

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

As drilled

¹ API Number 30-015-45986	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 136H	⁷ Operator Name MATADOR PRODUCTION COMPANY	
⁸ OGRID No. 228937	⁹ Elevation 3240'	

¹⁰Surface Location

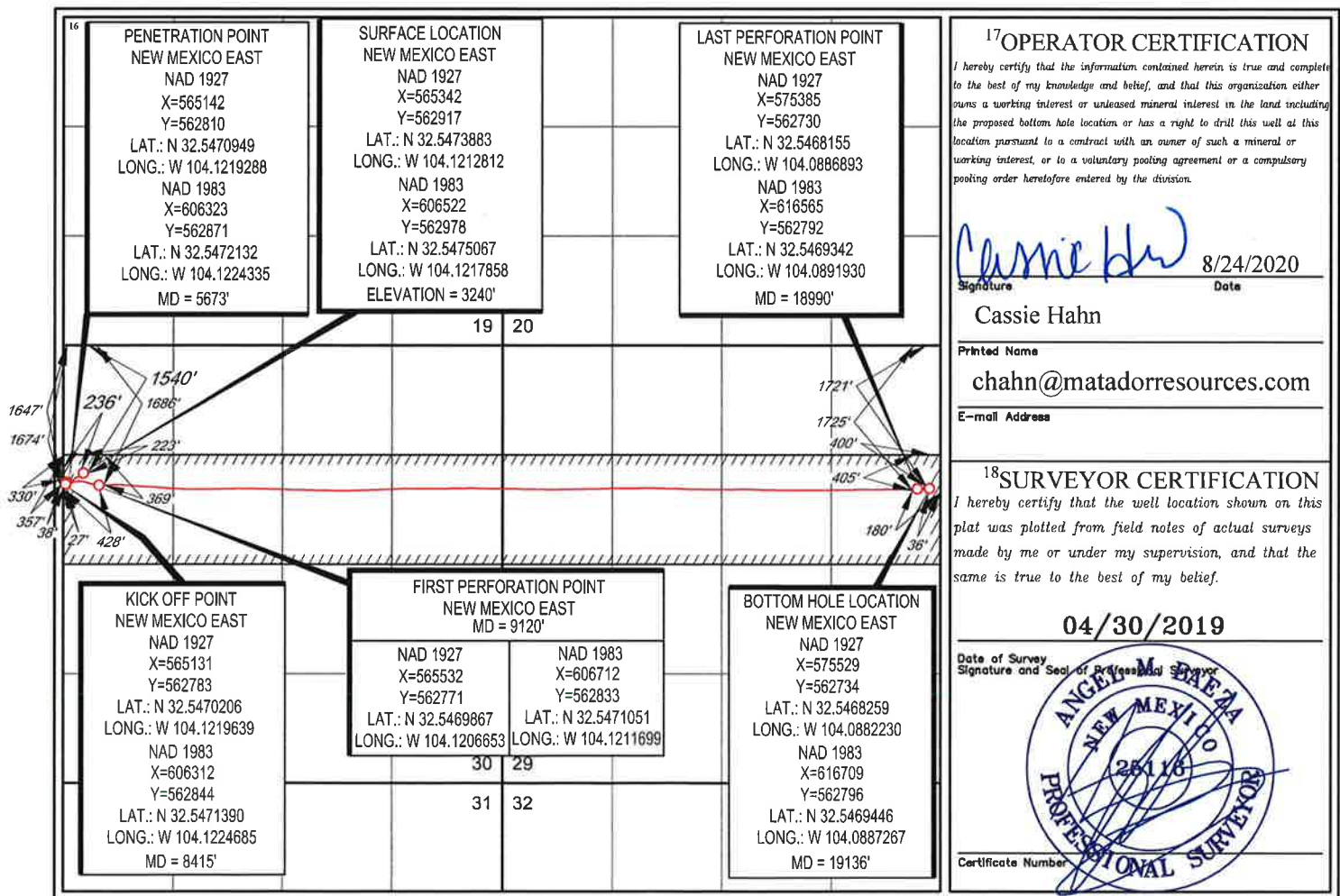
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	30	20-S	29-E	-	1540'	NORTH	236'	WEST	EDDY

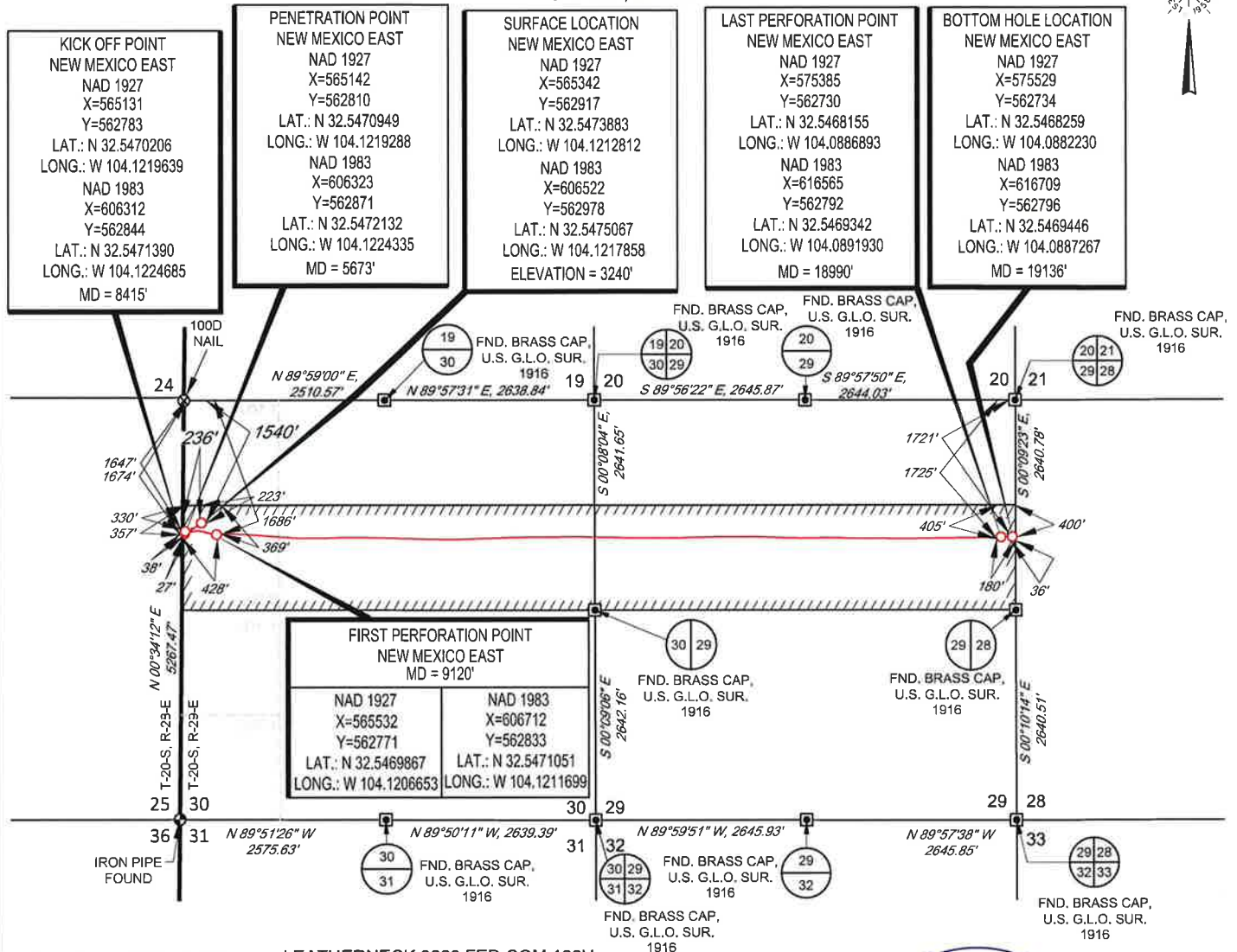
¹¹Bottom Hole Location If Different From Surface

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

¹² Dedicated Acres 316.84	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.





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



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



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)	
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
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

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