

Rec'd 6/25/2020 - NMOCD



Rodney Robinson Federal No. 101H

Lea County, NM

January 20, 2020

Job No. LNM5536919

Certified Report

ORIGINAL



PRODIRECTIONAL

Survey Certification Letter

January 20, 2020



Operator Name: Matador Resources
Well Name: Rodney Robinson Federal No. 101H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 810
Job Number: LNM5536919

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:

Surveyor	Surveyed Depths	Projection to Bit	Dates Performed	Type of Survey
ProDirectional	188' MD – 19,942' MD	20,004' MD	09/29/19 – 12/26/19	MWD

Sincerely,

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
Rodney Robinson Federal
No. 101H
OH

Survey: ProDirectional

Survey Report

20 January, 2020





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 101H
Project:	Lea County, NM (NAD83)	TVD Reference:	Well @ 3766.50usft
Site:	Rodney Robinson Federal	MD Reference:	Well @ 3766.50usft
Well:	No. 101H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-188'-19942', PTB: 20004'	Database:	WellPlanner1

Project	Lea County, NM (NAD83)	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Rodney Robinson Federal		
Site Position:		Northing:	488,319.00 usft
From:	Map	Easting:	763,640.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.3404068
		Longitude:	-103.6135370
		Grid Convergence:	0.39 °

Well	No. 101H, LNM5536919		
Well Position		Northing:	488,313.00 usft
		Easting:	762,541.00 usft
Position Uncertainty		Wellhead Elevation:	usft
		Latitude:	32.3404106
		Longitude:	-103.6170953
		Ground Level:	3,738.00 usft

Wellbore	OH		
Magnetics		Model Name	
		Sample Date	
		Declination (°)	6.67
		Dip Angle (°)	60.07
		Field Strength (nT)	47,970.80

Design	MWD-188'-19942', PTB: 20004'		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:		Depth From (TVD) (usft)	
		+N/-S (usft)	0.00
		+E/-W (usft)	0.00
		Direction (°)	179.62

Survey Program		Date	1/20/2020
From (usft)		To (usft)	
	188.00	20,004.00	Survey #1 (OH)
		Survey (Wellbore)	
		Tool Name	
		MWD+HDGM	
		Description	
		OWSG MWD + HRGM	



ProDirectional Survey Report



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Well: No. 101H
Wellbore: OH
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Local Co-ordinate Reference:
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MD Reference: Well @ 3766.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Well No. 101H
Well @ 3766.50usft
Well @ 3766.50usft
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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	488,313.00	762,541.00
188.00	0.80	275.40	187.99	-0.13	0.12	-1.31	1.31	275.40	488,313.12	762,539.69
Pro MWD First Survey: 188' MD										
223.00	1.00	262.60	222.99	-0.12	0.11	-1.85	1.86	273.31	488,313.11	762,539.15
311.00	1.00	267.40	310.98	0.00	-0.03	-3.38	3.38	269.55	488,312.97	762,537.62
342.00	0.80	267.70	341.97	0.02	-0.05	-3.87	3.87	269.30	488,312.95	762,537.13
404.00	0.60	276.50	403.97	0.00	-0.03	-4.62	4.62	269.65	488,312.97	762,536.38
466.00	0.50	250.00	465.96	0.05	-0.08	-5.20	5.20	269.08	488,312.92	762,535.80
528.00	0.40	244.00	527.96	0.23	-0.27	-5.65	5.65	267.25	488,312.73	762,535.35
628.00	0.00	126.90	627.96	0.38	-0.42	-5.96	5.98	265.93	488,312.58	762,535.04
724.00	0.20	331.10	723.96	0.24	-0.28	-6.04	6.05	267.37	488,312.72	762,534.96
819.00	0.20	358.40	818.96	-0.07	0.03	-6.13	6.13	270.31	488,313.03	762,534.87
915.00	0.20	333.10	914.96	-0.39	0.35	-6.21	6.22	273.23	488,313.35	762,534.79
1,010.00	0.30	75.30	1,009.96	-0.60	0.56	-6.04	6.07	275.31	488,313.56	762,534.96
1,106.00	0.20	99.10	1,105.96	-0.64	0.60	-5.63	5.67	276.06	488,313.60	762,535.37
1,202.00	0.10	76.60	1,201.96	-0.63	0.59	-5.39	5.42	276.26	488,313.59	762,535.61
1,283.00	0.20	304.20	1,282.96	-0.72	0.69	-5.44	5.48	277.21	488,313.69	762,535.56
1,376.00	0.00	259.80	1,375.96	-0.82	0.78	-5.57	5.62	277.96	488,313.78	762,535.43
1,472.00	0.30	234.50	1,471.96	-0.67	0.63	-5.77	5.81	276.25	488,313.63	762,535.23
1,568.00	0.20	243.10	1,567.96	-0.45	0.41	-6.13	6.14	273.83	488,313.41	762,534.87
1,664.00	0.20	291.50	1,663.96	-0.44	0.40	-6.43	6.45	273.52	488,313.40	762,534.57
1,759.00	0.20	246.30	1,758.96	-0.44	0.39	-6.74	6.75	273.32	488,313.39	762,534.26
1,855.00	0.20	227.70	1,854.96	-0.26	0.21	-7.02	7.02	271.72	488,313.21	762,533.98
1,951.00	1.80	359.00	1,950.94	-1.65	1.61	-7.17	7.34	282.62	488,314.61	762,533.83
2,046.00	2.50	3.90	2,045.87	-5.21	5.16	-7.05	8.74	306.21	488,318.16	762,533.95
2,142.00	2.10	358.10	2,141.80	-9.06	9.01	-6.97	11.39	322.28	488,322.01	762,534.03
2,238.00	3.50	350.10	2,237.68	-13.71	13.66	-7.53	15.59	331.13	488,326.66	762,533.47



ProDirectional Survey Report

**Company:**

Matador Resources

Lea County, NM (NAD83)

Site: Rodney Robinson Federal

Well: No. 101H

Wellbore: OH

Design: MWD-188'-19942', PTB: 20004'

Local Co-ordinate Reference:

Well No. 101H

Well @ 3766.50usft

Well @ 3766.50usft

Grid

Minimum Curvature

WellPlanner1

TVD Reference:

Well @ 3766.50usft

Well @ 3766.50usft

Grid

Minimum Curvature

WellPlanner1

MD Reference:

Well @ 3766.50usft

Well @ 3766.50usft

Grid

Minimum Curvature

WellPlanner1

North Reference:

Well @ 3766.50usft

Well @ 3766.50usft

Grid

Minimum Curvature

WellPlanner1

Survey Calculation Method:

Well @ 3766.50usft

Well @ 3766.50usft

Grid

Minimum Curvature

WellPlanner1

Database:

Well @ 3766.50usft

Well @ 3766.50usft

Grid

Minimum Curvature

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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)
2,334.00	4.40	349.40	2,333.45	-20.22	20.16	-8.71	21.96	336.63	488,333.16	762,532.29
2,429.00	4.20	348.00	2,428.18	-27.21	27.15	-10.11	28.97	339.58	488,340.15	762,530.89
2,525.00	3.80	347.10	2,523.95	-33.76	33.69	-11.55	35.61	341.08	488,346.69	762,529.45
2,620.00	3.90	315.00	2,618.75	-39.14	39.04	-14.53	41.66	339.58	488,352.04	762,526.47
2,716.00	4.30	307.00	2,714.50	-43.64	43.51	-19.72	47.77	335.62	488,356.51	762,521.28
2,812.00	4.00	309.70	2,810.25	-47.99	47.82	-25.17	54.04	332.24	488,360.82	762,515.83
2,907.00	3.70	308.60	2,905.03	-52.05	51.85	-30.11	59.96	329.85	488,364.85	762,510.89
3,003.00	3.50	308.60	3,000.84	-55.84	55.61	-34.82	65.61	327.94	488,368.61	762,506.18
3,099.00	3.10	308.10	3,096.69	-59.30	59.04	-39.16	70.84	326.45	488,372.04	762,501.84
3,194.00	4.40	301.20	3,191.48	-62.80	62.51	-44.29	76.61	324.68	488,375.51	762,496.71
3,290.00	7.00	295.10	3,287.00	-67.25	66.90	-52.74	85.19	321.75	488,379.90	762,488.26
3,385.00	8.00	294.50	3,381.18	-72.52	72.10	-64.00	96.41	318.40	488,385.10	762,477.00
3,481.00	7.20	302.70	3,476.34	-78.62	78.12	-75.14	108.39	316.11	488,391.12	762,465.86
3,577.00	6.90	311.60	3,571.62	-85.76	85.20	-84.52	120.01	315.23	488,398.20	762,456.48
3,672.00	6.60	311.90	3,665.96	-93.25	92.63	-92.85	131.16	314.93	488,405.63	762,448.15
3,768.00	6.20	311.50	3,761.36	-100.42	99.75	-100.84	141.84	314.69	488,412.75	762,440.16
3,864.00	5.80	310.60	3,856.84	-107.06	106.34	-108.40	151.86	314.45	488,419.34	762,432.60
3,960.00	5.30	311.50	3,952.39	-113.20	112.44	-115.41	161.13	314.25	488,425.44	762,425.59
4,055.00	4.30	315.10	4,047.05	-118.67	117.87	-121.21	169.07	314.20	488,430.87	762,419.79
4,151.00	2.90	324.70	4,142.86	-123.23	122.40	-125.15	175.06	314.36	488,435.40	762,415.85
4,247.00	3.00	316.50	4,238.73	-127.05	126.20	-128.28	179.96	314.53	488,439.20	762,412.72
4,342.00	3.50	313.50	4,333.58	-130.88	130.00	-132.10	185.34	314.54	488,443.00	762,408.90
4,438.00	4.20	308.60	4,429.36	-135.12	134.21	-136.97	191.77	314.42	488,447.21	762,404.03
4,534.00	3.60	308.70	4,525.14	-139.23	138.29	-142.07	198.27	314.23	488,451.29	762,398.93
4,630.00	1.90	323.10	4,621.03	-142.41	141.45	-145.38	202.84	314.22	488,454.45	762,395.62
4,725.00	2.70	308.80	4,715.95	-145.09	144.11	-148.07	206.62	314.22	488,457.11	762,392.93
4,821.00	5.90	299.80	4,811.67	-149.00	147.98	-154.11	213.66	313.84	488,460.98	762,386.89



ProDirectional Survey Report



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Well: No. 101H
Wellbore: OH
Design: MWD-188'-19942', PTB: 20004'

Local Co-ordinate Reference:
TVD Reference: Well @ 3766.50usft
MD Reference: Well @ 3766.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

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)
4,917.00	6.50	301.10	4,907.11	-154.32	153.24	-163.05	223.76	313.22	488,466.24	762,377.95
5,012.00	5.80	301.70	5,001.56	-159.68	158.54	-171.74	233.73	312.71	488,471.54	762,369.26
5,108.00	5.40	301.00	5,097.10	-164.60	163.42	-179.74	242.92	312.28	488,476.42	762,361.26
5,204.00	5.10	316.30	5,192.71	-170.06	168.83	-186.56	251.61	312.14	488,481.83	762,354.44
5,300.00	3.80	343.60	5,288.42	-176.22	174.96	-190.40	258.58	312.58	488,487.96	762,350.60
5,395.00	2.60	38.60	5,383.29	-180.93	179.67	-189.95	261.46	313.41	488,492.67	762,351.05
5,491.00	2.80	48.30	5,479.19	-184.17	182.93	-186.84	261.48	314.39	488,495.93	762,354.16
5,587.00	2.60	35.90	5,575.08	-187.47	186.25	-183.81	261.68	315.38	488,499.25	762,357.19
5,683.00	2.40	40.20	5,670.99	-190.75	189.55	-181.24	262.25	316.28	488,502.55	762,359.76
5,778.00	2.10	38.40	5,765.92	-193.62	192.44	-178.87	262.73	317.09	488,505.44	762,362.13
5,874.00	1.50	48.50	5,861.87	-195.82	194.65	-176.84	262.98	317.74	488,507.65	762,364.16
5,969.00	1.10	45.80	5,956.85	-197.27	196.11	-175.25	263.01	318.21	488,509.11	762,365.75
6,065.00	1.00	48.30	6,052.83	-198.46	197.31	-173.97	263.05	318.60	488,510.31	762,367.03
6,161.00	0.90	56.30	6,148.82	-199.42	198.28	-172.71	262.96	318.94	488,511.28	762,368.29
6,257.00	0.80	42.00	6,244.81	-200.33	199.20	-171.64	262.95	319.25	488,512.20	762,369.36
6,352.00	0.40	59.90	6,339.80	-200.99	199.86	-170.91	262.97	319.46	488,512.86	762,370.09
6,448.00	0.40	59.60	6,435.80	-201.32	200.20	-170.33	262.85	319.61	488,513.20	762,370.67
6,543.00	0.30	357.40	6,530.80	-201.74	200.61	-170.05	262.99	319.71	488,513.61	762,370.95
6,639.00	0.50	180.30	6,626.80	-201.57	200.44	-170.07	262.87	319.69	488,513.44	762,370.93
6,735.00	0.50	209.00	6,722.79	-200.78	199.66	-170.27	262.41	319.54	488,512.66	762,370.73
6,831.00	0.40	210.90	6,818.79	-200.13	199.01	-170.65	262.15	319.39	488,512.01	762,370.35
6,926.00	0.50	206.90	6,913.79	-199.48	198.35	-171.01	261.89	319.23	488,511.35	762,369.99
7,022.00	0.70	199.50	7,009.78	-198.56	197.43	-171.39	261.44	319.04	488,510.43	762,369.61
7,118.00	0.80	191.90	7,105.77	-197.35	196.22	-171.73	260.75	318.81	488,509.22	762,369.27
7,214.00	0.60	207.70	7,201.77	-196.25	195.12	-172.10	260.17	318.59	488,508.12	762,368.90
7,309.00	0.50	210.10	7,296.76	-195.46	194.32	-172.54	259.86	318.40	488,507.32	762,368.46
7,405.00	0.30	179.20	7,392.76	-194.84	193.70	-172.74	259.54	318.27	488,506.70	762,368.26



ProDirectional Survey Report



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Well: No. 101H
Wellbore: OH
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Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well No. 101H
Well @ 3766.50usft
Well @ 3766.50usft
Grid
Minimum Curvature
WellPlanner1

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)
7,500.00	0.40	203.50	7,487.76	-194.29	193.15	-172.87	259.21	318.17	488,506.15	762,368.13
7,596.00	0.90	221.60	7,583.75	-193.43	192.28	-173.51	258.99	317.94	488,505.28	762,367.49
7,692.00	1.40	228.00	7,679.73	-192.09	190.93	-174.88	258.91	317.51	488,503.93	762,366.12
7,787.00	0.90	233.60	7,774.71	-190.88	189.71	-176.34	259.01	317.09	488,502.71	762,364.66
7,883.00	0.80	233.30	7,870.70	-190.04	188.86	-177.49	259.17	316.78	488,501.86	762,363.51
7,979.00	0.80	227.20	7,966.69	-189.19	188.01	-178.51	259.26	316.48	488,501.01	762,362.49
8,074.00	1.20	233.90	8,061.68	-188.16	186.97	-179.80	259.40	316.12	488,499.97	762,361.20
8,170.00	2.00	235.90	8,157.64	-186.64	185.44	-182.00	259.83	315.54	488,498.44	762,359.00
8,266.00	2.70	250.60	8,253.56	-184.98	183.75	-185.52	261.12	314.72	488,496.75	762,355.48
8,361.00	2.80	254.30	8,348.45	-183.63	182.38	-189.87	263.27	313.85	488,495.38	762,351.13
8,457.00	2.40	256.60	8,444.35	-182.56	181.28	-194.08	265.57	313.05	488,494.28	762,346.92
8,553.00	2.30	257.40	8,540.27	-181.70	180.39	-197.92	267.79	312.35	488,493.39	762,343.08
8,648.00	2.20	254.90	8,635.20	-180.83	179.50	-201.54	269.88	311.69	488,492.50	762,339.46
8,744.00	2.00	263.20	8,731.13	-180.18	178.82	-204.98	272.02	311.10	488,491.82	762,336.02
8,806.00	2.00	260.80	8,793.09	-179.89	178.52	-207.12	273.44	310.76	488,491.52	762,333.88
8,936.00	2.00	262.50	8,923.02	-179.26	177.86	-211.61	276.43	310.05	488,490.86	762,329.39
9,032.00	1.80	268.30	9,018.96	-179.02	177.60	-214.78	278.70	309.59	488,490.60	762,326.22
9,127.00	1.50	275.20	9,113.92	-179.11	177.67	-217.51	280.85	309.24	488,490.67	762,323.49
9,222.00	1.80	191.40	9,208.90	-177.77	176.32	-219.04	281.19	308.83	488,489.32	762,321.96
9,318.00	15.80	182.00	9,303.53	-163.16	161.71	-219.80	272.87	306.34	488,474.71	762,321.20
9,391.10	20.34	184.46	9,373.01	-140.55	139.08	-221.13	261.24	302.17	488,452.08	762,319.87
FTP: 9391.1' MD										
9,413.00	21.70	185.00	9,393.45	-132.72	131.26	-221.78	257.71	300.62	488,444.26	762,319.22
9,509.00	27.90	179.30	9,480.57	-92.55	91.07	-223.06	240.93	292.21	488,404.07	762,317.94
9,534.00	30.60	178.20	9,502.38	-80.34	78.86	-222.79	236.33	289.49	488,391.86	762,318.21
9,604.00	35.70	177.80	9,560.97	-42.09	40.62	-221.44	225.14	280.39	488,353.62	762,319.56
9,700.00	41.30	180.40	9,636.07	17.64	-19.10	-220.59	221.41	265.05	488,293.90	762,320.41



ProDirectional Survey Report



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Site: Rodney Robinson Federal
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Wellbore: OH
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Local Co-ordinate Reference:
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Well No. 101H
Well @ 3766.50usft
Well @ 3766.50usft
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)
9,796.00	46.30	188.20	9,705.39	83.72	-85.22	-225.76	241.31	249.32	488,227.78	762,315.24
9,891.00	57.00	188.70	9,764.25	157.23	-158.80	-236.72	285.05	236.14	488,154.20	762,304.28
9,987.00	73.20	186.00	9,804.54	243.23	-244.88	-247.69	348.30	225.33	488,068.12	762,293.31
10,082.00	81.40	186.10	9,825.41	335.25	-336.96	-257.45	424.05	217.38	487,976.04	762,283.55
10,178.00	85.50	188.60	9,836.36	429.72	-431.52	-269.65	508.85	212.00	487,881.48	762,271.35
10,274.00	89.40	189.20	9,840.63	524.36	-526.25	-284.49	598.23	208.40	487,786.75	762,256.51
10,369.00	90.20	188.30	9,840.96	618.15	-620.15	-298.94	688.44	205.74	487,692.85	762,242.06
10,464.00	89.50	186.00	9,841.21	712.32	-714.40	-310.76	779.06	203.51	487,598.60	762,230.24
10,560.00	91.30	186.10	9,840.54	807.71	-809.86	-320.88	871.11	201.61	487,503.14	762,220.12
10,604.00	91.60	186.20	9,839.42	851.41	-853.59	-325.59	913.58	200.88	487,459.41	762,215.41
10,700.00	87.30	182.00	9,840.35	947.07	-949.30	-332.45	1,005.83	199.30	487,363.70	762,208.55
10,795.00	87.70	181.60	9,844.49	1,041.91	-1,044.16	-335.44	1,096.72	197.81	487,268.84	762,205.56
10,891.00	88.10	180.60	9,848.01	1,137.81	-1,140.08	-337.28	1,188.92	196.48	487,172.92	762,203.72
10,987.00	88.90	179.90	9,850.52	1,233.77	-1,236.04	-337.70	1,281.34	195.28	487,076.96	762,203.30
11,081.00	89.70	179.80	9,851.67	1,327.77	-1,330.03	-337.45	1,372.17	194.24	486,982.97	762,203.55
11,176.00	90.10	178.90	9,851.84	1,422.76	-1,425.03	-336.37	1,464.19	193.28	486,887.97	762,204.63
11,270.00	90.20	177.80	9,851.59	1,516.74	-1,518.99	-333.67	1,555.20	192.39	486,794.01	762,207.33
11,365.00	90.00	176.50	9,851.42	1,611.65	-1,613.87	-328.94	1,647.05	191.52	486,699.13	762,212.06
11,459.00	90.00	175.60	9,851.42	1,705.47	-1,707.64	-322.47	1,737.82	190.69	486,605.36	762,218.53
11,554.00	90.30	177.50	9,851.17	1,800.32	-1,802.46	-316.75	1,830.08	189.97	486,510.54	762,224.25
11,648.00	90.90	177.40	9,850.19	1,894.25	-1,896.37	-312.57	1,921.95	189.36	486,416.63	762,228.43
11,743.00	90.70	177.70	9,848.86	1,989.18	-1,991.27	-308.51	2,015.03	188.81	486,321.73	762,232.49
11,837.00	90.70	177.60	9,847.72	2,083.12	-2,085.18	-304.65	2,107.32	188.31	486,227.82	762,236.35
11,932.00	92.40	177.20	9,845.15	2,178.01	-2,180.05	-300.35	2,200.64	187.84	486,132.95	762,240.65
12,028.00	92.90	178.90	9,840.71	2,273.86	-2,275.89	-297.08	2,295.19	187.44	486,037.11	762,243.92
12,123.00	93.00	178.10	9,835.82	2,368.72	-2,370.73	-294.60	2,388.96	187.08	485,942.27	762,246.40
12,219.00	92.00	178.80	9,831.63	2,464.61	-2,466.60	-292.01	2,483.82	186.75	485,846.40	762,248.99



ProDirectional Survey Report

**Company:**

Matador Resources

Project:

Lea County, NM (NAD83)

Site:

Rodney Robinson Federal

Well:

No. 101H

Wellbore:

OH

Design:

MWD-188-19942", PTB: 20004'

Local Co-ordinate Reference:

Well No. 101H

Well @ 3766.50usft

Well @ 3766.50usft

Grid

Minimum Curvature

WellPlanner1

TVD Reference:

Well @ 3766.50usft

MD Reference:

Well @ 3766.50usft

North Reference:

WellPlanner1

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)
12,315.00	90.60	179.80	9,829.45	2,560.58	-2,562.56	-290.83	2,579.01	186.47	485,750.44	762,250.17
12,411.00	88.20	181.00	9,830.46	2,656.55	-2,658.55	-291.50	2,674.48	186.26	485,654.45	762,249.50
12,506.00	86.50	181.50	9,834.85	2,751.41	-2,753.42	-293.57	2,769.02	186.09	485,559.58	762,247.43
12,602.00	86.90	181.40	9,840.38	2,847.20	-2,849.23	-296.00	2,864.56	185.93	485,463.77	762,245.00
12,698.00	88.80	180.30	9,843.98	2,943.11	-2,945.14	-297.42	2,960.12	185.77	485,367.86	762,243.58
12,794.00	91.60	179.70	9,843.64	3,039.09	-3,041.13	-297.42	3,055.64	185.59	485,271.87	762,243.58
12,889.00	88.90	180.60	9,843.23	3,134.08	-3,136.12	-297.67	3,150.22	185.42	485,176.88	762,243.33
12,985.00	87.50	180.50	9,846.24	3,230.02	-3,232.07	-298.59	3,245.83	185.28	485,080.93	762,242.41
13,081.00	88.10	179.50	9,849.93	3,325.94	-3,328.00	-298.59	3,341.36	185.13	484,985.00	762,242.41
13,176.00	88.60	179.70	9,852.66	3,420.90	-3,422.95	-297.93	3,435.89	184.97	484,890.05	762,243.07
13,272.00	89.20	179.60	9,854.51	3,516.88	-3,518.93	-297.34	3,531.47	184.83	484,794.07	762,243.66
13,368.00	90.20	178.60	9,855.01	3,612.88	-3,614.92	-295.83	3,627.00	184.68	484,698.08	762,245.17
13,464.00	88.50	179.30	9,856.10	3,708.86	-3,710.89	-294.07	3,722.53	184.53	484,602.11	762,246.93
13,560.00	89.30	178.60	9,857.94	3,804.83	-3,806.86	-292.32	3,818.06	184.39	484,506.14	762,248.68
13,655.00	90.00	179.20	9,858.52	3,899.82	-3,901.84	-290.49	3,912.63	184.26	484,411.16	762,250.51
13,751.00	86.90	179.50	9,861.12	3,995.78	-3,997.78	-289.40	4,008.24	184.14	484,315.22	762,251.60
13,846.00	86.90	179.30	9,866.26	4,090.64	-4,092.64	-288.41	4,102.79	184.03	484,220.36	762,252.59
13,942.00	88.00	179.10	9,870.53	4,186.54	-4,188.53	-287.07	4,198.36	183.92	484,124.47	762,253.93
14,038.00	88.00	179.10	9,873.88	4,282.47	-4,284.46	-285.56	4,293.97	183.81	484,028.54	762,255.44
14,134.00	88.10	179.40	9,877.14	4,378.42	-4,380.40	-284.31	4,389.62	183.71	483,932.60	762,256.69
14,229.00	87.80	179.00	9,880.54	4,473.35	-4,475.33	-282.98	4,484.27	183.62	483,837.67	762,258.02
14,325.00	87.00	178.90	9,884.90	4,569.25	-4,571.21	-281.22	4,579.85	183.52	483,741.79	762,259.78
14,421.00	90.20	178.60	9,887.24	4,665.19	-4,667.15	-279.13	4,675.49	183.42	483,645.85	762,261.87
14,516.00	92.40	179.00	9,885.09	4,760.15	-4,762.10	-277.14	4,770.15	183.33	483,550.90	762,263.86
14,612.00	92.90	179.00	9,880.65	4,856.05	-4,857.98	-275.47	4,865.78	183.25	483,455.02	762,265.53
14,707.00	93.60	179.50	9,875.26	4,950.89	-4,952.82	-274.23	4,960.40	183.17	483,360.18	762,266.77
14,803.00	94.30	179.70	9,868.65	5,046.66	-5,048.59	-273.56	5,055.99	183.10	483,264.41	762,267.44



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Rodney Robinson Federal
Well: No. 101H
Wellbore: OH
Design: MWD-188'-19942', PTB: 20004'

Local Co-ordinate Reference:

TVD Reference: Well @ 3766.50usft
MD Reference: Well @ 3766.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Well No. 101H

Well @ 3766.50usft

Well @ 3766.50usft

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)
14,899.00	92.00	180.30	9,863.37	5,142.51	-5,144.43	-273.56	5,151.70	183.04	483,168.57	762,267.44
14,994.00	90.00	180.30	9,861.72	5,237.48	-5,239.41	-274.06	5,246.58	182.99	483,073.59	762,266.94
15,090.00	88.10	180.80	9,863.31	5,333.45	-5,335.39	-274.98	5,342.47	182.95	482,977.61	762,266.02
15,186.00	87.70	181.10	9,866.83	5,429.36	-5,431.31	-276.57	5,438.35	182.92	482,881.69	762,264.43
15,281.00	87.80	180.70	9,870.56	5,524.26	-5,526.23	-278.06	5,533.22	182.88	482,786.77	762,262.94
15,377.00	87.70	181.10	9,874.33	5,620.16	-5,622.14	-279.57	5,629.09	182.85	482,690.86	762,261.43
15,472.00	85.30	181.20	9,880.12	5,714.95	-5,716.94	-281.47	5,723.86	182.82	482,596.06	762,259.53
15,568.00	86.50	181.60	9,886.99	5,810.65	-5,812.66	-283.81	5,819.59	182.80	482,500.34	762,257.19
15,663.00	87.40	181.50	9,892.04	5,905.46	-5,907.49	-286.37	5,914.43	182.78	482,405.51	762,254.63
15,759.00	87.60	180.30	9,896.23	6,001.35	-6,003.39	-287.88	6,010.29	182.75	482,309.61	762,253.12
15,855.00	89.10	180.60	9,898.99	6,097.29	-6,099.34	-288.63	6,106.17	182.71	482,213.66	762,252.37
15,951.00	90.90	180.60	9,898.99	6,193.28	-6,195.33	-289.64	6,202.10	182.68	482,117.67	762,251.36
16,046.00	90.90	179.60	9,897.50	6,288.26	-6,290.32	-289.81	6,296.99	182.64	482,022.68	762,251.19
16,142.00	91.80	179.20	9,895.24	6,384.23	-6,386.29	-288.80	6,392.81	182.59	481,926.71	762,252.20
16,238.00	92.00	179.10	9,892.06	6,480.18	-6,482.22	-287.38	6,488.59	182.54	481,830.78	762,253.62
16,333.00	92.00	178.80	9,888.74	6,575.11	-6,577.15	-285.64	6,583.35	182.49	481,735.85	762,255.36
16,429.00	91.40	179.30	9,885.89	6,671.06	-6,673.09	-284.05	6,679.14	182.44	481,639.91	762,256.95
16,525.00	91.00	179.30	9,883.88	6,767.04	-6,769.07	-282.87	6,774.97	182.39	481,543.93	762,258.13
16,620.00	90.90	178.60	9,882.31	6,862.02	-6,864.04	-281.13	6,869.79	182.35	481,448.96	762,259.87
16,716.00	89.40	177.70	9,882.06	6,957.98	-6,959.98	-278.03	6,965.53	182.29	481,353.02	762,262.97
16,812.00	89.60	177.20	9,882.89	7,053.91	-7,055.88	-273.76	7,061.19	182.22	481,257.12	762,267.24
16,907.00	90.20	177.30	9,883.06	7,148.83	-7,150.77	-269.21	7,155.84	182.16	481,162.23	762,271.79
17,003.00	88.90	176.50	9,883.81	7,244.72	-7,246.63	-264.01	7,251.43	182.09	481,066.37	762,276.99
17,098.00	88.70	179.10	9,885.80	7,339.64	-7,341.53	-260.37	7,346.14	182.03	480,971.47	762,280.63
17,194.00	85.80	178.20	9,890.41	7,435.50	-7,437.38	-258.11	7,441.86	181.99	480,875.62	762,282.89
17,290.00	88.00	177.80	9,895.60	7,531.32	-7,533.17	-254.76	7,537.48	181.94	480,779.83	762,286.24
17,386.00	89.30	177.70	9,897.86	7,627.24	-7,629.07	-251.00	7,633.20	181.88	480,683.93	762,290.00



ProDirectional Survey Report

**Company:**

Matador Resources
Lea County, NM (NAD83)
Site: Rodney Robinson Federal
Well: No. 101H
Wellbore: OH
Design: MWD-188'-19942', PTB: 20004'

Local Co-ordinate Reference:

Well No. 101H
Well @ 3766.50usft
Well @ 3766.50usft
Grid
Minimum Curvature
WellPlanner1

TVD Reference:**MD Reference:****North Reference:****Survey Calculation Method:****Database:****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)
17,482.00	89.90	177.70	9,898.53	7,723.18	-7,724.99	-247.14	7,728.94	181.83	480,588.01	762,293.86
17,577.00	90.90	177.80	9,897.87	7,818.13	-7,819.91	-243.41	7,823.70	181.78	480,493.09	762,297.59
17,673.00	91.60	177.80	9,895.78	7,914.06	-7,915.82	-239.73	7,919.45	181.73	480,397.18	762,301.27
17,769.00	94.00	178.60	9,891.09	8,009.90	-8,011.65	-236.72	8,015.15	181.69	480,301.35	762,304.28
17,865.00	96.40	177.90	9,882.39	8,105.47	-8,107.20	-233.80	8,110.57	181.65	480,205.80	762,307.20
17,960.00	95.70	178.80	9,872.37	8,199.92	-8,201.63	-231.08	8,204.89	181.61	480,111.37	762,309.92
18,056.00	95.00	179.30	9,863.42	8,295.50	-8,297.20	-229.50	8,300.37	181.58	480,015.80	762,311.50
18,152.00	93.80	181.30	9,856.06	8,391.20	-8,392.91	-230.00	8,396.06	181.57	479,920.09	762,311.00
18,248.00	93.60	181.70	9,849.86	8,486.95	-8,488.68	-232.51	8,491.86	181.57	479,824.32	762,308.49
18,343.00	89.30	183.60	9,847.46	8,581.76	-8,583.52	-236.90	8,586.79	181.58	479,729.48	762,304.10
18,438.00	88.90	183.60	9,848.95	8,676.52	-8,678.32	-242.86	8,681.72	181.60	479,634.68	762,298.14
18,534.00	87.30	183.30	9,852.13	8,772.25	-8,774.09	-248.64	8,777.61	181.62	479,538.91	762,292.36
18,630.00	87.30	182.80	9,856.66	8,867.97	-8,869.85	-253.74	8,873.47	181.64	479,443.15	762,287.26
18,725.00	86.60	181.80	9,861.71	8,962.73	-8,964.63	-257.54	8,968.33	181.65	479,348.37	762,283.46
18,820.00	86.40	181.10	9,867.51	9,057.50	-9,059.43	-259.94	9,063.15	181.64	479,253.57	762,281.06
18,916.00	85.40	181.00	9,874.37	9,153.23	-9,155.16	-261.70	9,158.90	181.64	479,157.84	762,279.30
19,012.00	87.60	180.60	9,880.23	9,249.02	-9,250.97	-263.04	9,254.71	181.63	479,062.03	762,277.96
19,108.00	89.50	179.30	9,882.66	9,344.98	-9,346.93	-262.95	9,350.63	181.61	478,966.07	762,278.05
19,203.00	89.60	178.60	9,883.41	9,439.97	-9,441.91	-261.21	9,445.52	181.58	478,871.09	762,279.79
19,298.00	91.90	178.50	9,882.17	9,534.94	-9,536.87	-258.81	9,540.38	181.55	478,776.13	762,282.19
19,394.00	92.10	178.30	9,878.82	9,630.86	-9,632.77	-256.13	9,636.17	181.52	478,680.23	762,284.87
19,489.00	93.70	178.00	9,874.01	9,725.70	-9,727.60	-253.07	9,730.89	181.49	478,585.40	762,287.93
19,585.00	91.70	178.90	9,869.49	9,821.57	-9,823.45	-250.47	9,826.64	181.46	478,489.55	762,290.53
19,681.00	90.40	178.60	9,867.73	9,917.54	-9,919.41	-248.38	9,922.52	181.43	478,393.59	762,292.62
19,777.00	90.40	177.30	9,867.06	10,013.50	-10,015.34	-244.95	10,018.34	181.40	478,297.66	762,296.05
19,873.00	91.10	177.40	9,865.80	10,109.41	-10,111.23	-240.51	10,114.09	181.36	478,201.77	762,300.49



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 101H
Project:	Lea County, NM (NAD83)	TVD Reference:	Well @ 3766.50usft
Site:	Rodney Robinson Federal	MD Reference:	Well @ 3766.50usft
Well:	No. 101H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-188'-19942', PTB: 20004'	Database:	WellPlanner1

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Easting (usft)
19,942.00	91.70	177.50	9,864.12	10,178.34	-10,180.14	-237.44	10,182.91	181.34	762,303.56
Last Survey: 19942' MD									
20,004.00	91.70	177.50	9,862.28	10,240.27	-10,242.05	-234.74	10,244.74	181.31	762,306.26
PTB: 20004' MD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
		+N/-S (usft)	+E/-W (usft)	Comment
188.00	187.99	0.12	-1.31	Pro MWD First Survey: 188' MD
9,391.10	9,373.01	139.08	-221.13	FTP: 9391.1' MD
19,942.00	9,864.12	-10,180.14	-237.44	Last Survey: 19942' MD
20,004.00	9,862.28	-10,242.05	-234.74	PTB: 20004' MD