



15-43505

I Eric Warner certify that I am employed by VES Survey International. That I did on the day(s) of 03/05/16 through 03/05/16 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 538.24 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Matador for the Tiger 14-24S-28E RB No Well # 227H API # 30-015-43505 in Eddy County / Parish New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Vaughn Energy Services

A handwritten signature in cursive script, appearing to read "Eric Warner", is written over a horizontal line.

Eric Warner
Service Technician
Vaughn Energy Services

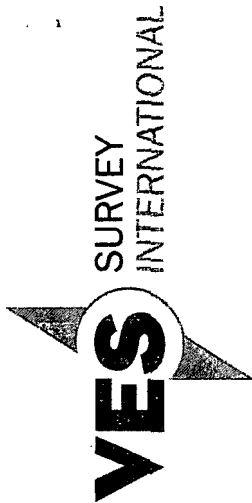


NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 27 2016
RECEIVED

Company: Matador Production Company
Lease/Well: Tiger 14-24S-28E RB No/227H

Rig Name: Patterson 809
State/County: New Mexico/Eddy
VS-Azi: 0.00 Degrees

Latitude: 32.21460, Longitude: -104.04990
Grid North = True North -0.15 degs (NAD 27)
Grid Correction Applied = -0.15 degs



Depth Reference : RKB= 28.5 Feet

DRILLOG MS GYRO SURVEY CALCULATIONS
Filename: tiger 14-24s-28e rb #227h.ut
Minimum Curvature Method
Report Date/Time: 3/1/2016 / 09:29

VES Survey International
West Texas
432-563-5444

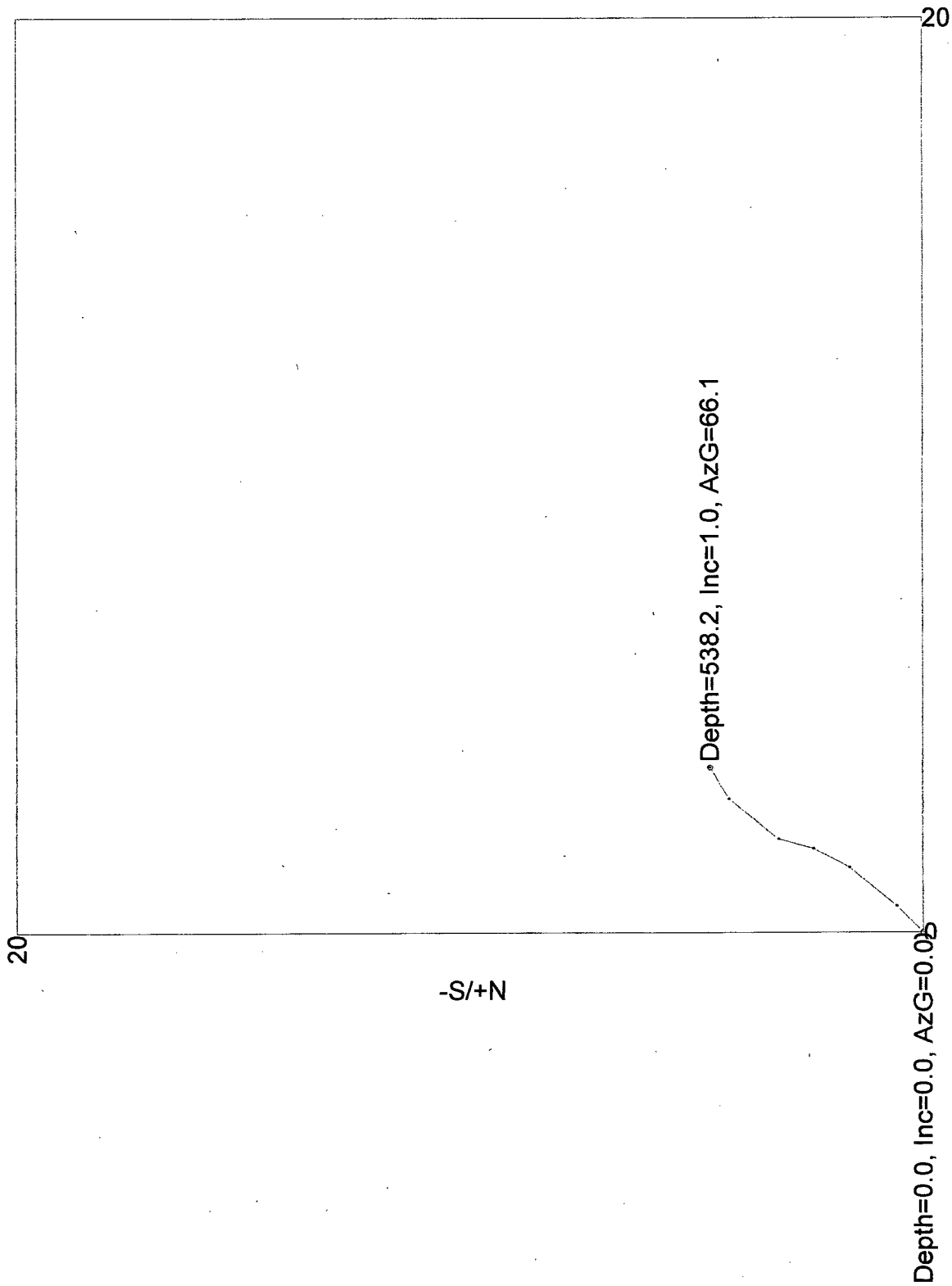
Surveyor: Eric Warner

Tiger 14-24S-28E RB No 227H / API 30-015-43505

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
115.12	0.83	44.86	115.12	0.59	0.59	0.59	0.83	44.86	0.72
209.90	0.81	33.30	209.89	1.63	1.44	1.63	2.17	41.33	0.17
304.68	0.32	11.66	304.66	2.45	1.85	2.45	3.07	37.16	0.56
399.46	0.67	16.10	399.44	3.23	2.06	3.23	3.83	32.51	0.37
494.24	1.13	52.59	494.21	4.33	2.95	4.33	5.24	34.31	0.75
538.24	1.02	66.06	538.20	4.75	3.66	4.75	5.99	37.57	0.63



VES Survey International
West Texas
432-563-5444
Surveyor: Eric Warner
Tiger 14-24S-28E RB No 227H / API 30-015-43505



-W/+E
V.E.S. Survey Date: 3/4/2016



ProDIRECTIONAL

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 27 2016

RECEIVED



Tiger 14-24S-28E RB No. 227H(OH)

Eddy County, NM

April 19, 2016

Job No. LMN5122416

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

April 19, 2016



Operator Name: Matador Resources
Well Name: Tiger 14-24S-28E RB No. 227H(OH)
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5122416

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	699' MD – 13,165' MD	13,246' MD	03/17/16 – 03/30/16	MWD-OWSG

Sincerely,

Mike Coats

Mike Coats
Well Planning
Professional Directional

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

prodirectional.com



Matador Resources

Eddy County, NM

Tiger 14-24S-28E RB

No. 227H

OH

Survey: ProDirectional

Survey Report

19 April, 2016





ProDirectional Survey Report



Company: Matador Resources	Local Co-ordinate Reference:	Well No. 227H
Project: Eddy County, NM	TVD Reference:	Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Patt809))
Site: Tiger 14-24S-28E RB	MD Reference:	Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Patt809))
Well: No. 227H	North Reference:	Grid
Wellbore: OH	Survey Calculation Method:	Minimum Curvature
Design: Gyros/MWD-115.12-13165', Proj. 13246'	Database:	Well_Planner1

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	Tiger 14-24S-28E RB
Site Position:	
From:	Map
Position Uncertainty:	3.30 usft
Northing:	440,880.00 usft
Easting:	587,752.00 usft
Slot Radius:	13-3/16 "
Latitude:	32° 12' 42.40 N
Longitude:	104° 2' 58.57 W
Grid Convergence:	0.15 °

Well	No. 227H
Well Position	+N/-S 0.00 usft
+E/-W	0.00 usft
Position Uncertainty	1.10 usft
Wellhead Elevation:	0.00 usft
Northing:	441,826.40 usft
Easting:	587,800.83 usft
Latitude:	32° 12' 51.76 N
Longitude:	104° 2' 57.98 W
Ground Level:	2,975.00 usft

Wellbore	OH
Magnetics	
Model Name	HDGM
Sample Date	3/9/2016
Declination	7.37
Dip Angle	60.07
Field Strength	48.247

Design	Gyros/MWD-115.12-13165', Proj. 13246'
Audit Notes:	
Version:	1.0
Phase:	ACTUAL
Tie On Depth:	0.00
Depth, From (TVD)	
(usft)	0.00
+N/-S	0.00
(usft)	0.00
+E/-W	0.00
(usft)	0.00
Direction	270.55
(°)	



ProDirectional
Survey Report



Company:

Matador Resources

Eddy County, NM

Site: Tiger 14-24S-28E RB

Well: No. 227H

Wellbore: OH

Design: Gyros/MWD-115.12-13165', Proj. 13246'

Local Co-ordinate Reference:

TVD Reference: Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Patt809))

MD Reference: Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Patt809))

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: Well_Planner1

Well No. 227H

Survey Program

Date 4/19/2016

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
115.12	538.24	Gyros 115.12'-538.24' (OH)	GYD_DP_MS	Gyrodata gyro-compassing and drop
538.24	13,246.00	MWD (538.24') (OH)	MWD - OWSG	MWD - OWSG

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	EW (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	441,826.40	587,800.83
115.12	0.83	44.86	115.12	-0.58	0.59	0.59	0.83	44.86	441,826.99	587,801.42
209.90	0.81	33.30	209.89	-1.42	1.64	1.44	2.18	41.33	441,828.04	587,802.27
304.68	0.32	11.66	304.66	-1.84	2.46	1.86	3.08	37.15	441,828.86	587,802.69
399.46	0.67	16.10	399.44	-2.04	3.25	2.07	3.85	32.49	441,829.65	587,802.90
494.24	1.13	52.59	494.21	-2.92	4.35	2.96	5.26	34.28	441,830.75	587,803.79
538.24	1.02	66.06	538.20	-3.62	4.77	3.67	6.02	37.55	441,831.17	587,804.50
699.00	0.80	82.80	698.94	-6.04	5.49	6.09	8.20	47.95	441,831.89	587,806.92
Pro MWD First Survey: 699' MD										
793.00	0.50	88.20	792.93	-7.10	5.59	7.15	9.07	51.99	441,831.99	587,807.98
886.00	0.30	101.30	885.93	-7.74	5.55	7.79	9.57	54.53	441,831.95	587,808.62
980.00	2.80	155.80	979.89	-8.94	3.41	8.98	9.60	69.20	441,829.81	587,809.81
1,073.00	5.40	156.30	1,072.64	-11.69	-2.67	11.67	11.97	102.89	441,823.73	587,812.50
1,167.00	6.80	152.50	1,166.11	-16.13	-11.66	16.01	19.81	126.05	441,814.74	587,816.84
1,260.00	6.50	150.90	1,258.48	-21.32	-21.14	21.12	29.88	135.03	441,805.26	587,821.95
1,354.00	5.80	153.20	1,351.94	-26.13	-30.03	25.85	39.62	139.28	441,796.37	587,826.68
1,448.00	5.20	152.40	1,445.51	-30.33	-38.04	29.96	48.42	141.78	441,788.36	587,830.79
1,541.00	6.10	146.80	1,538.06	-35.06	-45.91	34.62	57.50	142.98	441,780.49	587,835.45
1,634.00	7.60	153.00	1,630.39	-40.65	-55.53	40.12	68.50	144.15	441,770.87	587,840.95
1,728.00	8.20	157.10	1,723.50	-46.19	-67.24	45.55	81.22	145.89	441,759.16	587,846.38
1,822.00	7.60	155.20	1,816.61	-51.52	-79.06	50.76	93.95	147.30	441,747.34	587,851.59



ProDirectional Survey Report

**Company:**

Matador Resources

Project:

Eddy County, NM

Site:

Tiger 14-24S-28E RB

Well:

No. 227H

Wellbore:

OH

Design:

Gyros/MWD-115.12-13165', Proj. 13246'

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well No. 227H

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Patt809))

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Patt809))

Grid

Minimum Curvature

Well_Planner1

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)
1,915.00	7.30	155.80	1,908.82	-56.63	-90.03	55.77	105.90	148.23	441,736.37	587,856.60
2,008.00	7.30	151.70	2,001.07	-61.95	-100.62	60.99	117.66	148.78	441,725.78	587,861.82
2,102.00	7.40	152.80	2,094.30	-67.65	-111.27	66.59	129.67	149.10	441,715.13	587,867.42
2,196.00	6.50	160.90	2,187.61	-72.26	-121.68	71.10	140.93	149.70	441,704.72	587,871.93
2,290.00	6.80	160.50	2,280.98	-75.96	-131.95	74.69	151.63	150.49	441,694.45	587,875.52
2,384.00	7.30	155.80	2,374.27	-80.37	-142.64	79.00	163.06	151.02	441,683.76	587,879.83
2,477.00	6.00	158.60	2,466.64	-84.66	-152.56	83.20	173.77	151.39	441,673.84	587,884.03
2,571.00	5.10	158.70	2,560.20	-88.05	-161.03	86.51	182.79	151.75	441,665.37	587,887.34
2,664.00	5.10	156.90	2,652.83	-91.24	-168.68	89.63	191.01	152.02	441,657.72	587,890.46
2,707.00	5.60	159.70	2,695.64	-92.76	-172.41	91.11	195.00	152.15	441,653.99	587,891.94
2,849.00	5.10	161.10	2,837.02	-97.33	-184.88	95.56	208.11	152.67	441,641.52	587,896.39
2,943.00	4.90	158.80	2,930.66	-100.20	-192.57	98.36	216.24	152.94	441,633.83	587,899.19
3,036.00	7.20	164.10	3,023.14	-103.33	-201.88	101.39	225.91	153.33	441,624.52	587,902.22
3,130.00	8.00	164.60	3,116.31	-106.79	-213.85	104.74	238.13	153.90	441,612.55	587,905.57
3,224.00	7.70	161.50	3,209.43	-110.65	-226.13	108.48	250.80	154.37	441,600.27	587,909.31
3,318.00	7.60	159.10	3,302.60	-114.97	-237.91	112.70	263.25	154.65	441,588.49	587,913.53
3,411.00	7.10	159.10	3,394.83	-119.32	-249.02	116.94	275.11	154.85	441,577.38	587,917.77
3,505.00	6.70	173.40	3,488.16	-122.13	-259.90	119.64	286.12	155.28	441,566.50	587,920.47
3,599.00	6.40	172.90	3,581.55	-123.51	-270.55	120.92	296.34	155.92	441,555.85	587,921.75
3,693.00	6.10	173.10	3,674.99	-124.86	-280.70	122.17	306.14	156.48	441,545.70	587,923.00
3,786.00	5.80	174.10	3,767.49	-126.03	-290.28	123.24	315.36	157.00	441,536.12	587,924.07
3,880.00	5.70	174.90	3,861.01	-127.02	-299.66	124.15	324.36	157.50	441,526.74	587,924.98
3,974.00	6.00	166.90	3,954.52	-128.64	-309.09	125.68	333.66	157.87	441,517.31	587,926.51
4,067.00	6.00	161.30	4,047.02	-131.39	-318.43	128.34	343.32	158.05	441,507.97	587,929.17
4,161.00	5.70	163.30	4,140.53	-134.39	-327.55	131.25	352.87	158.16	441,498.85	587,932.08
4,254.00	5.30	161.60	4,233.10	-137.16	-336.05	133.94	361.76	158.27	441,490.35	587,934.77
4,348.00	4.90	164.50	4,326.73	-139.68	-344.04	136.38	370.09	158.38	441,482.36	587,937.21



ProDirectional Survey Report

**Company:**

Matador Resources

Project:

Eddy County, NM

Tiger 14-24S-28E RB

Well:

No. 227H

OH

Wellbore:

Gyros/MWD-115.12-13165', Proj. 13246'

Design:**Local Co-ordinate Reference:**

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Patt809))

MD Reference:

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Patt809))

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

Well_Planner1

Well No. 227H

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
4,441.00	4.70	162.50	4,419.40	-141.95	-351.50	138.59	377.84	158.48	441,474.90	587,939.42
4,535.00	4.50	164.90	4,513.10	-144.14	-358.74	140.70	385.34	158.58	441,467.66	587,941.53
4,628.00	5.10	153.10	4,605.77	-147.03	-365.94	143.53	393.08	158.58	441,460.46	587,944.36
4,722.00	5.40	149.80	4,699.38	-151.22	-373.49	147.64	401.62	158.43	441,452.91	587,948.47
4,815.00	5.10	149.60	4,791.99	-155.58	-380.84	151.93	410.03	158.25	441,445.56	587,952.76
4,909.00	4.00	145.80	4,885.69	-159.60	-387.16	155.89	417.36	158.07	441,439.24	587,956.72
5,003.00	3.00	138.80	4,979.51	-163.11	-391.72	159.35	422.89	157.86	441,434.68	587,960.18
5,096.00	2.80	141.60	5,072.40	-166.16	-395.33	162.37	427.37	157.67	441,431.07	587,963.20
5,189.00	2.50	140.80	5,165.30	-168.88	-398.68	165.06	431.50	157.51	441,427.72	587,965.89
5,283.00	2.50	137.60	5,259.21	-171.59	-401.78	167.74	435.39	157.34	441,424.62	587,968.57
5,376.00	1.90	154.80	5,352.14	-173.64	-404.68	169.76	438.84	157.24	441,421.72	587,970.59
5,469.00	1.90	154.80	5,445.09	-174.98	-407.47	171.08	441.92	157.22	441,418.93	587,971.91
5,563.00	2.00	160.20	5,539.03	-176.23	-410.42	172.30	445.12	157.23	441,415.98	587,973.13
5,656.00	1.20	189.90	5,632.00	-176.63	-412.91	172.68	447.56	157.31	441,413.49	587,973.51
5,749.00	1.10	197.80	5,724.98	-176.21	-414.72	172.24	449.06	157.45	441,411.68	587,973.07
5,842.00	1.30	191.80	5,817.96	-175.74	-416.60	171.75	450.61	157.60	441,409.80	587,972.58
5,936.00	1.40	195.50	5,911.93	-175.24	-418.75	171.22	452.40	157.76	441,407.65	587,972.05
6,030.00	1.40	199.20	6,005.90	-174.57	-420.94	170.54	454.17	157.95	441,405.46	587,971.37
6,123.00	1.40	206.90	6,098.88	-173.70	-423.03	169.65	455.78	158.15	441,403.37	587,970.48
6,217.00	1.50	203.90	6,192.85	-172.71	-425.18	168.63	457.40	158.37	441,401.22	587,969.46
6,311.00	1.50	201.70	6,286.81	-171.78	-427.44	167.68	459.16	158.58	441,398.96	587,968.51
6,404.00	1.00	223.50	6,379.79	-170.78	-429.16	166.67	460.39	158.78	441,397.24	587,967.50
6,498.00	1.00	249.00	6,473.78	-169.46	-430.05	165.34	460.74	158.97	441,396.35	587,966.17
6,591.00	1.40	266.70	6,566.76	-167.57	-430.41	163.45	460.40	159.21	441,395.99	587,964.28
6,685.00	0.60	267.00	6,660.74	-165.94	-430.50	161.81	459.91	159.40	441,395.90	587,962.64
6,779.00	1.50	272.70	6,754.73	-164.22	-430.47	160.09	459.27	159.60	441,395.93	587,960.92
6,872.00	1.80	263.70	6,847.69	-161.55	-430.57	157.42	458.45	159.92	441,395.83	587,958.25



ProDirectional Survey Report

**Company:**

Matador Resources

Project:

Eddy County, NM

Site:

Tiger 14-24S-28E RB

Well:

No. 227H

OH

Wellbore:

Gyros/MWD-115.12-13165', Proj. 13246'

Design:**Local Co-ordinate Reference:**

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well No. 227H

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))

Grid

Minimum Curvature

Well_Planner1

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)
6,966.00	0.70	6.30	6,941.67	-160.14	-430.16	156.02	457.58	160.06	441,396.24	587,956.85
7,059.00	1.10	12.40	7,034.66	-160.38	-428.73	156.27	456.32	159.97	441,397.67	587,957.10
7,153.00	1.20	328.40	7,128.64	-160.04	-427.01	155.95	454.59	159.94	441,399.39	587,956.78
7,246.00	1.80	329.90	7,221.61	-158.78	-424.91	154.71	452.20	159.99	441,401.49	587,955.54
7,340.00	1.70	324.90	7,315.57	-157.21	-422.49	153.17	449.40	160.07	441,403.91	587,954.00
7,433.00	1.40	42.60	7,408.54	-157.17	-420.53	153.14	447.55	159.99	441,405.87	587,953.97
7,527.00	0.80	62.30	7,502.52	-158.52	-419.38	154.50	446.93	159.78	441,407.02	587,955.33
7,620.00	0.50	75.90	7,595.52	-159.48	-418.98	155.47	446.89	159.64	441,407.42	587,956.30
7,714.00	1.30	34.20	7,689.51	-160.47	-418.00	156.47	446.32	159.48	441,408.40	587,957.30
7,808.00	1.90	48.70	7,783.47	-162.22	-416.09	158.24	445.16	159.18	441,410.31	587,959.07
7,901.00	2.20	49.90	7,876.41	-164.72	-413.92	160.76	444.04	158.77	441,412.48	587,961.59
7,995.00	1.50	50.00	7,970.36	-167.03	-411.97	163.08	443.07	158.40	441,414.43	587,963.91
8,089.00	2.20	55.70	8,064.31	-169.44	-410.16	165.51	442.29	158.02	441,416.24	587,966.34
8,182.00	1.60	55.40	8,157.26	-171.97	-408.42	168.06	441.64	157.63	441,417.98	587,968.89
8,276.00	1.50	59.20	8,251.22	-174.09	-407.04	170.20	441.19	157.31	441,419.36	587,971.03
8,370.00	0.50	254.30	8,345.22	-174.75	-406.52	170.86	440.97	157.20	441,419.88	587,971.69
8,463.00	1.20	229.30	8,438.21	-173.63	-407.27	169.73	441.22	157.38	441,419.13	587,970.56
8,557.00	0.90	224.30	8,532.19	-172.38	-408.44	168.47	441.82	157.59	441,417.96	587,969.30
8,650.00	1.20	187.80	8,625.18	-171.75	-409.92	167.82	442.95	157.74	441,416.48	587,968.65
8,744.00	2.40	167.70	8,719.13	-172.06	-412.82	168.11	445.74	157.84	441,413.58	587,968.94
8,838.00	3.00	167.80	8,813.02	-173.05	-417.15	169.05	450.10	157.94	441,409.25	587,969.88
8,931.00	2.40	168.90	8,905.92	-173.98	-421.44	169.94	454.41	158.04	441,404.96	587,970.77
9,025.00	1.00	196.80	8,999.88	-174.14	-424.16	170.08	456.98	158.15	441,402.24	587,970.91
9,118.00	1.00	207.70	9,092.86	-173.55	-425.65	169.47	458.15	158.29	441,400.75	587,970.30
9,212.00	1.00	200.00	9,186.85	-172.90	-427.15	168.81	459.29	158.44	441,399.25	587,969.64
9,306.00	0.90	207.30	9,280.84	-172.29	-428.57	168.19	460.39	158.57	441,397.83	587,969.02
9,399.00	1.00	204.10	9,373.82	-171.64	-429.96	167.52	461.45	158.71	441,396.44	587,968.35



ProDirectional Survey Report

**Company:**

Matador Resources

Project:

Eddy County, NM

Site:

Tiger 14-24S-28E RB

Well:

No. 227H

Wellbore:

OH

Design:

Gyros/MWD-115.12-13165', Proj. 13246'

Local Co-ordinate Reference:

Well No. 227H

TVD Reference:

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))

MD Reference:

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

Database:

Well_Planner1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
9,493.00	1.10	190.90	9,467.81	-171.15	-431.60	167.02	462.79	158.85	441,394.80	587,987.85
9,587.00	1.20	203.50	9,561.79	-170.60	-433.39	166.45	464.25	158.99	441,393.01	587,967.28
9,680.00	1.40	201.70	9,654.76	-169.81	-435.34	165.64	465.78	159.17	441,391.06	587,966.47
9,774.00	1.20	198.70	9,748.74	-169.09	-437.34	164.90	467.39	159.34	441,389.06	587,965.73
9,868.00	1.10	211.50	9,842.72	-168.32	-439.04	164.12	468.71	159.50	441,387.36	587,964.95
9,961.00	1.00	203.30	9,935.71	-167.55	-440.54	163.33	469.85	159.66	441,385.86	587,964.16
9,985.00	1.00	207.80	9,959.70	-167.37	-440.92	163.15	470.14	159.69	441,385.48	587,963.98
10,016.00	1.90	249.60	9,990.69	-166.77	-441.34	162.54	470.32	159.78	441,385.06	587,963.37
10,047.00	5.20	266.40	10,021.63	-164.89	-441.61	160.66	469.92	160.01	441,384.79	587,961.49
10,078.00	9.20	268.30	10,052.38	-161.01	-441.77	156.78	468.76	160.46	441,384.63	587,957.61
10,126.00	14.10	270.90	10,099.38	-151.32	-441.79	147.09	465.63	161.59	441,384.61	587,947.92
10,172.00	16.20	272.80	10,143.78	-139.31	-441.39	135.08	461.60	162.98	441,385.01	587,935.91
10,219.00	17.90	270.60	10,188.71	-125.53	-440.99	121.30	457.37	164.62	441,385.41	587,922.13
10,265.00	21.40	271.40	10,232.02	-110.07	-440.71	105.84	453.25	166.50	441,385.69	587,906.67
10,312.00	25.40	270.80	10,275.15	-91.40	-440.36	87.18	448.91	168.80	441,386.04	587,888.01
10,359.00	29.80	272.50	10,316.79	-69.64	-439.71	66.42	444.55	171.54	441,386.69	587,866.25
10,406.00	31.70	274.50	10,357.18	-45.65	-438.24	41.44	440.19	174.60	441,388.16	587,842.27
10,452.00	34.90	276.00	10,395.62	-20.48	-435.91	16.30	436.22	177.86	441,390.49	587,817.13
10,499.00	39.20	275.60	10,433.13	7.71	-433.05	-11.87	433.22	181.57	441,393.35	587,788.96
10,546.00	43.90	273.20	10,468.29	38.80	-430.69	-42.94	432.83	185.69	441,395.71	587,757.89
10,593.00	49.30	272.10	10,500.58	72.91	-429.13	-77.04	435.99	190.18	441,397.27	587,723.79
10,639.00	53.60	271.20	10,529.24	108.87	-428.10	-112.99	442.76	194.78	441,398.30	587,687.84
10,686.00	57.60	270.10	10,555.78	147.65	-427.67	-151.76	453.80	199.54	441,398.73	587,649.07
10,733.00	61.90	269.20	10,579.46	188.23	-427.93	-192.35	469.17	204.20	441,398.47	587,608.48
10,780.00	66.90	270.70	10,599.76	230.60	-427.95	-234.72	488.09	208.74	441,398.45	587,566.11
10,827.00	70.20	271.10	10,616.94	274.34	-427.26	-278.45	509.99	213.09	441,399.14	587,522.38
10,932.00	75.60	270.30	10,647.81	374.66	-426.05	-378.76	570.07	221.64	441,400.35	587,422.07



ProDirectional Survey Report



Company: Matador Resources		Local Co-ordinate Reference:									
Project: Eddy County, NM		TVD Reference:									
Site: Tiger 14-24S-28E RB		MD Reference:									
Well: No. 227H		North Reference:									
Wellbore: OH		Survey Calculation Method:									
Design: Gyros/MWD-115.12-13165', Proj. 13246'		Database:									
Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
10,996.00	84.70	270.00	10,658.74	437.65	-425.89	-441.75	613.62	226.05	441,400.51	587,359.08	
11,090.00	93.40	266.90	10,660.30	531.47	-428.43	-535.61	685.87	231.34	441,397.97	587,265.22	
11,183.00	92.30	268.70	10,655.68	624.24	-431.99	-628.42	762.58	235.49	441,394.41	587,172.41	
11,278.00	91.00	273.40	10,652.94	719.17	-430.25	-723.33	841.62	239.25	441,396.15	587,077.50	
11,373.00	89.90	274.80	10,652.19	813.98	-423.46	-818.08	921.18	242.63	441,402.94	586,982.75	
11,467.00	90.90	276.60	10,651.54	907.59	-414.13	-911.61	1,001.27	245.57	441,412.27	586,889.22	
11,561.00	87.80	275.80	10,652.60	1,001.12	-403.98	-1,005.04	1,083.19	248.10	441,422.42	586,795.79	
11,655.00	88.00	273.40	10,656.05	1,094.81	-396.44	-1,098.67	1,168.01	250.16	441,429.96	586,702.16	
11,750.00	87.80	270.80	10,659.53	1,189.71	-392.96	-1,193.53	1,256.56	251.78	441,433.44	586,607.30	
11,845.00	90.60	270.60	10,660.86	1,284.69	-391.80	-1,288.51	1,346.76	253.09	441,434.60	586,512.32	
11,939.00	88.50	269.30	10,661.60	1,378.67	-391.89	-1,382.50	1,436.97	254.17	441,434.51	586,418.33	
12,033.00	90.80	269.30	10,662.17	1,472.64	-393.03	-1,476.48	1,527.90	255.09	441,433.37	586,324.35	
12,128.00	91.60	269.30	10,660.18	1,567.60	-394.19	-1,571.45	1,620.14	255.92	441,432.21	586,229.38	
12,223.00	92.00	268.60	10,657.20	1,662.51	-395.93	-1,666.39	1,712.78	256.63	441,430.47	586,134.44	
12,317.00	93.30	269.30	10,652.85	1,756.37	-397.65	-1,760.27	1,804.63	257.27	441,428.75	586,040.56	
12,411.00	95.00	271.90	10,646.05	1,850.12	-396.68	-1,854.01	1,895.97	257.92	441,429.72	585,946.82	
12,506.00	88.60	271.50	10,643.06	1,945.00	-393.86	-1,948.87	1,988.27	258.57	441,432.54	585,851.96	
12,599.00	86.60	271.20	10,646.96	2,037.90	-391.67	-2,041.76	2,078.99	259.14	441,434.73	585,759.07	
12,694.00	90.30	268.80	10,649.53	2,132.84	-391.67	-2,136.70	2,172.30	259.61	441,434.73	585,664.13	
12,788.00	91.80	267.90	10,647.81	2,226.75	-394.38	-2,230.64	2,265.24	259.97	441,432.02	585,570.19	
12,882.00	92.10	266.80	10,644.61	2,320.55	-398.72	-2,324.49	2,358.43	260.27	441,427.68	585,476.34	
12,976.00	89.20	263.60	10,643.54	2,414.11	-406.59	-2,418.13	2,452.07	260.46	441,419.81	585,382.70	
13,071.00	92.00	263.30	10,642.55	2,508.37	-417.42	-2,512.49	2,546.93	260.57	441,408.98	585,288.34	
13,165.00	101.30	271.10	10,631.66	2,601.40	-422.03	-2,605.57	2,639.53	260.80	441,404.37	585,195.26	
Last Survey: 13165' MD, 10631.66' TVD											
13,246.00	101.30	271.10	10,615.78	2,680.82	-420.51	-2,684.98	2,717.71	261.10	441,405.89	585,115.85	
PTB OH: 13246' MD, 10615.78' TVD											



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 227H
Project:	Eddy County, NM	TVD Reference:	Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Patt809))
Site:	Tiger 14-24S-28E RB	MD Reference:	Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Patt809))
Well:	No. 227H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyros/MWD-115.12-13165', Proj. 13246'	Database:	Well Planner1

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
699.00	698.94	5.49	6.09	Pro MWD First Survey: 699' MD
13,165.00	10,631.66	-422.03	-2,605.57	Last Survey: 13165' MD, 10631.66' TVD
13,246.00	10,615.78	-420.51	-2,684.98	PTB OH: 13246' MD, 10615.78' TVD



NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 27 2016

RECEIVED



Tiger 14-24S-28E RB No. 227H(ST01)

Eddy County, NM

April 19, 2016

Job No. LMN5122416

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

April 19, 2016



Operator Name: Matador Resources
Well Name: Tiger 14-24S-28E RB No. 227H(ST01)
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5122416

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	13,008' MD – 15,423' MD	15,622' MD	04/02/16 – 04/08/16	MWD-OWSG

Sincerely,

Mike Coats
Well Planning
Professional Directional

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

prodirectional.com



Matador Resources

Eddy County, NM

Tiger 14-24S-28E RB

No. 227H

ST01

Survey: ProDirectional

Survey Report

19 April, 2016





ProDirectional Survey Report



Company: Matador Resources	Local Co-ordinate Reference:
Project: Eddy County, NM	TVD Reference: Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))
Site: Tiger 14-24S-28E RB	MD Reference: Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))
Well: No. 227H	North Reference: Grid
Wellbore: ST01	Survey Calculation Method: Minimum Curvature
Design: ST01-MWD-13008'-15423', Proj. 15622'	Database: Well_Planner1

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 Tiger 14-24S-28E RB	Northings: 440,880.00 usft	Latitude: 32° 12' 42.40 N
Site Position:	Easting: 587,752.00 usft	Longitude: 104° 2' 58.57 W
From: Map	Slot Radius: 13-3/16 "	Grid Convergence: 0.15 °
Position Uncertainty: 3.30 usft		

Well No. 227H	Northings: 441,826.40 usft	Latitude: 32° 12' 51.76 N
Well Position +N/-S 0.00 usft	Easting: 587,800.83 usft	Longitude: 104° 2' 57.98 W
Position Uncertainty +E/-W 0.00 usft	Wellhead Elevation: 0.00 usft	Ground Level: 2,975.00 usft

Wellbore ST01				
Magnetics	Model Name	Sample Date	Dip Angle (°)	Field Strength (nT)
	HDGM	3/9/2016	7.37	48,247

Design ST01-MWD-13008'-15423', Proj. 15622'				
Audit Notes:				
Version: 1.0	Phase: ACTUAL	Tie On Depth: 12,976.00		
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	270.55



ProDirectional
Survey Report



Company:

Matador Resources

Eddy County, NM

Project: Tiger 14-24S-28E RB

Site: No. 227H

Well: ST01

Wellbore: ST01-MWD-13008'-15423', Proj. 15622'

Local Co-ordinate Reference:

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Patt809))

TVD Reference:

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Patt809))

MD Reference:

Grid

North Reference:

Minimum Curvature

Survey Calculation Method:

Database:

Description
Gyrodata gyro-compassing and drop
MWD - OWSG
MWD - OWSG

Survey Program

Date 4/19/2016

From (usft)
To (usft)

Survey (Wellbore)

Tool Name

Description

115.12 538.24 Gyros 115.12'-538.24' (OH)
538.24 12.976.00 MWD (538.24') (OH)
13,008.00 15,622.00 Survey #1 (ST01)

Survey

MD (usft)	Inc (°)	Azl (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	441,826.40	587,800.83
115.12	0.83	44.86	115.12	-0.58	0.59	0.59	0.83	44.86	441,826.99	587,801.42
209.90	0.81	33.30	209.89	-1.42	1.64	1.44	2.18	41.33	441,828.04	587,802.27
304.68	0.32	11.66	304.66	-1.84	2.46	1.86	3.08	37.15	441,828.86	587,802.69
399.46	0.67	16.10	399.44	-2.04	3.25	2.07	3.85	32.49	441,829.65	587,802.90
494.24	1.13	52.59	494.21	-2.92	4.35	2.96	5.26	34.28	441,830.75	587,803.79
538.24	1.02	66.06	538.20	-3.62	4.77	3.67	6.02	37.55	441,831.17	587,804.50
699.00	0.80	82.80	698.94	-6.04	5.49	6.09	8.20	47.95	441,831.89	587,806.92
793.00	0.50	88.20	792.93	-7.10	5.59	7.15	9.07	51.99	441,831.99	587,807.98
886.00	0.30	101.30	885.93	-7.74	5.55	7.79	9.57	54.53	441,831.95	587,808.62
980.00	2.80	155.80	979.89	-8.94	3.41	8.98	9.60	69.20	441,829.81	587,809.81
1,073.00	5.40	156.30	1,072.64	-11.69	-2.67	11.67	11.97	102.89	441,823.73	587,812.50
1,167.00	6.80	152.50	1,166.11	-16.13	-11.66	16.01	19.81	126.05	441,814.74	587,816.84
1,260.00	6.50	150.90	1,258.48	-21.32	-21.14	21.12	29.88	135.03	441,805.26	587,821.95
1,354.00	5.80	153.20	1,351.94	-26.13	-30.03	25.85	39.62	139.28	441,796.37	587,826.68
1,448.00	5.20	152.40	1,445.51	-30.33	-38.04	29.96	48.42	141.78	441,788.36	587,830.79
1,541.00	6.10	146.80	1,538.06	-35.06	-45.91	34.62	57.50	142.98	441,780.49	587,835.45
1,634.00	7.60	153.00	1,630.39	-40.65	-55.53	40.12	68.50	144.15	441,770.87	587,840.95
1,728.00	8.20	157.10	1,723.50	-46.19	-67.24	45.55	81.22	145.89	441,759.16	587,846.38
1,822.00	7.60	155.20	1,816.61	-51.52	-79.06	50.76	93.95	147.30	441,747.34	587,851.59



ProDirectional Survey Report

**Company:**

Matador Resources

Project:

Eddy County, NM

Site:

Tiger 14-24S-28E RB

Well:

No. 227H

ST01

Wellbore:

ST01-MWD-13008'-15423', Proj. 15622'

Design:**Local Co-ordinate Reference:**

Well No. 227H

TVD Reference:

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))

MD Reference:

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

Well_Planner1

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)
1,915.00	7.30	155.80	1,908.82	-56.63	-90.03	55.77	105.90	148.23	441,736.37	587,856.60
2,008.00	7.30	151.70	2,001.07	-61.95	-100.62	60.99	117.66	148.78	441,725.78	587,861.82
2,102.00	7.40	152.80	2,094.30	-67.65	-111.27	66.59	129.67	149.10	441,715.13	587,867.42
2,196.00	6.50	160.90	2,187.61	-72.26	-121.68	71.10	140.93	149.70	441,704.72	587,871.93
2,290.00	6.80	160.50	2,280.98	-75.96	-131.95	74.69	151.63	150.49	441,694.45	587,875.52
2,384.00	7.30	155.80	2,374.27	-80.37	-142.64	79.00	163.06	151.02	441,683.76	587,879.83
2,477.00	6.00	158.60	2,466.64	-84.66	-152.56	83.20	173.77	151.39	441,673.84	587,884.03
2,571.00	5.10	158.70	2,560.20	-88.05	-161.03	86.51	182.79	151.75	441,665.37	587,887.34
2,664.00	5.10	156.90	2,652.83	-91.24	-168.68	89.63	191.01	152.02	441,657.72	587,890.46
2,707.00	5.60	159.70	2,695.64	-92.76	-172.41	91.11	195.00	152.15	441,653.99	587,891.94
2,849.00	5.10	161.10	2,837.02	-97.33	-184.88	95.56	208.11	152.67	441,641.52	587,896.39
2,943.00	4.90	158.80	2,930.66	-100.20	-192.57	98.36	216.24	152.94	441,633.83	587,899.19
3,036.00	7.20	164.10	3,023.14	-103.33	-201.88	101.39	225.91	153.33	441,624.52	587,902.22
3,130.00	8.00	164.60	3,116.31	-106.79	-213.85	104.74	238.13	153.90	441,612.55	587,905.57
3,224.00	7.70	161.50	3,209.43	-110.65	-226.13	108.48	250.80	154.37	441,600.27	587,909.31
3,318.00	7.60	159.10	3,302.60	-114.97	-237.91	112.70	263.25	154.65	441,588.49	587,913.53
3,411.00	7.10	159.10	3,394.83	-119.32	-249.02	116.94	275.11	154.85	441,577.38	587,917.77
3,505.00	6.70	173.40	3,488.16	-122.13	-259.90	119.64	286.12	155.28	441,566.50	587,920.47
3,599.00	6.40	172.90	3,581.55	-123.51	-270.55	120.92	296.34	155.92	441,555.85	587,921.75
3,693.00	6.10	173.10	3,674.99	-124.86	-280.70	122.17	306.14	156.48	441,545.70	587,923.00
3,786.00	5.80	174.10	3,767.49	-126.03	-290.28	123.24	315.36	157.00	441,536.12	587,924.07
3,880.00	5.70	174.90	3,861.01	-127.02	-299.66	124.15	324.36	157.50	441,526.74	587,924.98
3,974.00	6.00	166.90	3,954.52	-128.64	-309.09	125.68	333.66	157.87	441,517.31	587,926.51
4,067.00	6.00	161.30	4,047.02	-131.39	-318.43	128.34	343.32	158.05	441,507.97	587,929.17
4,161.00	5.70	163.30	4,140.53	-134.39	-327.55	131.25	352.87	158.16	441,498.85	587,932.08
4,254.00	5.30	161.60	4,233.10	-137.16	-336.05	133.94	361.76	158.27	441,490.35	587,934.77
4,348.00	4.90	164.50	4,326.73	-139.68	-344.04	136.38	370.09	158.38	441,482.36	587,937.21



ProDirectional Survey Report

**Company:**

Matador Resources

Project:

Eddy County, NM

Site:

Tiger 14-24S-28E RB

Well:

No. 227H

Wellbore:

ST01

Design:

ST01-MWD-13008'-15423', Proj. 15622'

Local Co-ordinate Reference:

Well No. 227H

TVD Reference:

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))

MD Reference:

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

Well_Planner1

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)
4,441.00	4.70	162.50	4,419.40	-141.95	-351.50	138.59	377.84	158.48	441,474.90	587,939.42
4,535.00	4.50	164.90	4,513.10	-144.14	-358.74	140.70	385.34	158.58	441,467.66	587,941.53
4,628.00	5.10	153.10	4,605.77	-147.03	-365.94	143.53	393.08	158.58	441,460.46	587,944.36
4,722.00	5.40	149.80	4,699.38	-151.22	-373.49	147.64	401.62	158.43	441,452.91	587,948.47
4,815.00	5.10	149.60	4,791.99	-155.58	-380.84	151.93	410.03	158.25	441,445.56	587,952.76
4,909.00	4.00	145.80	4,885.69	-159.60	-387.16	155.89	417.36	158.07	441,439.24	587,956.72
5,003.00	3.00	138.80	4,979.51	-163.11	-391.72	159.35	422.89	157.86	441,434.68	587,960.18
5,096.00	2.80	141.60	5,072.40	-166.16	-395.33	162.37	427.37	157.67	441,431.07	587,963.20
5,189.00	2.50	140.80	5,165.30	-168.88	-398.68	165.06	431.50	157.51	441,427.72	587,965.89
5,283.00	2.50	137.60	5,259.21	-171.59	-401.78	167.74	435.39	157.34	441,424.62	587,968.57
5,376.00	1.90	154.80	5,352.14	-173.64	-404.68	169.76	438.84	157.24	441,421.72	587,970.59
5,469.00	1.90	154.80	5,445.09	-174.98	-407.47	171.08	441.92	157.22	441,418.93	587,971.91
5,563.00	2.00	160.20	5,539.03	-176.23	-410.42	172.30	445.12	157.23	441,415.98	587,973.13
5,656.00	1.20	189.90	5,632.00	-176.63	-412.91	172.68	447.56	157.31	441,413.49	587,973.51
5,749.00	1.10	197.80	5,724.98	-176.21	-414.72	172.24	449.06	157.45	441,411.68	587,973.07
5,842.00	1.30	191.80	5,817.96	-175.74	-416.60	171.75	450.61	157.60	441,409.80	587,972.58
5,936.00	1.40	195.50	5,911.93	-175.24	-418.75	171.22	452.40	157.76	441,407.65	587,972.05
6,030.00	1.40	199.20	6,005.90	-174.57	-420.94	170.54	454.17	157.95	441,405.46	587,971.37
6,123.00	1.40	206.90	6,098.88	-173.70	-423.03	169.65	455.78	158.15	441,403.37	587,970.48
6,217.00	1.50	203.90	6,192.85	-172.71	-425.18	168.63	457.40	158.37	441,401.22	587,969.46
6,311.00	1.50	201.70	6,286.81	-171.78	-427.44	167.68	459.16	158.58	441,398.96	587,968.51
6,404.00	1.00	223.50	6,379.79	-170.78	-429.16	166.67	460.39	158.78	441,397.24	587,967.50
6,498.00	1.00	249.00	6,473.78	-169.46	-430.05	165.34	460.74	158.97	441,396.35	587,966.17
6,591.00	1.40	266.70	6,566.76	-167.57	-430.41	163.45	460.40	159.21	441,395.99	587,964.28
6,685.00	0.60	267.00	6,660.74	-165.94	-430.50	161.81	459.91	159.40	441,395.90	587,962.64
6,779.00	1.50	272.70	6,754.73	-164.22	-430.47	160.09	459.27	159.60	441,395.93	587,960.92
6,872.00	1.80	263.70	6,847.69	-161.55	-430.57	157.42	458.45	159.92	441,395.83	587,958.25



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 227H
Project:	Eddy County, NM	TVD Reference:	Well @ 3003.50ust (GL: 2975' + KB: 28.5' (Pat809))
Site:	Tiger 14-24S-28E RB	MD Reference:	Well @ 3003.50ust (GL: 2975' + KB: 28.5' (Pat809))
Well:	No. 227H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01-MWD-13008'-15423', Proj. 15622'	Database:	Well_Planer1

MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	V. Sec (ustf)	N/S (ustf)	E/W (ustf)	Closure Distance (ustf)	Closure Azimuth (°)	Northing (ustf)	Easting (ustf)
6,966.00	0.70	6.30	6,941.67	-160.14	-430.16	156.02	457.58	160.06	441,396.24	587,956.85
7,059.00	1.10	12.40	7,034.66	-160.38	-428.73	156.27	456.32	159.97	441,397.67	587,957.10
7,153.00	1.20	328.40	7,128.64	-160.04	-427.01	155.95	454.59	159.94	441,399.39	587,956.78
7,246.00	1.80	329.90	7,221.61	-158.78	-424.91	154.71	452.20	159.99	441,401.49	587,955.54
7,340.00	1.70	324.90	7,315.57	-157.21	-422.49	153.17	449.40	160.07	441,403.91	587,954.00
7,433.00	1.40	42.60	7,408.54	-157.17	-420.53	153.14	447.55	159.99	441,405.87	587,953.97
7,527.00	0.80	62.30	7,502.52	-158.52	-419.38	154.50	446.93	159.78	441,407.02	587,955.33
7,620.00	0.50	75.90	7,595.52	-159.48	-418.98	155.47	446.89	159.64	441,407.42	587,956.30
7,714.00	1.30	34.20	7,689.51	-160.47	-418.00	156.47	446.32	159.48	441,408.40	587,957.30
7,808.00	1.90	48.70	7,783.47	-162.22	-416.09	158.24	445.16	159.18	441,410.31	587,959.07
7,901.00	2.20	49.90	7,876.41	-164.72	-413.92	160.76	444.04	158.77	441,412.48	587,961.59
7,995.00	1.50	50.00	7,970.36	-167.03	-411.97	163.08	443.07	158.40	441,414.43	587,963.91
8,089.00	2.20	55.70	8,064.31	-169.44	-410.16	165.51	442.29	158.02	441,416.24	587,966.34
8,182.00	1.60	55.40	8,157.26	-171.97	-408.42	168.06	441.64	157.63	441,417.98	587,968.89
8,276.00	1.50	59.20	8,251.22	-174.09	-407.04	170.20	441.19	157.31	441,419.36	587,971.03
8,370.00	0.50	254.30	8,345.22	-174.75	-406.52	170.86	440.97	157.20	441,419.88	587,971.69
8,463.00	1.20	229.30	8,438.21	-173.63	-407.27	169.73	441.22	157.38	441,419.13	587,970.56
8,557.00	0.90	224.30	8,532.19	-172.38	-408.44	168.47	441.82	157.59	441,417.96	587,969.30
8,650.00	1.20	187.80	8,625.18	-171.75	-409.92	167.82	442.95	157.74	441,416.48	587,968.65
8,744.00	2.40	167.70	8,719.13	-172.06	-412.82	168.11	445.74	157.84	441,413.58	587,968.94
8,838.00	3.00	167.80	8,813.02	-173.05	-417.15	169.05	450.10	157.94	441,409.25	587,969.88
8,931.00	2.40	168.90	8,905.92	-173.98	-421.44	169.94	454.41	158.04	441,404.96	587,970.77
9,025.00	1.00	196.80	8,999.88	-174.14	-424.16	170.08	456.98	158.15	441,402.24	587,970.91
9,118.00	1.00	207.70	9,092.86	-173.55	-425.65	169.47	458.15	158.29	441,400.75	587,970.30
9,212.00	1.00	200.00	9,186.85	-172.90	-427.15	168.81	459.29	158.44	441,399.25	587,969.64
9,306.00	0.90	207.30	9,280.84	-172.29	-428.57	168.19	460.39	158.57	441,397.83	587,969.02
9,399.00	1.00	204.10	9,373.82	-171.64	-429.96	167.52	461.45	158.71	441,396.44	587,968.35



ProDirectional Survey Report

**Company:**

Matador Resources

Project:

Eddy County, NM

Site:

Tiger 14-24S-28E RB

Well:

No. 227H

Wellbore:

ST01

Design:

ST01-MWD-13008-15423', Proj. 15622'

Local Co-ordinate Reference:

Well No. 227H

TVD Reference:

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))

MD Reference:

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

Database:

Well_Planner1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
9,493.00	1.10	190.90	9,467.81	-171.15	-431.60	167.02	462.79	158.85	441,394.80	587,967.85
9,587.00	1.20	203.50	9,561.79	-170.60	-433.39	166.45	464.25	158.99	441,393.01	587,967.28
9,680.00	1.40	201.70	9,654.76	-169.81	-435.34	165.64	465.78	159.17	441,391.06	587,966.47
9,774.00	1.20	198.70	9,748.74	-169.09	-437.34	164.90	467.39	159.34	441,389.06	587,965.73
9,868.00	1.10	211.50	9,842.72	-168.32	-439.04	164.12	468.71	159.50	441,387.36	587,964.95
9,961.00	1.00	203.30	9,935.71	-167.55	-440.54	163.33	469.85	159.66	441,385.86	587,964.16
9,985.00	1.00	207.80	9,959.70	-167.37	-440.92	163.15	470.14	159.69	441,385.48	587,963.98
10,016.00	1.90	249.60	9,990.69	-166.77	-441.34	162.54	470.32	159.78	441,385.06	587,963.37
10,047.00	5.20	266.40	10,021.63	-164.89	-441.61	160.66	469.92	160.01	441,384.79	587,961.49
10,078.00	9.20	268.30	10,052.38	-161.01	-441.77	156.78	468.76	160.46	441,384.63	587,957.61
10,126.00	14.10	270.90	10,099.38	-151.32	-441.79	147.09	465.63	161.59	441,384.61	587,947.92
10,172.00	16.20	272.80	10,143.78	-139.31	-441.39	135.08	461.60	162.98	441,385.01	587,935.91
10,219.00	17.90	270.60	10,188.71	-125.53	-440.99	121.30	457.37	164.62	441,385.41	587,922.13
10,265.00	21.40	271.40	10,232.02	-110.07	-440.71	105.84	453.25	166.50	441,385.69	587,906.67
10,312.00	25.40	270.80	10,275.15	-91.40	-440.36	87.18	448.91	168.80	441,386.04	587,888.01
10,359.00	29.80	272.50	10,316.79	-69.64	-439.71	65.42	444.55	171.54	441,386.69	587,866.25
10,406.00	31.70	274.50	10,357.18	-45.65	-438.24	41.44	440.19	174.60	441,388.16	587,842.27
10,452.00	34.90	276.00	10,395.62	-20.48	-435.91	16.30	436.22	177.86	441,390.49	587,817.13
10,499.00	39.20	275.60	10,433.13	7.71	-433.05	-11.87	433.22	181.57	441,393.35	587,788.96
10,546.00	43.90	273.20	10,468.29	38.80	-430.69	-42.94	432.83	185.69	441,395.71	587,757.89
10,593.00	49.30	272.10	10,500.58	72.91	-429.13	-77.04	435.99	190.18	441,397.27	587,723.79
10,639.00	53.60	271.20	10,529.24	108.87	-428.10	-112.99	442.76	194.78	441,398.30	587,687.84
10,686.00	57.60	270.10	10,555.78	147.65	-427.67	-151.76	453.80	199.54	441,398.73	587,649.07
10,733.00	61.90	269.20	10,579.46	188.23	-427.93	-192.35	469.17	204.20	441,398.47	587,608.48
10,780.00	66.90	270.70	10,599.76	230.60	-427.95	-234.72	488.09	208.74	441,398.45	587,566.11
10,827.00	70.20	271.10	10,616.94	274.34	-427.26	-278.45	509.99	213.09	441,399.14	587,522.38
10,932.00	75.60	270.30	10,647.81	374.66	-426.05	-378.76	570.07	221.64	441,400.35	587,422.07



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 227H
Project:	Eddy County, NM	TVD Reference:	Well @ 3003.50ust (GL: 2975' + KB: 28.5' (Pat809))
Site:	Tiger 14-24S-28E RB	MD Reference:	Well @ 3003.50ust (GL: 2975' + KB: 28.5' (Pat809))
Well:	No. 227H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01-MWD-13008'-15423', Proj. 15622'	Database:	Well_Planner1

Survey

MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	V. Sec (ustf)	N/S (ustf)	E/W (ustf)	Closure Distance (ustf)	Closure Azimuth (°)	Northing (ustf)	Easting (ustf)
10,996.00	84.70	270.00	10,658.74	437.65	-425.89	-441.75	613.62	226.05	441,400.51	587,359.08
11,090.00	93.40	266.90	10,660.30	531.47	-428.43	-535.61	685.87	231.34	441,397.97	587,265.22
11,183.00	92.30	268.70	10,655.68	624.24	-431.99	-628.42	762.58	235.49	441,394.41	587,172.41
11,278.00	91.00	273.40	10,652.94	719.17	-430.25	-723.33	841.62	239.25	441,396.15	587,077.50
11,373.00	89.90	274.80	10,652.19	813.98	-423.46	-818.08	921.18	242.63	441,402.94	586,982.75
11,467.00	90.90	276.60	10,651.54	907.59	-414.13	-911.61	1,001.27	245.57	441,412.27	586,889.22
11,561.00	87.80	275.80	10,652.60	1,001.12	-403.98	-1,005.04	1,083.19	248.10	441,422.42	586,795.79
11,655.00	88.00	273.40	10,655.05	1,094.81	-396.44	-1,098.67	1,168.01	250.16	441,429.96	586,702.16
11,750.00	87.80	270.80	10,659.53	1,189.71	-392.96	-1,193.53	1,256.56	251.78	441,433.44	586,607.30
11,845.00	90.60	270.60	10,660.86	1,284.69	-391.80	-1,288.51	1,346.76	253.09	441,434.60	586,512.32
11,939.00	88.50	269.30	10,661.60	1,378.67	-391.89	-1,382.50	1,436.97	254.17	441,434.51	586,418.33
12,033.00	90.80	269.30	10,662.17	1,472.64	-393.03	-1,476.48	1,527.90	255.09	441,433.37	586,324.35
12,128.00	91.60	269.30	10,660.18	1,567.60	-394.19	-1,571.45	1,620.14	255.92	441,432.21	586,229.38
12,223.00	92.00	268.60	10,657.20	1,662.51	-395.93	-1,666.39	1,712.78	256.63	441,430.47	586,134.44
12,317.00	93.30	269.30	10,652.85	1,756.37	-397.65	-1,760.27	1,804.63	257.27	441,428.75	586,040.56
12,411.00	95.00	271.90	10,646.05	1,850.12	-396.68	-1,854.01	1,895.97	257.92	441,429.72	585,946.82
12,506.00	88.60	271.50	10,643.06	1,945.00	-393.96	-1,948.87	1,988.27	258.57	441,432.54	585,851.96
12,599.00	86.60	271.20	10,646.96	2,037.90	-391.67	-2,041.76	2,078.99	259.14	441,434.73	585,759.07
12,694.00	90.30	268.80	10,649.53	2,132.84	-391.67	-2,136.70	2,172.30	259.61	441,434.73	585,664.13
12,788.00	91.80	267.90	10,647.81	2,226.75	-394.38	-2,230.64	2,265.24	259.97	441,432.02	585,570.19
12,882.00	92.10	266.80	10,644.61	2,320.55	-398.72	-2,324.49	2,358.43	260.27	441,427.68	585,476.34
12,976.00	89.20	263.60	10,643.54	2,414.11	-406.59	-2,418.13	2,452.07	260.46	441,419.81	585,382.70
13,008.00	86.90	265.00	10,644.63	2,445.90	-409.76	-2,449.95	2,483.98	260.50	441,416.64	585,350.88
First ST01 Survey: 13008' MD										
13,023.00	86.00	266.20	10,645.56	2,460.82	-410.91	-2,464.87	2,498.89	260.54	441,415.49	585,335.96
13,039.00	86.80	268.40	10,646.56	2,476.76	-411.66	-2,480.82	2,514.75	260.58	441,414.74	585,320.01
13,054.00	88.30	269.60	10,647.20	2,491.74	-411.92	-2,495.81	2,529.57	260.63	441,414.48	585,305.02



ProDirectional Survey Report

**Company:**

Matador Resources

Project:

Eddy County, NM

Site:

Tiger 14-24S-28E RB

Well:

No. 227H

Wellbore:

ST01

Design:

ST01-MWD-13008'-15423', Proj. 15622'

Local Co-ordinate Reference:

Well No. 227H

TVD Reference:

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))

MD Reference:

Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

Database:

Well_Planner1

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)
13,071.00	89.50	270.80	10,647.53	2,508.73	-411.87	-2,512.80	2,546.33	260.69	441,414.53	585,288.03
13,166.00	88.40	269.30	10,649.27	2,603.71	-411.78	-2,607.78	2,640.09	261.03	441,414.62	585,193.05
13,260.00	94.50	270.60	10,646.89	2,697.63	-411.87	-2,701.71	2,732.92	261.33	441,414.53	585,099.12
13,355.00	94.60	272.70	10,639.36	2,792.31	-409.14	-2,796.36	2,826.13	261.68	441,417.26	585,004.47
13,449.00	92.10	270.90	10,633.86	2,886.11	-406.19	-2,890.14	2,918.55	262.00	441,420.21	584,910.69
13,544.00	94.90	273.50	10,628.06	2,980.88	-402.56	-2,984.88	3,011.90	262.32	441,423.84	584,815.95
13,638.00	94.10	272.10	10,620.69	3,074.51	-397.98	-3,078.48	3,104.09	262.63	441,428.42	584,722.35
13,733.00	91.80	271.20	10,615.80	3,169.36	-395.25	-3,173.30	3,197.82	262.90	441,431.15	584,627.53
13,827.00	94.10	271.60	10,610.96	3,263.22	-392.96	-3,267.14	3,290.69	263.14	441,433.44	584,533.69
13,943.00	85.70	271.30	10,611.16	3,379.10	-390.02	-3,383.00	3,405.41	263.42	441,436.38	584,417.83
14,038.00	88.50	271.50	10,615.97	3,473.96	-387.71	-3,477.84	3,499.39	263.64	441,438.69	584,322.99
14,132.00	88.80	270.70	10,618.18	3,567.93	-385.90	-3,571.80	3,592.58	263.83	441,440.50	584,229.03
14,226.00	90.10	271.90	10,619.09	3,661.91	-383.77	-3,665.77	3,685.80	264.02	441,442.63	584,135.06
14,321.00	90.00	271.30	10,619.00	3,756.90	-381.12	-3,760.73	3,779.99	264.21	441,445.28	584,040.10
14,415.00	91.40	271.10	10,617.86	3,850.88	-379.15	-3,854.70	3,873.30	264.38	441,447.25	583,946.13
14,510.00	93.40	271.50	10,613.88	3,945.79	-377.00	-3,949.59	3,967.54	264.55	441,449.40	583,851.24
14,604.00	93.40	270.90	10,608.30	4,039.61	-375.03	-4,043.40	4,060.75	264.70	441,451.37	583,757.43
14,698.00	93.80	270.60	10,602.40	4,133.43	-373.80	-4,137.21	4,154.06	264.84	441,452.60	583,663.62
14,793.00	92.50	271.20	10,597.18	4,228.28	-372.31	-4,232.05	4,248.39	264.97	441,454.09	583,568.78
14,869.00	92.80	271.90	10,593.67	4,304.19	-370.26	-4,307.94	4,323.82	265.09	441,456.14	583,482.89
14,982.00	85.60	272.70	10,595.24	4,417.05	-365.73	-4,420.76	4,435.86	265.27	441,460.67	583,380.07
15,077.00	84.40	272.80	10,603.52	4,511.61	-361.19	-4,515.29	4,529.71	265.43	441,465.21	583,285.54
15,172.00	85.90	271.30	10,611.56	4,606.24	-357.80	-4,609.88	4,623.75	265.56	441,468.60	583,190.95
15,266.00	88.00	268.50	10,616.56	4,700.08	-357.97	-4,703.73	4,717.34	265.65	441,468.43	583,097.10
15,361.00	91.40	268.10	10,617.05	4,794.99	-360.79	-4,798.68	4,812.22	265.70	441,465.61	583,002.15
15,423.00	91.70	267.10	10,615.38	4,856.89	-363.38	-4,860.60	4,874.16	265.72	441,463.02	582,940.23

Last Survey: 15423' MD, 10615.38' TVD



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 227H
Project:	Eddy County, NM	TVD Reference:	Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))
Site:	Tiger 14-24S-28E RB	MD Reference:	Well @ 3003.50usft (GL: 2975' + KB: 28.5' (Pat809))
Well:	No. 227H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01-MWD-13008'-15423', Proj. 15622'	Database:	Well_Planner1

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)
15,622.00	91.70	267.10	10,609.47	5,055.44	-373.45	-5,059.26	5,073.02	265.78	441,452.95	582,741.57
PTB: 15622' MD, 10609.47' TVD										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
		+N/S (usft)	+E/W (usft)	Comment
13,008.00	10,644.63	-409.76	-2,449.95	First ST01 Survey: 13008' MD
15,423.00	10,615.38	-363.38	-4,860.60	Last Survey: 15423' MD, 10615.38' TVD
15,622.00	10,609.47	-373.45	-5,059.26	PTB: 15622' MD, 10609.47' TVD