,503.48	8,797.25	8,798.95	156.58	8,800.34	1.02	471,774.95	824,149.58
20,687.00	90.50	358.80	11,500.71	8,893.19	8,894.88	154.66	8,896.23	1.00	471,870.88	824,147.66
20,782.00	90.80	359.10	11,499.64	8,988.18	8,989.86	152.92	8,991.16	0.97	471,965.86	824,145.92
20,878.00	92.50	359.40	11,496.87	9,084.14	9,085.81	151.66	9,087.07	0.96	472,061.81	824,144.66
20,973.00	90.60	359.30	11,494.30	9,179.10	9,180.76	150.58	9,182.00	0.94	472,156.76	824,143.58
21,069.00	91.50	359.30	11,492.54	9,275.08	9,276.74	149.41	9,277.94	0.92	472,252.74	824,142.41
21,164.00	92.40	359.30	11,489.31	9,370.03	9,371.68	148.25	9,372.85	0.91	472,347.68	824,141.25
21,259.00	93.50	359.60	11,484.42	9,464.90	9,466.54	147.34	9,467.69	0.89	472,442.54	824,140.34
21,355.00	94.30	359.40	11,477.89	9,560.67	9,562.32	146.50	9,563.44	0.88	472,538.32	824,139.50
21,451.00	95.10	359.70	11,470.03	9,656.35	9,657.99	145.75	9,659.09	0.86	472,633.99	824,138.75
21,546.00	96.10	359.90	11,460.76	9,750.90	9,752.54	145.42	9,753.62	0.85	472,728.54	824,138.42
21,642.00	97.10	359.90	11,449.72	9,846.26	9,847.90	145.26	9,848.97	0.85	472,823.90	824,138.26
21,738.00	98.20	0.00	11,436.94	9,941.40	9,943.04	145.17	9,944.10	0.84	472,919.04	824,138.17

Last Survey: 21738' MD



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Jeff Hart State Com
Well: No. 134H
Wellbore: OH
Design: MWD-153'-21738', Proj. 21830'

Local Co-ordinate Reference: Well No. 134H
TVD Reference: Well @ 3424.50usft
MD Reference: Well @ 3424.50usft
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)
21,830.00	98.20	0.00	11,423.82	10,032.45	10,034.10	145.17	10,035.15	0.83	473,010.10	824,138.17
PTB: 21830' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
153.00	153.00	0.46	-0.26	Pro MWD First Survey: 153' MD
21,738.00	11,436.94	9,943.04	145.17	Last Survey: 21738' MD
21,830.00	11,423.82	10,034.10	145.17	PTB: 21830' MD