

ProDIRECTIONAL

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 10 2017

RECEIVED



Tom Matthews 10-24S-28E RB No. 223H

Eddy County, NM

30-015-44257

September 12, 2017

Job No. LNM5147417

ORIGINAL

Survey Completion Report

September 12, 2017



Operator Name: Matador Resources
 Well Name: Tom Matthews 10-24S-28E RB No. 223H
 County/Parish: Eddy County,
 State: NM
 Rig Name: Patterson 274
 Job Number: LNM5147417

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	2,780' MD – 15,292' MD	15,363' MD	08/14/17 – 08/28/17	MWD

Sincerely,



Mike Coats
 Regulatory Specialist
 Professional Directional

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



Matador Resources

Eddy County, NM
Tom Matthews 10-24S-28E RB
No. 223H
OH

Survey: ProDirectional

Survey Report

12 September, 2017





ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Tom Matthews 10-24S-28E RB
Well: No. 223H
Wellbore: OH
Design: MWD-63.42'-15292, Proj. 15363'

Local Co-ordinate Reference: Well No. 223H
TVD Reference: Well @ 3044.50usft
MD Reference: Well @ 3044.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

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

System Datum: Mean Sea Level

Site Tom Matthews 10-24S-28E RB

Site Position: Northing: 447,501.00 usft Latitude: 32.2300130
From: Easting: 618,050.00 usft Longitude: -104.0852431
Position Uncertainty: Map 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: 0.13 °

Well No. 223H

Well Position +N/-S 0.00 usft Northing: 447,501.00 usft Latitude: 32.2300130
+E/-W 0.00 usft Easting: 618,050.00 usft Longitude: -104.0852431
Position Uncertainty 0.00 usft Wellhead Elevation: usft Ground Level: 3,016.00 usft

Wellbore OH

Magnetics Model Name HDGM Sample Date 7/11/2017 Declination (°) 7.30 Dip Angle (°) 60.07 Field Strength (nT) 48,102.80

Design MWD-63.42'-15292, Proj. 15363'

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 89.79



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Survey Program		Date		9/12/2017																	
From		To		Survey (Wellbore)		Tool Name		Description													
MD		Inc		Azi (azimuth)		TVD		V. Sec		NS		E/W		Closure Distance		Closure Azimuth		Northing		Easting	
(usft)		(")		(")		(usft)		(usft)		(usft)		(usft)		(usft)		(")		(usft)		(usft)	
0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		447,501.00		618,050.00	
63.42		0.21		191.28		63.42		-0.02		-0.11		-0.02		0.12		191.28		447,500.89		618,049.98	
158.25		0.15		192.14		158.25		-0.08		-0.41		-0.08		0.41		191.54		447,500.59		618,049.92	
253.08		0.30		65.00		253.08		0.11		-0.42		0.12		0.44		164.63		447,500.58		618,050.12	
347.91		0.42		36.80		347.91		0.55		-0.04		0.55		0.55		94.06		447,500.96		618,050.55	
442.74		0.66		32.76		442.73		1.06		0.70		1.05		1.26		56.44		447,501.70		618,051.05	
537.57		0.76		40.33		537.56		1.76		1.64		1.76		2.40		47.00		447,502.64		618,051.76	
632.40		0.89		45.42		632.38		2.70		2.63		2.69		3.76		45.58		447,503.63		618,052.69	
727.23		0.94		52.16		727.19		3.84		3.63		3.83		5.27		46.52		447,504.63		618,053.83	
822.06		0.98		52.67		822.01		5.10		4.60		5.09		6.85		47.89		447,505.60		618,055.09	
916.89		1.42		46.57		916.82		6.60		5.90		6.58		8.84		48.15		447,506.90		618,056.58	
1,011.72		2.06		28.56		1,011.61		8.28		8.20		8.25		11.63		45.18		447,509.20		618,058.25	
1,106.55		3.45		27.57		1,106.32		10.43		12.23		10.39		16.04		40.35		447,513.23		618,060.39	
1,201.38		4.19		29.41		1,200.94		13.47		17.77		13.41		22.27		37.03		447,518.77		618,063.41	
1,296.21		4.90		39.12		1,295.48		17.75		23.94		17.67		29.75		36.43		447,524.94		618,067.67	
1,391.04		4.70		50.84		1,389.97		23.34		29.53		23.23		37.57		38.19		447,530.53		618,073.23	
1,485.87		4.17		49.65		1,484.52		29.00		34.22		28.87		44.77		40.16		447,535.22		618,078.87	
1,580.70		3.81		37.20		1,579.12		33.55		38.96		33.41		51.32		40.61		447,539.96		618,083.41	
1,675.53		3.46		25.96		1,673.76		36.72		44.04		36.56		57.24		39.70		447,545.04		618,086.56	
1,770.36		3.52		28.27		1,768.42		39.38		49.18		39.20		62.89		38.56		447,550.18		618,089.20	
1,865.19		4.31		44.91		1,863.03		43.29		54.27		43.09		69.29		38.45		447,555.27		618,093.09	



ProDirectional Survey Report



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North Reference: Grid
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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)
	1,960.02	4.54	51.73	1,957.58	48.77	59.11	48.55	76.50	39.40	447,560.11	618,098.55
	2,054.85	3.81	64.42	2,052.16	54.57	62.80	54.34	83.05	40.87	447,563.80	618,104.34
	2,149.68	4.66	51.43	2,146.73	60.44	66.56	60.19	89.74	42.12	447,567.56	618,110.19
	2,244.51	5.89	50.16	2,241.15	67.21	72.08	66.94	98.37	42.88	447,573.08	618,116.94
	2,339.34	6.03	54.03	2,335.47	75.00	78.12	74.71	108.10	43.72	447,579.12	618,124.71
	2,434.17	5.26	50.15	2,429.84	82.39	83.83	82.08	117.32	44.39	447,584.83	618,132.08
	2,529.00	4.32	31.70	2,524.35	87.62	89.66	87.29	125.13	44.23	447,590.66	618,137.29
	2,591.00	4.24	31.82	2,586.17	90.07	93.59	89.73	129.66	43.79	447,594.59	618,139.73
Last Gyro Survey: 2591' MD											
	2,780.00	5.40	32.80	2,774.50	98.62	107.01	98.23	145.26	42.55	447,608.01	618,148.23
Pro MWD First Survey: 2780' MD											
	2,875.00	7.60	31.30	2,868.88	104.34	116.13	103.92	155.84	41.82	447,617.13	618,153.92
	2,970.00	9.30	34.90	2,962.85	112.04	127.80	111.57	169.65	41.12	447,628.80	618,161.57
	3,065.00	10.10	35.70	3,056.49	121.34	140.86	120.82	185.58	40.62	447,641.86	618,170.82
	3,161.00	10.40	36.20	3,150.96	131.42	154.68	130.85	202.61	40.23	447,655.68	618,180.85
	3,256.00	10.10	36.30	3,244.44	141.47	168.32	140.85	219.48	39.92	447,669.32	618,190.85
	3,351.00	10.80	33.10	3,337.87	151.31	182.49	150.64	236.63	39.54	447,683.49	618,200.64
	3,447.00	9.60	30.20	3,432.35	160.30	196.94	159.58	253.48	39.02	447,697.94	618,209.58
	3,542.00	11.30	31.70	3,525.77	169.23	211.71	168.46	270.55	38.51	447,712.71	618,218.46
	3,638.00	11.30	31.40	3,619.91	179.13	227.74	178.30	289.23	38.06	447,728.74	618,228.30
	3,733.00	11.10	31.90	3,713.10	188.87	243.45	187.98	307.58	37.67	447,744.45	618,237.98
	3,828.00	12.00	31.30	3,806.18	198.90	259.65	197.95	326.50	37.32	447,760.65	618,247.95
	3,923.00	12.20	29.40	3,899.07	209.02	276.83	208.00	346.27	36.92	447,777.83	618,258.00
	4,019.00	11.00	28.40	3,993.10	218.41	293.73	217.34	365.39	36.50	447,794.73	618,267.34
	4,114.00	9.70	26.90	4,086.56	226.40	308.84	225.27	382.27	36.11	447,809.84	618,275.27
	4,210.00	11.80	30.00	4,180.87	235.03	324.55	233.84	400.02	35.77	447,825.55	618,283.84
	4,305.00	12.10	30.80	4,273.81	245.04	341.52	243.79	419.61	35.52	447,842.52	618,293.79



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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)
4,400.00	12.40	31.60	4,366.64	255.55	358.76	254.24	439.71	35.32	447,859.76	618,304.24
4,496.00	12.60	32.00	4,460.37	266.57	376.42	265.19	480.45	35.16	447,877.42	618,315.19
4,591.00	12.10	32.00	4,553.17	277.40	393.65	275.95	480.74	35.03	447,894.65	618,325.95
4,686.00	11.20	34.40	4,646.21	287.94	409.70	286.44	499.91	34.96	447,910.70	618,336.44
4,782.00	10.20	35.40	4,740.54	298.19	424.33	296.64	517.73	34.96	447,925.33	618,346.64
4,877.00	9.10	35.00	4,834.20	307.42	437.34	305.82	533.65	34.96	447,938.34	618,355.82
4,972.00	9.80	37.80	4,927.91	316.73	449.88	315.08	549.24	35.01	447,950.88	618,365.08
5,067.00	10.90	37.50	5,021.36	327.20	463.39	325.51	566.29	35.09	447,964.39	618,375.51
5,162.00	11.70	37.20	5,114.52	338.55	478.19	336.80	584.89	35.16	447,979.19	618,386.80
5,258.00	11.00	36.30	5,208.64	349.91	493.33	348.10	603.78	35.21	447,994.33	618,398.10
5,353.00	10.60	36.70	5,301.96	360.55	507.64	358.69	621.58	35.24	448,008.64	618,408.69
5,449.00	8.30	35.30	5,396.65	369.88	520.37	367.97	637.33	35.27	448,021.37	618,417.97
5,544.00	7.50	35.80	5,490.75	377.51	531.00	375.56	650.39	35.27	448,032.00	618,425.56
5,639.00	6.90	36.00	5,585.00	384.52	540.64	382.54	662.30	35.28	448,041.64	618,432.54
5,735.00	6.40	36.80	5,680.35	391.15	549.59	389.14	673.41	35.30	448,050.59	618,439.14
5,830.00	4.90	35.50	5,774.89	396.71	557.14	394.67	682.76	35.31	448,058.14	618,444.67
5,925.00	4.30	33.00	5,869.58	401.03	563.43	398.96	690.38	35.30	448,064.43	618,448.96
6,020.00	2.50	46.00	5,964.41	404.47	567.85	402.39	695.97	35.32	448,068.85	618,452.39
6,115.00	1.90	51.20	6,059.34	407.20	570.28	405.11	699.52	35.39	448,071.28	618,455.11
6,210.00	1.30	55.80	6,154.30	409.32	571.87	407.23	702.05	35.45	448,072.87	618,457.23
6,306.00	1.10	90.20	6,250.28	411.15	572.48	409.05	703.60	35.55	448,073.48	618,459.05
6,400.00	1.50	94.40	6,344.26	413.28	572.38	411.18	704.76	35.69	448,073.38	618,461.18
6,496.00	0.40	200.30	6,440.25	414.41	571.97	412.32	705.09	35.79	448,072.97	618,462.32
6,591.00	0.20	174.70	6,535.24	414.31	571.50	412.22	704.65	35.80	448,072.50	618,462.22
6,686.00	0.50	338.70	6,630.24	414.18	571.72	412.08	704.75	35.78	448,072.72	618,462.08
6,781.00	1.10	338.30	6,725.23	413.69	572.95	411.59	705.47	35.69	448,073.95	618,461.59
6,876.00	2.10	342.00	6,820.20	412.83	575.45	410.72	706.99	35.52	448,076.45	618,460.72



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)
6,971.00	0.70	359.40	6,915.17	412.29	577.69	410.18	708.50	35.38	448,078.69	618,460.18
7,066.00	0.10	301.40	7,010.16	412.22	578.31	410.10	708.96	35.34	448,079.31	618,460.10
7,162.00	0.80	241.70	7,106.16	411.55	578.04	409.44	708.36	35.31	448,079.04	618,459.44
7,256.00	0.90	247.90	7,200.15	410.29	577.45	408.18	707.15	35.25	448,078.45	618,458.18
7,350.00	0.20	104.70	7,294.15	409.76	577.13	407.65	706.58	35.24	448,078.13	618,457.65
7,445.00	0.50	114.60	7,389.14	410.30	576.92	408.19	706.72	35.28	448,077.92	618,458.19
7,539.00	1.00	114.50	7,483.14	411.42	576.41	409.31	706.95	35.38	448,077.41	618,459.31
7,633.00	0.50	41.00	7,577.13	412.43	576.37	410.32	707.51	35.45	448,077.37	618,460.32
7,727.00	0.70	350.20	7,671.12	412.61	577.25	410.49	708.32	35.42	448,078.25	618,460.49
7,822.00	1.00	318.90	7,766.11	411.97	578.45	409.85	708.93	35.32	448,079.45	618,459.85
7,916.00	2.10	334.60	7,860.08	410.70	580.62	408.57	709.97	35.13	448,081.62	618,458.57
8,011.00	1.60	331.80	7,955.03	409.33	583.36	407.20	711.42	34.92	448,084.36	618,457.20
8,106.00	0.60	211.40	8,050.02	408.45	584.11	406.31	711.53	34.82	448,085.11	618,456.31
8,201.00	0.80	204.80	8,145.01	407.91	583.08	405.78	710.38	34.83	448,084.08	618,455.78
8,296.00	1.00	234.30	8,240.00	406.95	581.99	404.82	708.94	34.82	448,082.99	618,454.82
8,391.00	0.70	201.60	8,334.99	406.06	580.97	403.94	707.60	34.81	448,081.97	618,453.94
8,486.00	1.20	253.20	8,429.98	404.89	580.14	402.77	706.25	34.77	448,081.14	618,452.77
8,581.00	1.10	141.30	8,524.97	404.51	579.14	402.39	705.21	34.79	448,080.14	618,452.39
8,676.00	2.20	86.60	8,619.93	406.90	578.54	404.78	706.08	34.98	448,079.54	618,454.78
8,771.00	1.80	81.70	8,714.87	410.20	578.86	408.08	708.24	35.18	448,079.86	618,458.08
8,867.00	1.00	82.90	8,810.84	412.52	579.19	410.40	709.85	35.32	448,080.19	618,460.40
8,962.00	0.50	76.30	8,905.84	413.75	579.39	411.62	710.72	35.39	448,080.39	618,461.62
9,057.00	0.30	102.50	9,000.83	414.39	579.43	412.27	711.13	35.43	448,080.43	618,462.27
9,152.00	0.40	135.90	9,095.83	414.86	579.14	412.74	711.17	35.48	448,080.14	618,462.74
9,247.00	0.60	164.30	9,190.83	415.23	578.42	413.11	710.80	35.53	448,079.42	618,463.11
9,343.00	0.70	180.30	9,286.82	415.36	577.35	413.24	710.00	35.59	448,078.35	618,463.24
9,438.00	0.80	199.70	9,381.81	415.12	576.15	413.02	708.89	35.64	448,077.15	618,463.02



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	9,534.00	0.60	167.60	9,477.81	415.00	575.02	412.90	707.91	35.68	448,076.02	618,462.90
	9,629.00	0.60	199.70	9,572.80	414.94	574.07	412.84	707.10	35.72	448,075.07	618,462.84
	9,723.00	0.60	219.30	9,666.80	414.46	573.23	412.36	706.14	35.73	448,074.23	618,462.36
	9,818.00	1.00	211.50	9,761.79	413.71	572.13	411.61	704.81	35.73	448,073.13	618,461.61
	9,882.00	1.20	212.20	9,825.78	413.05	571.09	410.96	703.59	35.74	448,072.09	618,460.96
	9,923.00	1.00	207.50	9,866.77	412.66	570.41	410.57	702.80	35.75	448,071.41	618,460.57
	9,970.00	4.50	116.70	9,913.72	414.11	569.22	412.03	702.69	35.90	448,070.22	618,462.03
	10,018.00	8.40	111.30	9,961.40	419.05	567.10	416.98	703.90	36.33	448,068.10	618,466.98
	10,113.00	14.10	104.80	10,054.54	436.70	561.62	434.65	710.16	37.74	448,062.62	618,484.65
	10,145.00	14.30	102.20	10,085.57	444.33	559.79	442.28	713.42	38.31	448,060.79	618,492.28
	10,177.00	15.40	101.60	10,116.50	452.34	558.10	450.30	717.11	38.90	448,059.10	618,500.30
	10,209.00	17.90	103.20	10,147.15	461.29	556.12	459.25	721.24	39.55	448,057.12	618,509.25
	10,240.00	21.10	102.20	10,176.37	471.37	553.85	469.35	725.97	40.28	448,054.85	618,519.35
	10,272.00	23.60	100.40	10,205.97	483.30	551.48	481.28	731.95	41.11	448,052.48	618,531.28
	10,304.00	26.30	99.00	10,234.98	496.59	549.21	494.58	739.08	42.00	448,050.21	618,544.58
	10,336.00	30.00	96.20	10,263.19	511.55	547.24	509.55	747.73	42.96	448,048.24	618,559.55
	10,367.00	32.60	96.60	10,289.67	527.54	545.44	525.55	757.43	43.94	448,046.44	618,575.55
	10,399.00	35.70	97.10	10,316.15	545.37	543.29	543.38	768.40	45.00	448,044.29	618,593.38
	10,431.00	39.80	97.00	10,341.45	564.80	540.89	562.82	780.60	46.14	448,041.89	618,612.82
	10,463.00	41.50	97.50	10,365.73	585.47	538.26	583.50	793.85	47.31	448,039.26	618,633.50
	10,494.00	45.50	97.00	10,388.21	606.62	535.57	604.66	807.75	48.47	448,036.57	618,654.66
	10,526.00	50.30	94.90	10,409.66	630.22	533.13	628.27	823.98	49.68	448,034.13	618,678.27
	10,558.00	54.50	95.50	10,429.18	655.45	530.83	653.51	841.94	50.91	448,031.83	618,703.51
	10,595.00	58.90	94.40	10,449.49	686.25	528.16	684.32	864.43	52.34	448,029.16	618,734.32
	10,705.00	66.20	89.60	10,500.18	783.69	524.90	781.77	941.64	56.12	448,025.90	618,831.77
	10,736.00	66.70	89.60	10,512.57	812.11	525.10	810.19	965.47	57.05	448,026.10	618,860.19
	10,768.00	66.90	89.70	10,525.18	841.52	525.28	839.60	990.37	57.97	448,026.28	618,889.60



ProDirectional
Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Tom Matthews 10-24S-28E RB
Well: No. 223H
Wellbore: OH
Design: MWD-63.42'-15292, Proj. 15363'

Local Co-ordinate Reference: Well No. 223H
TVD Reference: Well @ 3044.50usft
MD Reference: Well @ 3044.50usft
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)
10,799.00	67.00	89.60	10,537.31	870.04	525.45	868.12	1,014.76	58.81	448,026.45	618,918.12
10,831.00	73.10	87.20	10,548.23	900.10	526.30	898.17	1,041.01	59.63	448,027.30	618,948.17
10,862.00	80.30	85.60	10,555.36	930.19	528.20	928.26	1,068.02	60.36	448,029.20	618,978.26
10,894.00	84.90	85.10	10,559.48	961.82	530.77	959.88	1,096.86	61.06	448,031.77	619,009.88
10,987.00	87.10	86.80	10,565.96	1,054.38	537.32	1,052.41	1,181.65	62.95	448,038.32	619,102.41
11,082.00	91.30	88.00	10,567.29	1,149.26	541.63	1,147.28	1,268.71	64.73	448,042.63	619,197.28
11,176.00	90.20	85.70	10,566.06	1,243.12	546.79	1,241.13	1,356.24	66.22	448,047.79	619,291.13
11,271.00	88.00	83.20	10,567.55	1,337.69	555.98	1,335.66	1,446.75	67.40	448,056.98	619,385.66
11,365.00	89.80	83.90	10,569.36	1,431.11	566.54	1,429.04	1,537.24	68.37	448,067.54	619,479.04
11,459.00	91.40	87.90	10,568.37	1,524.86	573.26	1,522.77	1,627.10	69.37	448,074.26	619,572.77
11,554.00	90.90	88.30	10,566.47	1,619.80	576.41	1,617.70	1,717.32	70.39	448,077.41	619,667.70
11,648.00	94.40	90.00	10,562.12	1,713.68	577.80	1,711.57	1,806.47	71.35	448,078.80	619,761.57
11,742.00	95.60	91.40	10,553.93	1,807.30	576.66	1,805.20	1,895.07	72.28	448,077.66	619,855.20
11,836.00	94.60	91.20	10,545.57	1,900.90	574.53	1,898.80	1,983.82	73.17	448,075.53	619,948.80
11,930.00	91.90	90.60	10,540.24	1,994.72	573.06	1,992.63	2,073.40	73.96	448,074.06	620,042.63
12,024.00	89.10	90.10	10,539.42	2,088.70	572.49	2,086.62	2,163.73	74.66	448,073.49	620,136.62
12,119.00	85.70	89.30	10,543.73	2,183.59	572.98	2,181.50	2,255.50	75.28	448,073.98	620,231.50
12,215.00	89.80	91.00	10,547.50	2,279.49	572.73	2,277.41	2,348.32	75.88	448,073.73	620,327.41
12,309.00	89.80	90.80	10,547.83	2,373.47	571.25	2,371.39	2,439.23	76.46	448,072.25	620,421.39
12,403.00	89.60	87.70	10,548.32	2,467.45	572.48	2,465.37	2,530.97	76.93	448,073.48	620,515.37
12,498.00	87.10	85.50	10,551.05	2,562.25	578.11	2,560.15	2,624.61	77.28	448,079.11	620,610.15
12,592.00	87.70	84.00	10,555.32	2,655.79	586.70	2,653.66	2,717.74	77.53	448,087.70	620,703.66
12,687.00	87.50	85.50	10,559.30	2,750.34	595.39	2,748.17	2,811.93	77.78	448,096.39	620,798.17
12,781.00	88.80	86.60	10,562.33	2,844.09	601.86	2,841.90	2,904.93	78.04	448,102.86	620,891.90
12,875.00	88.90	89.20	10,564.22	2,938.01	605.30	2,935.81	2,997.56	78.35	448,106.30	620,985.81
12,970.00	86.40	92.20	10,568.12	3,032.90	604.15	3,030.70	3,090.33	78.73	448,105.15	621,080.70
13,064.00	89.50	93.20	10,571.48	3,126.70	599.72	3,124.53	3,181.56	79.13	448,100.72	621,174.53



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Tom Matthews 10-24S-28E RB
Well: No. 223H
Wellbore: OH
Design: MWD-83.42'-15292, Proj. 15363'

Local Co-ordinate Reference: Well No. 223H
TVD Reference: Well @ 3044.50usft
MD Reference: Well @ 3044.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	NS (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
13,158.00	86.50	91.10	10,574.76	3,220.55	596.20	3,218.39	3,273.14	79.51	448,097.20	621,268.39
13,253.00	89.30	91.70	10,578.24	3,315.44	593.88	3,313.29	3,366.09	79.84	448,094.88	621,363.29
13,346.00	88.70	91.00	10,579.86	3,408.39	591.69	3,406.24	3,457.25	80.15	448,092.69	621,456.24
13,440.00	90.70	92.10	10,580.35	3,502.34	589.14	3,500.20	3,549.44	80.45	448,090.14	621,550.20
13,535.00	90.50	92.00	10,579.36	3,597.26	585.74	3,595.14	3,642.54	80.75	448,086.74	621,645.14
13,629.00	88.30	91.60	10,580.34	3,691.19	582.79	3,689.08	3,734.83	81.02	448,083.79	621,739.08
13,723.00	90.10	92.90	10,581.66	3,785.09	579.10	3,782.99	3,827.06	81.30	448,080.10	621,832.99
13,818.00	87.70	92.60	10,583.48	3,879.94	574.55	3,877.86	3,920.19	81.57	448,075.55	621,927.86
13,913.00	89.10	92.70	10,586.13	3,974.78	570.16	3,972.72	4,013.42	81.83	448,071.16	622,022.72
14,007.00	87.90	89.70	10,588.59	4,068.71	568.19	4,066.65	4,106.15	82.05	448,069.19	622,116.65
14,102.00	86.80	90.10	10,592.99	4,163.60	568.35	4,161.55	4,200.18	82.22	448,069.35	622,211.55
14,197.00	89.10	89.90	10,596.38	4,258.54	568.35	4,256.48	4,294.26	82.39	448,069.35	622,306.48
14,291.00	89.30	89.90	10,597.70	4,352.53	568.52	4,350.47	4,387.46	82.55	448,069.52	622,400.47
14,386.00	82.70	90.20	10,604.32	4,447.24	568.44	4,445.19	4,481.38	82.71	448,069.44	622,495.19
14,480.00	81.80	90.20	10,617.00	4,540.38	568.11	4,538.33	4,573.75	82.86	448,069.11	622,588.33
14,575.00	84.30	88.20	10,628.49	4,634.66	569.43	4,632.61	4,667.47	82.99	448,070.43	622,682.61
14,669.00	89.80	87.00	10,633.33	4,728.43	573.36	4,726.36	4,761.01	83.08	448,074.36	622,776.36
14,764.00	90.90	87.60	10,632.75	4,823.34	577.84	4,821.25	4,855.76	83.17	448,078.84	622,871.25
14,858.00	89.80	87.20	10,632.17	4,917.25	582.10	4,915.15	4,949.50	83.25	448,083.10	622,965.15
14,952.00	87.40	87.00	10,634.47	5,011.12	586.86	5,009.00	5,043.26	83.32	448,087.86	623,059.00
15,047.00	86.70	86.60	10,639.36	5,105.86	592.15	5,103.72	5,137.96	83.38	448,093.15	623,153.72
15,141.00	88.20	87.10	10,643.54	5,199.64	597.31	5,197.49	5,231.70	83.44	448,098.31	623,247.49
15,236.00	87.20	86.20	10,647.35	5,294.42	602.86	5,292.24	5,326.47	83.50	448,103.86	623,342.24
15,292.00	87.80	86.40	10,649.79	5,350.26	606.47	5,348.07	5,382.35	83.53	448,107.47	623,398.07
Last Survey: 15292' MD										
15,363.00	87.80	86.40	10,652.52	5,421.08	610.92	5,418.88	5,453.21	83.57	448,111.92	623,468.88
PTB: 15363' MD										



ProDirectional Survey Report



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Design: MWD-63.42'-15292, Proj. 15363'

Local Co-ordinate Reference: Well No. 223H
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MD Reference: Well @ 3044.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates	
		+N/-S (usft)	+E/-W (usft)
2,591.00	2,586.17	93.59	89.73
2,780.00	2,774.50	107.01	98.23
15,292.00	10,649.79	606.47	5,348.07
15,363.00	10,652.52	610.92	5,418.88
		Comment	
		Last Gyro Survey: 2591' MD	
		Pro MWD First Survey: 2780' MD	
		Last Survey: 15292' MD	
		PTB: 15363' MD	