

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

AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name
		98315	BURTON FLAT UPPER WOLFCAMP EAST OIL
⁴ Property Code	⁵ Property Name		⁶ Well Number
326053	LEATHERNECK 3029 FED COM		222H
⁷ OGRID No.	⁸ Operator Name		⁹ Elevation
228937	MATADOR PRODUCTION COMPANY		3238'

¹⁰Surface Location

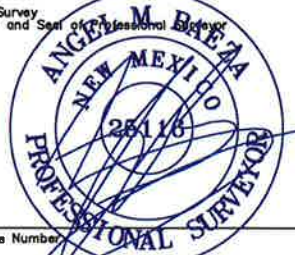
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	30	20-S	29-E	-	840'	NORTH	309'	WEST	EDDY

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	-	1689'	NORTH	48'	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
316.84			

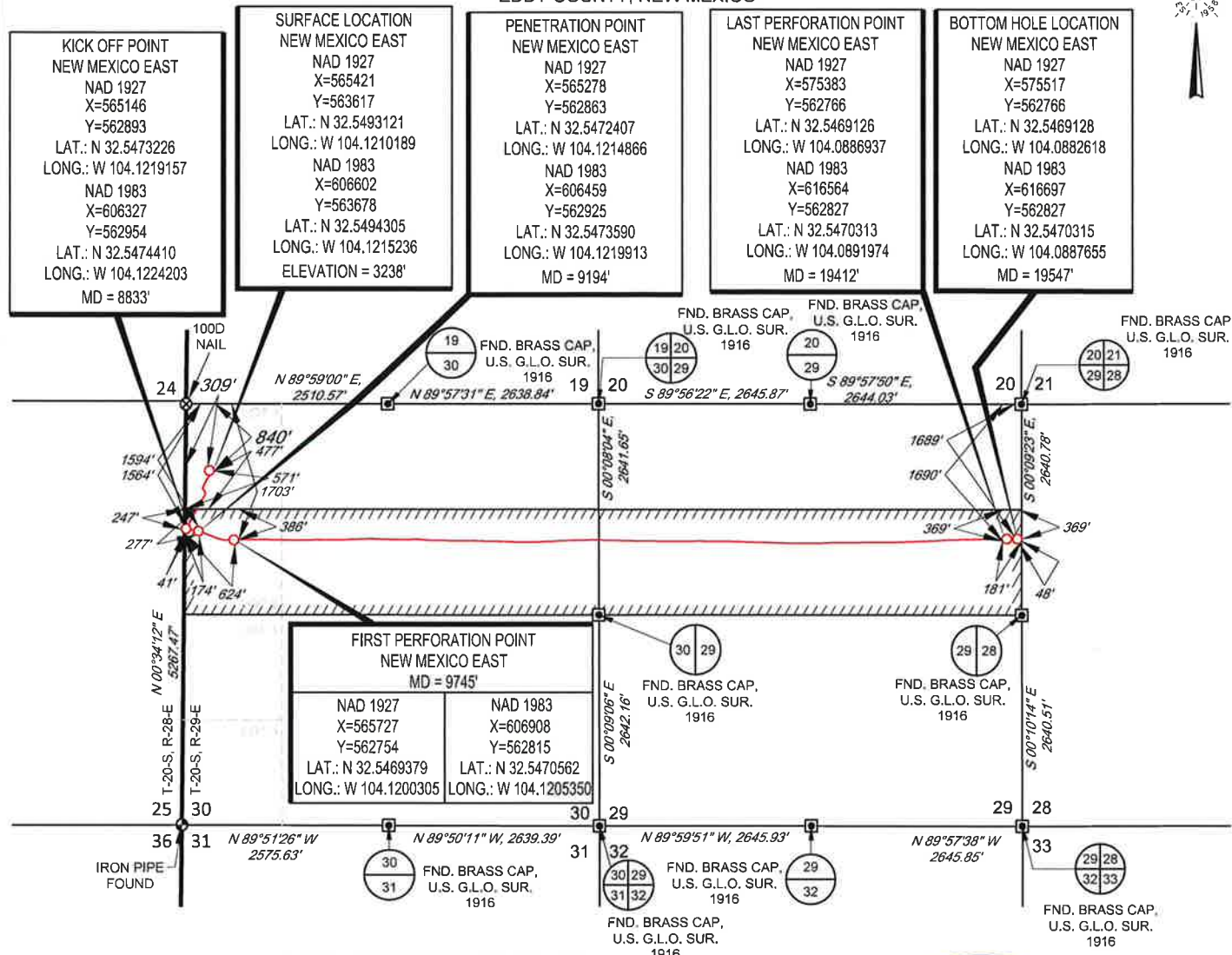
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ KICK OFF POINT NEW MEXICO EAST NAD 1927 X=565146 Y=562893 LAT.: N 32.5473226 LONG.: W 104.1219157 NAD 1983 X=606327 Y=562954 LAT.: N 32.5474410 LONG.: W 104.1224203 MD = 8833'	SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=565421 Y=563617 LAT.: N 32.5493121 LONG.: W 104.1210189 NAD 1983 X=606602 Y=563678 LAT.: N 32.5494305 LONG.: W 104.1215236 ELEVATION = 3238'	LAST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=575383 Y=562766 LAT.: N 32.5469126 LONG.: W 104.0886937 NAD 1983 X=616564 Y=562827 LAT.: N 32.5470313 LONG.: W 104.0891974 MD = 19412'	¹⁷ 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 unleased 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.  Signature Date 8/24/20 Printed Name Cassie Hahn E-mail Address chahn@matadorresources.com		
PENETRATION POINT NEW MEXICO EAST NAD 1927 X=565278 Y=562863 LAT.: N 32.5472407 LONG.: W 104.1214866 NAD 1983 X=606459 Y=562925 LAT.: N 32.5473590 LONG.: W 104.1219913 MD = 9194'	FIRST PERFORATION POINT NEW MEXICO EAST MD = 9745' <table border="1"> <tr> <td>NAD 1927 X=565727 Y=562754 LAT.: N 32.5469379 LONG.: W 104.1200305</td> <td>NAD 1983 X=606908 Y=562815 LAT.: N 32.5470562 LONG.: W 104.1205350</td> </tr> </table>	NAD 1927 X=565727 Y=562754 LAT.: N 32.5469379 LONG.: W 104.1200305	NAD 1983 X=606908 Y=562815 LAT.: N 32.5470562 LONG.: W 104.1205350	BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=575517 Y=562766 LAT.: N 32.5469128 LONG.: W 104.0882618 NAD 1983 X=616697 Y=562827 LAT.: N 32.5470315 LONG.: W 104.0887655 MD = 19547'	¹⁸ 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
NAD 1927 X=565727 Y=562754 LAT.: N 32.5469379 LONG.: W 104.1200305	NAD 1983 X=606908 Y=562815 LAT.: N 32.5470562 LONG.: W 104.1205350				

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 222H
SECTION 30 TWP 20-S RGE 29-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM ELEVATION 3238'
DESCRIPTION 840' FNL & 309' 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 222H

REVISION:

NOTES:

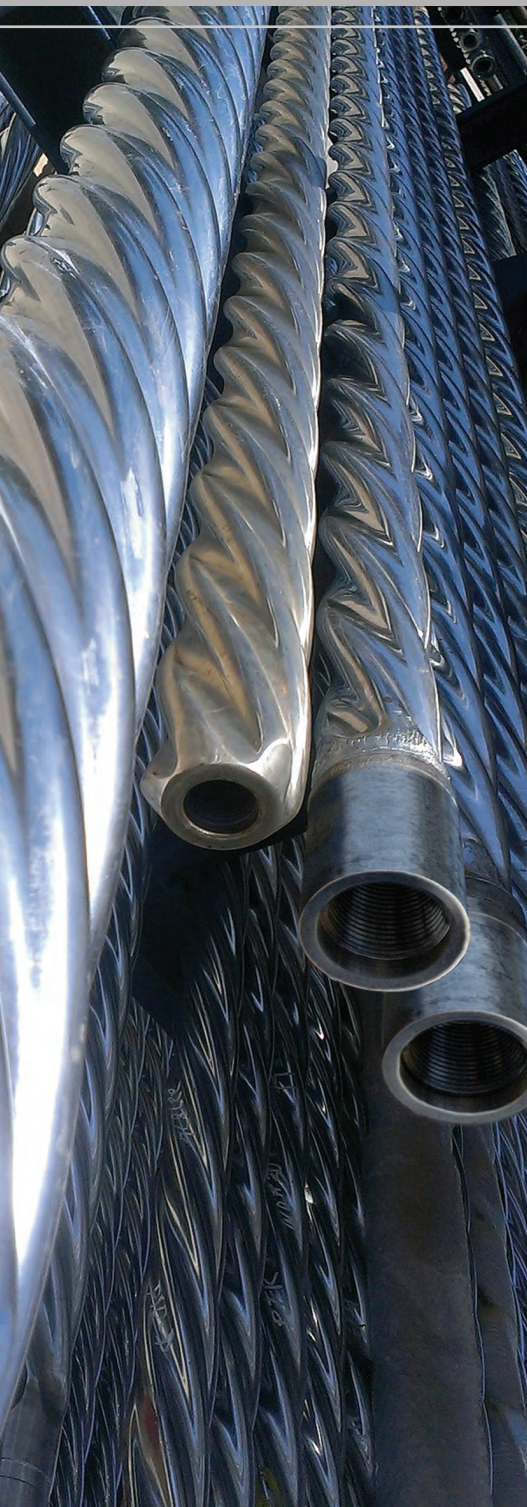
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING 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.

DATE: 08/20/2020

AD_LEATHERNECK_3029_FED_COM_222H

DRAWN BY: H.B.

SHEET: 1 OF 1



Leatherneck 3029 Fed Com No. 222H
Eddy County, NM

May 01, 2020

Job No. LNM5103720

Certified Report

May 01, 2020



Operator Name: Matador Resources
Well Name: Leatherneck 3029 Fed Com No. 222H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5103720

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	506' MD – 19,475' MD	19,547' MD	02/12/20 – 04/19/20	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. 222H

OH

Survey: ProDirectional

Survey Report

01 May, 2020





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 222H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 222H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-134.5'-19475', PTB: 19547'	Database:	WellPlanner1

Project	Eddy County, NM (NAD83)		
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
From:	Map	Easting:	606,522.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.547423
		Longitude:	-104.121786
		Grid Convergence:	0.11 °

Well		No. 222H				
Well Position	+N/-S	0.00 usft	Northing:	563,678.00 usft	Latitude:	32.549429
	+E/-W	0.00 usft	Easting:	606,602.00 usft	Longitude:	-104.121522
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,238.00 usft

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	HDGM	2/13/2020	7.12	60.28	47,902.00	

Design	MWD-134.5'-19475', PTB: 19547'				
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. 222H
Wellbore: OH
Design: MWD-134.5'-19475', PTB: 19547'

Local Co-ordinate Reference: Well No. 222H
TVD Reference: Well @ 3266.50usft
MD Reference: Well @ 3266.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey Program **Date** 5/1/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
134.50	337.00	Survey #1 (OH)	GYRO-NS-CT	OWSG XYZ Accel with XY Static and Continuous Gyro
506.00	19,547.00	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	563,678.00	606,602.00
134.50	0.24	286.36	134.50	-0.27	0.08	-0.27	0.28	286.36	563,678.08	606,601.73
227.25	0.20	325.97	227.25	-0.55	0.27	-0.55	0.61	296.11	563,678.27	606,601.45
337.00	0.21	3.68	337.00	-0.64	0.63	-0.64	0.90	314.37	563,678.63	606,601.36
506.00	0.20	26.80	506.00	-0.49	1.20	-0.49	1.30	337.84	563,679.20	606,601.51
Pro MWD First Survey: 506' MD										
598.00	0.50	35.30	598.00	-0.19	1.67	-0.18	1.68	353.71	563,679.67	606,601.82
691.00	0.40	38.20	690.99	0.25	2.26	0.25	2.27	6.34	563,680.26	606,602.25
784.00	0.70	49.50	783.99	0.88	2.88	0.88	3.01	17.05	563,680.88	606,602.88
877.00	0.40	84.30	876.98	1.64	3.28	1.64	3.67	26.53	563,681.28	606,603.64
969.00	0.90	110.30	968.98	2.63	3.06	2.64	4.04	40.71	563,681.06	606,604.64
1,062.00	1.40	108.30	1,061.96	4.40	2.45	4.40	5.04	60.85	563,680.45	606,606.40
1,122.00	1.70	103.50	1,121.94	5.96	2.02	5.96	6.29	71.32	563,680.02	606,607.96
1,250.00	2.20	97.60	1,249.86	10.24	1.25	10.24	10.32	83.06	563,679.25	606,612.24
1,345.00	1.80	112.70	1,344.81	13.43	0.43	13.43	13.43	88.16	563,678.43	606,615.43
1,441.00	1.70	169.50	1,440.77	15.08	-1.55	15.08	15.16	95.88	563,676.45	606,617.08
1,536.00	3.40	199.40	1,535.67	14.40	-5.59	14.40	15.45	111.24	563,672.41	606,616.40
1,632.00	5.70	197.40	1,631.36	12.03	-12.83	12.03	17.59	136.85	563,665.17	606,614.03
1,728.00	5.80	197.30	1,726.88	9.17	-22.01	9.16	23.84	157.41	563,655.99	606,611.16
1,823.00	5.90	199.90	1,821.39	6.09	-31.18	6.07	31.77	168.99	563,646.82	606,608.07
1,919.00	6.30	200.30	1,916.84	2.58	-40.76	2.56	40.84	176.40	563,637.24	606,604.56



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 222H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 222H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-134.5'-19475', PTB: 19547'	Database:	WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
2,015.00	6.80	203.60	2,012.22	-1.51	-50.91	-1.54	50.94	181.73	563,627.09	606,600.46	
2,110.00	7.00	209.70	2,106.53	-6.63	-61.09	-6.66	61.46	186.22	563,616.91	606,595.34	
2,206.00	6.10	213.30	2,201.90	-12.32	-70.44	-12.36	71.52	189.95	563,607.56	606,589.64	
2,301.00	7.90	214.60	2,296.19	-18.80	-80.03	-18.84	82.22	193.25	563,597.97	606,583.16	
2,397.00	7.40	213.90	2,391.34	-25.99	-90.59	-26.03	94.26	196.03	563,587.41	606,575.97	
2,492.00	6.10	205.40	2,485.68	-31.56	-100.23	-31.61	105.10	197.50	563,577.77	606,570.39	
2,588.00	4.60	207.70	2,581.26	-35.53	-108.25	-35.59	113.95	198.20	563,569.75	606,566.41	
2,684.00	4.50	210.00	2,676.95	-39.20	-114.92	-39.26	121.44	198.86	563,563.08	606,562.74	
2,779.00	5.30	211.50	2,771.61	-43.35	-121.89	-43.42	129.39	199.61	563,556.11	606,558.58	
2,875.00	5.40	208.90	2,867.19	-47.85	-129.62	-47.92	138.20	200.29	563,548.38	606,554.08	
2,971.00	5.60	209.30	2,962.75	-52.32	-137.66	-52.39	147.29	200.84	563,540.34	606,549.61	
3,041.00	5.70	209.20	3,032.41	-55.68	-143.68	-55.76	154.12	201.21	563,534.32	606,546.24	
3,169.00	6.00	207.00	3,159.74	-61.82	-155.18	-61.90	167.07	201.75	563,522.82	606,540.10	
3,264.00	5.80	193.50	3,254.24	-65.19	-164.28	-65.27	176.77	201.67	563,513.72	606,536.73	
3,360.00	5.60	207.30	3,349.77	-68.46	-173.16	-68.55	186.23	201.60	563,504.84	606,533.45	
3,455.00	5.20	207.40	3,444.35	-72.57	-181.10	-72.66	195.13	201.86	563,496.90	606,529.34	
3,551.00	4.90	207.00	3,539.98	-76.42	-188.61	-76.52	203.54	202.08	563,489.39	606,525.48	
3,646.00	4.80	207.90	3,634.64	-80.12	-195.74	-80.23	211.54	202.29	563,482.26	606,521.77	
3,742.00	4.30	209.70	3,730.33	-83.78	-202.42	-83.89	219.11	202.51	563,475.58	606,518.11	
3,838.00	4.10	210.00	3,826.08	-87.28	-208.51	-87.39	226.09	202.74	563,469.49	606,514.61	
3,933.00	3.10	163.10	3,920.91	-88.23	-213.91	-88.34	231.44	202.44	563,464.09	606,513.66	
4,029.00	3.30	154.80	4,016.76	-86.29	-218.90	-86.41	235.34	201.54	563,459.10	606,515.59	
4,125.00	3.30	156.30	4,112.60	-84.00	-223.93	-84.12	239.21	200.59	563,454.07	606,517.88	
4,220.00	3.20	156.90	4,207.44	-81.86	-228.87	-81.98	243.11	199.71	563,449.13	606,520.02	
4,316.00	6.10	138.30	4,303.12	-77.41	-235.15	-77.54	247.60	198.25	563,442.85	606,524.46	
4,412.00	9.90	135.10	4,398.17	-68.19	-244.80	-68.31	254.16	195.59	563,433.20	606,533.69	
4,507.00	9.60	151.40	4,491.82	-58.62	-257.55	-58.76	264.16	192.85	563,420.45	606,543.24	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 222H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 222H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-134.5'-19475', PTB: 19547'	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)	
4,602.00	8.50	171.40	4,585.66	-53.77	-271.45	-53.91	276.75	191.23	563,406.55	606,548.09	
4,698.00	9.30	192.40	4,680.53	-54.37	-286.04	-54.52	291.19	190.79	563,391.96	606,547.48	
4,794.00	8.70	207.60	4,775.36	-59.39	-300.05	-59.55	305.91	191.22	563,377.95	606,542.45	
4,889.00	8.40	207.70	4,869.30	-65.94	-312.56	-66.10	319.48	191.94	563,365.44	606,535.90	
4,985.00	8.30	209.50	4,964.28	-72.60	-324.80	-72.77	332.86	192.63	563,353.20	606,529.23	
5,081.00	7.90	209.50	5,059.33	-79.26	-336.58	-79.43	345.82	193.28	563,341.42	606,522.57	
5,175.00	7.30	209.30	5,152.50	-85.36	-347.41	-85.54	357.78	193.83	563,330.59	606,516.46	
5,271.00	7.90	208.90	5,247.66	-91.52	-358.50	-91.71	370.05	194.35	563,319.50	606,510.29	
5,366.00	7.90	208.70	5,341.75	-97.81	-369.94	-98.00	382.70	194.84	563,308.06	606,504.00	
5,462.00	7.00	207.40	5,436.94	-103.66	-380.92	-103.86	394.83	195.25	563,297.08	606,498.14	
5,557.00	8.30	218.10	5,531.10	-110.55	-391.46	-110.76	406.83	195.80	563,286.54	606,491.24	
5,653.00	8.40	217.80	5,626.08	-119.12	-402.45	-119.33	419.77	196.52	563,275.55	606,482.67	
5,748.00	7.50	218.40	5,720.17	-127.22	-412.80	-127.43	432.02	197.16	563,265.20	606,474.57	
5,844.00	8.80	213.30	5,815.20	-135.14	-423.84	-135.36	444.93	197.71	563,254.16	606,466.64	
5,939.00	9.50	208.00	5,908.99	-142.80	-436.84	-143.03	459.66	198.13	563,241.16	606,458.97	
6,035.00	8.80	206.40	6,003.77	-149.78	-450.41	-150.01	474.74	198.42	563,227.59	606,451.99	
6,131.00	7.80	205.80	6,098.76	-155.87	-462.86	-156.11	488.47	198.64	563,215.14	606,445.89	
6,226.00	7.70	207.80	6,192.89	-161.64	-474.29	-161.89	501.16	198.85	563,203.71	606,440.11	
6,322.00	7.60	207.80	6,288.04	-167.59	-485.59	-167.85	513.79	199.07	563,192.41	606,434.15	
6,418.00	6.90	207.10	6,383.27	-173.18	-496.34	-173.44	525.77	199.26	563,181.66	606,428.56	
6,513.00	6.70	207.60	6,477.60	-178.34	-506.34	-178.60	536.91	199.43	563,171.66	606,423.40	
6,609.00	9.70	211.00	6,572.61	-185.09	-518.23	-185.36	550.39	199.68	563,159.77	606,416.64	
6,704.00	9.80	209.90	6,666.24	-193.24	-532.10	-193.52	566.20	199.99	563,145.90	606,408.48	
6,800.00	9.10	209.70	6,760.94	-201.06	-545.78	-201.35	581.74	200.25	563,132.22	606,400.65	
6,895.00	8.80	210.50	6,854.78	-208.47	-558.57	-208.76	596.30	200.49	563,119.43	606,393.24	
6,991.00	8.00	209.90	6,949.75	-215.52	-570.68	-215.82	610.13	200.72	563,107.32	606,386.18	
7,086.00	7.10	210.80	7,043.92	-221.82	-581.46	-222.12	622.44	200.91	563,096.54	606,379.88	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 222H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 222H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-134.5'-19475', PTB: 19547'	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)	
7,182.00	6.50	209.00	7,139.25	-227.48	-591.31	-227.79	633.67	201.07	563,086.69	606,374.21	
7,278.00	6.10	209.70	7,234.67	-232.64	-600.49	-232.95	644.09	201.20	563,077.51	606,369.05	
7,373.00	4.90	207.80	7,329.23	-237.03	-608.46	-237.35	653.12	201.31	563,069.54	606,364.65	
7,469.00	7.10	207.80	7,424.70	-241.70	-617.34	-242.03	663.09	201.41	563,060.66	606,359.97	
7,564.00	6.90	209.00	7,518.99	-247.20	-627.52	-247.53	674.58	201.53	563,050.48	606,354.47	
7,660.00	8.00	193.30	7,614.19	-251.53	-639.07	-251.86	686.91	201.51	563,038.93	606,350.14	
7,755.00	7.80	193.10	7,708.29	-254.51	-651.78	-254.85	699.83	201.36	563,026.22	606,347.15	
7,851.00	7.60	194.70	7,803.42	-257.59	-664.27	-257.93	712.59	201.22	563,013.73	606,344.07	
7,946.00	6.90	197.20	7,897.66	-260.86	-675.80	-261.22	724.52	201.13	563,002.20	606,340.78	
8,042.00	6.00	199.50	7,993.05	-264.24	-686.03	-264.60	735.29	201.09	562,991.97	606,337.40	
8,137.00	4.30	189.70	8,087.67	-266.49	-694.23	-266.85	743.75	201.03	562,983.77	606,335.15	
8,233.00	3.60	204.10	8,183.44	-268.32	-700.53	-268.69	750.29	200.98	562,977.47	606,333.31	
8,328.00	3.10	196.30	8,278.28	-270.26	-705.71	-270.63	755.83	200.98	562,972.29	606,331.37	
8,424.00	2.70	204.60	8,374.16	-271.93	-710.26	-272.30	760.67	200.98	562,967.74	606,329.70	
8,520.00	2.30	206.60	8,470.06	-273.73	-714.04	-274.10	764.84	201.00	562,963.96	606,327.90	
8,615.00	2.50	200.40	8,564.98	-275.30	-717.69	-275.68	768.81	201.01	562,960.31	606,326.32	
8,711.00	1.50	173.40	8,660.92	-275.89	-720.90	-276.26	772.02	200.97	562,957.10	606,325.74	
8,770.00	1.30	179.70	8,719.91	-275.79	-722.33	-276.17	773.33	200.92	562,955.67	606,325.83	
8,844.00	3.30	134.70	8,793.85	-274.27	-724.67	-274.65	774.97	200.76	562,953.33	606,327.35	
8,891.00	9.60	112.90	8,840.53	-269.70	-727.15	-270.08	775.69	200.38	562,950.85	606,331.92	
8,940.00	15.60	105.30	8,888.33	-259.57	-730.48	-259.95	775.36	199.59	562,947.52	606,342.05	
9,035.00	25.00	97.50	8,977.35	-227.26	-736.49	-227.65	770.87	197.18	562,941.51	606,374.35	
9,131.00	35.10	100.00	9,060.34	-179.84	-743.95	-180.23	765.47	193.62	562,934.05	606,421.77	
9,227.00	40.70	109.00	9,136.12	-122.97	-758.95	-123.36	768.91	189.23	562,919.05	606,478.64	
9,322.00	48.00	111.00	9,204.01	-60.62	-781.72	-61.03	784.10	184.46	562,896.28	606,540.97	
9,418.00	57.10	112.10	9,262.33	10.18	-809.73	9.76	809.78	179.31	562,868.27	606,611.76	
9,501.00	64.90	114.80	9,302.54	76.71	-838.65	76.27	842.11	174.80	562,839.35	606,678.27	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 222H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 222H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-134.5'-19475', PTB: 19547'	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)	
9,595.00	73.80	97.50	9,335.88	160.83	-862.60	160.38	877.38	169.47	562,815.40	606,762.38	
9,690.00	75.00	86.50	9,361.50	252.12	-865.76	251.67	901.60	163.79	562,812.24	606,853.67	
9,785.00	77.60	88.00	9,384.00	344.30	-861.34	343.85	927.44	158.24	562,816.66	606,945.85	
9,879.00	88.40	89.90	9,395.44	437.44	-859.65	436.99	964.34	153.05	562,818.35	607,038.99	
9,973.00	90.60	89.90	9,396.26	531.43	-859.49	530.98	1,010.27	148.29	562,818.51	607,132.98	
10,067.00	88.20	89.80	9,397.24	625.42	-859.24	624.97	1,062.49	143.97	562,818.76	607,226.97	
10,161.00	90.10	90.40	9,398.64	719.40	-859.40	718.95	1,120.48	140.09	562,818.60	607,320.95	
10,256.00	89.30	92.30	9,399.13	814.37	-861.64	813.92	1,185.28	136.63	562,816.36	607,415.92	
10,351.00	86.60	91.10	9,402.53	909.26	-864.46	908.81	1,254.28	133.57	562,813.54	607,510.81	
10,445.00	85.80	90.60	9,408.76	1,003.04	-865.85	1,002.59	1,324.72	130.81	562,812.15	607,604.59	
10,539.00	85.90	90.60	9,415.56	1,096.79	-866.83	1,096.34	1,397.62	128.33	562,811.17	607,698.34	
10,633.00	87.10	88.70	9,421.30	1,190.61	-866.26	1,190.15	1,472.03	126.05	562,811.74	607,792.15	
10,728.00	88.60	88.20	9,424.87	1,285.50	-863.69	1,285.05	1,548.32	123.91	562,814.31	607,887.05	
10,822.00	89.80	89.50	9,426.18	1,379.47	-861.80	1,379.02	1,626.16	122.00	562,816.20	607,981.02	
10,916.00	91.30	91.00	9,425.28	1,473.46	-862.21	1,473.01	1,706.80	120.34	562,815.79	608,075.01	
11,010.00	91.60	90.60	9,422.90	1,567.42	-863.53	1,566.97	1,789.15	118.86	562,814.47	608,168.97	
11,104.00	90.00	88.50	9,421.58	1,661.40	-862.79	1,660.95	1,871.67	117.45	562,815.21	608,262.95	
11,199.00	89.90	85.80	9,421.67	1,756.27	-858.06	1,755.82	1,954.27	116.04	562,819.94	608,357.82	
11,293.00	88.60	87.60	9,422.90	1,850.10	-852.65	1,849.65	2,036.72	114.75	562,825.35	608,451.65	
11,388.00	88.30	87.90	9,425.47	1,944.99	-848.93	1,944.54	2,121.77	113.58	562,829.07	608,546.54	
11,482.00	87.80	92.00	9,428.67	2,038.91	-848.84	2,038.47	2,208.14	112.61	562,829.16	608,640.47	
11,576.00	87.20	92.50	9,432.77	2,132.75	-852.53	2,132.30	2,296.42	111.79	562,825.47	608,734.30	
11,670.00	88.40	92.20	9,436.38	2,226.60	-856.38	2,226.15	2,385.19	111.04	562,821.62	608,828.15	
11,765.00	89.10	90.30	9,438.45	2,321.55	-858.45	2,321.10	2,474.77	110.30	562,819.55	608,923.10	
11,860.00	88.10	90.30	9,440.77	2,416.52	-858.95	2,416.07	2,564.22	109.57	562,819.05	609,018.07	
11,955.00	88.40	87.80	9,443.67	2,511.46	-857.38	2,511.01	2,653.35	108.85	562,820.62	609,113.01	
12,050.00	91.70	92.60	9,443.59	2,606.41	-857.71	2,605.97	2,743.49	108.22	562,820.29	609,207.97	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 222H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 222H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-134.5'-19475', PTB: 19547'	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)	
12,130.00	93.50	94.60	9,439.96	2,686.17	-862.72	2,685.72	2,820.88	107.81	562,815.28	609,287.72	
12,221.00	90.90	92.60	9,436.47	2,776.91	-868.43	2,776.46	2,909.11	107.37	562,809.57	609,378.46	
12,313.00	89.50	90.50	9,436.15	2,868.87	-870.92	2,868.42	2,997.72	106.89	562,807.08	609,470.42	
12,405.00	88.20	90.10	9,437.99	2,960.85	-871.40	2,960.40	3,085.98	106.40	562,806.60	609,562.40	
12,497.00	91.30	91.10	9,438.39	3,052.83	-872.37	3,052.38	3,174.59	105.95	562,805.63	609,654.38	
12,589.00	91.30	90.60	9,436.31	3,144.80	-873.73	3,144.34	3,263.48	105.53	562,804.27	609,746.34	
12,681.00	92.10	89.90	9,433.58	3,236.76	-874.13	3,236.30	3,352.28	105.12	562,803.87	609,838.30	
12,773.00	89.30	90.40	9,432.45	3,328.74	-874.37	3,328.28	3,441.22	104.72	562,803.63	609,930.28	
12,864.00	90.40	92.10	9,432.69	3,419.72	-876.36	3,419.26	3,529.78	104.38	562,801.64	610,021.26	
12,955.00	86.60	91.90	9,435.07	3,510.61	-879.53	3,510.15	3,618.67	104.07	562,798.47	610,112.15	
13,049.00	85.90	91.80	9,441.22	3,604.37	-882.56	3,603.90	3,710.40	103.76	562,795.44	610,205.90	
13,143.00	84.80	91.60	9,448.84	3,698.01	-885.34	3,697.55	3,802.07	103.47	562,792.66	610,299.55	
13,237.00	86.20	91.60	9,456.22	3,791.69	-887.96	3,791.22	3,893.82	103.18	562,790.04	610,393.22	
13,332.00	86.70	91.20	9,462.10	3,886.48	-890.27	3,886.01	3,986.69	102.90	562,787.73	610,488.01	
13,426.00	85.50	90.00	9,468.49	3,980.25	-891.25	3,979.79	4,078.36	102.62	562,786.75	610,581.79	
13,520.00	86.90	88.50	9,474.72	4,074.03	-890.03	4,073.57	4,169.66	102.32	562,787.97	610,675.57	
13,614.00	90.60	86.70	9,476.77	4,167.90	-886.09	4,167.44	4,260.60	102.00	562,791.91	610,769.44	
13,709.00	89.60	85.50	9,476.61	4,262.68	-879.63	4,262.22	4,352.04	101.66	562,798.37	610,864.22	
13,803.00	90.40	87.10	9,476.61	4,356.47	-873.56	4,356.02	4,442.75	101.34	562,804.44	610,958.02	
13,897.00	92.00	88.70	9,474.64	4,450.38	-870.12	4,449.93	4,534.20	101.06	562,807.88	611,051.93	
13,992.00	91.60	88.80	9,471.65	4,545.31	-868.05	4,544.86	4,627.01	100.81	562,809.95	611,146.86	
14,086.00	91.10	88.80	9,469.44	4,639.26	-866.08	4,638.81	4,718.97	100.58	562,811.92	611,240.81	
14,180.00	90.80	88.80	9,467.88	4,733.23	-864.11	4,732.78	4,811.02	100.35	562,813.89	611,334.78	
14,274.00	90.10	90.90	9,467.14	4,827.22	-863.87	4,826.77	4,903.46	100.15	562,814.13	611,428.77	
14,368.00	90.70	91.60	9,466.49	4,921.20	-865.92	4,920.74	4,996.35	99.98	562,812.08	611,522.74	
14,462.00	88.30	91.50	9,467.31	5,015.15	-868.46	5,014.70	5,089.34	99.83	562,809.54	611,616.70	
14,556.00	87.70	91.60	9,470.59	5,109.06	-871.00	5,108.61	5,182.33	99.68	562,807.00	611,710.61	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 222H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 222H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-134.5'-19475', PTB: 19547'	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)	
14,650.00	87.30	91.10	9,474.69	5,202.95	-873.21	5,202.49	5,275.26	99.53	562,804.79	611,804.49	
14,744.00	87.20	90.80	9,479.20	5,296.83	-874.77	5,296.37	5,368.12	99.38	562,803.23	611,898.37	
14,838.00	86.00	90.40	9,484.77	5,390.65	-875.75	5,390.20	5,460.88	99.23	562,802.25	611,992.20	
14,932.00	89.20	90.80	9,488.71	5,484.55	-876.74	5,484.10	5,553.74	99.08	562,801.26	612,086.10	
15,026.00	90.50	90.60	9,488.95	5,578.55	-877.88	5,578.09	5,646.75	98.94	562,800.12	612,180.09	
15,121.00	89.80	90.00	9,488.70	5,673.54	-878.38	5,673.08	5,740.68	98.80	562,799.62	612,275.08	
15,214.00	89.40	90.40	9,489.35	5,766.54	-878.71	5,766.08	5,832.65	98.66	562,799.29	612,368.08	
15,309.00	87.40	90.00	9,492.01	5,861.50	-879.04	5,861.04	5,926.59	98.53	562,798.96	612,463.04	
15,403.00	86.60	89.40	9,496.93	5,955.37	-878.55	5,954.91	6,019.37	98.39	562,799.45	612,556.91	
15,497.00	87.10	89.80	9,502.09	6,049.22	-877.89	6,048.76	6,112.14	98.26	562,800.11	612,650.76	
15,592.00	88.50	90.00	9,505.74	6,144.15	-877.73	6,143.69	6,206.07	98.13	562,800.27	612,745.69	
15,686.00	90.50	90.90	9,506.56	6,238.14	-878.46	6,237.68	6,299.23	98.02	562,799.54	612,839.68	
15,780.00	87.20	91.20	9,508.44	6,332.09	-880.19	6,331.63	6,392.52	97.91	562,797.81	612,933.63	
15,875.00	86.10	90.50	9,514.00	6,426.92	-881.59	6,426.45	6,486.64	97.81	562,796.41	613,028.45	
15,969.00	88.10	91.10	9,518.75	6,520.78	-882.90	6,520.32	6,579.82	97.71	562,795.10	613,122.32	
16,063.00	90.40	91.70	9,519.98	6,614.74	-885.20	6,614.28	6,673.25	97.62	562,792.80	613,216.28	
16,157.00	90.70	91.60	9,519.08	6,708.70	-887.91	6,708.23	6,766.74	97.54	562,790.09	613,310.23	
16,251.00	88.30	91.70	9,519.90	6,802.65	-890.61	6,802.18	6,860.24	97.46	562,787.39	613,404.18	
16,345.00	87.60	91.50	9,523.26	6,896.55	-893.24	6,896.09	6,953.70	97.38	562,784.76	613,498.09	
16,440.00	87.90	91.80	9,526.99	6,991.44	-895.97	6,990.97	7,048.15	97.30	562,782.03	613,592.97	
16,534.00	89.30	92.30	9,529.29	7,085.35	-899.33	7,084.88	7,141.73	97.23	562,778.67	613,686.88	
16,628.00	87.90	91.20	9,531.58	7,179.28	-902.20	7,178.81	7,235.28	97.16	562,775.80	613,780.81	
16,722.00	87.20	90.80	9,535.60	7,273.18	-903.84	7,272.71	7,328.66	97.08	562,774.16	613,874.71	
16,816.00	86.50	90.70	9,540.77	7,367.03	-905.07	7,366.56	7,421.95	97.00	562,772.93	613,968.56	
16,910.00	85.40	89.90	9,547.41	7,460.79	-905.56	7,460.32	7,515.08	96.92	562,772.44	614,062.32	
17,024.00	86.90	88.30	9,555.06	7,574.51	-903.77	7,574.04	7,627.77	96.80	562,774.23	614,176.04	
17,118.00	88.60	88.60	9,558.75	7,668.40	-901.23	7,667.93	7,720.71	96.70	562,776.77	614,269.93	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 222H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 222H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-134.5'-19475', PTB: 19547'	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)
17,212.00	89.30	87.90	9,560.48	7,762.34	-898.36	7,761.87	7,813.68	96.60	562,779.64	614,363.87
17,306.00	89.90	90.10	9,561.13	7,856.31	-896.72	7,855.85	7,906.86	96.51	562,781.28	614,457.85
17,400.00	90.10	90.10	9,561.13	7,950.31	-896.89	7,949.85	8,000.28	96.44	562,781.11	614,551.85
17,495.00	89.50	89.80	9,561.46	8,045.31	-896.80	8,044.84	8,094.68	96.36	562,781.20	614,646.84
17,589.00	89.20	89.30	9,562.53	8,139.30	-896.06	8,138.83	8,188.01	96.28	562,781.94	614,740.83
17,683.00	89.10	89.90	9,563.92	8,233.29	-895.41	8,232.82	8,281.37	96.21	562,782.59	614,834.82
17,777.00	89.00	90.40	9,565.48	8,327.28	-895.65	8,326.81	8,374.84	96.14	562,782.35	614,928.81
17,872.00	88.70	90.20	9,567.39	8,422.26	-896.15	8,421.79	8,469.33	96.07	562,781.85	615,023.79
17,966.00	91.30	88.70	9,567.39	8,516.24	-895.25	8,515.77	8,562.70	96.00	562,782.75	615,117.77
18,061.00	90.40	88.10	9,565.98	8,611.19	-892.60	8,610.72	8,656.86	95.92	562,785.40	615,212.72
18,156.00	90.10	87.20	9,565.57	8,706.11	-888.70	8,705.64	8,750.88	95.83	562,789.30	615,307.64
18,250.00	90.10	87.50	9,565.40	8,800.00	-884.36	8,799.54	8,843.87	95.74	562,793.64	615,401.54
18,344.00	90.10	87.70	9,565.24	8,893.92	-880.42	8,893.46	8,936.93	95.65	562,797.58	615,495.46
18,439.00	89.90	87.80	9,565.24	8,988.84	-876.69	8,988.39	9,031.04	95.57	562,801.31	615,590.39
18,534.00	90.00	87.20	9,565.32	9,083.75	-872.55	9,083.29	9,125.11	95.49	562,805.45	615,685.29
18,627.00	89.90	87.20	9,565.40	9,176.64	-868.00	9,176.18	9,217.15	95.40	562,810.00	615,778.18
18,721.00	89.70	87.80	9,565.73	9,270.54	-863.90	9,270.09	9,310.26	95.32	562,814.10	615,872.09
18,815.00	88.20	88.40	9,567.45	9,364.47	-860.79	9,364.02	9,403.50	95.25	562,817.21	615,966.02
18,910.00	88.20	88.80	9,570.44	9,459.39	-858.47	9,458.95	9,497.82	95.19	562,819.53	616,060.95
19,004.00	87.70	88.60	9,573.80	9,553.31	-856.34	9,552.86	9,591.17	95.12	562,821.66	616,154.86
19,098.00	87.60	88.60	9,577.65	9,647.20	-854.04	9,646.75	9,684.49	95.06	562,823.96	616,248.75
19,192.00	88.80	89.30	9,580.61	9,741.14	-852.32	9,740.69	9,777.91	95.00	562,825.68	616,342.69
19,286.00	89.10	89.70	9,582.33	9,835.12	-851.50	9,834.67	9,871.46	94.95	562,826.50	616,436.67
19,381.00	89.30	90.30	9,583.65	9,930.11	-851.50	9,929.66	9,966.10	94.90	562,826.50	616,531.66
19,475.00	89.10	89.70	9,584.97	10,024.10	-851.50	10,023.65	10,059.75	94.86	562,826.50	616,625.65
Last Survey: 19475' MD										



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 222H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 222H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-134.5'-19475', PTB: 19547'	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)
19,494.00	89.10	89.70	9,585.27	10,043.09	-851.40	10,042.65	10,078.67	94.85	562,826.60	616,644.65
LTP: 19494' MD										
19,547.00	89.10	89.70	9,586.10	10,096.09	-851.12	10,095.64	10,131.46	94.82	562,826.88	616,697.64
PTB: 19547' MD										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
506.00	506.00	1.20	-0.49	Pro MWD First Survey: 506' MD
19,475.00	9,584.97	-851.50	10,023.65	Last Survey: 19475' MD
19,494.00	9,585.27	-851.40	10,042.65	LTP: 19494' MD
19,547.00	9,586.10	-851.12	10,095.64	PTB: 19547' MD