

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Santa Fe, NM 87505
JAN 06 2020
DISTRICT IV-ARTESIA O.C.D.

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46000	² Pool Code 3713	³ Pool Name Avalon; Bone Spring East
⁴ Property Code 326053	⁵ Property Name LEATHERNECK 3029 FED COM	⁶ Well Number 125H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3240'

¹⁰Surface Location

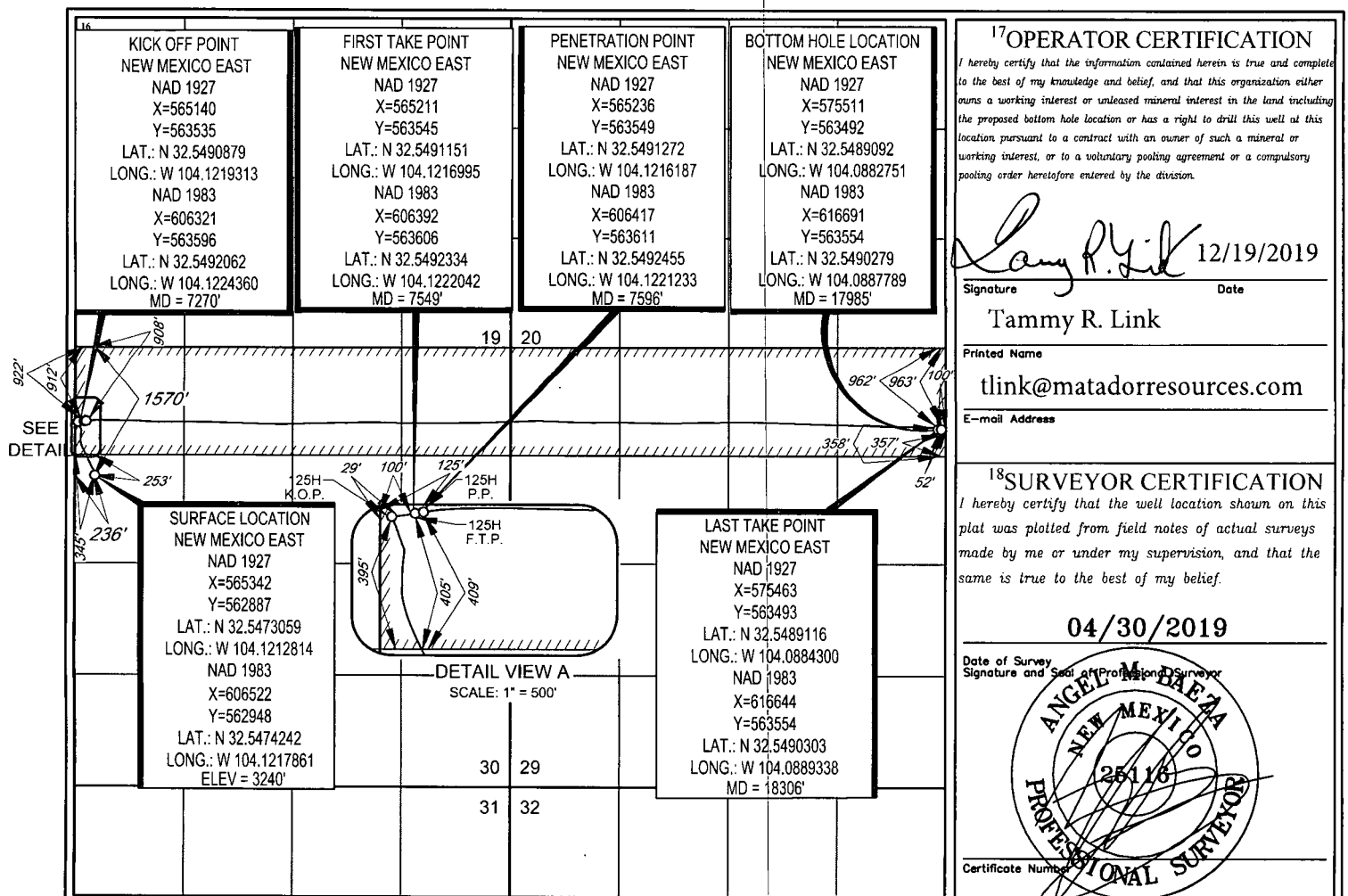
UL or lot no. 2	Section 30	Township 20-S	Range 29-E	Lot Idn -	Feet from the 1570'	North/South line NORTH	Feet from the 236'	East/West line WEST	County EDDY
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¹¹Bottom Hole Location If Different From Surface

UL or lot no. A	Section 29	Township 20-S	Range 29-E	Lot Idn -	Feet from the 963'	North/South line NORTH	Feet from the 52'	East/West line EAST	County EDDY
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¹² Dedicated Acres 316.34	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



RwP 3-24-20

0' 1000' 2000'



SECTION 30, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



SUR. /

MD - 7270

MD = 7549

MD - 7596

FND. BRASS CAP
U.S. G.L.O. SUR.

LLV = 5240

MD - 17930

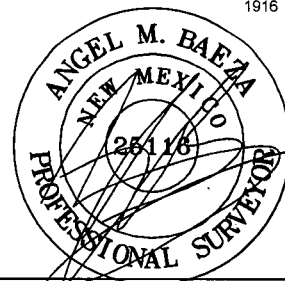
SCALE: 1" = 500'

LEASE NAME & WELL NO.: LEATHERNECK 3029 FED COM 125H
SECTION 30 TWP 20-S RGE 29-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM ELEVATION 3240'
DESCRIPTION 1570' FNL & 236' FWL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



Angel M. Baeza, P.S. No. 25116
DECEMBER 17, 2019

LEATHERNECK 3029 FED
COM 125H
AS-COMPLETED

REVISION:

DATE: 12/17/19

AD LEATHERNECK 3029 FED COM 125H

DRAWN BY: JDR

SHEET: 1 OF 1

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

JAN 06 2020

Intent ☐ As Drilled ☒

DISTRICT 7/ARTESIA O.C.D.

API #
30-015-46000

Operator Name: Masador Production	Property Name: Leatherneck 3029 Fed Com	Well Number 1254
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Kick Off Point (KOP)

UL E	Section 30	Township 20S	Range 29E	Lot	Feet 912	From N/S W	Feet 1570	From E/W W	County Eddy
Latitude 32.5492062					Longitude -104.1224306			NAD 1983	

First Take Point (FTP)

UL E	Section 30	Township 20S	Range 29E	Lot	Feet 912	From N/S N	Feet 1570	From E/W W	County Eddy
Latitude -					Longitude -104.1222042			NAD 1983	

Last Take Point (LTP)

UL A	Section 29	Township 20S	Range 29E	Lot	Feet 52	From N/S W	Feet 10.0	From E/W W	County Eddy
Latitude 32.5490303					Longitude -104.0889338			NAD 1983	

52 FEET 963 FTL

Take Point 100'
FTLIs this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #	Operator Name:	Property Name:	Well Number

KZ 06/29/2018



PRODIRECTIONAL



RECEIVED

JAN 06 2020

DISTRICT 7 / ARTESIA O.C.D.



Leatherneck 3029 Fed Com No. 125H

Eddy County, NM

August 19, 2019

Job No. LNM5504819

ORIGINAL

Certified Report



ProDirectional

Survey Certification Letter

August 19, 2019



Operator Name: Matador Resources
Well Name: Leatherneck 3029 Fed Com No. 125H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5504819

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	503' MD – 17,908' MD	17,985' MD	06/24/19 – 07/20/19	MWD

Sincerely,

Mike Coats

Mike Coats
Regulatory Specialist
Professional Directional

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

prodirectional.com

The Standard of Excellence in Directional Supervision



Matador Resources

Eddy County, NM

Leatherneck 3029 Fed Com

No. 125H

OH

Survey: ProDirectional

Survey Report

19 August, 2019





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 125H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3268.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3268.50usft
Well:	No. 125H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-67'-17908', Proj. 17985'	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		Leatherneck 3029 Fed Com				
Site Position:		Northing:	562,948.00	usft	Latitude:	32° 32' 50.723707 N
From:	Map	Easting:	606,522.00	usft	Longitude:	104° 7' 18.430777 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16	"	Grid Convergence:	0.11 °

Well	No. 125H, LNM5504819					
Well Position	+N/-S	0.00 usft	Northing:	562,948.00 usft	Latitude:	32° 32' 50.723707 N
	+E/-W	0.00 usft	Easting:	606,522.00 usft	Longitude:	104° 7' 18.430777 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,240.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	6/28/2019	7.18	60.30	47,966.00

Design:	Gyro-MWD-67'-17908', Proj. 17985'			
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	90.03



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 125H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3268.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3268.50usft
Well:	No. 125H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-67'-17908', Proj. 17985'	Database:	WellPlanner1

Survey Program		Date 8/19/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
67.00	349.00	Survey #1 (OH)	GYRO-NS-CT	OWSG XYZ Accel with XY Static and Continuous Gyro
503.00	17,985.00	Survey #2 (OH)	MWD+HDGM	OWSG MWD + HRGM

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	562,948.00	606,522.00
67.00	0.28	226.25	67.00	-0.12	-0.11	-0.12	0.16	226.25	562,947.89	606,521.88
161.00	0.26	214.86	161.00	-0.41	-0.45	-0.41	0.60	222.25	562,947.55	606,521.59
255.00	0.39	65.44	255.00	-0.24	-0.49	-0.24	0.54	205.86	562,947.51	606,521.76
349.00	1.38	31.50	348.99	0.65	0.61	0.65	0.89	46.66	562,948.61	606,522.65
503.00	2.50	51.00	502.90	4.22	4.30	4.22	6.03	44.47	562,952.30	606,526.22
Pro MWD First Survey: 503' MD										
594.00	2.70	57.50	593.80	7.57	6.70	7.57	10.12	48.49	562,954.70	606,529.57
686.00	2.50	61.40	685.71	11.16	8.83	11.16	14.23	51.66	562,956.83	606,533.16
776.00	2.20	69.70	775.63	14.50	10.37	14.51	17.83	54.45	562,958.37	606,536.51
867.00	3.00	81.90	866.54	18.50	11.31	18.50	21.69	58.57	562,959.31	606,540.50
959.00	3.90	92.80	958.37	24.01	11.50	24.01	26.62	64.42	562,959.50	606,546.01
1,053.00	2.50	112.00	1,052.23	29.10	10.57	29.11	30.97	70.04	562,958.57	606,551.11
1,120.00	1.30	151.60	1,119.19	30.82	9.36	30.82	32.21	73.11	562,957.36	606,552.82
1,238.00	2.00	181.10	1,237.14	31.42	6.12	31.42	32.01	78.98	562,954.12	606,553.42
1,331.00	2.00	224.40	1,330.09	30.25	3.34	30.25	30.44	83.70	562,951.34	606,552.25
1,425.00	2.60	286.50	1,424.03	27.06	2.77	27.06	27.20	84.15	562,950.77	606,549.06
1,518.00	3.90	309.40	1,516.88	22.59	5.38	22.59	23.22	76.61	562,953.38	606,544.59
1,611.00	4.50	315.50	1,609.63	17.59	9.99	17.59	20.23	60.42	562,957.99	606,539.59
1,704.00	5.40	321.60	1,702.28	12.31	16.02	12.32	20.21	37.56	562,964.02	606,534.32
1,798.00	6.30	325.80	1,795.79	6.66	23.75	6.67	24.67	15.69	562,971.75	606,528.67



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 125H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3268.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3268.50usft
Well:	No. 125H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-67'-17908', Proj. 17985'	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)	
1,891.00	6.90	329.60	1,888.18	0.96	32.79	0.98	32.80	1.70	562,980.79	606,522.98	
1,984.00	7.60	332.70	1,980.43	-4.69	43.07	-4.67	43.33	353.81	562,991.07	606,517.33	
2,078.00	8.40	332.50	2,073.52	-10.72	54.69	-10.69	55.72	348.94	563,002.69	606,511.31	
2,171.00	9.40	332.00	2,165.40	-17.43	67.42	-17.40	69.63	345.53	563,015.42	606,504.60	
2,264.00	10.20	332.40	2,257.04	-24.82	81.42	-24.78	85.11	343.08	563,029.42	606,497.22	
2,358.00	11.30	333.40	2,349.39	-32.81	97.03	-32.76	102.41	341.35	563,045.03	606,489.24	
2,451.00	12.30	333.30	2,440.42	-41.35	114.03	-41.29	121.28	340.10	563,062.03	606,480.71	
2,544.00	13.20	333.20	2,531.13	-50.60	132.36	-50.53	141.67	339.11	563,080.36	606,471.47	
2,637.00	14.40	333.50	2,621.44	-60.55	152.19	-60.47	163.76	338.33	563,100.19	606,461.53	
2,731.00	15.20	333.90	2,712.32	-71.20	173.71	-71.11	187.70	337.74	563,121.71	606,450.89	
2,824.00	16.10	335.30	2,801.87	-81.97	196.38	-81.86	212.76	337.37	563,144.38	606,440.14	
2,918.00	16.90	334.10	2,892.00	-93.39	220.51	-93.28	239.43	337.07	563,168.51	606,428.72	
3,012.00	17.50	333.20	2,981.80	-105.75	245.42	-105.62	267.18	336.71	563,193.42	606,416.38	
3,200.00	18.10	333.90	3,160.80	-131.37	296.87	-131.21	324.58	336.16	563,244.87	606,390.79	
3,293.00	16.80	337.60	3,249.52	-142.86	322.27	-142.69	352.45	336.12	563,270.27	606,379.31	
3,387.00	15.40	339.50	3,339.83	-152.42	346.52	-152.24	378.49	336.28	563,294.52	606,369.76	
3,481.00	13.10	344.30	3,430.94	-159.68	368.47	-159.49	401.51	336.59	563,316.47	606,362.51	
3,574.00	10.60	346.80	3,521.95	-164.50	386.95	-164.30	420.39	336.99	563,334.95	606,357.70	
3,666.00	9.90	346.80	3,612.48	-168.25	402.89	-168.04	436.53	337.36	563,350.89	606,353.96	
3,760.00	8.40	358.80	3,705.29	-170.24	417.62	-170.03	450.91	337.85	563,365.62	606,351.97	
3,854.00	8.20	4.60	3,798.31	-169.86	431.17	-169.63	463.34	338.52	563,379.17	606,352.37	
3,947.00	6.40	3.10	3,890.55	-169.05	442.96	-168.82	474.04	339.14	563,390.96	606,353.18	
4,040.00	6.00	0.60	3,983.00	-168.72	452.99	-168.49	483.31	339.60	563,400.99	606,353.51	
4,134.00	6.20	0.10	4,076.47	-168.67	462.98	-168.43	492.67	340.01	563,410.98	606,353.57	
4,227.00	6.00	1.60	4,168.94	-168.53	472.86	-168.28	501.91	340.41	563,420.86	606,353.72	
4,321.00	6.20	2.70	4,262.41	-168.16	482.84	-167.91	511.21	340.83	563,430.84	606,354.09	
4,414.00	5.90	3.50	4,354.89	-167.64	492.63	-167.38	520.29	341.23	563,440.63	606,354.62	



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 125H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3268.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3268.50usft
Well:	No. 125H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-67'-17908', Proj. 17985'	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)	
4,508.00	6.10	5.00	4,448.38	-166.91	502.43	-166.65	529.35	341.65	563,450.43	606,355.35	
4,601.00	5.90	5.30	4,540.87	-166.04	512.11	-165.78	538.27	342.06	563,460.11	606,356.22	
4,695.00	5.60	7.00	4,634.40	-165.04	521.47	-164.77	546.89	342.46	563,469.47	606,357.23	
4,788.00	5.50	6.00	4,726.96	-164.03	530.41	-163.75	555.11	342.84	563,478.41	606,358.25	
4,882.00	5.50	8.30	4,820.53	-162.91	539.35	-162.63	563.33	343.22	563,487.35	606,359.37	
4,975.00	4.00	346.90	4,913.21	-163.01	546.92	-162.72	570.61	343.43	563,494.92	606,359.28	
5,068.00	3.70	338.50	5,006.00	-164.85	552.87	-164.56	576.84	343.42	563,500.87	606,357.44	
5,161.00	4.00	339.00	5,098.79	-167.11	558.69	-166.82	583.06	343.37	563,506.69	606,355.18	
5,255.00	4.10	341.10	5,192.56	-169.38	564.93	-169.08	589.69	343.34	563,512.93	606,352.92	
5,348.00	3.80	341.00	5,285.34	-171.46	570.99	-171.16	596.09	343.31	563,518.99	606,350.84	
5,441.00	3.60	339.50	5,378.14	-173.49	576.64	-173.19	602.08	343.28	563,524.64	606,348.81	
5,535.00	3.40	338.60	5,471.97	-175.54	582.00	-175.24	607.81	343.24	563,530.00	606,346.76	
5,628.00	3.40	341.10	5,564.81	-177.45	587.17	-177.14	613.31	343.21	563,535.17	606,344.86	
5,722.00	3.00	339.90	5,658.66	-179.20	592.12	-178.89	618.55	343.19	563,540.12	606,343.11	
5,815.00	3.00	342.70	5,751.53	-180.76	596.73	-180.45	623.42	343.17	563,544.73	606,341.55	
5,908.00	3.00	336.80	5,844.40	-182.44	601.29	-182.13	628.27	343.15	563,549.29	606,339.87	
6,002.00	3.70	339.10	5,938.24	-184.50	606.38	-184.18	633.74	343.10	563,554.38	606,337.82	
6,095.00	2.70	343.50	6,031.10	-186.19	611.29	-185.87	638.92	343.09	563,559.29	606,336.13	
6,189.00	2.60	341.40	6,125.00	-187.50	615.43	-187.18	643.27	343.08	563,563.43	606,334.82	
6,282.00	2.60	336.60	6,217.90	-189.02	619.37	-188.69	647.47	343.06	563,567.37	606,333.31	
6,376.00	2.50	338.10	6,311.81	-190.63	623.23	-190.30	651.63	343.02	563,571.23	606,331.70	
6,470.00	2.50	336.50	6,405.72	-192.21	627.01	-191.89	655.71	342.98	563,575.01	606,330.11	
6,563.00	2.20	336.50	6,498.64	-193.74	630.51	-193.41	659.50	342.95	563,578.51	606,328.59	
6,657.00	1.90	338.70	6,592.58	-195.02	633.61	-194.69	662.85	342.92	563,581.61	606,327.31	
6,750.00	1.90	336.00	6,685.53	-196.21	636.46	-195.88	665.92	342.89	563,584.46	606,326.12	
6,844.00	1.70	337.30	6,779.48	-197.39	639.17	-197.05	668.85	342.87	563,587.17	606,324.95	
6,937.00	1.60	327.30	6,872.44	-198.62	641.53	-198.29	671.48	342.82	563,589.53	606,323.71	



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 125H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3268.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3268.50usft
Well:	No. 125H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-67'-17908', Proj. 17985'	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)	
7,030.00	1.60	322.80	6,965.41	-200.11	643.66	-199.77	673.95	342.76	563,591.66	606,322.23	
7,124.00	1.40	315.10	7,059.38	-201.71	645.52	-201.38	676.20	342.67	563,593.52	606,320.62	
7,206.00	1.30	319.40	7,141.35	-203.03	646.93	-202.69	677.94	342.60	563,594.93	606,319.31	
7,313.00	3.00	75.70	7,248.30	-201.10	648.55	-200.76	678.91	342.80	563,596.55	606,321.24	
7,407.00	15.80	87.90	7,340.85	-185.87	649.63	-185.53	675.60	344.06	563,597.63	606,336.47	
7,500.00	25.70	79.60	7,427.73	-153.30	653.74	-152.95	671.40	346.83	563,601.74	606,369.05	
7,593.00	34.20	79.60	7,508.24	-107.68	662.12	-107.33	670.76	350.79	563,610.12	606,414.67	
7,686.00	41.20	85.10	7,581.80	-51.37	669.46	-51.02	671.40	355.64	563,617.46	606,470.98	
7,780.00	49.50	89.10	7,647.81	15.34	672.67	15.69	672.86	1.34	563,620.67	606,537.69	
7,874.00	57.70	89.50	7,703.55	90.93	673.58	91.28	679.74	7.72	563,621.58	606,613.28	
7,968.00	63.00	90.90	7,750.04	172.59	673.27	172.94	695.13	14.41	563,621.27	606,694.94	
8,060.00	67.50	91.60	7,788.54	256.10	671.44	256.45	718.75	20.90	563,619.44	606,778.45	
8,153.00	81.50	90.60	7,813.33	345.48	669.75	345.83	753.77	27.31	563,617.75	606,867.83	
8,247.00	88.90	90.40	7,821.19	439.08	668.94	439.43	800.36	33.30	563,616.94	606,961.43	
8,340.00	86.80	91.80	7,824.68	531.99	667.15	532.34	853.51	38.59	563,615.15	607,054.34	
8,433.00	86.00	92.80	7,830.52	624.73	663.43	625.08	911.51	43.30	563,611.43	607,147.08	
8,527.00	86.10	93.50	7,837.00	718.37	658.27	718.71	974.61	47.51	563,606.27	607,240.71	
8,620.00	85.40	90.90	7,843.89	811.04	654.71	811.38	1,042.59	51.10	563,602.71	607,333.38	
8,714.00	87.80	89.50	7,849.47	904.86	654.39	905.20	1,116.97	54.14	563,602.39	607,427.20	
8,808.00	88.00	89.90	7,852.91	998.80	654.88	999.14	1,194.63	56.76	563,602.88	607,521.14	
8,901.00	87.20	89.80	7,856.81	1,091.71	655.12	1,092.06	1,273.49	59.04	563,603.12	607,614.06	
8,994.00	88.00	90.00	7,860.70	1,184.63	655.29	1,184.97	1,354.09	61.06	563,603.29	607,706.97	
9,088.00	88.40	90.20	7,863.65	1,278.58	655.12	1,278.93	1,436.95	62.88	563,603.12	607,800.93	
9,181.00	89.20	91.40	7,865.60	1,371.55	653.82	1,371.90	1,519.73	64.52	563,601.82	607,893.90	
9,275.00	89.10	91.60	7,866.99	1,465.51	651.36	1,465.85	1,604.06	66.04	563,599.36	607,987.85	
9,368.00	89.20	91.80	7,868.37	1,558.46	648.60	1,558.80	1,688.36	67.41	563,596.60	608,080.80	
9,461.00	89.00	92.50	7,869.84	1,651.39	645.12	1,651.72	1,773.24	68.67	563,593.12	608,173.72	



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 125H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3268.50usft
Site:	Leatherneck 3029 Fed Com.	MD Reference:	Well @ 3268.50usft
Well:	No. 125H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-67'-17908', Proj. 17985'	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)	
9,554.00	88.10	90.90	7,872.19	1,744.31	642.36	1,744.65	1,859.15	69.79	563,590.36	608,266.65	
9,648.00	89.00	91.00	7,874.57	1,838.27	640.80	1,838.61	1,947.07	70.79	563,588.80	608,360.61	
9,741.00	90.00	91.90	7,875.38	1,931.24	638.45	1,931.57	2,034.35	71.71	563,586.45	608,453.57	
9,835.00	90.10	92.50	7,875.30	2,025.17	634.84	2,025.50	2,122.66	72.60	563,582.84	608,547.50	
9,928.00	88.80	90.70	7,876.19	2,118.12	632.24	2,118.45	2,210.79	73.38	563,580.24	608,640.45	
10,022.00	88.80	89.90	7,878.16	2,212.10	631.75	2,212.43	2,300.86	74.06	563,579.75	608,734.43	
10,115.00	88.80	90.20	7,880.11	2,305.08	631.67	2,305.41	2,390.38	74.68	563,579.67	608,827.41	
10,208.00	87.30	88.50	7,883.27	2,398.01	632.72	2,398.34	2,480.40	75.22	563,580.72	608,920.34	
10,302.00	87.00	88.50	7,887.94	2,491.86	635.18	2,492.20	2,571.87	75.70	563,583.18	609,014.20	
10,395.00	87.20	88.90	7,892.65	2,584.72	637.29	2,585.05	2,662.45	76.15	563,585.29	609,107.05	
10,489.00	87.10	89.00	7,897.32	2,678.59	639.01	2,678.92	2,754.08	76.58	563,587.01	609,200.92	
10,582.00	87.10	88.60	7,902.03	2,771.44	640.95	2,771.78	2,844.92	76.98	563,588.95	609,293.78	
10,676.00	86.60	88.20	7,907.19	2,865.26	643.57	2,865.60	2,936.98	77.34	563,591.57	609,387.60	
10,769.00	87.00	88.50	7,912.39	2,958.08	646.25	2,958.42	3,028.18	77.68	563,594.25	609,480.42	
10,863.00	87.90	88.10	7,916.57	3,051.94	649.03	3,052.28	3,120.52	78.00	563,597.03	609,574.28	
10,957.00	88.40	87.80	7,919.60	3,145.83	652.39	3,146.17	3,213.10	78.29	563,600.39	609,668.17	
11,050.00	89.70	89.70	7,921.14	3,238.79	654.42	3,239.13	3,304.58	78.58	563,602.42	609,761.13	
11,143.00	90.80	90.20	7,920.74	3,331.79	654.50	3,332.13	3,395.80	78.89	563,602.50	609,854.13	
11,237.00	91.70	89.90	7,918.69	3,425.76	654.42	3,426.11	3,488.05	79.19	563,602.42	609,948.11	
11,330.00	90.10	91.00	7,917.23	3,518.74	653.69	3,519.09	3,579.29	79.48	563,601.69	610,041.09	
11,424.00	89.60	91.70	7,917.47	3,612.72	651.47	3,613.06	3,671.32	79.78	563,599.47	610,135.06	
11,521.00	87.70	91.20	7,919.76	3,709.66	649.02	3,710.00	3,766.34	80.08	563,597.02	610,232.00	
11,615.00	86.00	90.70	7,924.92	3,803.50	647.46	3,803.84	3,858.55	80.34	563,595.46	610,325.84	
11,708.00	86.70	90.10	7,930.84	3,896.31	646.82	3,896.65	3,949.96	80.58	563,594.82	610,418.65	
11,801.00	87.80	90.00	7,935.31	3,989.20	646.74	3,989.54	4,041.62	80.79	563,594.74	610,511.54	
11,895.00	88.80	89.90	7,938.09	4,083.16	646.82	4,083.49	4,134.40	81.00	563,594.82	610,605.49	
11,989.00	89.30	89.50	7,939.65	4,177.14	647.31	4,177.48	4,227.33	81.19	563,595.31	610,699.48	



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 125H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3268.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3268.50usft
Well:	No. 125H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-67'-17908', Proj. 17985'	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)	
12,082.00	90.00	88.90	7,940.22	4,270.13	648.61	4,270.47	4,319.44	81.36	563,596.61	610,792.47	
12,174.00	88.20	89.30	7,941.67	4,362.10	650.05	4,362.44	4,410.61	81.52	563,598.05	610,884.44	
12,268.00	87.90	89.90	7,944.86	4,456.04	650.71	4,456.38	4,503.64	81.69	563,598.71	610,978.38	
12,361.00	88.70	89.30	7,947.62	4,549.00	651.36	4,549.34	4,595.73	81.85	563,599.36	611,071.34	
12,454.00	89.50	88.50	7,949.08	4,641.97	653.14	4,642.31	4,688.03	81.99	563,601.14	611,164.31	
12,548.00	90.00	88.20	7,949.49	4,735.93	655.85	4,736.27	4,781.46	82.12	563,603.85	611,258.27	
12,641.00	90.10	87.80	7,949.41	4,828.87	659.10	4,829.21	4,873.98	82.23	563,607.10	611,351.21	
12,735.00	88.10	88.20	7,950.89	4,922.79	662.38	4,923.14	4,967.50	82.34	563,610.38	611,445.14	
12,828.00	87.20	88.10	7,954.70	5,015.66	665.38	5,016.01	5,059.95	82.44	563,613.38	611,538.01	
12,922.00	87.30	87.80	7,959.21	5,109.49	668.73	5,109.84	5,153.42	82.54	563,616.73	611,631.84	
13,015.00	87.70	87.10	7,963.27	5,202.31	672.87	5,202.66	5,245.99	82.63	563,620.87	611,724.66	
13,109.00	88.60	88.70	7,966.30	5,296.19	676.31	5,296.55	5,339.55	82.72	563,624.31	611,818.55	
13,203.00	89.60	90.40	7,967.78	5,390.17	677.05	5,390.53	5,432.88	82.84	563,625.05	611,912.53	
13,296.00	89.00	91.30	7,968.92	5,483.15	675.67	5,483.51	5,524.98	82.98	563,623.67	612,005.51	
13,389.00	88.10	93.00	7,971.27	5,576.06	672.18	5,576.41	5,616.77	83.13	563,620.18	612,098.41	
13,483.00	88.10	92.30	7,974.39	5,669.91	667.84	5,670.26	5,709.45	83.28	563,615.84	612,192.26	
13,576.00	88.30	91.80	7,977.31	5,762.80	664.51	5,763.15	5,801.33	83.42	563,612.51	612,285.15	
13,669.00	88.40	91.10	7,979.99	5,855.73	662.16	5,856.08	5,893.40	83.55	563,610.16	612,378.08	
13,762.00	88.50	90.70	7,982.50	5,948.69	660.70	5,949.04	5,985.61	83.66	563,608.70	612,471.04	
13,856.00	88.80	89.90	7,984.72	6,042.66	660.21	6,043.01	6,078.96	83.77	563,608.21	612,565.01	
13,949.00	89.40	89.60	7,986.18	6,135.65	660.61	6,135.99	6,171.45	83.86	563,608.61	612,657.99	
14,043.00	89.60	88.80	7,987.00	6,229.63	661.93	6,229.98	6,265.05	83.94	563,609.93	612,751.98	
14,136.00	90.80	89.70	7,986.67	6,322.62	663.14	6,322.97	6,357.65	84.01	563,611.14	612,844.97	
14,229.00	91.70	91.10	7,984.64	6,415.59	662.49	6,415.94	6,450.05	84.10	563,610.49	612,937.94	
14,323.00	89.80	92.10	7,983.41	6,509.55	659.87	6,509.89	6,543.25	84.21	563,607.87	613,031.89	
14,416.00	89.20	91.50	7,984.23	6,602.50	656.95	6,602.84	6,635.44	84.32	563,604.95	613,124.84	
14,510.00	89.00	91.20	7,985.70	6,696.46	654.73	6,696.80	6,728.73	84.42	563,602.73	613,218.80	



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 125H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3268.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3268.50usft
Well:	No. 125H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-67'-17908', Proj. 17985'	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)	
14,603.00	89.30	90.70	7,987.08	6,789.44	653.19	6,789.78	6,821.13	84.50	563,601.19	613,311.78	
14,697.00	89.40	90.50	7,988.15	6,883.43	652.21	6,883.77	6,914.60	84.59	563,600.21	613,405.77	
14,790.00	89.40	90.10	7,989.12	6,976.42	651.72	6,976.76	7,007.14	84.66	563,599.72	613,498.76	
14,884.00	88.40	88.60	7,990.93	7,070.39	652.79	7,070.73	7,100.80	84.73	563,600.79	613,592.73	
14,978.00	88.10	88.10	7,993.80	7,164.31	655.49	7,164.65	7,194.57	84.77	563,603.49	613,686.65	
15,071.00	87.90	87.80	7,997.04	7,257.19	658.82	7,257.54	7,287.38	84.81	563,606.82	613,779.54	
15,165.00	89.60	88.80	7,999.09	7,351.12	661.61	7,351.47	7,381.18	84.86	563,609.61	613,873.47	
15,258.00	90.90	89.70	7,998.69	7,444.11	662.82	7,444.46	7,473.90	84.91	563,610.82	613,966.46	
15,352.00	91.50	89.30	7,996.72	7,538.08	663.64	7,538.43	7,567.59	84.97	563,611.64	614,060.43	
15,445.00	91.60	88.20	7,994.20	7,631.02	665.67	7,631.37	7,660.35	85.01	563,613.67	614,153.37	
15,494.00	91.90	88.20	7,992.71	7,679.98	667.21	7,680.33	7,709.25	85.04	563,615.21	614,202.33	
15,587.00	89.60	90.60	7,991.49	7,772.95	668.18	7,773.30	7,801.96	85.09	563,616.18	614,295.30	
15,681.00	90.10	90.00	7,991.74	7,866.95	667.69	7,867.30	7,895.58	85.15	563,615.69	614,389.30	
15,774.00	89.40	91.40	7,992.14	7,959.94	666.55	7,960.29	7,988.14	85.21	563,614.55	614,482.29	
15,868.00	89.50	91.70	7,993.04	8,053.90	664.01	8,054.25	8,081.57	85.29	563,612.01	614,576.25	
15,961.00	90.30	91.80	7,993.21	8,146.86	661.17	8,147.20	8,173.99	85.36	563,609.17	614,669.20	
16,055.00	90.70	91.40	7,992.39	8,240.82	658.55	8,241.16	8,267.43	85.43	563,606.55	614,763.16	
16,148.00	89.30	92.30	7,992.39	8,333.77	655.54	8,334.11	8,359.85	85.50	563,603.54	614,856.11	
16,242.00	87.80	92.90	7,994.76	8,427.64	651.28	8,427.98	8,453.11	85.58	563,599.28	614,949.98	
16,335.00	88.00	92.20	7,998.17	8,520.49	647.15	8,520.83	8,545.37	85.66	563,595.15	615,042.83	
16,428.00	87.80	91.90	8,001.58	8,613.37	643.82	8,613.70	8,637.73	85.73	563,591.82	615,135.70	
16,521.00	88.30	91.90	8,004.74	8,706.26	640.74	8,706.60	8,730.14	85.79	563,588.74	615,228.60	
16,615.00	88.50	91.60	8,007.37	8,800.18	637.87	8,800.52	8,823.60	85.85	563,585.87	615,322.52	
16,708.00	89.40	91.60	8,009.07	8,893.13	635.28	8,893.47	8,916.13	85.91	563,583.28	615,415.47	
16,801.00	89.70	91.60	8,009.80	8,986.09	632.68	8,986.43	9,008.67	85.97	563,580.68	615,508.43	
16,895.00	89.80	91.60	8,010.21	9,080.06	630.05	9,080.39	9,102.22	86.03	563,578.05	615,602.39	
16,988.00	90.20	91.30	8,010.21	9,173.03	627.70	9,173.36	9,194.81	86.09	563,575.70	615,695.36	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 125H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3268.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3268.50usft
Well:	No. 125H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-67'-17908', Proj. 17985'	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)	
17,082.00	90.20	91.10	8,009.89	9,267.01	625.73	9,267.34	9,288.44	86.14	563,573.73	615,789.34	
17,175.00	90.60	91.60	8,009.24	9,359.98	623.54	9,360.31	9,381.05	86.19	563,571.54	615,882.31	
17,268.00	87.70	91.80	8,010.62	9,452.92	620.78	9,453.25	9,473.61	86.24	563,568.78	615,975.25	
17,362.00	86.20	92.20	8,015.62	9,546.73	617.51	9,547.05	9,567.00	86.30	563,565.51	616,069.05	
17,455.00	86.50	91.60	8,021.54	9,639.49	614.43	9,639.81	9,659.38	86.35	563,562.43	616,161.81	
17,549.00	87.20	91.30	8,026.70	9,733.32	612.06	9,733.64	9,752.87	86.40	563,560.06	616,255.64	
17,642.00	87.40	90.80	8,031.08	9,826.20	610.35	9,826.52	9,845.46	86.45	563,558.35	616,348.52	
17,736.00	87.90	90.90	8,034.94	9,920.11	608.96	9,920.43	9,939.11	86.49	563,556.96	616,442.43	
17,830.00	87.90	90.80	8,038.38	10,014.04	607.57	10,014.36	10,032.77	86.53	563,555.57	616,536.36	
17,908.00	88.50	90.90	8,040.83	10,091.99	606.41	10,092.31	10,110.51	86.56	563,554.41	616,614.31	
Last Survey: 17908' MD											
17,985.00	88.50	90.90	8,042.85	10,168.96	605.20	10,169.27	10,187.27	86.59	563,553.20	616,691.28	
PTB: 17985' MD											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
503.00	502.90	4.30	4.22	Pro MWD First Survey: 503' MD
17,908.00	8,040.83	606.41	10,092.31	Last Survey: 17908' MD
17,985.00	8,042.85	605.20	10,169.27	PTB: 17985' MD