

State of New Mexico  
Energy, Minerals and Natural Resources Department

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**Michelle Lujan**  
Grisham Governor

**Sarah Cottrell Propst**  
Cabinet Secretary

**Todd E. Leahy, JD, PhD**  
Deputy Secretary

**Adrienne Sandoval**, Division Director  
Oil Conservation Division



*10/30/2020*

**Operator Notice Regarding**  
**C-104 Denial and Request for Information**  
*30-015-45986 LEATHERNECK 3029 FEDERAL COM #136H*

OCD is providing notice to operators that it will deny your C-104 – *Request for Allowable and Authorization to Transport* if it fails to provide complete and accurate information, including:

Test Allowable, New Well and Recompleted Well

*Please review/amend attachment(s):  
Mark C-104 RT HAS EXPIRED:  
10/27/2020*

- ☐ C-103 (or BLM equivalent) for all casing strings
  - ☐ Spud Notice
  - ☐ Surface Casing
  - ☐ Intermediate Casing (if applicable)
  - ☐ Additional Intermediate Casing (if applicable)
  - ☐ Production Casing or Liner

*Please submit a C-104 NW with  
the following below.*

☐ Applicable Order (NSL, NSP, Other \_\_\_\_\_)

☐ Deviation Survey for Vertical Wells

☒ Directional Survey

☒ C-102 (As-Drilled Plat for Horizontal Well)

New Well and Recompleted Well Only

☒ C-103 Completion Sundry (or BLM equivalent) *Approved Sundry missing*

☒ C-105 Completion Report (or BLM equivalent) *Missing BLM REVISED approval copy/review highlighted fields*

☐ All Logs Run on Well

The sale or transport of product without an approved C-104 violates the Oil and Gas Act and the implementing rules, including 19.15.7.15 and 19.15.16.19 NMAC. OCD determines that your C-104 is incomplete or inaccurate, it will give you notice to resubmit your C-104 within 30 days. Failure to comply with this notice may result in enforcement action.

**If you have any questions, please contact the local OCD District Office.**

*Once Complete, re-submit through e docs asap. Thank you.*

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources

NMOCD-REC'D: 9/09/2020

Form C-104  
Revised August 1, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

### I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address MATADOR PRODUCTION COMPANY 5400 LBJ Freeway, Ste 1500 Dallas, TX 75240		<sup>2</sup> OGRID Number 228937
		<sup>3</sup> Reason for Filing Code/ Effective Date RT
<sup>4</sup> API Number 30 - 0 15- 45986	<sup>5</sup> Pool Name AVALON; BONE SPRING, EAST	<sup>6</sup> Pool Code 3713
<sup>7</sup> Property Code 326053	<sup>8</sup> Property Name LEATHERNECK 3029 FEDERAL COM	<sup>9</sup> Well Number 136H

### II. <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
2	30	20S	29E		1540	N	236	W	EDDY

### <sup>11</sup> Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	29	20S	29E		1721	N	36	E	EDDY
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

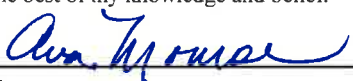
### III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
151618	ENTERPRISE FIELD SERVICES, LLC 8111 WESTCHESTER DRIVE, DALLAS, TX 75225	O
214984	PLAINS MARKETING, L.P. 17304 PRESTON RD. STE 140, DALLAS, TX 75252	G

### IV. Well Completion Data

<sup>21</sup> Spud Date	<sup>22</sup> Ready Date	<sup>23</sup> TD	<sup>24</sup> PBDT	<sup>25</sup> Perforations	<sup>26</sup> DHC, MC
11/25/29	07/27/20	9098'/19136'	19105'	9120' - 18990'	----
<sup>27</sup> Hole Size	<sup>28</sup> Casing & Tubing Size	<sup>29</sup> Depth Set	<sup>30</sup> Sacks Cement		
SURF: 26"	20" 94.0# J55	395'	1217 C 1.33		
INT 1: 17 1/2"	13 3/8 54.5# J55	1195'	523 C 1.33		
INT2: 12 1/4"	9 5/8" 40# J55	3112' Stage Tool 1249'	446 C 1.38 548 C 1.73		
PROD: 8 3/4"	5 1/2" 20# P110	19111'	2504 TXI 1.35		

### V. Well Test Data

<sup>31</sup> Date New Oil	<sup>32</sup> Gas Delivery Date	<sup>33</sup> Test Date	<sup>34</sup> Test Length	<sup>35</sup> Tbg. Pressure	<sup>36</sup> Csg. Pressure
<sup>37</sup> Choke Size	<sup>38</sup> Oil	<sup>39</sup> Water	<sup>40</sup> Gas		<sup>41</sup> Test Method
<sup>42</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Ava Monroe			Approved by: DENIED		
Title: Sr. Regulatory Analyst			Title:		
E-mail Address: amonroe@matadorresources.com			Approval Date:		
Date: 09/09/20		Phone: 972-371-5218		RT EXPIRED: 10/27/2020	

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

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. Francis Dr.  
Santa Fe, NM 87505

## WELL LOCATION AND ACREAGE DEDICATION PLAT

As drilled

<sup>1</sup> API Number 30-015-45986	<sup>2</sup> Pool Code 3713	<sup>3</sup> Pool Name AVALON; BONE SPRING, EAST
<sup>4</sup> Property Code 326053	<sup>5</sup> Property Name LEATHERNECK 3029 FED COM	<sup>6</sup> Well Number 136H
<sup>7</sup> OGRID No. 228937	<sup>8</sup> Operator Name MATADOR PRODUCTION COMPANY	<sup>9</sup> Elevation 3240'

<sup>10</sup>Surface Location

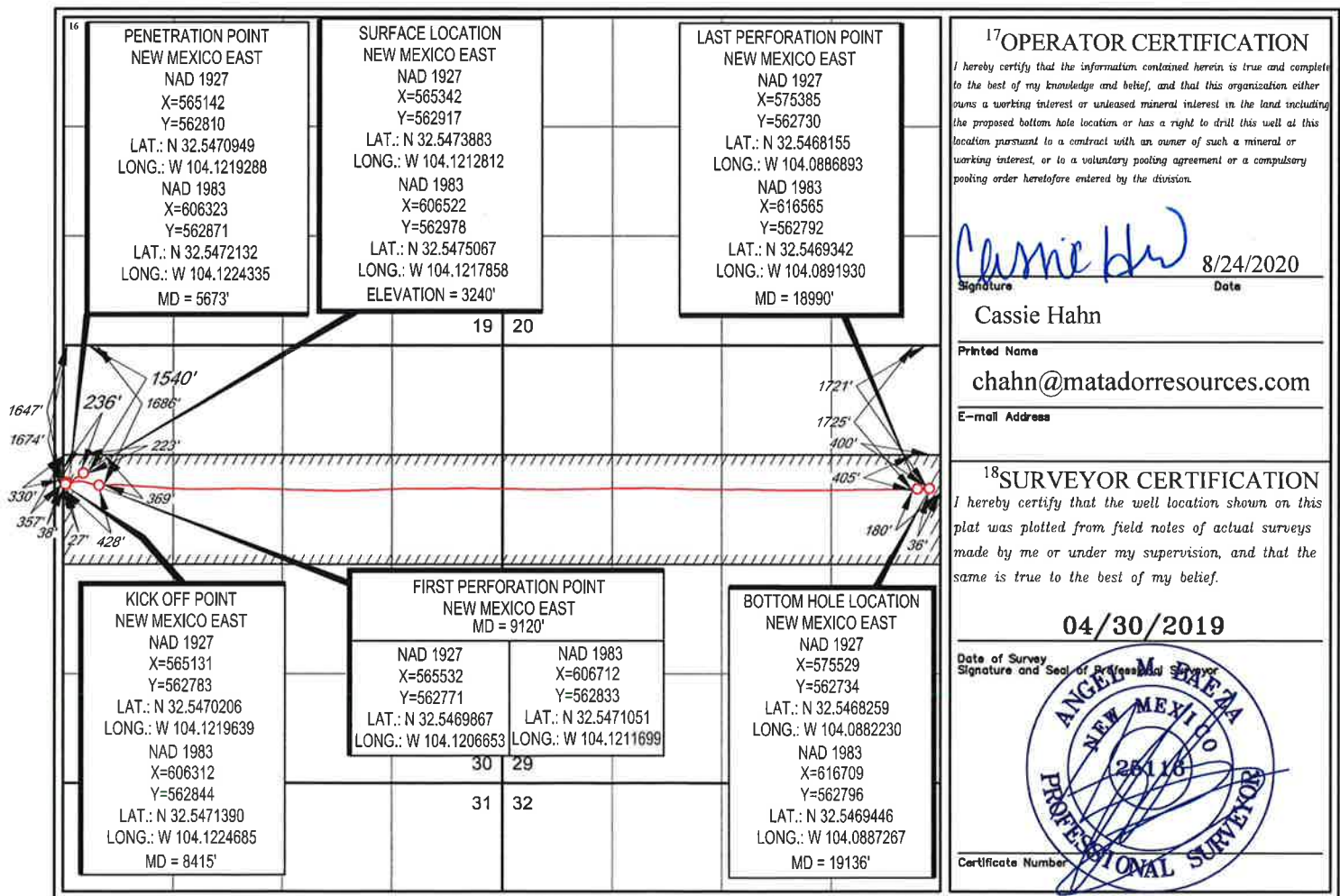
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	30	20-S	29-E	-	1540'	NORTH	236'	WEST	EDDY

<sup>11</sup>Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	29	20-S	29-E	-	1721'	NORTH	36'	EAST	EDDY

<sup>12</sup> Dedicated Acres 316.84	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
---	-------------------------------	----------------------------------	-------------------------

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.

<sup>17</sup>OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Cassie Hahn*  
Signature

8/24/2020  
Date

Cassie Hahn

Printed Name

chahn@matadorresources.com

E-mail Address

<sup>18</sup>SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

04/30/2019

Date of Survey  
Signature and Seal of Professional Surveyor



Certificate Number

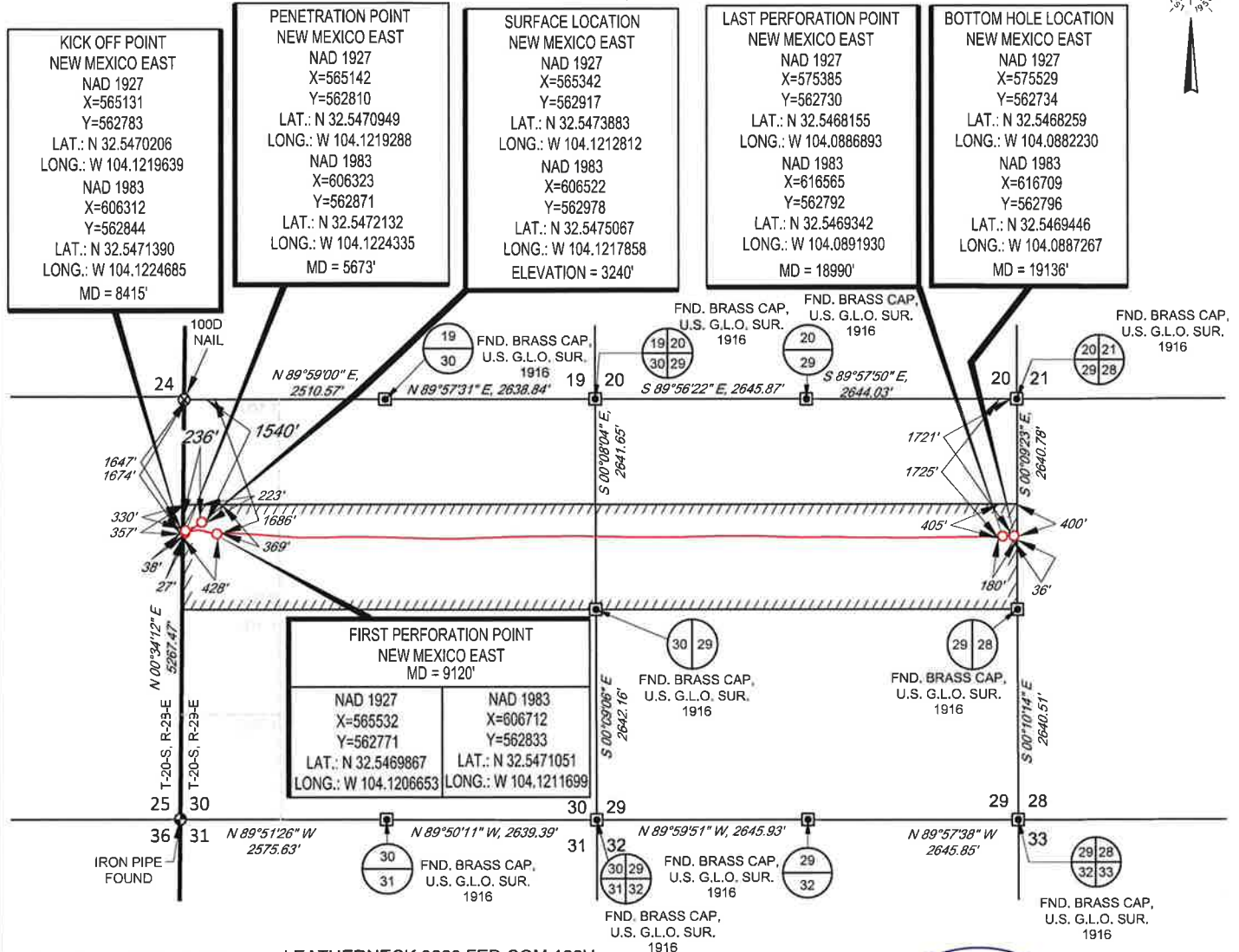
As-drilled

SCALE: 1" = 2000'

0' 1000' 2000'



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



LEASE NAME & WELL NO.: LEATHERNECK 3029 FED COM 136H  
 SECTION 30 TWP 20-S RGE 29-E SURVEY N.M.P.M.  
 COUNTY EDDY STATE NM ELEVATION 3240'  
 DESCRIPTION 1540' 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  
AUGUST 20, 2020

LEATHERNECK 3029  
FED COM 136H

REVISION:

DATE: 08/20/2020

AD\_LEATHERNECK\_3029\_FED\_COM\_136H

DRAWN BY: H.B.

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.





I Andrew Meadville certify that I am employed by VES Survey International. That I did on the day(s) of 11/26/19 through 11/26/19 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 357.00 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 Production for the Leatherneck 3029 Fed Com Well # 136H API # 30-015-45986 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 VES Survey International.

A handwritten signature in blue ink, appearing to read "A. Meadville", is written over a horizontal line.

Andrew Meadville  
Service Technician  
VES Survey International



Company: MATADOR PRODUCTION  
 Lease/Well: LEATHERNECK 3029 FEDERAL COM/136H  
 API: 30-015-45986  
 Rig Name: PATTERSON 809  
 State/County: NEW MEXICO/EDDY  
 Latitude: 32.55, Longitude: -104.12  
 GRID North is 0.11 Degrees East of True North  
 VS-Azi: 0.00 Degrees



Depth Reference : RKB 28 FEET

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: msgyro\_run01-01-de\_01.ut

Minimum Curvature Method

Report Date/Time: 11/27/2019 / 09:08

VES Survey International

Midland, TX

432-563-5444

Surveyor: Andrew Meadville

Leatherneck 3029 Federal Com 136H / API: 30-015-45986

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	****
45.50	0.12	70.61	45.50	0.02	0.05	0.02	0.05	70.61	0.27
139.00	0.24	260.42	139.00	0.02	-0.05	0.02	0.06	287.45	0.39
232.50	0.53	357.68	232.50	0.42	-0.26	0.42	0.50	327.82	0.65
326.00	0.51	1.45	325.99	1.27	-0.27	1.27	1.30	347.97	0.04
357.00	0.57	18.58	356.99	1.55	-0.22	1.55	1.57	351.99	0.55

HORIZONTAL DISPLACEMENT IS  
 1.57 FEET AT 351.99 DEGREES



**Leatherneck 3029 Fed Com No. 136H**  
**Eddy County, NM**

**February 07, 2020**

**Job No. LNM5551319**

*30-015-45986*

**ORIGINAL**

**Certified Report**



PRODIRECTIONAL

## Survey Certification Letter

February 07, 2020



Operator Name: Matador Resources  
Well Name: Leatherneck 3029 Fed Com No. 136H  
County/Parish: Eddy County,  
State: NM  
Rig Name: Patterson 809  
Job Number: LNM5551319

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	500' MD – 19,059' MD	19,136' MD	12/02/19 – 01/23/20	MWD

Sincerely,

Mike Coats  
Regulatory Specialist  
Professional Directional

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

[prodirectional.com](http://prodirectional.com)





# **Matador Resources**

**Eddy County, NM**

**Leatherneck 3029 Fed Com**

**No. 136H**

**OH**

**Survey: ProDirectional**

## **Survey Report**

**06 February, 2020**





# ProDirectional Survey Report



Company: Matador Resources  
Project: Eddy County, NM (NAD83)  
Site: Leatherneck 3029 Fed Com  
Well: No. 136H  
Wellbore: OH  
Design: MWD-45.5'-19059', PTB: 19136'

Local Co-ordinate Reference: Well No. 136H  
TVD Reference: Well @ 3268.50usft  
MD Reference: Well @ 3268.50usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: WellPlanner1

Project Eddy County, NM (NAD83)

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

System Datum: Mean Sea Level

Site Leatherneck 3029 Fed Com

Site Position:		Northing:	562,948.00 usft	Latitude:	32° 32' 50.724 N
From:	Map	Easting:	606,522.00 usft	Longitude:	104° 7' 18.431 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.11 °

Well No. 136H, LNM5551319

Well Position	+N/-S	0.00 usft	Northing:	562,978.00 usft	Latitude:	32° 32' 51.021 N
	+E/-W	0.00 usft	Easting:	606,522.00 usft	Longitude:	104° 7' 18.430 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	11/21/2019	7.15	60.28	47,926.30

Design MWD-45.5'-19059', PTB: 19136'

## 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  
Project: Eddy County, NM (NAD83)  
Site: Leatherneck 3029 Fed Com  
Well: No. 136H  
Wellbore: OH  
Design: MWD-45.5'-19059', PTB: 19136'

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:

Well No. 136H  
Well @ 3268.50usft  
Well @ 3268.50usft  
Grid  
Minimum Curvature  
WellPlanner1

Survey Program Date 2/6/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
45.50	357.00	Survey #1 (OH)	GYRO-NS-CT	OWSG XYZ Accel with XY Static and Continuous Gyro
500.00	19,136.00	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	562,978.00	606,522.00
45.50	0.12	70.61	45.50	0.04	0.02	0.04	0.05	70.61	562,978.02	606,522.04
139.00	0.24	260.42	139.00	-0.06	0.02	-0.06	0.06	285.75	562,978.02	606,521.94
232.50	0.53	357.68	232.50	-0.27	0.42	-0.27	0.49	327.32	562,978.42	606,521.73
326.00	0.51	1.45	325.99	-0.27	1.26	-0.27	1.29	347.79	562,979.26	606,521.73
357.00	0.57	18.58	356.99	-0.22	1.55	-0.22	1.56	351.88	562,979.55	606,521.78
500.00	3.40	160.50	499.92	1.42	-1.78	1.42	2.28	141.33	562,976.22	606,523.42
Pro MWD First Survey: 500' MD										
593.00	2.20	180.60	592.81	2.33	-6.16	2.32	6.59	159.34	562,971.84	606,524.32
686.00	0.80	271.00	685.78	1.66	-7.94	1.66	8.11	168.21	562,970.06	606,523.66
779.00	0.80	27.20	778.78	1.31	-7.35	1.30	7.46	169.94	562,970.65	606,523.30
874.00	1.50	80.80	873.76	2.84	-6.56	2.83	7.14	156.63	562,971.44	606,524.83
970.00	3.00	97.60	969.68	6.57	-6.69	6.56	9.37	135.54	562,971.31	606,528.56
1,065.00	1.70	135.60	1,064.61	10.02	-8.03	10.02	12.83	128.70	562,969.97	606,532.02
1,123.00	1.50	194.30	1,122.59	10.43	-9.38	10.43	14.02	131.95	562,968.62	606,532.43
1,256.00	2.00	199.90	1,255.53	9.22	-13.24	9.21	16.13	145.19	562,964.76	606,531.21
1,351.00	3.70	198.80	1,350.40	7.67	-17.71	7.66	19.29	156.61	562,960.29	606,529.66
1,447.00	4.80	221.30	1,446.15	4.02	-23.66	4.01	23.99	170.38	562,954.34	606,526.01
1,542.00	4.60	224.00	1,540.83	-1.25	-29.38	-1.26	29.41	182.46	562,948.62	606,520.74
1,638.00	4.20	244.90	1,636.55	-7.10	-33.64	-7.12	34.39	191.95	562,944.36	606,514.88
1,733.00	3.80	265.40	1,731.32	-13.39	-35.37	-13.41	37.83	200.76	562,942.63	606,508.59



# ProDirectional Survey Report



Company: Matador Resources  
Project: Eddy County, NM (NAD83)  
Site: Leatherneck 3029 Fed Com  
Well: No. 136H  
Wellbore: OH  
Design: MWD-45.5'-19059', PTB: 19136'

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:

Well No. 136H  
Well @ 3268.50usft  
Well @ 3268.50usft  
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)	
1,829.00	4.00	267.40	1,827.10	-19.91	-35.78	-19.92	40.95	209.11	562,942.22	606,502.08	
1,924.00	3.90	265.20	1,921.87	-26.43	-36.20	-26.45	44.83	216.16	562,941.80	606,495.55	
2,015.00	4.00	264.80	2,012.66	-32.68	-36.75	-32.70	49.19	221.66	562,941.25	606,489.30	
2,143.00	3.60	263.90	2,140.38	-41.12	-37.58	-41.14	55.72	227.59	562,940.42	606,480.86	
2,270.00	4.50	245.00	2,267.06	-49.60	-40.11	-49.62	63.80	231.05	562,937.89	606,472.38	
2,397.00	5.40	247.50	2,393.59	-59.63	-44.50	-59.66	74.43	233.28	562,933.50	606,462.34	
2,525.00	6.90	239.90	2,520.85	-71.85	-50.66	-71.87	87.93	234.82	562,927.34	606,450.13	
2,652.00	7.50	241.10	2,646.85	-85.70	-58.49	-85.73	103.78	235.70	562,919.51	606,436.27	
2,748.00	7.60	237.70	2,742.02	-96.55	-64.91	-96.58	116.37	236.10	562,913.09	606,425.42	
2,875.00	5.80	236.40	2,868.14	-108.99	-72.95	-109.03	131.18	236.21	562,905.05	606,412.97	
3,052.00	5.90	228.20	3,044.23	-123.21	-83.96	-123.26	149.14	235.74	562,894.04	606,398.74	
3,144.00	6.00	231.90	3,135.73	-130.52	-90.08	-130.57	158.63	235.40	562,887.92	606,391.43	
3,239.00	2.80	231.60	3,230.44	-136.24	-94.59	-136.29	165.90	235.24	562,883.41	606,385.71	
3,335.00	3.60	233.20	3,326.29	-140.49	-97.85	-140.54	171.25	235.15	562,880.15	606,381.46	
3,431.00	2.80	232.50	3,422.14	-144.77	-101.08	-144.82	176.61	235.08	562,876.92	606,377.18	
3,526.00	2.80	231.30	3,517.02	-148.42	-103.95	-148.47	181.24	235.00	562,874.05	606,373.53	
3,622.00	2.50	232.70	3,612.92	-151.91	-106.68	-151.97	185.67	234.93	562,871.32	606,370.03	
3,717.00	2.60	232.10	3,707.83	-155.26	-109.26	-155.31	189.90	234.87	562,868.74	606,366.69	
3,813.00	2.50	230.40	3,803.73	-158.59	-111.93	-158.65	194.16	234.79	562,866.07	606,363.35	
3,909.00	2.10	227.40	3,899.65	-161.49	-114.46	-161.55	197.99	234.68	562,863.54	606,360.45	
4,005.00	3.00	271.50	3,995.57	-165.30	-115.58	-165.36	201.75	235.05	562,862.42	606,356.64	
4,100.00	3.70	281.40	4,090.41	-170.79	-114.91	-170.85	205.90	236.08	562,863.09	606,351.15	
4,196.00	3.70	283.80	4,186.21	-176.83	-113.56	-176.89	210.21	237.30	562,864.44	606,345.11	
4,291.00	3.60	287.90	4,281.01	-182.65	-111.91	-182.71	214.26	238.51	562,866.09	606,339.29	
4,387.00	3.60	291.60	4,376.82	-188.32	-109.88	-188.38	218.08	239.75	562,868.12	606,333.62	
4,482.00	3.30	293.00	4,471.65	-193.61	-107.71	-193.67	221.61	240.92	562,870.29	606,328.33	
4,578.00	3.10	296.40	4,567.50	-198.48	-105.48	-198.54	224.82	242.02	562,872.52	606,323.46	





# ProDirectional Survey Report



Company: Matador Resources  
Project: Eddy County, NM (NAD83)  
Site: Leatherneck 3029 Fed Com  
Well: No. 136H  
Wellbore: OH  
Design: MWD-45.5'-19059', PTB: 19136'

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:

Well No. 136H  
Well @ 3268.50usft  
Well @ 3268.50usft  
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)	
4,674.00	1.60	280.70	4,663.42	-202.13	-104.07	-202.18	227.39	242.76	562,873.93	606,319.82	
4,769.00	1.40	269.20	4,758.39	-204.59	-103.84	-204.64	229.48	243.09	562,874.16	606,317.36	
4,865.00	1.60	279.30	4,854.35	-207.09	-103.64	-207.14	231.62	243.42	562,874.36	606,314.86	
4,960.00	1.70	279.90	4,949.31	-209.78	-103.19	-209.84	233.84	243.81	562,874.81	606,312.16	
5,056.00	0.40	225.70	5,045.30	-211.42	-103.18	-211.48	235.31	243.99	562,874.82	606,310.52	
5,151.00	1.60	121.00	5,140.29	-210.52	-104.09	-210.58	234.90	243.70	562,873.91	606,311.42	
5,246.00	1.80	111.30	5,235.24	-208.00	-105.32	-208.05	233.19	243.15	562,872.68	606,313.95	
5,342.00	1.60	112.50	5,331.20	-205.35	-106.38	-205.41	231.32	242.62	562,871.62	606,316.59	
5,437.00	1.20	97.60	5,426.17	-203.14	-107.02	-203.20	229.66	242.23	562,870.98	606,318.80	
5,533.00	1.00	84.50	5,522.16	-201.31	-107.07	-201.37	228.06	242.00	562,870.93	606,320.63	
5,629.00	0.80	93.80	5,618.14	-199.81	-107.03	-199.87	226.72	241.83	562,870.97	606,322.13	
5,724.00	0.60	115.30	5,713.14	-198.70	-107.29	-198.75	225.86	241.64	562,870.71	606,323.25	
5,820.00	0.60	107.40	5,809.13	-197.76	-107.65	-197.82	225.22	241.44	562,870.35	606,324.18	
5,915.00	0.40	85.60	5,904.13	-196.96	-107.78	-197.01	224.57	241.32	562,870.22	606,324.99	
6,011.00	0.10	96.30	6,000.13	-196.54	-107.76	-196.60	224.19	241.27	562,870.24	606,325.40	
6,107.00	0.80	8.20	6,096.12	-196.36	-107.11	-196.42	223.72	241.40	562,870.89	606,325.58	
6,202.00	1.00	136.90	6,191.12	-195.70	-107.06	-195.76	223.12	241.33	562,870.94	606,326.24	
6,298.00	1.00	170.50	6,287.10	-194.99	-108.49	-195.05	223.19	240.92	562,869.51	606,326.95	
6,393.00	0.50	232.90	6,382.10	-195.18	-109.56	-195.24	223.88	240.70	562,868.44	606,326.76	
6,489.00	0.50	227.70	6,478.09	-195.83	-110.10	-195.88	224.70	240.66	562,867.90	606,326.12	
6,585.00	1.00	215.50	6,574.08	-196.62	-111.06	-196.68	225.87	240.55	562,866.94	606,325.32	
6,680.00	1.50	202.00	6,669.06	-197.57	-112.89	-197.63	227.60	240.26	562,865.11	606,324.37	
6,776.00	1.70	200.20	6,765.02	-198.53	-115.39	-198.59	229.68	239.84	562,862.61	606,323.41	
6,872.00	1.80	199.50	6,860.98	-199.52	-118.15	-199.59	231.93	239.38	562,859.85	606,322.41	
6,967.00	1.90	199.20	6,955.93	-200.54	-121.04	-200.60	234.29	238.89	562,856.96	606,321.40	
7,062.00	1.90	205.40	7,050.88	-201.73	-123.95	-201.79	236.82	238.44	562,854.05	606,320.21	
7,158.00	0.50	287.10	7,146.86	-202.81	-125.27	-202.88	238.43	238.31	562,852.73	606,319.12	



# ProDirectional Survey Report



Company: Matador Resources  
Project: Eddy County, NM (NAD83)  
Site: Leatherneck 3029 Fed Com  
Well: No. 136H  
Wellbore: OH  
Design: MWD-45.5'-19059', PTB: 19136'

Local Co-ordinate Reference: Well No. 136H  
TVD Reference: Well @ 3268.50usft  
MD Reference: Well @ 3268.50usft  
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)	
7,253.00	0.60	299.10	7,241.85	-203.64	-124.90	-203.71	238.95	238.49	562,853.10	606,318.29	
7,348.00	2.00	277.00	7,336.83	-205.72	-124.46	-205.79	240.50	238.84	562,853.54	606,316.21	
7,444.00	1.20	283.60	7,432.79	-208.36	-124.02	-208.43	242.53	239.25	562,853.98	606,313.57	
7,539.00	1.20	265.80	7,527.77	-210.32	-123.86	-210.39	244.14	239.51	562,854.14	606,311.61	
7,635.00	0.50	48.50	7,623.76	-211.01	-123.65	-211.08	244.63	239.64	562,854.35	606,310.92	
7,730.00	1.60	80.10	7,718.75	-209.39	-123.15	-209.46	242.98	239.55	562,854.85	606,312.54	
7,826.00	2.00	79.60	7,814.70	-206.43	-122.62	-206.49	240.15	239.30	562,855.38	606,315.51	
7,921.00	1.10	84.70	7,909.66	-203.89	-122.23	-203.95	237.78	239.06	562,855.77	606,318.05	
8,017.00	1.50	144.30	8,005.64	-202.24	-123.17	-202.30	236.85	238.67	562,854.83	606,319.70	
8,113.00	1.90	206.90	8,101.61	-202.22	-125.61	-202.29	238.11	238.16	562,852.39	606,319.71	
8,208.00	2.60	246.70	8,196.54	-204.91	-127.86	-204.98	241.59	238.04	562,850.14	606,317.02	
8,304.00	3.10	232.60	8,292.42	-208.97	-130.30	-209.04	246.33	238.06	562,847.70	606,312.96	
8,359.00	3.40	230.00	8,347.33	-211.40	-132.25	-211.47	249.42	237.98	562,845.75	606,310.53	
8,455.00	5.70	107.80	8,443.17	-209.04	-135.55	-209.11	249.20	237.05	562,842.45	606,312.89	
8,550.00	18.50	77.80	8,535.93	-189.72	-133.80	-189.79	232.21	234.82	562,844.20	606,332.21	
8,646.00	26.90	63.60	8,624.48	-155.30	-120.89	-155.37	196.86	232.11	562,857.11	606,366.63	
8,685.10	31.66	70.01	8,658.58	-137.73	-113.44	-137.79	178.48	230.54	562,864.56	606,384.21	
FTP: 8,685.1' MD											
8,742.00	39.00	76.70	8,704.99	-106.22	-104.20	-106.27	148.84	225.56	562,873.80	606,415.73	
8,837.00	46.20	89.20	8,775.00	-42.65	-96.82	-42.70	105.82	203.80	562,881.18	606,479.30	
8,933.00	53.00	106.50	8,837.46	29.15	-107.28	29.09	111.16	164.83	562,870.72	606,551.09	
9,029.00	62.00	106.90	8,888.98	106.63	-130.54	106.56	168.51	140.78	562,847.46	606,628.56	
9,124.00	72.40	94.20	8,925.88	192.45	-146.14	192.37	241.59	127.22	562,831.86	606,714.37	
9,220.00	75.90	83.00	8,952.17	284.59	-143.81	284.51	318.79	116.82	562,834.19	606,806.51	
9,315.00	78.90	88.20	8,972.90	376.98	-136.73	376.91	400.94	109.94	562,841.27	606,898.91	
9,351.00	80.30	91.70	8,979.40	412.38	-136.70	412.31	434.38	108.34	562,841.30	606,934.31	
9,410.00	84.50	94.70	8,987.21	470.75	-139.97	470.68	491.05	106.56	562,838.03	606,992.68	



ProDirectional  
Survey Report



Company: Matador Resources  
Project: Eddy County, NM (NAD83)  
Site: Leatherneck 3029 Fed Com  
Well: No. 136H  
Wellbore: OH  
Design: MWD-45.5'-19059', PTB: 19136'

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:  
Well No. 136H  
Well @ 3268.50usft  
Well @ 3268.50usft  
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)
9,506.00	88.30	94.40	94.40	8,993.23	566.25	-147.57	566.17	585.09	104.61	562,830.43	607,088.17
9,602.00	89.90	94.10	94.10	8,994.74	661.97	-154.68	661.89	679.73	103.15	562,823.32	607,183.89
9,698.00	90.10	93.30	93.30	8,994.74	757.77	-160.88	757.69	774.58	101.99	562,817.12	607,279.69
9,793.00	90.90	93.10	93.10	8,993.91	852.62	-166.18	852.54	868.58	101.03	562,811.82	607,374.54
9,889.00	90.40	94.80	94.80	8,992.82	948.39	-172.79	948.30	963.91	100.33	562,805.21	607,470.30
9,984.00	87.50	94.80	94.80	8,994.56	1,043.04	-180.74	1,042.94	1,058.49	99.83	562,797.26	607,564.94
10,080.00	88.10	94.60	94.60	8,998.25	1,138.65	-188.60	1,138.55	1,154.06	99.41	562,789.40	607,660.55
10,176.00	85.80	91.10	91.10	9,003.36	1,234.37	-193.37	1,234.27	1,249.33	98.90	562,784.63	607,756.27
10,271.00	87.40	90.20	90.20	9,008.99	1,329.20	-194.45	1,329.09	1,343.24	98.32	562,783.55	607,851.09
10,366.00	89.90	89.90	89.90	9,011.23	1,424.16	-194.53	1,424.06	1,437.28	97.78	562,783.47	607,946.06
10,462.00	90.40	89.50	89.50	9,010.98	1,520.16	-194.03	1,520.06	1,532.39	97.27	562,783.97	608,042.06
10,558.00	92.00	88.30	88.30	9,008.97	1,616.11	-192.18	1,616.01	1,627.40	96.78	562,785.82	608,138.01
10,653.00	92.60	88.00	88.00	9,005.16	1,710.99	-189.12	1,710.89	1,721.31	96.31	562,788.88	608,232.89
10,749.00	91.70	89.30	89.30	9,001.56	1,806.89	-186.86	1,806.79	1,816.43	95.90	562,791.14	608,328.79
10,844.00	86.60	90.30	90.30	9,002.96	1,901.84	-186.53	1,901.75	1,910.87	95.60	562,791.47	608,423.75
10,940.00	86.50	90.50	90.50	9,008.74	1,997.67	-187.20	1,997.57	2,006.32	95.35	562,790.80	608,519.57
11,035.00	91.30	91.30	91.30	9,010.56	2,092.61	-188.69	2,092.51	2,101.00	95.15	562,789.31	608,614.51
11,130.00	89.40	90.50	90.50	9,009.98	2,187.59	-190.18	2,187.49	2,195.75	94.97	562,787.82	608,709.49
11,226.00	86.40	91.20	91.20	9,013.50	2,283.51	-191.60	2,283.41	2,291.43	94.80	562,786.40	608,805.41
11,321.00	86.90	91.70	91.70	9,019.05	2,378.31	-194.00	2,378.21	2,386.11	94.66	562,784.00	608,900.21
11,417.00	88.30	91.80	91.80	9,023.07	2,474.19	-196.93	2,474.08	2,481.91	94.55	562,781.07	608,996.08
11,513.00	89.10	91.60	91.60	9,025.25	2,570.12	-199.78	2,570.01	2,577.77	94.44	562,778.22	609,092.01
11,608.00	87.70	91.20	91.20	9,027.90	2,665.05	-202.10	2,664.95	2,672.60	94.34	562,775.90	609,186.95
11,733.00	87.70	91.20	91.20	9,032.92	2,789.93	-204.71	2,789.82	2,797.32	94.20	562,773.29	609,311.82
11,829.00	88.80	91.40	91.40	9,035.85	2,885.86	-206.89	2,885.75	2,893.15	94.10	562,771.11	609,407.75
11,925.00	89.40	91.10	91.10	9,037.36	2,981.82	-208.99	2,981.71	2,989.03	94.01	562,769.01	609,503.71
12,020.00	90.50	90.50	90.50	9,037.44	3,076.81	-210.31	3,076.70	3,083.88	93.91	562,767.69	609,598.70



# ProDirectional Survey Report



Company: Matador Resources  
Project: Eddy County, NM (NAD83)  
Site: Leatherneck 3029 Fed Com  
Well: No. 136H  
Wellbore: OH  
Design: MWD-45.5'-19059', PTB: 19136'

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:

Well No. 136H  
Well @ 3268.50usft  
Well @ 3268.50usft  
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)	
12,115.00	88.30	88.90	9,038.44	3,171.80	-209.81	3,171.69	3,178.62	93.78	562,768.19	609,693.69	
12,211.00	88.00	88.20	9,041.54	3,267.71	-207.39	3,267.60	3,274.18	93.63	562,770.61	609,789.60	
12,307.00	88.90	88.00	9,044.13	3,363.62	-204.21	3,363.52	3,369.71	93.47	562,773.79	609,885.52	
12,402.00	90.20	88.20	9,044.88	3,458.56	-201.06	3,458.46	3,464.30	93.33	562,776.94	609,980.46	
12,498.00	90.10	87.90	9,044.63	3,554.51	-197.79	3,554.40	3,559.90	93.19	562,780.21	610,076.40	
12,593.00	90.60	87.40	9,044.05	3,649.42	-193.89	3,649.32	3,654.47	93.04	562,784.11	610,171.32	
12,689.00	89.80	88.90	9,043.71	3,745.36	-190.79	3,745.27	3,750.12	92.92	562,787.21	610,267.27	
12,784.00	88.30	88.90	9,045.29	3,840.33	-188.97	3,840.23	3,844.88	92.82	562,789.03	610,362.23	
12,880.00	89.00	88.90	9,047.55	3,936.28	-187.13	3,936.19	3,940.63	92.72	562,790.87	610,458.19	
12,975.00	88.00	89.90	9,050.04	4,031.24	-186.13	4,031.15	4,035.44	92.64	562,791.87	610,553.15	
13,071.00	88.10	89.80	9,053.30	4,127.19	-185.88	4,127.09	4,131.28	92.58	562,792.12	610,649.09	
13,166.00	88.90	89.60	9,055.79	4,222.15	-185.39	4,222.06	4,226.12	92.51	562,792.61	610,744.06	
13,262.00	89.70	89.10	9,056.96	4,318.14	-184.30	4,318.04	4,321.97	92.44	562,793.70	610,840.04	
13,357.00	90.90	89.50	9,056.46	4,413.13	-183.14	4,413.03	4,416.83	92.38	562,794.86	610,935.03	
13,453.00	91.70	89.50	9,054.29	4,509.10	-182.30	4,509.00	4,512.69	92.32	562,795.70	611,031.00	
13,549.00	89.50	88.50	9,053.28	4,605.07	-180.62	4,604.98	4,608.52	92.25	562,797.38	611,126.98	
13,644.00	90.30	91.20	9,053.45	4,700.06	-180.37	4,699.97	4,703.43	92.20	562,797.63	611,221.97	
13,740.00	88.30	91.80	9,054.62	4,796.02	-182.89	4,795.92	4,799.41	92.18	562,795.11	611,317.92	
13,836.00	85.60	91.20	9,059.73	4,891.84	-185.40	4,891.74	4,895.25	92.17	562,792.60	611,413.74	
13,931.00	84.70	90.70	9,067.76	4,986.48	-186.97	4,986.39	4,989.89	92.15	562,791.03	611,508.39	
14,027.00	83.70	90.60	9,077.46	5,081.99	-188.05	5,081.89	5,085.37	92.12	562,789.95	611,603.89	
14,122.00	85.10	90.50	9,086.73	5,176.53	-188.96	5,176.43	5,179.88	92.09	562,789.04	611,698.43	
14,218.00	87.90	91.40	9,092.59	5,272.33	-190.55	5,272.23	5,275.67	92.07	562,787.45	611,794.23	
14,313.00	88.80	92.00	9,095.33	5,367.24	-193.36	5,367.14	5,370.63	92.06	562,784.64	611,889.14	
14,409.00	91.50	90.20	9,095.08	5,463.21	-195.21	5,463.11	5,466.60	92.05	562,782.79	611,985.11	
14,505.00	93.20	90.20	9,091.14	5,559.13	-195.54	5,559.03	5,562.47	92.01	562,782.46	612,081.03	
14,600.00	90.90	90.00	9,087.74	5,654.06	-195.71	5,653.96	5,657.35	91.98	562,782.29	612,175.96	





# ProDirectional Survey Report



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Well: No. 136H  
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Design: MWD-45.5'-19059', PTB: 19136'

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:

Well No. 136H  
Well @ 3268.50usft  
Well @ 3268.50usft  
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)	
14,696.00	89.50	89.50	9,087.41	5,750.06	-195.29	5,749.96	5,753.27	91.95	562,782.71	612,271.96	
14,791.00	89.40	89.70	9,088.32	5,845.05	-194.63	5,844.95	5,848.19	91.91	562,783.37	612,366.95	
14,887.00	89.80	89.50	9,088.99	5,941.05	-193.96	5,940.94	5,944.11	91.87	562,784.04	612,462.94	
14,982.00	90.30	88.40	9,088.91	6,036.03	-192.21	6,035.93	6,038.99	91.82	562,785.79	612,557.93	
15,078.00	90.60	88.30	9,088.15	6,131.98	-189.45	6,131.88	6,134.81	91.77	562,788.55	612,653.88	
15,173.00	90.70	88.30	9,087.07	6,226.93	-186.63	6,226.84	6,229.63	91.72	562,791.37	612,748.84	
15,268.00	89.60	87.90	9,086.82	6,321.88	-183.48	6,321.78	6,324.44	91.66	562,794.52	612,843.78	
15,364.00	90.80	89.80	9,086.49	6,417.85	-181.56	6,417.76	6,420.32	91.62	562,796.44	612,939.76	
15,459.00	91.70	90.10	9,084.42	6,512.83	-181.47	6,512.73	6,515.26	91.60	562,796.53	613,034.73	
15,555.00	90.60	89.40	9,082.49	6,608.80	-181.05	6,608.71	6,611.19	91.57	562,796.95	613,130.71	
15,650.00	91.00	89.60	9,081.16	6,703.79	-180.23	6,703.70	6,706.12	91.54	562,797.77	613,225.70	
15,746.00	89.80	89.10	9,080.49	6,799.78	-179.14	6,799.69	6,802.05	91.51	562,798.86	613,321.69	
15,842.00	89.40	91.70	9,081.16	6,895.77	-179.81	6,895.67	6,898.02	91.49	562,798.19	613,417.67	
15,938.00	88.30	91.50	9,083.09	6,991.71	-182.49	6,991.61	6,994.00	91.50	562,795.51	613,513.61	
16,033.00	91.40	92.20	9,083.34	7,086.65	-185.55	7,086.55	7,088.98	91.50	562,792.45	613,608.55	
16,129.00	92.70	91.90	9,079.91	7,182.53	-188.98	7,182.43	7,184.91	91.51	562,789.02	613,704.43	
16,225.00	93.50	91.20	9,074.71	7,278.35	-191.58	7,278.25	7,280.77	91.51	562,786.42	613,800.25	
16,320.00	91.00	91.10	9,070.98	7,373.25	-193.48	7,373.15	7,375.69	91.50	562,784.52	613,895.15	
16,416.00	91.20	91.10	9,069.14	7,469.22	-195.33	7,469.12	7,471.67	91.50	562,782.67	613,991.12	
16,511.00	89.80	90.60	9,068.31	7,564.20	-196.73	7,564.10	7,566.66	91.49	562,781.27	614,086.10	
16,607.00	86.10	89.60	9,071.75	7,660.12	-196.90	7,660.02	7,662.55	91.47	562,781.10	614,182.02	
16,702.00	86.30	89.20	9,078.04	7,754.91	-195.91	7,754.80	7,757.28	91.45	562,782.09	614,276.80	
16,798.00	87.20	88.90	9,083.48	7,850.74	-194.32	7,850.64	7,853.04	91.42	562,783.68	614,372.64	
16,894.00	88.30	90.20	9,087.25	7,946.66	-193.57	7,946.56	7,948.91	91.40	562,784.43	614,468.56	
16,989.00	90.80	91.30	9,088.00	8,041.64	-194.81	8,041.54	8,043.89	91.39	562,783.19	614,563.54	
17,084.00	91.50	91.50	9,086.09	8,136.59	-197.13	8,136.49	8,138.87	91.39	562,780.87	614,658.49	
17,180.00	93.40	91.80	9,081.99	8,232.46	-199.89	8,232.36	8,234.78	91.39	562,778.11	614,754.36	



# ProDirectional Survey Report



Company: Matador Resources  
Project: Eddy County, NM (NAD83)  
Site: Leatherneck 3029 Fed Com  
Well: No. 136H  
Wellbore: OH  
Design: MWD-45.5'-19059', PTB: 19136'

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:  
Well No. 136H  
Well @ 3268.50usft  
Well @ 3268.50usft  
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)	
17,275.00	92.60	90.60	9,077.02	8,327.31	-201.88	8,327.20	8,329.65	91.39	562,776.12	614,849.20	
17,371.00	87.30	90.40	9,077.10	8,423.27	-202.72	8,423.16	8,425.60	91.38	562,775.28	614,945.16	
17,466.00	85.50	89.80	9,083.07	8,518.08	-202.88	8,517.97	8,520.39	91.36	562,775.12	615,039.97	
17,562.00	88.00	90.40	9,088.51	8,613.91	-203.05	8,613.81	8,616.20	91.35	562,774.95	615,135.81	
17,657.00	90.00	90.90	9,090.17	8,708.89	-204.13	8,708.78	8,711.18	91.34	562,773.87	615,230.78	
17,753.00	89.10	89.50	9,090.92	8,804.88	-204.46	8,804.78	8,807.15	91.33	562,773.54	615,326.78	
17,849.00	87.20	89.40	9,094.02	8,900.82	-203.54	8,900.72	8,903.04	91.31	562,774.46	615,422.72	
17,944.00	87.30	88.90	9,098.58	8,995.70	-202.14	8,995.60	8,997.87	91.29	562,775.86	615,517.60	
18,040.00	89.00	89.10	9,101.68	9,091.63	-200.46	9,091.53	9,093.74	91.26	562,777.54	615,613.53	
18,135.00	89.50	89.20	9,102.92	9,186.61	-199.05	9,186.51	9,188.67	91.24	562,778.95	615,708.51	
18,231.00	89.50	89.20	9,103.76	9,282.60	-197.71	9,282.50	9,284.60	91.22	562,780.29	615,804.50	
18,327.00	90.10	89.70	9,104.09	9,378.59	-196.79	9,378.49	9,380.56	91.20	562,781.21	615,900.49	
18,422.00	90.00	89.00	9,104.01	9,473.59	-195.71	9,473.48	9,475.51	91.18	562,782.29	615,995.48	
18,581.00	88.20	89.80	9,106.51	9,632.55	-194.05	9,632.45	9,634.40	91.15	562,783.95	616,154.45	
18,676.00	88.80	88.80	9,108.99	9,727.51	-192.89	9,727.41	9,729.32	91.14	562,785.11	616,249.41	
18,772.00	90.60	89.30	9,109.50	9,823.49	-191.30	9,823.39	9,825.25	91.12	562,786.70	616,345.39	
18,868.00	91.10	88.80	9,108.07	9,919.46	-189.70	9,919.36	9,921.18	91.10	562,788.30	616,441.36	
18,963.00	91.80	88.60	9,105.67	10,014.41	-187.55	10,014.31	10,016.06	91.07	562,790.45	616,536.31	
19,059.00	92.90	88.30	9,101.73	10,110.29	-184.96	10,110.19	10,111.88	91.05	562,793.04	616,632.19	
Last Survey: 19059' MD											
19,071.50	92.90	88.30	9,101.10	10,122.77	-184.58	10,122.67	10,124.35	91.04	562,793.42	616,644.67	
LTP: 19,071.5' MD											
19,136.00	92.90	88.30	9,097.84	10,187.15	-182.67	10,187.06	10,188.70	91.03	562,795.33	616,709.06	
PTB: 19136' MD											



# ProDirectional Survey Report



Company: Matador Resources  
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Site: Leatherneck 3029 Fed Com  
Well: No. 136H  
Wellbore: OH  
Design: MWD-45.5'-19059', PTB: 19136'

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:

Well No. 136H  
Well @ 3268.50usft  
Well @ 3268.50usft  
Grid  
Minimum Curvature  
WellPlanner1

## Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.00	499.92	-1.78	1.42	Pro MWD First Survey: 500' MD
8,685.10	8,658.58	-113.44	-137.79	FTP: 8,685.1' MD
19,059.00	9,101.73	-184.96	10,110.19	Last Survey: 19059' MD
19,071.50	9,101.10	-184.58	10,122.67	LTP: 19,071.5' MD
19,136.00	9,097.84	-182.67	10,187.06	PTB: 19136' MD