



Rcvd 6/23/2020 NMOCD DISTRICT I



Rodney Robinson Federal No. 202H
Lea County, NM

December 09, 2019

Job No. LNM5541419

ORIGINAL

Certified Report



PRODIRECTIONAL

Survey Certification Letter

December 09, 2019



Operator Name: Matador Resources
Well Name: Rodney Robinson Federal No. 202H
County/Parish: Lea County,
State: NM.
Rig Name: Patterson 809
Job Number: LNM5541419

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	173' MD – 22,246' MD	22,438' MD	10/16/19 – 11/17/19	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. 202H
OH**

Survey: ProDirectional

Survey Report

09 December, 2019





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 202H
Project:	Lea County, NM (NAD83)	TVD Reference:	Well @ 3759.50usft
Site:	Rodney Robinson Federal	MD Reference:	Well @ 3759.50usft
Well:	No. 202H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD	Database:	WellPlanner1

Project	Lea County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
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. 202H, LNM5541419				
Well Position	+N/-S	0.00 usft	Northing:	488,319.00 usft	Latitude:	32.3404062
	+E/-W	0.00 usft	Easting:	763,671.00 usft	Longitude:	-103.6134366
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,731.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/28/2019	6.67	60.05	47,965.70

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	179.62

Survey Program	Date 12/9/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
173.00	22,438.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



ProDirectional Survey Report



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Well: No. 202H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 202H
TVD Reference: Well @ 3759.50usft
MD Reference: Well @ 3759.50usft
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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	488,319.00	763,671.00	
173.00	0.50	199.40	173.00	0.71	-0.71	-0.25	0.75	199.40	488,318.29	763,670.75	
Pro MWD First Survey: 173' MD											
328.00	0.70	184.30	327.99	2.29	-2.29	-0.55	2.36	193.40	488,316.71	763,670.45	
513.00	1.90	77.80	512.95	2.79	-2.77	2.37	3.65	139.52	488,316.23	763,673.37	
654.00	1.90	68.30	653.88	1.46	-1.41	6.82	6.97	101.71	488,317.59	763,677.82	
747.00	1.50	74.30	746.84	0.58	-0.52	9.43	9.44	93.13	488,318.48	763,680.43	
932.00	0.30	72.80	931.81	-0.20	0.28	12.22	12.22	88.67	488,319.28	763,683.22	
1,025.00	0.50	42.80	1,024.81	-0.57	0.65	12.73	12.75	87.06	488,319.65	763,683.73	
1,118.00	0.30	15.00	1,117.81	-1.10	1.19	13.07	13.12	84.81	488,320.19	763,684.07	
1,211.00	0.30	38.10	1,210.80	-1.52	1.61	13.28	13.38	83.08	488,320.61	763,684.28	
1,259.00	0.10	137.70	1,258.80	-1.59	1.68	13.39	13.49	82.84	488,320.68	763,684.39	
1,398.00	0.40	221.00	1,397.80	-1.14	1.22	13.15	13.21	84.68	488,320.22	763,684.15	
1,494.00	0.80	37.30	1,493.80	-1.42	1.50	13.34	13.42	83.56	488,320.50	763,684.34	
1,589.00	2.60	38.40	1,588.75	-3.62	3.72	15.08	15.53	76.14	488,322.72	763,686.08	
1,685.00	3.30	44.10	1,684.63	-7.29	7.41	18.35	19.79	68.01	488,326.41	763,689.35	
1,781.00	5.40	36.90	1,780.35	-12.86	13.01	22.99	26.41	60.49	488,332.01	763,693.99	
1,876.00	5.60	38.50	1,874.91	-20.02	20.21	28.56	34.99	54.71	488,339.21	763,699.56	
1,972.00	5.40	40.30	1,970.47	-27.09	27.32	34.40	43.93	51.54	488,346.32	763,705.40	
2,067.00	5.40	39.50	2,065.05	-33.91	34.18	40.13	52.71	49.58	488,353.18	763,711.13	
2,163.00	5.60	41.20	2,160.60	-40.88	41.19	46.09	61.81	48.21	488,360.19	763,717.09	
2,258.00	5.10	41.10	2,255.19	-47.51	47.86	51.92	70.61	47.33	488,366.86	763,722.92	
2,354.00	5.30	39.10	2,350.79	-54.13	54.52	57.52	79.25	46.54	488,373.52	763,728.52	
2,450.00	7.30	37.60	2,446.21	-62.36	62.79	64.04	89.68	45.56	488,381.79	763,735.04	
2,545.00	7.20	39.70	2,540.45	-71.68	72.15	71.52	101.59	44.75	488,391.15	763,742.52	
2,640.00	7.30	40.70	2,634.69	-80.78	81.31	79.26	113.55	44.27	488,400.31	763,750.26	
2,736.00	7.30	40.30	2,729.91	-90.00	90.58	87.18	125.72	43.90	488,409.58	763,758.18	



ProDirectional Survey Report



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Site: Rodney Robinson Federal
Well: No. 202H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well No. 202H
Well @ 3759.50usft
Well @ 3759.50usft
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)
2,831.00	7.60	40.90	2,824.11	-99.30	99.94	95.20	138.02	43.61	488,418.94	763,766.20
2,927.00	7.80	39.10	2,919.24	-109.10	109.79	103.47	150.86	43.30	488,428.79	763,774.47
3,023.00	8.00	38.90	3,014.33	-119.30	120.04	111.77	164.02	42.96	488,439.04	763,782.77
3,118.00	8.50	39.20	3,108.35	-129.83	130.63	120.36	177.62	42.66	488,449.63	763,791.36
3,214.00	8.80	40.50	3,203.26	-140.85	141.71	129.61	192.04	42.45	488,460.71	763,800.61
3,309.00	8.10	47.80	3,297.23	-150.81	151.73	139.29	205.97	42.55	488,470.73	763,810.29
3,405.00	6.90	62.10	3,392.41	-157.98	158.98	149.40	218.16	43.22	488,477.98	763,820.40
3,500.00	6.70	75.50	3,486.75	-161.97	163.03	159.81	228.29	44.43	488,482.03	763,830.81
3,596.00	6.70	74.60	3,582.10	-164.79	165.92	170.63	238.00	45.80	488,484.92	763,841.63
3,691.00	6.60	73.50	3,676.46	-167.74	168.95	181.20	247.75	47.00	488,487.95	763,852.20
3,786.00	6.20	74.40	3,770.87	-170.60	171.88	191.38	257.23	48.07	488,490.88	763,862.38
3,882.00	6.20	76.50	3,866.30	-173.14	174.48	201.41	266.48	49.10	488,493.48	763,872.41
3,978.00	4.80	84.10	3,961.86	-174.70	176.10	210.45	274.41	50.08	488,495.10	763,881.45
4,073.00	3.20	100.10	4,056.63	-174.60	176.05	217.01	279.44	50.95	488,495.05	763,888.01
4,168.00	3.10	114.70	4,151.49	-173.03	174.51	221.96	282.35	51.82	488,493.51	763,892.96
4,264.00	2.60	107.10	4,247.37	-171.28	172.78	226.40	284.80	52.65	488,491.78	763,897.40
4,359.00	1.90	62.70	4,342.30	-171.34	172.87	229.86	287.61	53.05	488,491.87	763,900.86
4,455.00	0.80	58.80	4,438.27	-172.41	173.95	231.85	289.85	53.12	488,492.95	763,902.85
4,550.00	1.00	116.80	4,533.26	-172.37	173.92	233.15	290.87	53.28	488,492.92	763,904.15
4,645.00	2.40	109.60	4,628.22	-171.31	172.88	235.77	292.36	53.75	488,491.88	763,906.77
4,741.00	3.30	106.60	4,724.10	-169.82	171.41	240.31	295.18	54.50	488,490.41	763,911.31
4,837.00	2.10	116.20	4,819.99	-168.22	169.85	244.53	297.73	55.22	488,488.85	763,915.53
4,932.00	1.80	129.80	4,914.94	-166.48	168.13	247.24	298.99	55.78	488,487.13	763,918.24
4,994.00	1.70	126.30	4,976.91	-165.30	166.96	248.73	299.57	56.13	488,485.96	763,919.73
5,165.00	2.00	119.40	5,147.82	-162.31	163.99	253.38	301.81	57.09	488,482.99	763,924.38
5,260.00	0.70	35.40	5,242.80	-161.95	163.65	255.16	303.13	57.33	488,482.65	763,926.16
5,356.00	1.10	353.50	5,338.79	-163.35	165.04	255.39	304.08	57.13	488,484.04	763,926.39



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Site: Rodney Robinson Federal
Well: No. 202H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well No. 202H
Well @ 3759.50usft
Well @ 3759.50usft
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)	
5,452.00	1.00	357.40	5,434.77	-165.10	166.80	255.25	304.91	56.84	488,485.80	763,926.25	
5,547.00	1.10	5.80	5,529.75	-166.83	168.53	255.30	305.91	56.57	488,487.53	763,926.30	
5,643.00	1.00	358.50	5,625.74	-168.59	170.29	255.37	306.94	56.30	488,489.29	763,926.37	
5,739.00	1.20	350.70	5,721.72	-170.42	172.12	255.19	307.81	56.00	488,491.12	763,926.19	
5,834.00	1.20	345.70	5,816.70	-172.37	174.06	254.78	308.56	55.66	488,493.06	763,925.78	
5,930.00	1.30	352.40	5,912.68	-174.42	176.11	254.39	309.40	55.31	488,495.11	763,925.39	
6,025.00	1.40	341.30	6,007.65	-176.59	178.28	253.88	310.22	54.92	488,497.28	763,924.88	
6,121.00	1.20	354.10	6,103.63	-178.71	180.39	253.40	311.05	54.55	488,499.39	763,924.40	
6,216.00	1.50	354.00	6,198.60	-180.94	182.62	253.17	312.16	54.20	488,501.62	763,924.17	
6,312.00	1.50	347.20	6,294.57	-183.41	185.09	252.76	313.28	53.78	488,504.09	763,923.76	
6,408.00	1.70	349.30	6,390.53	-186.04	187.72	252.21	314.40	53.34	488,506.72	763,923.21	
6,503.00	1.90	352.80	6,485.48	-188.99	190.66	251.75	315.81	52.86	488,509.66	763,922.75	
6,599.00	2.00	359.50	6,581.43	-192.25	193.92	251.54	317.61	52.37	488,512.92	763,922.54	
6,694.00	2.00	3.80	6,676.37	-195.56	197.23	251.64	319.72	51.91	488,516.23	763,922.64	
6,789.00	1.60	356.40	6,771.32	-198.54	200.21	251.66	321.59	51.50	488,519.21	763,922.66	
6,885.00	1.80	349.70	6,867.28	-201.36	203.03	251.31	323.07	51.07	488,522.03	763,922.31	
6,980.00	1.70	347.50	6,962.23	-204.21	205.87	250.74	324.43	50.61	488,524.87	763,921.74	
7,076.00	1.60	343.50	7,058.20	-206.89	208.55	250.05	325.60	50.17	488,527.55	763,921.05	
7,171.00	1.60	337.80	7,153.16	-209.39	211.05	249.17	326.54	49.74	488,530.05	763,920.17	
7,267.00	1.20	324.50	7,249.13	-211.46	213.11	248.08	327.04	49.34	488,532.11	763,919.08	
7,362.00	1.40	307.20	7,344.11	-212.98	214.62	246.58	326.90	48.96	488,533.62	763,917.58	
7,457.00	1.20	307.70	7,439.08	-214.30	215.93	244.87	326.47	48.59	488,534.93	763,915.87	
7,553.00	1.30	308.20	7,535.06	-215.60	217.22	243.21	326.09	48.23	488,536.22	763,914.21	
7,649.00	1.10	311.90	7,631.04	-216.90	218.51	241.67	325.81	47.88	488,537.51	763,912.67	
7,744.00	1.10	320.80	7,726.02	-218.22	219.82	240.42	325.76	47.56	488,538.82	763,911.42	
7,840.00	1.10	307.30	7,822.00	-219.50	221.09	239.10	325.66	47.24	488,540.09	763,910.10	
7,936.00	1.10	313.20	7,917.98	-220.70	222.28	237.70	325.44	46.92	488,541.28	763,908.70	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Rodney Robinson Federal
Well: No. 202H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 202H
TVD Reference: Well @ 3759.50usft
MD Reference: Well @ 3759.50usft
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)
8,032.00	1.00	304.40	8,013.97	-221.81	223.39	236.34	325.20	46.61	488,542.39	763,907.34
8,127.00	1.10	302.20	8,108.95	-222.78	224.34	234.88	324.80	46.31	488,543.34	763,905.88
8,222.00	0.90	307.70	8,203.94	-223.73	225.28	233.52	324.47	46.03	488,544.28	763,904.52
8,318.00	1.00	313.70	8,299.92	-224.78	226.32	232.32	324.33	45.75	488,545.32	763,903.32
8,414.00	0.60	242.00	8,395.92	-225.13	226.67	231.27	323.82	45.58	488,545.67	763,902.27
8,509.00	1.30	169.10	8,490.91	-223.84	225.37	231.03	322.75	45.71	488,544.37	763,902.03
8,605.00	1.30	169.00	8,586.88	-221.70	223.24	231.44	321.56	46.03	488,542.24	763,902.44
8,700.00	1.30	166.90	8,681.86	-219.59	221.13	231.89	320.43	46.36	488,540.13	763,902.89
8,796.00	1.30	169.80	8,777.83	-217.45	219.00	232.33	319.28	46.69	488,538.00	763,903.33
8,892.00	1.00	167.40	8,873.81	-215.56	217.11	232.71	318.26	46.99	488,536.11	763,903.71
8,987.00	1.00	158.70	8,968.80	-213.97	215.53	233.19	317.54	47.25	488,534.53	763,904.19
9,083.00	0.80	148.70	9,064.79	-212.62	214.17	233.84	317.10	47.51	488,533.17	763,904.84
9,178.00	0.50	172.80	9,159.78	-211.64	213.19	234.24	316.73	47.69	488,532.19	763,905.24
9,274.00	0.60	198.00	9,255.78	-210.74	212.30	234.14	316.06	47.80	488,531.30	763,905.14
9,369.00	0.50	224.50	9,350.77	-209.98	211.53	233.69	315.21	47.85	488,530.53	763,904.69
9,465.00	0.60	260.80	9,446.77	-209.60	211.15	232.90	314.37	47.80	488,530.15	763,903.90
9,561.00	1.00	283.90	9,542.76	-209.73	211.27	231.59	313.48	47.63	488,530.27	763,902.59
9,656.00	1.10	289.70	9,637.74	-210.25	211.78	229.93	312.60	47.35	488,530.78	763,900.93
9,752.00	0.70	331.00	9,733.73	-211.08	212.60	228.78	312.31	47.10	488,531.60	763,899.78
9,847.00	1.10	339.90	9,828.72	-212.45	213.97	228.18	312.81	46.84	488,532.97	763,899.18
9,943.00	1.50	109.70	9,924.71	-212.89	214.41	229.05	313.74	46.89	488,533.41	763,900.05
10,039.00	1.70	117.60	10,020.67	-211.79	213.33	231.50	314.80	47.34	488,532.33	763,902.50
10,134.00	1.90	108.90	10,115.62	-210.61	212.16	234.23	316.04	47.83	488,531.16	763,905.23
10,230.00	1.60	104.70	10,211.58	-209.73	211.31	237.04	317.55	48.28	488,530.31	763,908.04
10,325.00	1.70	89.00	10,306.54	-209.40	211.00	239.73	319.36	48.65	488,530.00	763,910.73
10,421.00	1.20	151.30	10,402.51	-208.53	210.14	241.63	320.23	48.99	488,529.14	763,912.63
10,516.00	0.70	154.40	10,497.50	-207.13	208.74	242.36	319.87	49.26	488,527.74	763,913.36



ProDirectional Survey Report



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Site:	Rodney Robinson Federal	MD Reference:	Well @ 3759.50usft
Well:	No. 202H	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)	
10,612.00	0.60	52.50	10,593.50	-206.90	208.52	243.02	320.21	49.37	488,527.52	763,914.02	
10,707.00	0.70	43.40	10,688.49	-207.62	209.24	243.81	321.29	49.36	488,528.24	763,914.81	
10,803.00	1.20	138.30	10,784.48	-207.29	208.92	244.88	321.89	49.53	488,527.92	763,915.88	
10,898.00	0.70	136.40	10,879.47	-206.12	207.76	245.94	321.95	49.81	488,526.76	763,916.94	
10,994.00	2.60	214.80	10,975.43	-203.91	205.54	245.10	319.88	50.02	488,524.54	763,916.10	
11,090.00	3.10	215.20	11,071.31	-200.02	201.64	242.36	315.27	50.24	488,520.64	763,913.36	
11,185.00	2.10	220.40	11,166.21	-196.62	198.21	239.76	311.08	50.42	488,517.21	763,910.76	
11,281.00	2.00	232.30	11,262.15	-194.27	195.85	237.29	307.67	50.47	488,514.85	763,908.29	
11,376.00	1.40	228.90	11,357.11	-192.51	194.07	235.10	304.86	50.46	488,513.07	763,906.10	
11,471.00	0.60	232.20	11,452.10	-191.45	193.00	233.84	303.20	50.46	488,512.00	763,904.84	
11,567.00	0.50	224.10	11,548.09	-190.84	192.39	233.15	302.28	50.47	488,511.39	763,904.15	
11,672.00	4.80	180.90	11,652.96	-186.12	187.67	232.76	298.99	51.12	488,506.67	763,903.76	
11,719.00	10.90	175.30	11,699.50	-179.72	181.27	233.09	295.28	52.13	488,500.27	763,904.09	
11,767.00	15.60	176.00	11,746.20	-168.75	170.30	233.92	289.34	53.94	488,489.30	763,904.92	
11,863.00	24.10	175.10	11,836.42	-136.26	137.84	236.50	273.73	59.77	488,456.84	763,907.50	
11,959.00	32.90	176.50	11,920.70	-90.60	92.19	239.77	256.88	68.97	488,411.19	763,910.77	
12,054.00	40.90	179.70	11,996.62	-33.64	35.24	241.51	244.07	81.70	488,354.24	763,912.51	
12,150.00	51.30	178.80	12,063.09	35.43	-33.83	242.46	244.81	97.94	488,285.17	763,913.46	
12,246.00	60.50	178.60	12,116.86	114.83	-113.21	244.27	269.23	114.87	488,205.79	763,915.27	
12,341.00	70.70	181.60	12,156.06	201.22	-199.60	244.03	315.26	129.28	488,119.40	763,915.03	
12,474.00	79.80	180.70	12,189.89	329.65	-328.06	241.47	407.34	143.64	487,990.94	763,912.47	
12,569.00	82.60	175.90	12,204.43	423.47	-421.86	244.27	487.47	149.93	487,897.14	763,915.27	
12,664.00	85.10	174.90	12,214.60	517.66	-516.00	251.84	574.18	153.98	487,803.00	763,922.84	
12,759.00	88.80	175.90	12,219.66	612.25	-610.54	259.45	663.38	156.98	487,708.46	763,930.45	
12,854.00	91.50	178.70	12,219.41	707.15	-705.42	263.92	753.17	159.49	487,613.58	763,934.92	
12,948.00	90.70	182.90	12,217.60	801.09	-799.37	262.61	841.40	161.81	487,519.63	763,933.61	
13,043.00	89.30	184.60	12,217.60	895.84	-894.16	256.40	930.19	164.00	487,424.84	763,927.40	



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Rodney Robinson Federal
Well: No. 202H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 202H
TVD Reference: Well @ 3759.50usft
MD Reference: Well @ 3759.50usft
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)
13,139.00	85.10	185.80	12,222.29	991.25	-989.63	247.71	1,020.16	165.95	487,329.37	763,918.71
13,234.00	85.30	185.60	12,230.24	1,085.38	-1,083.83	238.31	1,109.72	167.60	487,235.17	763,909.31
13,329.00	85.10	185.70	12,238.19	1,179.53	-1,178.03	228.99	1,200.08	169.00	487,140.97	763,899.99
13,424.00	83.10	184.10	12,247.96	1,273.61	-1,272.18	220.92	1,291.21	170.15	487,046.82	763,891.92
13,518.00	80.50	181.80	12,261.36	1,366.48	-1,365.08	216.12	1,382.08	171.00	486,953.92	763,887.12
13,613.00	80.90	178.30	12,276.72	1,460.21	-1,458.81	216.04	1,474.72	171.58	486,860.19	763,887.04
13,708.00	83.40	176.90	12,289.70	1,554.25	-1,552.83	219.99	1,568.33	171.94	486,766.17	763,890.99
13,803.00	86.00	176.80	12,298.47	1,648.73	-1,647.27	225.19	1,662.59	172.22	486,671.73	763,896.19
13,898.00	85.60	176.40	12,305.43	1,743.34	-1,741.85	230.80	1,757.07	172.45	486,577.15	763,901.80
13,992.00	85.10	176.40	12,313.05	1,836.88	-1,835.36	236.69	1,850.55	172.65	486,483.64	763,907.69
14,086.00	84.80	176.20	12,321.32	1,930.36	-1,928.80	242.73	1,944.01	172.83	486,390.20	763,913.73
14,180.00	84.90	176.30	12,329.76	2,023.82	-2,022.22	248.85	2,037.47	172.98	486,296.78	763,919.85
14,274.00	84.80	175.40	12,338.20	2,117.24	-2,115.59	255.63	2,130.98	173.11	486,203.41	763,926.63
14,369.00	87.70	175.90	12,344.41	2,211.80	-2,210.10	262.82	2,225.67	173.22	486,108.90	763,933.82
14,470.00	87.80	177.40	12,348.38	2,312.58	-2,310.85	268.71	2,326.42	173.37	486,008.15	763,939.71
14,565.00	86.90	180.20	12,352.77	2,407.46	-2,405.72	270.70	2,420.90	173.58	485,913.28	763,941.70
14,661.00	86.60	179.70	12,358.21	2,503.30	-2,501.56	270.78	2,516.17	173.82	485,817.44	763,941.78
14,756.00	86.60	178.30	12,363.85	2,598.13	-2,596.38	272.44	2,610.63	174.01	485,722.62	763,943.44
14,851.00	87.60	181.60	12,368.65	2,692.99	-2,691.24	272.52	2,705.00	174.22	485,627.76	763,943.52
14,946.00	88.20	181.60	12,372.13	2,787.87	-2,786.14	269.87	2,799.18	174.47	485,532.86	763,940.87
15,041.00	87.70	181.90	12,375.53	2,882.74	-2,881.03	266.97	2,893.38	174.71	485,437.97	763,937.97
15,136.00	84.00	179.90	12,382.41	2,977.45	-2,975.75	265.48	2,987.57	174.90	485,343.25	763,936.48
15,230.00	88.10	179.50	12,388.88	3,071.20	-3,069.51	265.97	3,081.01	175.05	485,249.49	763,936.97
15,324.00	88.10	179.40	12,392.00	3,165.15	-3,163.45	266.87	3,174.69	175.18	485,155.55	763,937.87
15,418.00	88.00	178.90	12,395.20	3,259.09	-3,257.39	268.27	3,268.41	175.29	485,061.61	763,939.27
15,513.00	87.90	178.10	12,398.59	3,354.01	-3,352.29	270.75	3,363.21	175.38	484,966.71	763,941.75
15,608.00	87.10	177.10	12,402.74	3,448.86	-3,447.12	274.73	3,458.05	175.44	484,871.88	763,945.73



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Rodney Robinson Federal
Well: No. 202H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 202H
TVD Reference: Well @ 3759.50usft
MD Reference: Well @ 3759.50usft
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)
15,703.00	86.60	179.30	12,407.96	3,543.68	-3,541.92	277.71	3,552.79	175.52	484,777.08	763,948.71
15,781.00	87.70	178.30	12,411.84	3,621.58	-3,619.80	279.34	3,630.57	175.59	484,699.20	763,950.34
15,876.00	90.70	179.30	12,413.16	3,716.55	-3,714.76	281.33	3,725.40	175.67	484,604.24	763,952.33
15,971.00	91.70	178.50	12,411.17	3,811.52	-3,809.72	283.15	3,820.23	175.75	484,509.28	763,954.15
16,066.00	90.90	180.80	12,409.02	3,906.48	-3,904.69	283.73	3,914.98	175.84	484,414.31	763,954.73
16,161.00	91.80	181.10	12,406.78	4,001.43	-3,999.65	282.15	4,009.59	175.96	484,319.35	763,953.15
16,257.00	89.50	182.70	12,405.69	4,097.34	-4,095.58	278.97	4,105.07	176.10	484,223.42	763,949.97
16,352.00	91.70	187.30	12,404.70	4,191.89	-4,190.18	270.70	4,198.92	176.30	484,128.82	763,941.70
16,447.00	87.80	185.80	12,405.11	4,286.17	-4,284.54	259.86	4,292.41	176.53	484,034.46	763,930.86
16,543.00	87.10	183.70	12,409.38	4,381.68	-4,380.11	251.92	4,387.35	176.71	483,938.89	763,922.92
16,638.00	86.80	183.80	12,414.44	4,476.30	-4,474.77	245.72	4,481.51	176.86	483,844.23	763,916.72
16,733.00	86.20	182.20	12,420.24	4,570.96	-4,569.46	240.75	4,575.80	176.98	483,749.54	763,911.75
16,828.00	89.20	182.70	12,424.05	4,665.75	-4,664.29	236.70	4,670.29	177.09	483,654.71	763,907.70
16,923.00	88.80	181.70	12,425.71	4,760.64	-4,759.20	233.05	4,764.90	177.20	483,559.80	763,904.05
17,017.00	89.30	182.00	12,427.27	4,854.56	-4,853.14	230.01	4,858.59	177.29	483,465.86	763,901.01
17,113.00	89.10	181.80	12,428.61	4,950.47	-4,949.08	226.83	4,954.27	177.38	483,369.92	763,897.83
17,208.00	90.20	181.80	12,429.19	5,045.40	-5,044.03	223.85	5,048.99	177.46	483,274.97	763,894.85
17,302.00	87.50	181.70	12,431.07	5,139.31	-5,137.95	220.98	5,142.70	177.54	483,181.05	763,891.98
17,396.00	88.00	181.90	12,434.76	5,233.17	-5,231.84	218.03	5,236.38	177.61	483,087.16	763,889.03
17,492.00	87.80	181.40	12,438.28	5,329.04	-5,327.73	215.27	5,332.08	177.69	482,991.27	763,886.27
17,587.00	88.50	181.30	12,441.35	5,423.95	-5,422.65	213.03	5,426.84	177.75	482,896.35	763,884.03
17,682.00	86.90	179.50	12,445.16	5,518.86	-5,517.57	212.37	5,521.65	177.80	482,801.43	763,883.37
17,776.00	91.70	180.50	12,446.31	5,612.82	-5,611.53	212.36	5,615.55	177.83	482,707.47	763,883.36
17,871.00	92.00	180.30	12,443.24	5,707.76	-5,706.48	211.70	5,710.41	177.88	482,612.52	763,882.70
17,967.00	91.30	179.90	12,440.48	5,803.72	-5,802.44	211.53	5,806.29	177.91	482,516.56	763,882.53
18,062.00	91.40	178.70	12,438.24	5,898.69	-5,897.41	212.69	5,901.24	177.93	482,421.59	763,883.69
18,156.00	91.70	178.00	12,435.70	5,992.63	-5,991.33	215.40	5,995.20	177.94	482,327.67	763,886.40



ProDirectional Survey Report



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Site: Rodney Robinson Federal
Well: No. 202H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference:
TVD Reference: Well No. 202H
MD Reference: Well @ 3759.50usft
North Reference: Well @ 3759.50usft
Survey Calculation Method: Grid
Database: 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)
18,251.00	91.30	177.30	12,433.21	6,087.54	-6,086.22	219.29	6,090.17	177.94	482,232.78	763,890.29
18,346.00	91.80	177.40	12,430.64	6,182.43	-6,181.08	223.69	6,185.13	177.93	482,137.92	763,894.69
18,441.00	89.00	178.00	12,429.98	6,277.36	-6,275.99	227.50	6,280.11	177.92	482,043.01	763,898.50
18,537.00	89.70	177.40	12,431.07	6,373.30	-6,371.91	231.35	6,376.11	177.92	481,947.09	763,902.35
18,632.00	88.50	177.00	12,432.56	6,468.20	-6,466.78	235.99	6,471.09	177.91	481,852.22	763,906.99
18,727.00	86.90	176.10	12,436.37	6,562.99	-6,561.53	241.70	6,565.98	177.89	481,757.47	763,912.70
18,821.00	89.40	177.80	12,439.41	6,656.83	-6,655.34	246.70	6,659.91	177.88	481,663.66	763,917.70
18,916.00	89.90	179.30	12,439.99	6,751.80	-6,750.30	249.10	6,754.89	177.89	481,568.70	763,920.10
19,011.00	89.00	178.60	12,440.90	6,846.79	-6,845.28	250.84	6,849.87	177.90	481,473.72	763,921.84
19,106.00	87.90	177.30	12,443.47	6,941.71	-6,940.18	254.24	6,944.83	177.90	481,378.82	763,925.24
19,201.00	89.10	177.40	12,445.95	7,036.60	-7,035.04	258.63	7,039.80	177.89	481,283.96	763,929.63
19,296.00	90.80	177.10	12,446.04	7,131.52	-7,129.93	263.19	7,134.79	177.89	481,189.07	763,934.19
19,392.00	93.10	177.40	12,442.77	7,227.37	-7,225.76	267.79	7,230.72	177.88	481,093.24	763,938.79
19,487.00	91.80	179.40	12,438.71	7,322.26	-7,320.63	270.44	7,325.62	177.88	480,998.37	763,941.44
19,582.00	90.90	179.20	12,436.47	7,417.23	-7,415.59	271.60	7,420.56	177.90	480,903.41	763,942.60
19,677.00	91.60	179.30	12,434.40	7,512.21	-7,510.56	272.84	7,515.52	177.92	480,808.44	763,943.84
19,773.00	88.50	179.90	12,434.32	7,608.19	-7,606.55	273.51	7,611.46	177.94	480,712.45	763,944.51
19,868.00	89.20	180.20	12,436.22	7,703.17	-7,701.53	273.43	7,706.38	177.97	480,617.47	763,944.43
19,963.00	90.30	180.30	12,436.64	7,798.16	-7,796.52	273.02	7,801.30	177.99	480,522.48	763,944.02
20,059.00	90.00	179.90	12,436.38	7,894.16	-7,892.52	272.85	7,897.24	178.02	480,426.48	763,943.85
20,154.00	90.40	179.50	12,436.05	7,989.16	-7,987.52	273.35	7,992.20	178.04	480,331.48	763,944.35
20,249.00	91.50	180.30	12,434.48	8,084.14	-8,082.51	273.51	8,087.13	178.06	480,236.49	763,944.51
20,343.00	91.40	179.80	12,432.10	8,178.11	-8,176.47	273.43	8,181.05	178.08	480,142.53	763,944.43
20,438.00	90.10	179.60	12,430.86	8,273.10	-8,271.46	273.93	8,276.00	178.10	480,047.54	763,944.93
20,533.00	90.10	179.40	12,430.69	8,368.10	-8,366.46	274.76	8,370.97	178.12	479,952.54	763,945.76
20,629.00	91.30	179.30	12,429.52	8,464.09	-8,462.44	275.85	8,466.94	178.13	479,856.56	763,946.85
20,723.00	90.50	179.50	12,428.04	8,558.07	-8,556.43	276.83	8,560.90	178.15	479,762.57	763,947.83



ProDirectional Survey Report



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Project: Lea County, NM (NAD83)
Site: Rodney Robinson Federal
Well: No. 202H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well No. 202H
Well @ 3759.50usft
Well @ 3759.50usft
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)
20,818.00	90.10	179.60	12,427.54	8,653.07	-8,651.42	277.58	8,655.87	178.16	479,667.58	763,948.58
20,913.00	89.90	178.60	12,427.54	8,748.07	-8,746.41	279.07	8,750.86	178.17	479,572.59	763,950.07
21,009.00	88.50	178.10	12,428.88	8,844.03	-8,842.36	281.83	8,846.85	178.17	479,476.64	763,952.83
21,104.00	87.70	177.80	12,432.03	8,938.94	-8,937.24	285.23	8,941.79	178.17	479,381.76	763,956.23
21,199.00	88.60	177.90	12,435.10	9,033.84	-9,032.13	288.79	9,036.74	178.17	479,286.87	763,959.79
21,295.00	88.80	178.60	12,437.28	9,129.79	-9,128.06	291.72	9,132.72	178.17	479,190.94	763,962.72
21,390.00	90.60	179.20	12,437.78	9,224.78	-9,223.03	293.54	9,227.70	178.18	479,095.97	763,964.54
21,485.00	90.70	178.20	12,436.70	9,319.76	-9,318.00	295.70	9,322.69	178.18	479,001.00	763,966.70
21,580.00	90.30	176.50	12,435.87	9,414.68	-9,412.89	300.09	9,417.67	178.17	478,906.11	763,971.09
21,675.00	91.50	176.90	12,434.38	9,509.54	-9,507.72	305.56	9,512.63	178.16	478,811.28	763,976.56
21,770.00	91.40	176.60	12,431.97	9,604.39	-9,602.54	310.94	9,607.57	178.15	478,716.46	763,981.94
21,865.00	92.60	178.10	12,428.66	9,699.25	-9,697.37	315.33	9,702.50	178.14	478,621.63	763,986.33
21,960.00	92.40	177.30	12,424.51	9,794.11	-9,792.21	319.14	9,797.41	178.13	478,526.79	763,990.14
22,056.00	92.30	176.40	12,420.58	9,889.91	-9,887.98	324.41	9,893.30	178.12	478,431.02	763,995.41
22,150.00	92.10	174.90	12,416.97	9,983.62	-9,981.64	331.54	9,987.14	178.10	478,337.36	764,002.54
22,246.00	90.40	172.60	12,414.87	10,079.08	-10,077.03	341.99	10,082.83	178.06	478,241.97	764,012.99
Last Survey: 22246' MD										
22,438.00	90.40	172.60	12,413.53	10,269.64	-10,267.43	366.71	10,273.98	177.95	478,051.57	764,037.71
PTB: 22438' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
173.00	173.00	-0.71	-0.25	Pro MWD First Survey: 173' MD
22,246.00	12,414.87	-10,077.03	341.99	Last Survey: 22246' MD
22,438.00	12,413.53	-10,267.43	366.71	PTB: 22438' MD