



PRODIRECTIONAL

005-43147

NM CIL CONSERVATION
ARTESTA DISTRICT

MAR 08 2017

RECEIVED

Matador Production Company

Tom Walters 12-23S-27E RB #203H

Eddy County, NM

November 20, 2016

Job No. LNM5127516

ORIGINAL

Certified Survey Report



ProDirectional

Survey Certification Letter

November 20, 2016

Operator Name: Matador Production Company
Well Name: Tom Walters 12-23S-27E RB # 203H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5127516

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	483' MD – 14,248' MD	14,316' MD	11/06/16 – 11/20/16	MWD-OWSG

Sincerely,

Mike Coats
Well Planning
Professional Directional

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

prodirectional.com

Matador Production Company

Eddy County, NM

Tom Walters 12-23S-27E RB

No. 203H

OH

Survey: ProDirectional

Survey Report

20 November, 2016

U.S. BUREAU OF LAND MANAGEMENT
ARIZONA DISTRICT
MAR 14 8 2017
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ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 203H
Project:	Eddy County, NM	TVD Reference:	Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))
Site:	Tom Walters 12-23S-27E RB	MD Reference:	Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))
Well:	No. 203H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro/MWD-98.20'-14248', Proj. 14316'	Database:	WellPlanner1

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

Site	Tom Walters 12-23S-27E RB			
Site Position:				
From:	Map			
Position Uncertainty:	0.00 usft	Northing:	479,532.00 usft	Latitude:
		Easting:	555,702.00 usft	Longitude:
		Slot Radius:	13-3/16 "	Grid Convergence:
				0.10 °

Well	No. 203H			
Well Position	+N/-S	0.00 usft	Northing:	479,532.00 usft
	+E/-W	0.00 usft	Easting:	555,702.00 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft
			Latitude:	32° 19' 5.595 N
			Longitude:	104° 9' 10.876 W
			Ground Level:	3,089.00 usft

Wellbore	OH			
Magnetics	Model Name	Sample Date	Declination	Dip Angle
	HDGM	10/19/2016	(°)	(°)
			7.43	60.13
				48,183.40

Design	Gyro/MWD-98.20'-14248', Proj. 14316'			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth:
				0.00
Vertical Section:		Depth From (TVD)	+N/-S	Direction
		(usft)	(usft)	(°)
		0.00	0.00	89.81



ProDirectional Survey Report



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Project: Eddy County, NM
Site: Tom Walters 12-23S-27E RB
Well: No. 203H
OH
Design: Gyro/MWD-98.20'-14248', Proj. 14316'

Local Co-ordinate Reference: Well No. 203H
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey Program		Date	11/20/2016										
From (usft)	To (usft)	Survey (Wellbore)		Tool Name		Description							
98.20	361.00	Gyro 98.2'-361' (OH)	GYD_DP_MS	Gyrodata gyro-compassing and drop									
483.00	14,316.00	Survey #2 (OH)	MWD - OWSG	MWD - OWSG									
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	479,532.00	555,702.00			
98.20	0.80	241.94	98.20	-0.61	-0.32	-0.60	0.69	241.94	479,531.68	555,701.40			
185.80	1.12	242.26	185.78	-1.91	-1.01	-1.90	2.15	242.07	479,530.99	555,700.10			
273.40	1.41	246.53	273.36	-3.65	-1.84	-3.65	4.08	243.28	479,530.16	555,698.35			
361.00	1.35	245.24	360.94	-5.58	-2.70	-5.57	6.19	244.17	479,529.30	555,696.43			
483.00	0.00	255.50	482.93	-6.89	-3.30	-6.88	7.63	244.38	479,528.70	555,695.12			
Pro MWD First Survey: 483' MD													
579.00	0.80	262.20	578.92	-7.55	-3.39	-7.54	8.27	245.80	479,528.61	555,694.46			
670.00	0.20	260.90	669.92	-8.34	-3.50	-8.33	9.04	247.20	479,528.50	555,693.67			
763.00	0.30	309.00	762.92	-8.69	-3.37	-8.68	9.31	248.75	479,528.63	555,693.32			
853.00	0.50	267.20	852.92	-9.27	-3.25	-9.25	9.81	250.68	479,528.75	555,692.75			
946.00	0.70	19.90	945.91	-9.48	-2.73	-9.47	9.85	253.91	479,529.27	555,692.53			
1,039.00	3.30	19.80	1,038.85	-8.37	0.32	-8.37	8.37	272.21	479,532.32	555,693.63			
1,133.00	5.50	28.00	1,132.57	-5.31	6.85	-5.33	8.68	322.07	479,538.85	555,696.67			
1,226.00	5.40	37.30	1,225.15	-0.54	14.26	-0.59	14.27	357.63	479,546.26	555,701.41			
1,320.00	4.10	32.60	1,318.82	3.97	20.61	3.90	20.98	10.72	479,552.61	555,705.90			
1,413.00	3.10	25.10	1,411.64	6.84	25.69	6.76	26.56	14.74	479,557.69	555,708.76			
1,507.00	4.00	46.60	1,505.46	10.32	30.24	10.22	31.92	18.67	479,562.24	555,712.22			
1,600.00	5.20	60.00	1,598.16	16.34	34.58	16.23	38.20	25.14	479,566.58	555,718.23			
1,694.00	5.20	67.30	1,691.78	23.97	38.35	23.85	45.16	31.87	479,570.35	555,725.85			
1,788.00	4.30	69.60	1,785.45	31.21	41.23	31.08	51.63	37.01	479,573.23	555,733.08			



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Tom Walters 12-23S-27E RB
Well: No. 203H
Wellbore: OH
Design: Gyro/MWD-98.20'-14248', Proj. 14316'

Local Co-ordinate Reference: Well No. 203H
TVD Reference: Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Patt809))
MD Reference: Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Patt809))
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)
1,881.00	4.30	73.00	1,878.19	37.82	43.46	37.68	57.52	40.92	479,575.46	555,739.68
1,974.00	4.20	67.40	1,970.94	44.31	45.79	44.16	63.61	43.96	479,577.79	555,746.16
2,068.00	4.80	66.10	2,064.65	51.09	48.71	50.93	70.47	46.28	479,580.71	555,752.93
2,162.00	4.20	67.60	2,158.36	57.88	51.61	57.71	77.42	48.19	479,583.61	555,759.71
2,255.00	3.20	46.00	2,251.17	62.91	54.71	62.73	83.23	48.90	479,586.71	555,764.73
2,349.00	2.90	39.00	2,345.03	66.30	58.38	66.11	88.20	48.55	479,590.38	555,768.11
2,468.00	2.20	44.80	2,463.92	69.82	62.34	69.61	93.45	48.15	479,594.34	555,771.61
2,562.00	4.30	37.10	2,557.76	73.23	66.43	73.01	98.71	47.70	479,598.43	555,775.01
2,655.00	4.70	35.90	2,650.47	77.59	72.30	77.35	105.88	46.93	479,604.30	555,779.35
2,749.00	4.50	36.70	2,744.17	82.07	78.38	81.81	113.30	46.23	479,610.38	555,783.81
2,843.00	4.20	37.70	2,837.90	86.40	84.06	86.12	120.34	45.69	479,616.06	555,788.12
2,936.00	4.00	38.50	2,930.66	90.52	89.29	90.22	126.94	45.30	479,621.29	555,792.22
3,030.00	3.70	37.90	3,024.45	94.44	94.25	94.13	133.20	44.96	479,626.25	555,796.13
3,123.00	3.50	36.60	3,117.26	97.99	98.90	97.66	138.99	44.64	479,630.90	555,799.66
3,217.00	4.70	45.20	3,211.02	102.45	103.91	102.10	145.68	44.50	479,635.91	555,804.10
3,310.00	5.00	45.00	3,303.69	108.04	109.46	107.67	153.55	44.53	479,641.46	555,809.67
3,404.00	4.70	45.20	3,397.35	113.68	115.08	113.30	161.49	44.56	479,647.08	555,815.30
3,497.00	4.30	45.70	3,490.07	118.90	120.19	118.50	168.79	44.59	479,652.19	555,820.50
3,591.00	4.00	44.60	3,583.82	123.74	124.99	123.33	175.59	44.62	479,656.99	555,825.33
3,684.00	3.80	41.10	3,676.60	128.06	129.62	127.63	181.91	44.56	479,661.62	555,829.63
3,778.00	3.80	43.00	3,770.40	132.25	134.25	131.80	188.13	44.47	479,666.25	555,833.80
3,871.00	4.20	37.80	3,863.17	136.45	139.19	135.99	194.60	44.33	479,671.19	555,837.99
3,965.00	5.00	43.90	3,956.87	141.42	144.86	140.94	202.11	44.21	479,676.86	555,842.94
4,058.00	5.20	46.00	4,049.50	147.28	150.71	146.78	210.38	44.24	479,682.71	555,848.78
4,152.00	4.60	43.10	4,143.16	152.94	156.42	152.42	218.41	44.26	479,688.42	555,854.42
4,245.00	3.90	40.40	4,235.90	157.56	161.55	157.02	225.29	44.18	479,693.55	555,859.02
4,338.00	3.40	37.80	4,328.71	161.31	166.14	160.76	231.19	44.06	479,698.14	555,862.76



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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)
4,432.00	3.90	41.40	4,422.52	165.15	170.74	164.58	237.15	43.95	479,702.74	555,866.58
4,526.00	3.80	40.90	4,516.31	169.32	175.50	168.74	243.46	43.88	479,707.50	555,870.74
4,619.00	3.30	39.50	4,609.13	173.05	179.89	172.46	249.20	43.79	479,711.89	555,874.46
4,712.00	2.80	35.40	4,702.00	176.08	183.81	175.48	254.12	43.67	479,715.81	555,877.48
4,805.00	2.50	36.80	4,794.90	178.63	187.28	178.01	258.38	43.55	479,719.28	555,880.01
4,899.00	0.90	52.50	4,888.85	180.45	189.37	179.82	261.15	43.52	479,721.37	555,881.82
4,992.00	0.40	57.40	4,981.85	181.30	189.99	180.67	262.18	43.56	479,721.99	555,882.67
5,086.00	0.30	33.00	5,075.85	181.71	190.38	181.08	262.74	43.57	479,722.38	555,883.08
5,180.00	0.40	2.30	5,169.84	181.86	190.91	181.23	263.23	43.51	479,722.91	555,883.23
5,273.00	0.20	312.10	5,262.84	181.76	191.34	181.12	263.47	43.43	479,723.34	555,883.12
5,367.00	0.30	293.80	5,356.84	181.41	191.55	180.78	263.39	43.34	479,723.55	555,882.78
5,460.00	0.40	278.80	5,449.84	180.87	191.70	180.23	263.12	43.23	479,723.70	555,882.23
5,554.00	0.40	267.90	5,543.84	180.22	191.74	179.58	262.70	43.12	479,723.74	555,881.58
5,647.00	0.90	253.90	5,636.83	179.19	191.52	178.55	261.85	42.99	479,723.52	555,880.55
5,741.00	1.50	244.70	5,730.81	177.36	190.79	176.73	260.07	42.81	479,722.79	555,878.73
5,835.00	1.00	162.60	5,824.80	176.49	189.49	175.87	258.52	42.87	479,721.49	555,877.87
5,928.00	1.10	147.40	5,917.78	177.21	187.96	176.59	257.90	43.21	479,719.96	555,878.59
6,022.00	1.30	171.40	6,011.76	177.85	186.14	177.24	257.03	43.60	479,718.14	555,879.24
6,115.00	1.30	169.00	6,104.74	178.20	184.07	177.59	255.77	43.97	479,716.07	555,879.59
6,209.00	1.20	166.90	6,198.71	178.62	182.06	178.02	254.63	44.36	479,714.06	555,880.02
6,302.00	1.50	198.10	6,291.69	178.46	179.96	177.86	253.02	44.67	479,711.96	555,879.86
6,396.00	2.50	219.00	6,385.63	176.78	177.19	176.19	249.88	44.84	479,709.19	555,878.19
6,490.00	0.80	195.50	6,479.59	175.30	174.97	174.73	247.27	44.96	479,706.97	555,876.73
6,583.00	0.90	193.20	6,572.58	174.96	173.63	174.38	246.08	45.12	479,705.63	555,876.38
6,677.00	0.20	329.10	6,666.58	174.70	173.05	174.13	245.50	45.18	479,705.05	555,876.13
6,771.00	0.20	350.40	6,760.58	174.59	173.35	174.02	245.63	45.11	479,705.35	555,876.02
6,865.00	0.00	159.10	6,854.58	174.57	173.52	173.99	245.73	45.08	479,705.52	555,875.99



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Tom Walters 12-23S-27E RB
Well: No. 203H
Wellbore: OH
Design: Gyro/MWD-98.20'-14248', Proj. 14316'

Local Co-ordinate Reference:
TVD Reference: Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))
MD Reference: Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Well No. 203H

Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))

Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))

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)
6,958.00	0.40	209.80	6,947.57	174.41	173.23	173.83	245.41	45.10	479,705.23	555,875.83
7,052.00	0.80	179.20	7,041.57	174.25	172.29	173.68	244.64	45.23	479,704.29	555,875.68
7,145.00	0.10	6.10	7,134.57	174.26	171.73	173.70	244.25	45.33	479,703.73	555,875.70
7,239.00	0.50	135.50	7,228.57	174.56	171.51	173.99	244.32	45.41	479,703.51	555,875.99
7,332.00	0.80	186.70	7,321.56	174.76	170.58	174.20	243.81	45.60	479,702.58	555,876.20
7,426.00	0.60	228.00	7,415.55	174.32	169.60	173.76	242.81	45.69	479,701.60	555,875.76
7,519.00	1.00	226.80	7,508.54	173.36	168.72	172.80	241.51	45.69	479,700.72	555,874.80
7,613.00	1.00	329.50	7,602.54	172.35	168.86	171.79	240.89	45.49	479,700.86	555,873.79
7,706.00	1.80	337.20	7,695.51	171.38	170.91	170.81	241.63	44.98	479,702.91	555,872.81
7,800.00	2.00	327.00	7,789.46	169.92	173.65	169.35	242.55	44.28	479,705.65	555,871.35
7,894.00	2.20	314.10	7,883.39	167.74	176.28	167.16	242.93	43.48	479,708.28	555,869.16
7,987.00	0.70	21.30	7,976.37	166.67	178.05	166.08	243.48	43.01	479,710.05	555,868.08
8,081.00	0.30	118.60	8,070.36	167.10	178.47	166.51	244.08	43.01	479,710.47	555,868.51
8,175.00	0.70	174.20	8,164.36	167.37	177.78	166.78	243.76	43.17	479,709.78	555,868.78
8,268.00	0.90	169.40	8,257.35	167.56	176.49	166.97	242.96	43.41	479,708.49	555,868.97
8,362.00	1.20	168.60	8,351.33	167.88	174.80	167.30	241.96	43.74	479,706.80	555,869.30
8,456.00	1.50	169.90	8,445.31	168.28	172.63	167.71	240.68	44.17	479,704.63	555,869.71
8,550.00	1.40	179.90	8,539.28	168.49	170.27	167.93	239.15	44.60	479,702.27	555,869.93
8,634.00	1.00	194.10	8,623.26	168.31	168.53	167.75	237.79	44.87	479,700.53	555,869.75
8,665.00	2.50	111.10	8,654.25	168.88	168.02	168.32	237.83	45.05	479,700.02	555,870.32
8,696.00	7.30	96.40	8,685.13	171.46	167.56	170.91	239.35	45.57	479,699.56	555,872.91
8,727.00	11.10	89.80	8,715.72	176.41	167.35	175.85	242.76	46.42	479,699.35	555,877.85
8,758.00	14.10	84.90	8,745.97	183.15	167.70	182.60	247.92	47.44	479,699.70	555,884.60
8,805.00	18.10	83.60	8,791.12	196.12	169.02	195.56	258.48	49.16	479,701.02	555,897.56
8,852.00	24.40	85.40	8,834.90	213.08	170.62	212.51	272.53	51.24	479,702.62	555,914.51
8,899.00	30.30	86.80	8,876.63	234.61	172.06	234.05	290.48	53.68	479,704.06	555,936.05
8,946.00	35.30	87.40	8,916.13	260.04	173.34	259.46	312.04	56.26	479,705.34	555,961.46



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	8,993.00	40.00	86.50	8,953.33	288.70	174.87	288.12	337.04	58.74	479,706.87	555,990.12
	9,040.00	43.70	86.40	8,988.33	320.00	176.82	319.42	365.09	61.03	479,708.82	556,021.42
	9,087.00	46.50	88.50	9,021.51	353.26	178.28	352.67	395.17	63.18	479,710.28	556,054.67
	9,134.00	47.70	89.60	9,053.50	387.68	178.85	387.09	426.41	65.20	479,710.85	556,089.09
	9,180.00	48.00	91.70	9,084.37	421.78	178.46	421.19	457.44	67.04	479,710.46	556,123.19
	9,227.00	52.50	95.10	9,114.42	457.82	176.29	457.24	490.05	68.92	479,708.29	556,159.24
	9,274.00	58.60	96.70	9,141.00	496.34	172.28	495.77	524.85	70.84	479,704.28	556,197.77
	9,321.00	61.90	97.20	9,164.32	536.82	167.34	536.27	561.77	72.67	479,699.34	556,238.27
	9,368.00	65.30	96.10	9,185.21	578.61	162.48	578.08	600.48	74.30	479,694.48	556,280.08
	9,415.00	68.30	95.10	9,203.73	621.59	158.26	621.07	640.91	75.70	479,690.26	556,323.07
	9,461.00	70.90	93.20	9,219.76	664.57	155.15	664.06	681.95	76.85	479,687.15	556,366.06
	9,508.00	73.50	91.70	9,234.13	709.27	153.24	708.77	725.14	77.80	479,685.24	556,410.77
	9,512.00	73.84	91.62	9,235.25	713.11	153.13	712.60	728.87	77.87	479,685.13	556,414.60
HL Xing: 9512' MD											
	9,587.00	80.20	90.10	9,252.09	786.14	152.05	785.64	800.22	79.05	479,684.05	556,487.64
	9,618.00	83.50	88.80	9,256.49	816.82	152.35	816.32	830.41	79.43	479,684.35	556,518.32
	9,649.00	86.70	88.60	9,259.13	847.70	153.05	847.19	860.91	79.76	479,685.05	556,549.19
	9,681.00	88.60	86.80	9,260.45	879.65	154.33	879.14	892.58	80.04	479,686.33	556,581.14
	9,775.00	88.40	87.70	9,262.91	973.52	158.84	973.00	985.88	80.73	479,690.84	556,675.00
	9,871.00	89.90	88.10	9,264.33	1,069.45	162.36	1,068.92	1,081.18	81.36	479,694.36	556,770.92
	9,965.00	90.40	87.90	9,264.09	1,163.41	165.64	1,162.86	1,174.60	81.89	479,697.64	556,864.86
	10,060.00	90.00	91.90	9,263.75	1,258.38	165.80	1,257.84	1,268.72	82.49	479,697.80	556,959.84
	10,155.00	87.70	91.70	9,265.66	1,353.30	162.82	1,352.77	1,362.53	83.14	479,694.82	557,054.77
	10,250.00	89.90	91.70	9,267.65	1,448.22	160.00	1,447.70	1,456.52	83.69	479,692.00	557,149.70
	10,344.00	87.10	90.10	9,270.11	1,542.16	158.52	1,541.64	1,549.77	84.13	479,690.52	557,243.64
	10,439.00	90.70	90.50	9,271.93	1,637.13	158.03	1,636.61	1,644.22	84.48	479,690.03	557,338.61
	10,533.00	90.80	89.90	9,270.70	1,731.11	157.70	1,730.60	1,737.77	84.79	479,689.70	557,432.60



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Tom Walters 12-23S-27E RB
Well: No. 203H
Wellbore: OH
Design: GyroMWD-98.20'-14248', Proj. 14316'

Local Co-ordinate Reference:
TVD Reference: Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))
MD Reference: Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Well No. 203H

Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))

Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))

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)
	10,628.00	90.50	89.70	9,269.63	1,826.11	158.03	1,825.59	1,832.42	85.05	479,690.03	557,527.59
	10,722.00	87.40	88.80	9,271.35	1,920.08	159.26	1,919.56	1,926.15	85.26	479,691.26	557,621.56
	10,817.00	90.10	90.80	9,273.42	2,015.04	159.59	2,014.52	2,020.83	85.47	479,691.59	557,716.52
	10,910.00	91.10	90.20	9,272.45	2,108.03	158.78	2,107.51	2,113.48	85.69	479,690.78	557,809.51
	11,005.00	88.80	92.30	9,272.53	2,202.98	156.71	2,202.48	2,208.04	85.93	479,688.71	557,904.48
	11,099.00	84.60	90.60	9,277.94	2,296.77	154.33	2,296.27	2,301.45	86.15	479,686.33	557,998.27
	11,194.00	84.40	88.50	9,287.05	2,391.32	155.07	2,390.82	2,395.84	86.29	479,687.07	558,092.82
	11,289.00	84.30	87.80	9,296.40	2,485.82	158.12	2,485.31	2,490.33	86.36	479,690.12	558,187.31
	11,384.00	84.80	87.60	9,305.42	2,580.33	161.92	2,579.80	2,584.88	86.41	479,693.92	558,281.80
	11,479.00	91.70	88.70	9,308.32	2,675.18	164.98	2,674.65	2,679.73	86.47	479,696.98	558,376.65
	11,573.00	91.10	91.30	9,306.02	2,769.15	164.98	2,768.61	2,773.53	86.59	479,696.98	558,470.61
	11,667.00	88.40	91.00	9,306.43	2,863.11	163.09	2,862.59	2,867.23	86.74	479,695.09	558,564.59
	11,761.00	89.30	89.60	9,308.32	2,957.08	162.60	2,956.56	2,961.03	86.85	479,694.60	558,658.56
	11,855.00	89.50	88.50	9,309.31	3,051.07	164.16	3,050.54	3,054.96	86.92	479,696.16	558,752.54
	11,949.00	88.60	89.90	9,310.86	3,145.05	165.47	3,144.52	3,148.87	86.99	479,697.47	558,846.52
	12,043.00	88.80	89.50	9,313.00	3,239.02	165.97	3,238.49	3,242.74	87.07	479,697.97	558,940.49
	12,138.00	88.40	88.60	9,315.32	3,333.99	167.54	3,333.45	3,337.66	87.12	479,699.54	559,035.45
	12,232.00	88.10	87.90	9,318.19	3,427.91	170.41	3,427.36	3,431.59	87.15	479,702.41	559,129.36
	12,326.00	89.80	90.40	9,319.91	3,521.87	171.80	3,521.32	3,525.51	87.21	479,703.80	559,223.32
	12,421.00	90.10	90.00	9,319.99	3,616.87	171.47	3,616.32	3,620.39	87.29	479,703.47	559,318.32
	12,515.00	89.60	88.60	9,320.24	3,710.86	172.62	3,710.31	3,714.33	87.34	479,704.62	559,412.31
	12,609.00	87.40	88.30	9,322.70	3,804.80	175.16	3,804.24	3,808.27	87.36	479,707.16	559,506.24
	12,703.00	89.40	90.90	9,325.33	3,898.75	175.82	3,898.19	3,902.15	87.42	479,707.82	559,600.19
	12,798.00	91.70	91.40	9,324.41	3,993.71	173.91	3,993.16	3,996.94	87.51	479,705.91	559,695.16
	12,892.00	89.70	91.40	9,323.26	4,087.66	171.61	4,087.12	4,090.72	87.60	479,703.61	559,789.12
	12,986.00	88.70	91.80	9,324.58	4,181.61	168.99	4,181.07	4,184.48	87.69	479,700.99	559,883.07
	13,080.00	86.00	89.70	9,328.92	4,275.48	167.76	4,274.95	4,278.24	87.75	479,699.76	559,976.95



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Tom Walters 12-23S-27E RB
Well: No. 203H
Wellbore: OH
Design: Gyro/MWD-98.20'-14248', Proj. 14316'

Local Co-ordinates Reference:
TVD Reference: Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))
MD Reference: Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Well No. 203H

Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))

Well @ 3117.50usft (GL: 3089' + KB: 28.5' (Pat809))

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)
13,175.00	85.30	89.10	9,336.13	4,370.20	168.75	4,369.67	4,372.93	87.79	479,700.75	560,071.67
13,270.00	86.10	90.40	9,343.25	4,464.93	169.16	4,464.40	4,467.60	87.83	479,701.16	560,166.40
13,364.00	84.80	89.10	9,350.71	4,558.63	169.57	4,558.10	4,561.25	87.87	479,701.57	560,260.10
13,458.00	88.70	89.40	9,356.04	4,652.46	170.80	4,651.92	4,655.05	87.90	479,702.80	560,353.92
13,552.00	89.20	88.80	9,357.76	4,746.44	172.27	4,745.89	4,749.02	87.92	479,704.27	560,447.89
13,647.00	88.70	88.00	9,359.50	4,841.39	174.93	4,840.84	4,844.00	87.93	479,706.93	560,542.84
13,741.00	90.70	90.20	9,359.99	4,935.37	176.40	4,934.81	4,937.96	87.95	479,708.40	560,636.81
13,836.00	90.30	89.50	9,359.16	5,030.37	176.65	5,029.81	5,032.91	87.99	479,708.65	560,731.81
13,930.00	90.80	89.40	9,358.26	5,124.36	177.55	5,123.80	5,126.87	88.02	479,709.55	560,825.80
14,025.00	90.10	89.40	9,357.52	5,219.35	178.55	5,218.79	5,221.84	88.04	479,710.55	560,920.79
14,118.00	87.30	89.30	9,359.63	5,312.32	179.60	5,311.75	5,314.79	88.06	479,711.60	561,013.75
14,189.00	86.70	89.45	9,363.34	5,383.22	180.38	5,382.65	5,385.67	88.08	479,712.38	561,084.65
HL Xing: 14189' MD										
14,213.00	86.50	89.50	9,364.76	5,407.18	180.60	5,406.61	5,409.62	88.09	479,712.60	561,108.61
14,248.00	86.80	89.50	9,366.81	5,442.12	180.90	5,441.55	5,444.55	88.10	479,712.90	561,143.55
Last Survey: 14248' MD, 9366.81' TVD										
14,316.00	86.80	89.50	9,370.60	5,510.01	181.49	5,509.44	5,512.43	88.11	479,713.49	561,211.44
PTB: 14316' MD, 9370.6' TVD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
483.00	482.93	-3.30	-6.88	Pro MWD First Survey: 483' MD
9,512.00	9,235.25	153.13	712.60	HL Xing: 9512' MD
14,189.00	9,363.34	180.38	5,382.65	HL Xing: 14189' MD
14,248.00	9,366.81	180.90	5,441.55	Last Survey: 14248' MD, 9366.81' TVD
14,316.00	9,370.60	181.49	5,509.44	PTB: 14316' MD, 9370.6' TVD