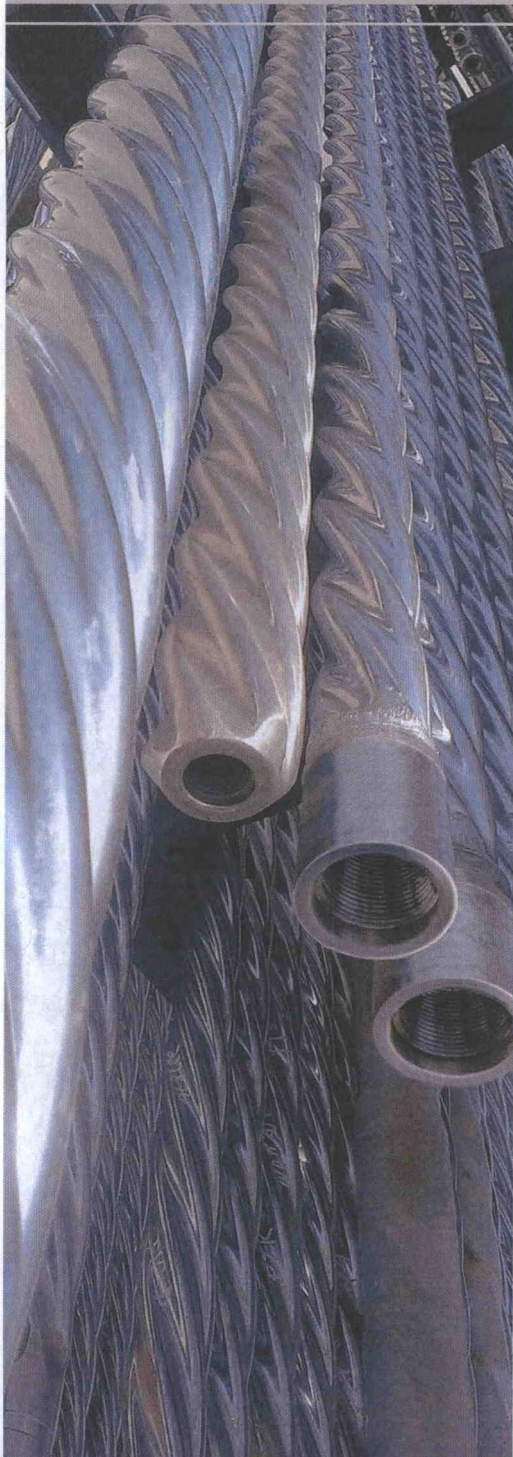




RECEIVED

MAY 03 2018

DISTRICT II-ARTESIA O.C.D.



Tom Matthews 10-24S-28E RB No. 224H

Eddy County, NM

30-015-44516

March 08, 2018

Job No. LNM5163918

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

March 08, 2018



Operator Name: Matador Resources
Well Name: Tom Matthews 10-24S-28E RB No. 224H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5163918

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	139' MD – 15,191' MD	15,257' MD	02/07/18 – 02/22/18	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. 224H

OH

Survey: ProDirectional

Survey Report

08 March, 2018





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 224H
Project:	Eddy County, NM(NAD 83)	TVD Reference:	Well @ 3044.50usft
Site:	Tom Matthews 10-24S-28E RB	MD Reference:	Well @ 3044.50usft
Well:	No. 224H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-139'-15191', Proj. 15257'	Database:	WellPlanner1

Project	Eddy County, NM(NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Tom Matthews 10-24S-28E RB		
Site Position:		Northing:	447,501.00 usft
From:	Map	Easting:	618,050.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.2300130
		Longitude:	-104.0852431
		Grid Convergence:	0.13 °

Well		No. 224H				
Well Position	+N/-S	0.00 usft	Northing:	446,715.00 usft	Latitude:	32.2278488
	+E/-W	0.00 usft	Easting:	618,600.00 usft	Longitude:	-104.0834703
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,016.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/6/2018	7.25	60.02	48,030.70

Design		MWD-139'-15191', Proj. 15257'		
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	89.78

Survey Program		Date 3/8/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
139.00	15,257.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Tom Matthews 10-24S-28E RB
Well: No. 224H
Wellbore: OH
Design: MWD-139'-15191', Proj. 15257'

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well No. 224H
Well @ 3044.50usft
Well @ 3044.50usft
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	446,715.00	618,600.00
139.00	0.30	260.00	139.00	-0.36	-0.06	-0.36	0.36	260.00	446,714.94	618,599.64
Pro MWD First Survey: 139' MD										
234.00	0.20	298.00	234.00	-0.75	-0.03	-0.75	0.75	267.82	446,714.97	618,599.25
325.00	0.60	56.60	325.00	-0.49	0.31	-0.49	0.58	302.07	446,715.31	618,599.51
417.00	0.90	341.60	416.99	-0.31	1.26	-0.32	1.30	345.82	446,716.26	618,599.68
508.00	1.70	339.80	507.97	-1.00	3.20	-1.01	3.36	342.51	446,718.20	618,598.99
532.00	1.70	334.20	531.96	-1.27	3.86	-1.29	4.07	341.55	446,718.86	618,598.71
693.00	2.20	340.40	692.86	-3.33	8.92	-3.36	9.53	339.34	446,723.92	618,596.64
784.00	2.30	339.50	783.79	-4.54	12.28	-4.59	13.11	339.50	446,727.28	618,595.41
875.00	1.90	348.50	874.73	-5.47	15.46	-5.53	16.42	340.33	446,730.46	618,594.47
971.00	4.00	319.70	970.60	-7.94	19.58	-8.01	21.15	337.74	446,734.58	618,591.99
1,066.00	5.20	295.40	1,065.30	-13.95	23.95	-14.05	27.77	329.61	446,738.95	618,585.95
1,162.00	5.10	286.10	1,160.92	-21.97	27.00	-22.07	34.88	320.73	446,742.00	618,577.93
1,256.00	4.80	286.80	1,254.57	-29.74	29.30	-29.85	41.83	314.46	446,744.30	618,570.15
1,351.00	4.40	287.70	1,349.26	-37.01	31.55	-37.13	48.73	310.36	446,746.55	618,562.87
1,446.00	4.00	288.00	1,444.01	-43.62	33.69	-43.75	55.22	307.59	446,748.69	618,556.25
1,541.00	3.40	292.30	1,538.81	-49.37	35.78	-49.51	61.09	305.85	446,750.78	618,550.49
1,637.00	2.80	297.00	1,634.67	-54.09	37.92	-54.23	66.18	304.96	446,752.92	618,545.77
1,732.00	2.20	298.30	1,729.58	-57.75	39.84	-57.91	70.29	304.53	446,754.84	618,542.09
1,828.00	1.30	284.50	1,825.53	-60.43	40.99	-60.58	73.15	304.08	446,755.99	618,539.42
1,924.00	1.90	289.20	1,921.49	-62.98	41.78	-63.14	75.71	303.49	446,756.78	618,536.86
2,019.00	2.20	297.40	2,016.43	-66.08	43.14	-66.25	79.06	303.07	446,758.14	618,533.75
2,114.00	1.40	291.50	2,111.39	-68.78	44.41	-68.95	82.01	302.78	446,759.41	618,531.05
2,209.00	0.30	263.50	2,206.37	-70.10	44.80	-70.27	83.34	302.52	446,759.80	618,529.73
2,305.00	0.80	131.60	2,302.37	-69.85	44.33	-70.02	82.87	302.34	446,759.33	618,529.98
2,400.00	0.30	33.80	2,397.37	-69.22	44.10	-69.39	82.21	302.44	446,759.10	618,530.61



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Tom Matthews 10-24S-28E RB
Well: No. 224H
Wellbore: OH
Design: MWD-139'-15191', Proj. 15257'

Local Co-ordinate Reference: Well No. 224H
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)
2,494.00	2.70	317.90	2,491.33	-70.56	45.94	-70.74	84.35	303.00	446,760.94	618,529.26
2,590.00	2.80	317.00	2,587.22	-73.66	49.34	-73.85	88.81	303.74	446,764.34	618,526.15
2,652.00	2.50	315.80	2,649.15	-75.63	51.41	-75.83	91.61	304.14	446,766.41	618,524.17
2,778.00	2.20	322.60	2,775.05	-79.00	55.30	-79.21	96.61	304.92	446,770.30	618,520.79
2,873.00	5.30	305.90	2,869.84	-83.64	59.33	-83.87	102.73	305.27	446,774.33	618,516.13
2,968.00	5.60	306.80	2,964.41	-90.89	64.68	-91.14	111.76	305.36	446,779.68	618,508.86
3,063.00	5.50	305.70	3,058.96	-98.28	70.11	-98.55	120.94	305.43	446,785.11	618,501.45
3,158.00	5.60	305.30	3,153.52	-105.74	75.44	-106.03	130.13	305.43	446,790.44	618,493.97
3,253.00	5.40	304.30	3,248.08	-113.19	80.64	-113.50	139.23	305.39	446,795.64	618,486.50
3,348.00	5.40	303.90	3,342.66	-120.58	85.65	-120.91	148.17	305.31	446,800.65	618,479.09
3,444.00	2.50	327.80	3,438.42	-125.43	89.95	-125.77	154.63	305.57	446,804.95	618,474.23
3,539.00	2.20	330.10	3,533.34	-127.43	93.28	-127.79	158.21	306.13	446,808.28	618,472.21
3,635.00	2.20	332.50	3,629.27	-129.18	96.51	-129.56	161.55	306.68	446,811.51	618,470.44
3,730.00	0.70	191.50	3,724.25	-130.14	97.56	-130.51	162.95	306.78	446,812.56	618,469.49
3,826.00	0.80	190.70	3,820.24	-130.38	96.33	-130.75	162.41	306.38	446,811.33	618,469.25
3,921.00	0.80	199.40	3,915.24	-130.73	95.05	-131.10	161.93	305.94	446,810.05	618,468.90
4,016.00	0.70	212.60	4,010.23	-131.27	93.94	-131.63	161.71	305.51	446,808.94	618,468.37
4,111.00	0.80	218.30	4,105.22	-132.00	92.93	-132.35	161.72	305.07	446,807.93	618,467.65
4,206.00	0.80	199.30	4,200.21	-132.63	91.78	-132.98	161.58	304.61	446,806.78	618,467.02
4,301.00	0.70	189.80	4,295.20	-132.95	90.58	-133.30	161.17	304.20	446,805.58	618,466.70
4,396.00	0.70	191.90	4,390.20	-133.18	89.44	-133.52	160.71	303.82	446,804.44	618,466.48
4,492.00	0.70	188.50	4,486.19	-133.39	88.29	-133.73	160.24	303.43	446,803.29	618,466.27
4,587.00	0.60	201.80	4,581.18	-133.66	87.25	-134.00	159.90	303.07	446,802.25	618,466.00
4,682.00	1.00	233.10	4,676.17	-134.51	86.29	-134.85	160.09	302.62	446,801.29	618,465.15
4,777.00	2.40	283.70	4,771.13	-137.11	86.27	-137.44	162.27	302.11	446,801.27	618,462.56
4,873.00	2.60	281.90	4,867.04	-141.19	87.19	-141.53	166.23	301.64	446,802.19	618,458.47
4,968.00	2.20	279.40	4,961.96	-145.09	87.93	-145.43	169.95	301.16	446,802.93	618,454.57



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Tom Matthews 10-24S-28E RB
Well: No. 224H
Wellbore: OH
Design: MWD-139'-15191', Proj. 15257'

Local Co-ordinate Reference: Well No. 224H
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)	
5,064.00	0.80	312.70	5,057.92	-147.40	88.69	-147.74	172.32	300.98	446,803.69	618,452.26	
5,159.00	0.90	313.60	5,152.91	-148.43	89.65	-148.77	173.70	301.07	446,804.65	618,451.23	
5,254.00	0.70	145.40	5,247.91	-148.64	89.69	-148.98	173.90	301.05	446,804.69	618,451.02	
5,349.00	0.90	163.80	5,342.90	-148.10	88.50	-148.44	172.82	300.80	446,803.50	618,451.56	
5,445.00	0.80	176.60	5,438.89	-147.86	87.10	-148.19	171.90	300.45	446,802.10	618,451.81	
5,540.00	0.90	186.30	5,533.88	-147.91	85.70	-148.24	171.23	300.03	446,800.70	618,451.76	
5,635.00	1.00	181.00	5,628.87	-148.01	84.13	-148.33	170.53	299.56	446,799.13	618,451.67	
5,731.00	1.20	176.50	5,724.85	-147.97	82.29	-148.29	169.59	299.03	446,797.29	618,451.71	
5,826.00	1.30	178.60	5,819.83	-147.89	80.22	-148.20	168.52	298.43	446,795.22	618,451.80	
5,921.00	1.30	187.80	5,914.80	-148.02	78.07	-148.32	167.61	297.76	446,793.07	618,451.68	
6,016.00	1.50	193.70	6,009.77	-148.47	75.80	-148.76	166.96	297.00	446,790.80	618,451.24	
6,111.00	1.10	43.30	6,104.76	-148.14	75.25	-148.43	166.42	296.88	446,790.25	618,451.57	
6,206.00	0.30	357.90	6,199.76	-147.52	76.17	-147.81	166.28	297.26	446,791.17	618,452.19	
6,302.00	1.40	230.70	6,295.75	-148.44	75.67	-148.73	166.87	296.97	446,790.67	618,451.27	
6,397.00	1.00	218.20	6,390.73	-149.85	74.29	-150.14	167.51	296.33	446,789.29	618,449.86	
6,492.00	1.00	83.80	6,485.72	-149.55	73.72	-149.83	166.99	296.20	446,788.72	618,450.17	
6,588.00	1.30	35.60	6,581.70	-148.07	74.70	-148.36	166.11	296.73	446,789.70	618,451.64	
6,683.00	0.90	18.60	6,676.69	-147.20	76.28	-147.50	166.06	297.35	446,791.28	618,452.50	
6,778.00	2.10	308.40	6,771.66	-148.32	78.07	-148.62	167.88	297.71	446,793.07	618,451.38	
6,874.00	2.50	306.10	6,867.58	-151.38	80.40	-151.69	171.68	297.92	446,795.40	618,448.31	
6,969.00	2.40	315.50	6,962.49	-154.44	83.04	-154.76	175.63	298.22	446,798.04	618,445.24	
7,065.00	0.90	273.00	7,058.45	-156.60	84.51	-156.92	178.23	298.30	446,799.51	618,443.08	
7,160.00	0.40	186.80	7,153.45	-157.38	84.22	-157.71	178.79	298.10	446,799.22	618,442.29	
7,255.00	0.80	161.10	7,248.44	-157.21	83.26	-157.53	178.18	297.86	446,798.26	618,442.47	
7,351.00	1.10	185.20	7,344.43	-157.08	81.71	-157.40	177.35	297.44	446,796.71	618,442.60	
7,446.00	1.40	203.10	7,439.41	-157.63	79.74	-157.94	176.92	296.79	446,794.74	618,442.06	
7,541.00	0.90	85.90	7,534.40	-157.34	78.72	-157.65	176.21	296.54	446,793.72	618,442.35	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Tom Matthews 10-24S-28E RB
Well: No. 224H
Wellbore: OH
Design: MWD-139'-15191', Proj. 15257'

Local Co-ordinate Reference: Well No. 224H
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)	
7,636.00	0.90	49.00	7,629.39	-156.04	79.27	-156.34	175.29	296.89	446,794.27	618,443.66	
7,731.00	1.20	16.60	7,724.37	-155.18	80.71	-155.49	175.19	297.43	446,795.71	618,444.51	
7,826.00	1.20	355.40	7,819.35	-154.97	82.65	-155.29	175.92	298.02	446,797.65	618,444.71	
7,919.00	0.80	25.80	7,912.34	-154.76	84.21	-155.08	176.47	298.50	446,799.21	618,444.92	
8,014.00	0.70	31.70	8,007.33	-154.16	85.30	-154.49	176.48	298.90	446,800.30	618,445.51	
8,109.00	0.80	21.70	8,102.32	-153.61	86.41	-153.94	176.53	299.31	446,801.41	618,446.06	
8,205.00	0.30	5.80	8,198.32	-153.33	87.28	-153.67	176.73	299.60	446,802.28	618,446.33	
8,300.00	0.40	277.50	8,293.32	-153.63	87.57	-153.97	177.13	299.63	446,802.57	618,446.03	
8,395.00	1.00	245.20	8,388.31	-154.72	87.27	-155.05	177.92	299.37	446,802.27	618,444.95	
8,491.00	1.20	297.40	8,484.29	-156.37	87.38	-156.71	179.42	299.14	446,802.38	618,443.29	
8,586.00	1.50	74.70	8,579.28	-156.05	88.17	-156.39	179.53	299.41	446,803.17	618,443.61	
8,681.00	2.20	103.70	8,674.23	-153.08	88.06	-153.42	176.90	299.86	446,803.06	618,446.58	
8,777.00	1.40	85.80	8,770.19	-150.12	87.71	-150.46	174.16	300.24	446,802.71	618,449.54	
8,872.00	0.80	69.60	8,865.17	-148.34	88.03	-148.68	172.78	300.63	446,803.03	618,451.32	
8,968.00	0.90	116.80	8,961.16	-147.04	87.92	-147.38	171.61	300.82	446,802.92	618,452.62	
9,064.00	1.10	139.80	9,057.14	-145.78	86.88	-146.11	169.99	300.74	446,801.88	618,453.89	
9,159.00	1.00	132.60	9,152.13	-144.58	85.62	-144.91	168.32	300.58	446,800.62	618,455.09	
9,254.00	1.00	140.60	9,247.11	-143.45	84.42	-143.78	166.73	300.42	446,799.42	618,456.22	
9,350.00	1.00	153.40	9,343.10	-142.55	83.02	-142.87	165.24	300.16	446,798.02	618,457.13	
9,445.00	1.10	155.10	9,438.08	-141.80	81.45	-142.11	163.80	299.82	446,796.45	618,457.89	
9,541.00	1.20	173.30	9,534.07	-141.30	79.62	-141.61	162.46	299.35	446,794.62	618,458.39	
9,636.00	1.50	204.30	9,629.04	-141.71	77.50	-142.00	161.77	298.62	446,792.50	618,458.00	
9,731.00	1.40	231.70	9,724.01	-143.13	75.65	-143.43	162.15	297.81	446,790.65	618,456.57	
9,829.00	1.10	252.30	9,821.99	-144.97	74.62	-145.26	163.31	297.19	446,789.62	618,454.74	
9,931.00	4.50	82.40	9,923.90	-141.94	74.85	-142.23	160.72	297.76	446,789.85	618,457.77	
9,977.00	10.40	78.20	9,969.49	-136.08	75.94	-136.37	156.09	299.11	446,790.94	618,463.63	
10,026.00	16.80	74.50	10,017.10	-124.90	78.74	-125.20	147.90	302.16	446,793.74	618,474.80	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Tom Matthews 10-24S-28E RB
Well: No. 224H
Wellbore: OH
Design: MWD-139'-15191', Proj. 15257'

Local Co-ordinate Reference: Well No. 224H
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)	
10,073.00	19.00	76.10	10,061.82	-110.91	82.39	-111.23	138.42	306.53	446,797.39	618,488.77	
10,121.00	20.80	80.10	10,106.95	-94.92	85.73	-95.25	128.15	311.99	446,800.73	618,504.75	
10,153.00	23.70	84.70	10,136.57	-82.91	87.31	-83.24	120.63	316.36	446,802.31	618,516.76	
10,185.00	26.70	86.00	10,165.52	-69.32	88.40	-69.66	112.55	321.76	446,803.40	618,530.34	
10,217.00	30.50	87.30	10,193.61	-54.03	89.29	-54.38	104.54	328.66	446,804.29	618,545.62	
10,248.00	34.50	88.30	10,219.75	-37.39	89.92	-37.73	97.51	337.23	446,804.92	618,562.27	
10,280.00	37.30	87.90	10,245.67	-18.64	90.54	-18.98	92.51	348.16	446,805.54	618,581.02	
10,312.00	39.00	88.30	10,270.83	1.12	91.20	0.77	91.20	0.49	446,806.20	618,600.77	
10,357.00	43.50	89.50	10,304.66	30.78	91.75	30.43	96.67	18.35	446,806.75	618,630.43	
10,407.00	48.30	90.20	10,339.44	66.68	91.84	66.32	113.28	35.84	446,806.84	618,666.32	
10,452.00	53.80	89.90	10,367.72	101.66	91.81	101.31	136.72	47.82	446,806.81	618,701.31	
10,503.00	59.70	89.80	10,395.67	144.29	91.92	143.94	170.79	57.44	446,806.92	618,743.94	
10,540.00	63.70	88.60	10,413.21	176.86	92.38	176.51	199.22	62.37	446,807.38	618,776.51	
10,625.00	68.30	88.60	10,447.77	254.47	94.28	254.11	271.04	69.64	446,809.28	618,854.11	
10,657.00	70.40	89.00	10,459.06	284.41	94.91	284.05	299.48	71.52	446,809.91	618,884.05	
10,688.00	70.70	89.40	10,469.38	313.64	95.31	313.28	327.46	73.08	446,810.31	618,913.28	
10,720.00	70.90	88.50	10,479.90	343.86	95.87	343.49	356.62	74.41	446,810.87	618,943.49	
10,751.00	73.40	88.70	10,489.41	373.36	96.59	372.99	385.29	75.48	446,811.59	618,972.99	
10,783.00	74.90	88.60	10,498.15	404.13	97.31	403.76	415.32	76.45	446,812.31	619,003.76	
10,814.00	75.50	87.40	10,506.06	434.09	98.36	433.71	444.73	77.22	446,813.36	619,033.71	
10,878.00	79.70	88.40	10,519.81	496.55	100.65	496.16	506.27	78.53	446,815.65	619,096.16	
10,909.00	82.70	88.80	10,524.55	527.17	101.39	526.79	536.46	79.11	446,816.39	619,126.79	
10,941.00	86.30	89.40	10,527.61	559.02	101.89	558.63	567.85	79.66	446,816.89	619,158.63	
10,972.00	86.80	89.80	10,529.48	589.96	102.11	589.57	598.35	80.17	446,817.11	619,189.57	
11,066.00	88.10	89.40	10,533.66	683.87	102.77	683.48	691.16	81.45	446,817.77	619,283.48	
11,160.00	90.30	90.10	10,534.97	777.85	103.18	777.46	784.28	82.44	446,818.18	619,377.46	
11,255.00	89.10	89.10	10,535.47	872.84	103.84	872.45	878.61	83.21	446,818.84	619,472.45	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Tom Matthews 10-24S-28E RB
Well: No. 224H
Wellbore: OH
Design: MWD-139'-15191', Proj. 15257'

Local Co-ordinate Reference: Well No. 224H
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)	
11,349.00	89.70	88.70	10,536.46	966.83	105.64	966.43	972.19	83.76	446,820.64	619,566.43	
11,444.00	87.40	88.50	10,538.86	1,061.77	107.96	1,061.36	1,066.84	84.19	446,822.96	619,661.36	
11,538.00	87.40	88.60	10,543.12	1,155.65	110.34	1,155.24	1,160.49	84.54	446,825.34	619,755.24	
11,633.00	87.30	88.60	10,547.52	1,250.53	112.66	1,250.11	1,255.17	84.85	446,827.66	619,850.11	
11,727.00	86.70	87.50	10,552.44	1,344.36	115.85	1,343.92	1,348.91	85.07	446,830.85	619,943.92	
11,821.00	89.40	89.80	10,555.63	1,438.27	118.06	1,437.83	1,442.67	85.31	446,833.06	620,037.83	
11,915.00	90.00	90.30	10,556.13	1,532.27	117.98	1,531.82	1,536.36	85.60	446,832.98	620,131.82	
12,009.00	90.50	90.40	10,555.72	1,626.26	117.41	1,625.82	1,630.06	85.87	446,832.41	620,225.82	
12,103.00	87.10	89.70	10,557.68	1,720.22	117.32	1,719.79	1,723.78	86.10	446,832.32	620,319.79	
12,198.00	88.30	89.80	10,561.50	1,815.15	117.74	1,814.71	1,818.52	86.29	446,832.74	620,414.71	
12,292.00	88.00	89.20	10,564.53	1,909.10	118.56	1,908.65	1,912.33	86.45	446,833.56	620,508.65	
12,386.00	87.40	88.60	10,568.30	2,003.01	120.36	2,002.56	2,006.17	86.56	446,835.36	620,602.56	
12,481.00	89.40	92.00	10,570.96	2,097.95	119.86	2,097.50	2,100.93	86.73	446,834.86	620,697.50	
12,576.00	90.30	92.10	10,571.21	2,192.87	116.46	2,192.44	2,195.53	86.96	446,831.46	620,792.44	
12,670.00	90.20	92.30	10,570.80	2,286.79	112.86	2,286.37	2,289.15	87.17	446,827.86	620,886.37	
12,764.00	90.20	92.10	10,570.47	2,380.70	109.25	2,380.30	2,382.81	87.37	446,824.25	620,980.30	
12,859.00	89.10	90.40	10,571.05	2,475.67	107.18	2,475.27	2,477.59	87.52	446,822.18	621,075.27	
12,953.00	89.80	89.80	10,571.95	2,569.66	107.01	2,569.27	2,571.49	87.61	446,822.01	621,169.27	
13,048.00	86.00	89.20	10,575.43	2,664.58	107.84	2,664.18	2,666.36	87.68	446,822.84	621,264.18	
13,142.00	85.80	89.00	10,582.15	2,758.33	109.31	2,757.93	2,760.09	87.73	446,824.31	621,357.93	
13,236.00	86.10	89.10	10,588.79	2,852.09	110.87	2,851.68	2,853.84	87.77	446,825.87	621,451.68	
13,331.00	88.30	89.60	10,593.43	2,946.96	111.94	2,946.56	2,948.68	87.82	446,826.94	621,546.56	
13,425.00	87.40	87.70	10,596.96	3,040.87	114.15	3,040.46	3,042.60	87.85	446,829.15	621,640.46	
13,520.00	88.60	89.00	10,600.27	3,135.78	116.89	3,135.36	3,137.54	87.86	446,831.89	621,735.36	
13,614.00	88.30	88.20	10,602.82	3,229.73	119.18	3,229.29	3,231.49	87.89	446,834.18	621,829.29	
13,708.00	88.10	89.00	10,605.77	3,323.66	121.48	3,323.22	3,325.44	87.91	446,836.48	621,923.22	
13,803.00	88.30	87.30	10,608.75	3,418.57	124.54	3,418.12	3,420.39	87.91	446,839.54	622,018.12	



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Local Co-ordinate Reference: Well No. 224H
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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)
13,896.00	87.40	86.00	10,612.24	3,511.36	129.97	3,510.89	3,513.30	87.88	446,844.97	622,110.89
13,990.00	86.30	86.10	10,617.41	3,605.02	136.44	3,604.52	3,607.11	87.83	446,851.44	622,204.52
14,085.00	87.60	86.90	10,622.46	3,699.73	142.23	3,699.21	3,701.94	87.80	446,857.23	622,299.21
14,179.00	91.90	90.50	10,622.87	3,793.67	144.36	3,793.15	3,795.89	87.82	446,859.36	622,393.15
14,272.00	93.00	92.20	10,618.90	3,886.55	142.17	3,886.03	3,888.63	87.90	446,857.17	622,486.03
14,366.00	90.40	93.60	10,616.11	3,980.36	137.42	3,979.86	3,982.23	88.02	446,852.42	622,579.86
14,461.00	85.00	89.60	10,619.92	4,075.18	134.76	4,074.69	4,076.92	88.11	446,849.76	622,674.69
14,554.00	85.10	89.50	10,627.95	4,167.83	135.49	4,167.34	4,169.54	88.14	446,850.49	622,767.34
14,648.00	88.80	90.10	10,632.95	4,261.68	135.82	4,261.19	4,263.36	88.17	446,850.82	622,861.19
14,742.00	86.70	87.90	10,636.64	4,355.59	137.46	4,355.09	4,357.26	88.19	446,852.46	622,955.09
14,836.00	88.70	87.00	10,640.41	4,449.43	141.64	4,448.92	4,451.17	88.18	446,856.64	623,048.92
14,930.00	87.30	84.30	10,643.69	4,543.12	148.76	4,542.58	4,545.02	88.12	446,863.76	623,142.58
15,024.00	91.10	86.00	10,645.00	4,636.78	156.70	4,636.21	4,638.86	88.06	446,871.70	623,236.21
15,119.00	90.90	86.70	10,643.34	4,731.60	162.75	4,731.01	4,733.81	88.03	446,877.75	623,331.01
15,191.00	90.50	86.40	10,642.46	4,803.48	167.08	4,802.87	4,805.78	88.01	446,882.08	623,402.87
Last Survey: 15191' MD										
15,257.00	90.50	86.40	10,641.89	4,869.36	171.23	4,868.74	4,871.75	87.99	446,886.23	623,468.74
PTB: 15257' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
139.00	139.00	-0.06	-0.36	Pro MWD First Survey: 139' MD
15,191.00	10,642.46	167.08	4,802.87	Last Survey: 15191' MD
15,257.00	10,641.89	171.23	4,868.74	PTB: 15257' MD