

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

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

¹ Operator name and Address MATADOR PRODUCTION COMPANY 5400 LBJ FREEWAY, STE. 1500, DALLAS, TX 75240		² OGRID Number 228937
		³ Reason for Filing Code/ Effective Date RT
⁴ API Number 30 - 0 15-45983	⁵ Pool Name BURTON FLAT; WOLCAMP, EAST (GAS)	⁶ Pool Code 73480
⁷ Property Code 326053	⁸ Property Name LEATHERNECK 3029 FEDERAL COM	⁹ Well Number 205H

II. ¹⁰ Surface 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	20S	29E		870	N	309	W	EDDY

¹¹ 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
A	29	20S	29E		890	N	48	E	EDDY
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 8/11/20	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

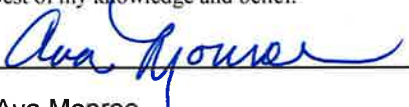
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ 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

²¹ Spud Date 02/02/20	²² Ready Date 08/11/20	²³ TD 9424'/19335'	²⁴ PBDT 19218'	²⁵ Perforations 9435' - 19288'	²⁶ DHC, MC ---
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
SURF: 26"	20" 94# J55	397'	1400 C 1.36		
INT 1: 17 1/2"	13 3/8" 54.5# J55	1199'	515 C 1.34		
INT 2: 12 1/4"	9 5/8" 40# J55	3125'	TOC 1285' 465 C 1.38		
		Stage tool 1285'	548 C 1.73		
PROD: 8 1/2"	5 1/2" 20# P110	19318'	2550 C 1.35		

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² 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			Approval Date: RT EXPIRES: 11/11/2020. ORIGINAL RT WAS RECEIVED		
E-mail Address: amonroe@matadorresources.com			LATE. PLEASE SUBMIT APPROVED 3160-5, C-104 NW, RE-SUBMIT THE ATTACHED C-102 & SURVEY WHEN COMPLETE.		
Date: 09/09/20		Phone: 972-371-5218			

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

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45983	² Pool Code 73480	³ Pool Name BURTON FLAT; WOLFCAMP, EAST
⁴ Property Code 326053	⁵ Property Name LEATHERNECK 3029 FED COM	⁶ Well Number 205H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3238'

¹⁰Surface Location

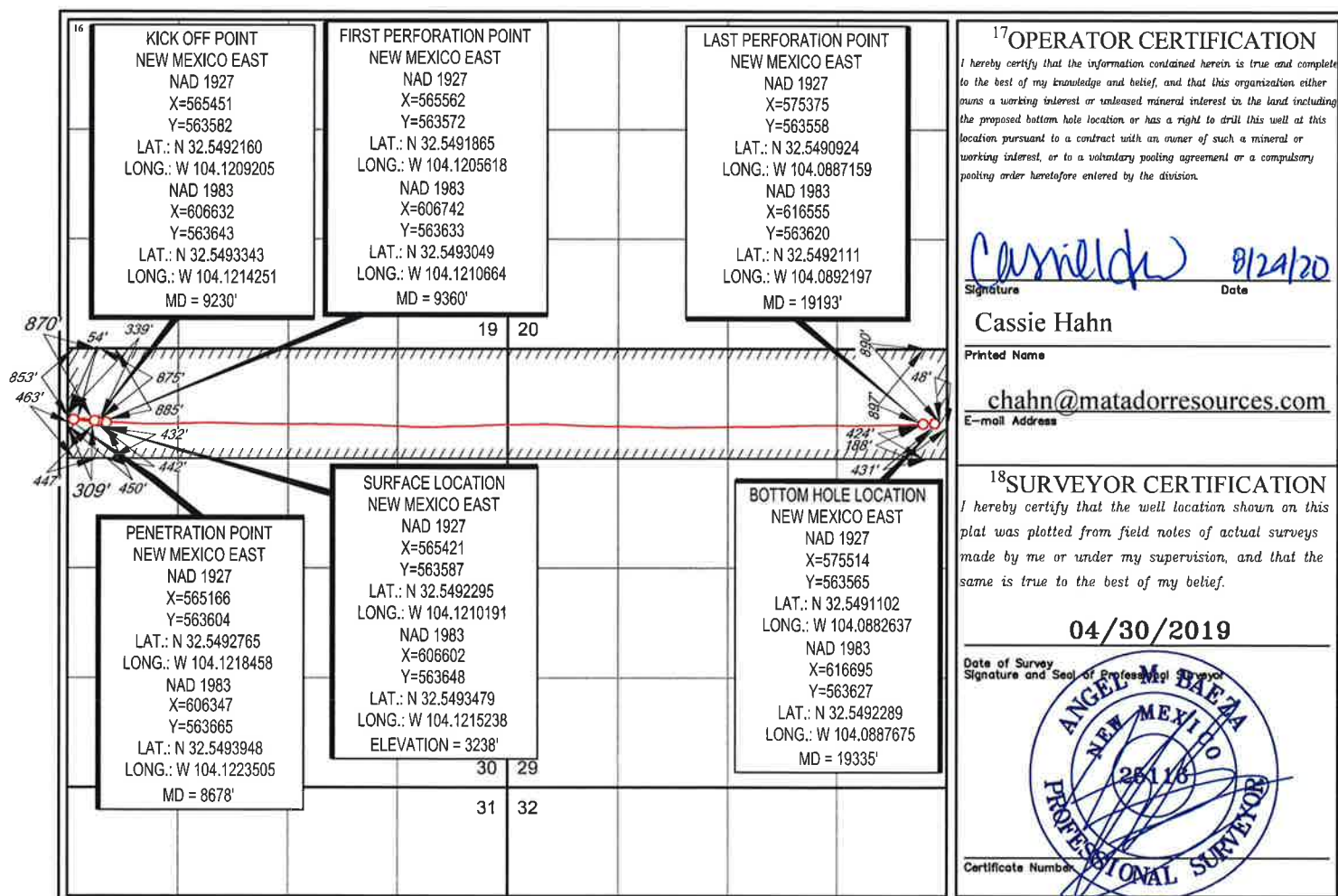
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	30	20-S	29-E	-	870'	NORTH	309'	WEST	EDDY

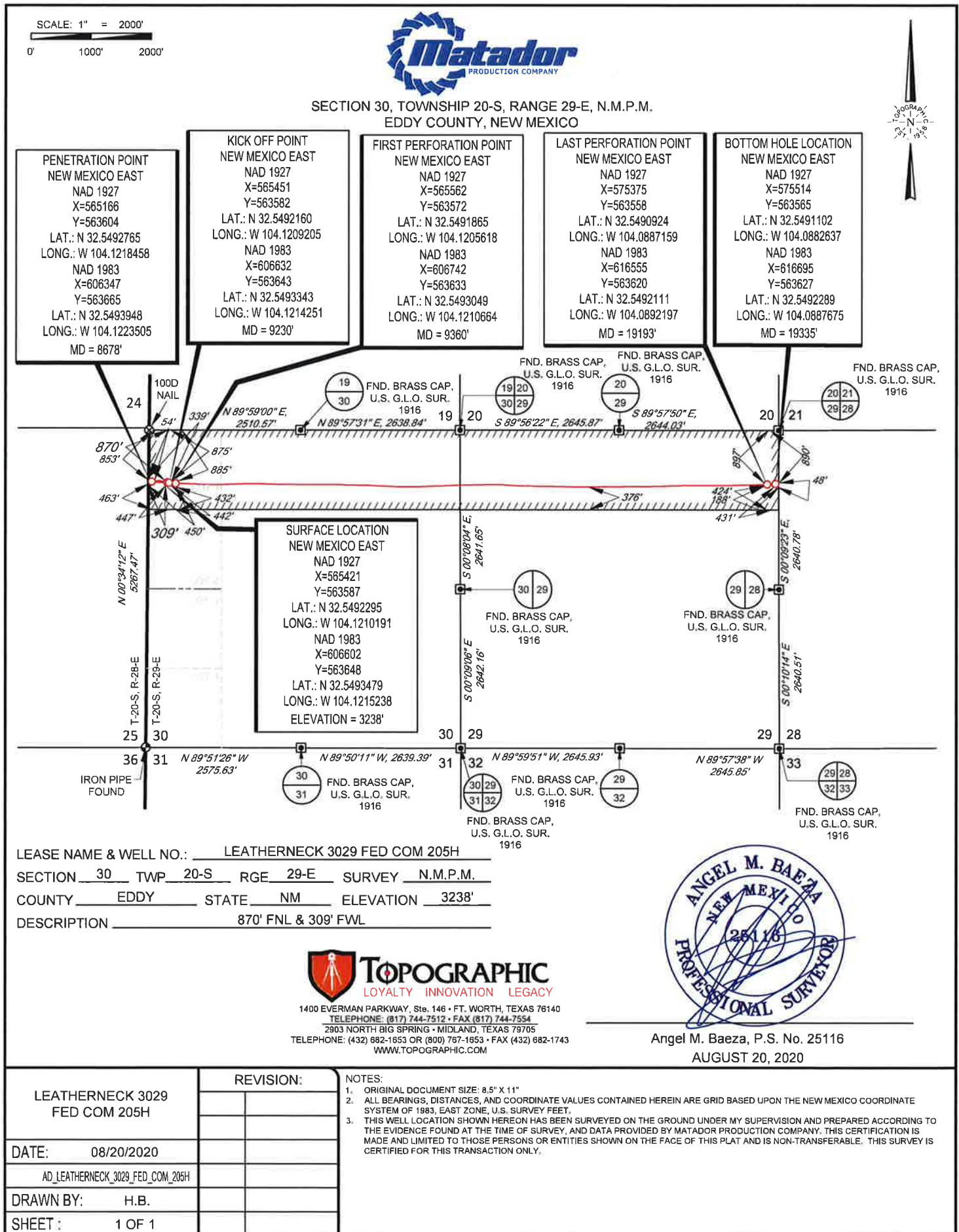
¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	29	20-S	29-E	-	890'	NORTH	48'	EAST	EDDY

¹² Dedicated Acres 316.34	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.







I Mike Cook certify that I am employed by VES Survey International. That I did on the day(s) of 02/02/20 through 02/02/20 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 345.00 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 Resources for the Leatherneck 3029 Fed Com Well # 205H API # 30-015-45983 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.

M. COOK

Mike Cook
Service Technician
VES Survey International



Company: MATADOR RESOURCES
 Lease/Well: LEATHERNECK 3029 FED COM /205H
 API: 30-015-45983
 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: 2/4/2020 / 10:50

VES Survey international

Midland, Texas

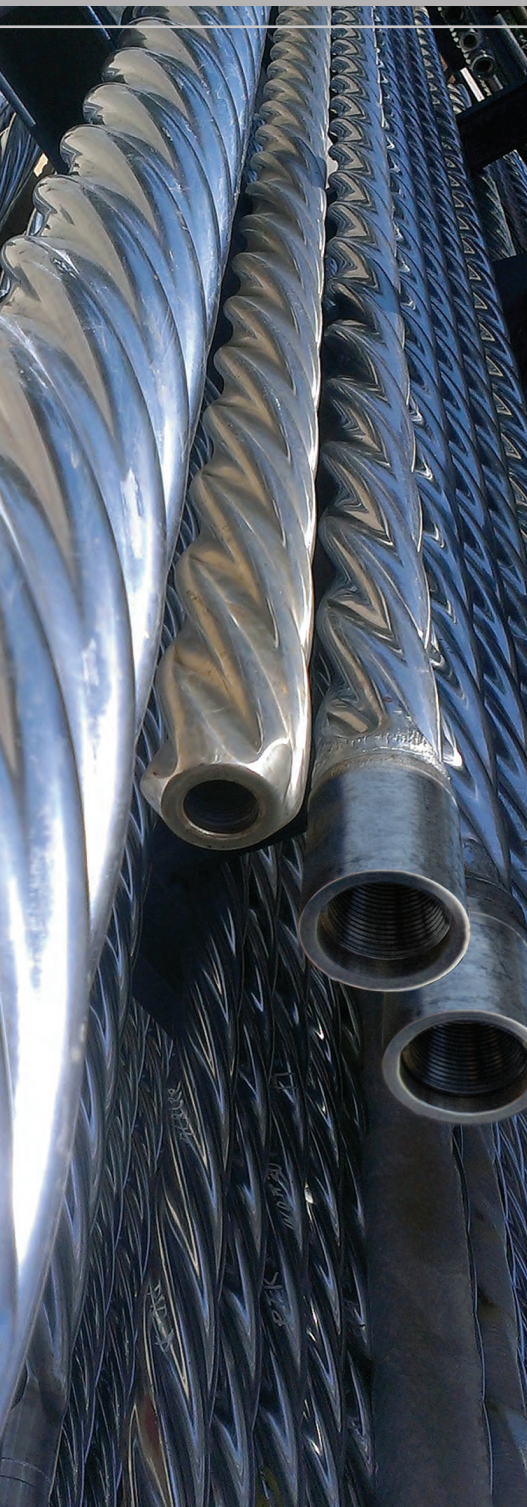
432-563-5444

Surveyor: Mike Cook

Leatherneck 3029 Fed Com 205H / API: 30-015-45983

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	****
134.50	0.34	187.34	134.50	-0.40	-0.05	-0.40	0.40	187.34	0.25
227.25	0.16	229.89	227.25	-0.75	-0.18	-0.75	0.77	193.73	0.27
345.00	0.34	195.07	345.00	-1.19	-0.40	-1.19	1.25	198.46	0.19

HORIZONTAL DISPLACEMENT IS
 1.25 FEET AT 198.46 DEGREES



Leatherneck 3029 Fed Com No. 205H
Eddy County, NM

April 22, 2020

Job No. LNM5103820

Certified Report

April 22, 2020



Operator Name: Matador Resources
Well Name: Leatherneck 3029 Fed Com No. 205H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5103820

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

Surveyor	Surveyed Depths	Projection to Bit	Dates Performed	Type of Survey
ProDirectional	506' MD – 19,135' MD	19,335' MD	02/10/20 – 04/03/20	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. 205H
OH**

Survey: ProDirectional

Survey Report

22 April, 2020





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 205H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-135'-19135', PTB: 19335'	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. 205H				
Well Position	+N/-S	0.00 usft	Northing:	563,648.00 usft	Latitude:	32.549347
	+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-135'-19135', PTB: 19335'			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	90.03



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 205H
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Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-135'-19135', PTB: 19335'	Database:	WellPlanner1

Survey Program		Date 4/22/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
135.00	345.00	Survey #1 (OH)	GYRO-NS-CT	OWSG XYZ Accel with XY Static and Continuous Gyro
506.00	19,335.00	Survey #2 (OH)	MWD+HDGM	OWSG MWD + HRGM

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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	563,648.00	606,602.00	
135.00	0.34	187.34	135.00	-0.05	-0.40	-0.05	0.40	187.34	563,647.60	606,601.95	
227.00	0.16	229.89	227.00	-0.18	-0.75	-0.18	0.77	193.79	563,647.25	606,601.82	
345.00	0.34	195.07	345.00	-0.40	-1.19	-0.40	1.26	198.56	563,646.81	606,601.60	
506.00	1.10	13.30	505.99	-0.17	-0.15	-0.17	0.23	228.15	563,647.85	606,601.83	
Pro MWD First Survey: 506' MD											
598.00	0.50	14.20	597.98	0.13	1.10	0.13	1.10	6.85	563,649.10	606,602.13	
691.00	0.80	299.70	690.98	-0.33	1.81	-0.33	1.84	349.59	563,649.81	606,601.67	
784.00	1.30	259.30	783.96	-1.93	1.94	-1.93	2.74	315.06	563,649.94	606,600.07	
877.00	1.50	263.70	876.93	-4.18	1.61	-4.18	4.48	291.04	563,649.61	606,597.82	
969.00	0.60	254.10	968.92	-5.84	1.34	-5.84	5.99	282.96	563,649.34	606,596.16	
1,062.00	1.10	96.10	1,061.91	-5.42	1.12	-5.42	5.53	281.63	563,649.12	606,596.58	
1,121.00	1.70	82.40	1,120.89	-3.99	1.17	-3.99	4.16	286.35	563,649.17	606,598.01	
1,247.00	2.80	89.20	1,246.80	0.94	1.46	0.94	1.74	32.75	563,649.46	606,602.94	
1,343.00	2.40	94.80	1,342.70	5.29	1.33	5.29	5.45	75.93	563,649.33	606,607.29	
1,438.00	1.00	135.00	1,437.66	7.86	0.57	7.86	7.88	85.83	563,648.57	606,609.86	
1,534.00	2.10	245.60	1,533.63	6.85	-0.75	6.85	6.89	96.22	563,647.25	606,608.85	
1,630.00	4.90	264.30	1,629.45	1.16	-1.88	1.16	2.21	148.25	563,646.12	606,603.16	
1,725.00	6.30	264.70	1,723.99	-8.06	-2.76	-8.06	8.53	251.08	563,645.24	606,593.94	
1,821.00	6.30	267.70	1,819.41	-18.57	-3.46	-18.57	18.89	259.44	563,644.54	606,583.43	
1,917.00	7.40	268.60	1,914.72	-30.01	-3.83	-30.02	30.26	262.74	563,644.17	606,571.98	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 205H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-135'-19135', PTB: 19335'	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)	
2,012.00	7.20	269.20	2,008.95	-42.08	-4.06	-42.08	42.28	264.49	563,643.94	606,559.92	
2,108.00	5.70	270.00	2,104.34	-52.87	-4.14	-52.87	53.03	265.52	563,643.86	606,549.13	
2,203.00	5.70	271.30	2,198.87	-62.30	-4.03	-62.30	62.43	266.29	563,643.97	606,539.70	
2,299.00	6.30	273.00	2,294.35	-72.33	-3.65	-72.33	72.42	267.11	563,644.35	606,529.67	
2,394.00	7.10	274.80	2,388.70	-83.38	-2.89	-83.38	83.43	268.02	563,645.11	606,518.62	
2,490.00	6.40	275.10	2,484.03	-94.62	-1.91	-94.63	94.65	268.84	563,646.09	606,507.37	
2,586.00	6.50	274.80	2,579.42	-105.37	-0.98	-105.37	105.37	269.46	563,647.02	606,496.63	
2,681.00	7.50	274.80	2,673.72	-116.91	-0.02	-116.91	116.91	269.99	563,647.98	606,485.09	
2,777.00	6.80	276.10	2,768.97	-128.80	1.11	-128.80	128.81	270.49	563,649.11	606,473.20	
2,873.00	5.60	279.20	2,864.41	-139.08	2.47	-139.08	139.10	271.02	563,650.47	606,462.92	
2,968.00	5.80	277.40	2,958.94	-148.41	3.82	-148.41	148.46	271.48	563,651.82	606,453.59	
3,054.00	6.50	276.80	3,044.44	-157.56	4.96	-157.56	157.63	271.80	563,652.96	606,444.44	
3,168.00	6.50	275.70	3,157.71	-170.39	6.37	-170.38	170.50	272.14	563,654.37	606,431.62	
3,263.00	7.20	278.00	3,252.03	-181.63	7.73	-181.63	181.79	272.44	563,655.73	606,420.37	
3,359.00	7.00	275.70	3,347.29	-193.41	9.15	-193.41	193.62	272.71	563,657.15	606,408.59	
3,454.00	4.60	280.50	3,441.80	-202.92	10.42	-202.91	203.18	272.94	563,658.42	606,399.09	
3,550.00	4.00	283.40	3,537.53	-209.96	11.89	-209.96	210.29	273.24	563,659.89	606,392.04	
3,645.00	3.90	285.50	3,632.30	-216.30	13.52	-216.29	216.72	273.58	563,661.52	606,385.71	
3,741.00	3.20	283.20	3,728.12	-222.06	15.01	-222.05	222.55	273.87	563,663.01	606,379.95	
3,837.00	3.30	286.80	3,823.97	-227.31	16.42	-227.30	227.89	274.13	563,664.42	606,374.70	
3,932.00	3.30	286.90	3,918.81	-232.55	18.00	-232.54	233.23	274.43	563,666.00	606,369.46	
4,028.00	3.30	288.50	4,014.65	-237.81	19.68	-237.80	238.61	274.73	563,667.68	606,364.20	
4,124.00	3.00	293.20	4,110.50	-242.74	21.55	-242.73	243.68	275.07	563,669.55	606,359.27	
4,219.00	3.60	293.40	4,205.35	-247.76	23.71	-247.75	248.88	275.47	563,671.71	606,354.25	
4,315.00	3.30	292.50	4,301.17	-253.08	25.97	-253.07	254.40	275.86	563,673.97	606,348.93	
4,410.00	3.60	294.00	4,396.00	-258.34	28.23	-258.32	259.86	276.24	563,676.23	606,343.68	
4,506.00	1.50	296.70	4,491.90	-262.21	30.02	-262.20	263.91	276.53	563,678.02	606,339.80	



ProDirectional Survey Report



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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)	
4,601.00	0.90	345.60	4,586.88	-263.51	31.30	-263.49	265.35	276.77	563,679.30	606,338.51	
4,697.00	1.10	328.00	4,682.87	-264.19	32.81	-264.17	266.20	277.08	563,680.81	606,337.83	
4,792.00	1.50	316.70	4,777.84	-265.52	34.49	-265.51	267.74	277.40	563,682.49	606,336.49	
4,888.00	1.40	323.40	4,873.81	-267.09	36.35	-267.07	269.53	277.75	563,684.35	606,334.93	
4,984.00	1.80	311.80	4,969.77	-268.91	38.29	-268.89	271.60	278.11	563,686.29	606,333.11	
5,080.00	1.80	314.60	5,065.73	-271.11	40.36	-271.09	274.07	278.47	563,688.36	606,330.91	
5,174.00	1.80	326.40	5,159.68	-272.98	42.62	-272.96	276.26	278.88	563,690.62	606,329.04	
5,270.00	2.00	326.50	5,255.63	-274.74	45.28	-274.71	278.42	279.36	563,693.28	606,327.29	
5,365.00	1.90	324.20	5,350.57	-276.58	47.94	-276.55	280.67	279.83	563,695.94	606,325.45	
5,461.00	1.70	329.80	5,446.52	-278.22	50.46	-278.20	282.74	280.28	563,698.46	606,323.80	
5,556.00	1.30	142.70	5,541.51	-278.28	50.82	-278.25	282.86	280.35	563,698.82	606,323.75	
5,652.00	1.00	122.20	5,637.49	-276.91	49.50	-276.88	281.28	280.14	563,697.50	606,325.12	
5,747.00	0.70	127.30	5,732.48	-275.75	48.71	-275.72	279.99	280.02	563,696.71	606,326.28	
5,843.00	0.80	216.50	5,828.48	-275.68	47.82	-275.65	279.77	279.84	563,695.82	606,326.35	
5,938.00	0.90	254.40	5,923.47	-276.79	47.08	-276.77	280.74	279.65	563,695.08	606,325.23	
6,034.00	0.70	259.80	6,019.46	-278.09	46.78	-278.07	281.98	279.55	563,694.78	606,323.93	
6,129.00	0.90	90.50	6,114.46	-277.92	46.67	-277.90	281.79	279.53	563,694.67	606,324.10	
6,225.00	1.70	89.80	6,210.43	-275.74	46.67	-275.72	279.64	279.61	563,694.67	606,326.28	
6,321.00	1.20	83.40	6,306.40	-273.32	46.79	-273.29	277.27	279.71	563,694.79	606,328.71	
6,417.00	0.80	77.40	6,402.38	-271.67	47.05	-271.64	275.69	279.83	563,695.05	606,330.36	
6,512.00	0.50	103.80	6,497.38	-270.62	47.09	-270.59	274.66	279.87	563,695.09	606,331.41	
6,607.00	0.30	127.30	6,592.38	-270.02	46.84	-269.99	274.03	279.84	563,694.84	606,332.01	
6,703.00	0.60	129.40	6,688.37	-269.43	46.37	-269.40	273.37	279.77	563,694.37	606,332.60	
6,798.00	0.60	170.10	6,783.37	-268.96	45.57	-268.93	272.77	279.62	563,693.57	606,333.07	
6,894.00	0.50	222.20	6,879.36	-269.15	44.76	-269.13	272.83	279.44	563,692.76	606,332.87	
6,990.00	0.70	205.60	6,975.36	-269.69	43.92	-269.66	273.22	279.25	563,691.92	606,332.34	
7,085.00	1.10	244.10	7,070.35	-270.76	43.00	-270.73	274.13	279.02	563,691.00	606,331.27	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 205H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-135'-19135', PTB: 19335'	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)	
7,181.00	1.30	239.50	7,166.33	-272.52	42.05	-272.50	275.73	278.77	563,690.05	606,329.50	
7,276.00	2.10	238.80	7,261.28	-274.94	40.60	-274.92	277.90	278.40	563,688.60	606,327.08	
7,372.00	3.00	244.30	7,357.19	-278.71	38.60	-278.69	281.35	277.89	563,686.60	606,323.31	
7,467.00	0.70	124.90	7,452.15	-280.47	37.19	-280.45	282.91	277.55	563,685.19	606,321.55	
7,563.00	1.30	140.70	7,548.13	-279.30	36.01	-279.28	281.59	277.35	563,684.01	606,322.72	
7,658.00	1.30	145.40	7,643.11	-278.00	34.29	-277.99	280.09	277.03	563,682.29	606,324.01	
7,754.00	1.90	126.30	7,739.07	-276.10	32.45	-276.09	277.99	276.70	563,680.45	606,325.91	
7,849.00	1.90	128.20	7,834.02	-273.59	30.54	-273.58	275.28	276.37	563,678.54	606,328.42	
7,945.00	1.40	131.40	7,929.98	-271.46	28.78	-271.45	272.97	276.05	563,676.78	606,330.55	
8,040.00	1.40	126.50	8,024.95	-269.66	27.32	-269.65	271.03	275.79	563,675.32	606,332.35	
8,136.00	2.60	156.40	8,120.89	-267.84	24.63	-267.83	268.96	275.25	563,672.63	606,334.17	
8,232.00	2.80	165.70	8,216.79	-266.39	20.36	-266.38	267.16	274.37	563,668.36	606,335.62	
8,327.00	1.50	129.50	8,311.72	-264.86	17.32	-264.85	265.41	273.74	563,665.32	606,337.15	
8,423.00	0.60	96.20	8,407.70	-263.39	16.47	-263.38	263.89	273.58	563,664.47	606,338.62	
8,519.00	0.80	101.80	8,503.70	-262.23	16.28	-262.22	262.73	273.55	563,664.28	606,339.78	
8,613.00	0.70	147.50	8,597.69	-261.28	15.66	-261.27	261.74	273.43	563,663.66	606,340.73	
8,745.00	11.30	78.70	8,728.81	-248.12	17.52	-248.12	248.73	274.04	563,665.52	606,353.88	
8,792.00	17.70	77.20	8,774.29	-236.63	20.01	-236.62	237.47	274.83	563,668.01	606,365.38	
8,841.00	22.90	80.70	8,820.24	-219.95	23.20	-219.94	221.16	276.02	563,671.20	606,382.06	
8,938.00	35.40	86.50	8,904.80	-173.09	27.99	-173.07	175.32	279.19	563,675.99	606,428.93	
9,034.00	42.80	97.50	8,979.34	-112.84	25.42	-112.83	115.66	282.70	563,673.42	606,489.17	
9,130.00	47.90	104.00	9,046.82	-45.86	12.53	-45.86	47.54	285.29	563,660.53	606,556.14	
9,225.00	53.40	102.50	9,107.03	25.63	-4.26	25.63	25.98	99.44	563,643.74	606,627.63	
9,321.00	59.70	92.40	9,160.02	104.88	-14.37	104.88	105.86	97.80	563,633.63	606,706.88	
9,417.00	69.80	90.80	9,200.92	191.56	-16.74	191.56	192.29	94.99	563,631.26	606,793.56	
9,513.00	79.10	90.90	9,226.62	283.94	-18.11	283.93	284.51	93.65	563,629.89	606,885.93	
9,608.00	79.30	92.30	9,244.43	377.22	-20.71	377.21	377.78	93.14	563,627.29	606,979.21	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 205H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-135'-19135', PTB: 19335'	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)	
9,704.00	87.70	93.70	9,255.29	472.39	-25.71	472.37	473.07	93.12	563,622.29	607,074.37	
9,799.00	87.70	92.50	9,259.10	567.17	-30.84	567.16	567.99	93.11	563,617.16	607,169.16	
9,894.00	88.60	91.20	9,262.16	662.07	-33.91	662.05	662.92	92.93	563,614.09	607,264.05	
9,990.00	89.90	89.90	9,263.42	758.05	-34.83	758.04	758.84	92.63	563,613.17	607,360.04	
10,086.00	90.70	88.60	9,262.92	854.04	-33.57	854.02	854.68	92.25	563,614.43	607,456.02	
10,182.00	88.00	88.10	9,264.01	949.99	-30.81	949.97	950.47	91.86	563,617.19	607,551.97	
10,277.00	87.50	88.90	9,267.74	1,044.88	-28.33	1,044.86	1,045.25	91.55	563,619.67	607,646.86	
10,327.00	86.90	87.90	9,270.18	1,094.80	-26.93	1,094.78	1,095.11	91.41	563,621.07	607,696.78	
10,405.00	87.10	86.70	9,274.26	1,172.60	-23.26	1,172.59	1,172.82	91.14	563,624.74	607,774.59	
10,500.00	87.30	89.20	9,278.90	1,267.42	-19.87	1,267.41	1,267.56	90.90	563,628.13	607,869.41	
10,596.00	87.90	90.30	9,282.92	1,363.33	-19.45	1,363.32	1,363.46	90.82	563,628.55	607,965.32	
10,692.00	87.90	91.60	9,286.44	1,459.25	-21.04	1,459.24	1,459.39	90.83	563,626.96	608,061.24	
10,782.00	88.30	90.70	9,289.43	1,549.18	-22.85	1,549.17	1,549.34	90.84	563,625.15	608,151.17	
10,875.00	88.00	91.90	9,292.43	1,642.11	-24.95	1,642.10	1,642.29	90.87	563,623.05	608,244.10	
10,968.00	87.40	92.40	9,296.16	1,734.97	-28.44	1,734.96	1,735.19	90.94	563,619.56	608,336.96	
11,061.00	87.20	91.30	9,300.54	1,827.82	-31.44	1,827.80	1,828.07	90.99	563,616.56	608,429.80	
11,153.00	87.70	90.60	9,304.63	1,919.71	-32.96	1,919.70	1,919.98	90.98	563,615.04	608,521.70	
11,246.00	87.30	89.60	9,308.69	2,012.62	-33.13	2,012.61	2,012.88	90.94	563,614.87	608,614.61	
11,339.00	88.40	90.40	9,312.18	2,105.56	-33.13	2,105.54	2,105.80	90.90	563,614.87	608,707.54	
11,432.00	89.10	91.50	9,314.21	2,198.52	-34.67	2,198.50	2,198.78	90.90	563,613.33	608,800.50	
11,526.00	90.70	90.60	9,314.37	2,292.50	-36.39	2,292.48	2,292.77	90.91	563,611.61	608,894.48	
11,622.00	91.90	89.80	9,312.20	2,388.47	-36.72	2,388.45	2,388.74	90.88	563,611.28	608,990.45	
11,718.00	92.70	88.70	9,308.34	2,484.39	-35.47	2,484.37	2,484.62	90.82	563,612.53	609,086.37	
11,812.00	92.60	90.00	9,304.00	2,578.28	-34.40	2,578.26	2,578.49	90.76	563,613.60	609,180.26	
11,908.00	91.60	90.30	9,300.48	2,674.21	-34.66	2,674.19	2,674.42	90.74	563,613.34	609,276.19	
12,003.00	87.90	91.00	9,300.89	2,769.19	-35.73	2,769.17	2,769.40	90.74	563,612.27	609,371.17	
12,099.00	86.90	91.70	9,305.25	2,865.06	-37.99	2,865.04	2,865.29	90.76	563,610.01	609,467.04	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 205H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-135'-19135', PTB: 19335'	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)	
12,194.00	86.70	91.70	9,310.55	2,959.87	-40.81	2,959.85	2,960.13	90.79	563,607.19	609,561.85	
12,290.00	86.80	90.10	9,315.99	3,055.70	-42.31	3,055.68	3,055.97	90.79	563,605.69	609,657.68	
12,385.00	90.60	91.40	9,318.15	3,150.65	-43.56	3,150.63	3,150.93	90.79	563,604.44	609,752.63	
12,481.00	89.80	90.80	9,317.81	3,246.63	-45.40	3,246.61	3,246.93	90.80	563,602.60	609,848.61	
12,576.00	86.90	92.30	9,320.55	3,341.55	-47.97	3,341.52	3,341.87	90.82	563,600.03	609,943.52	
12,672.00	87.30	92.30	9,325.41	3,437.35	-51.81	3,437.32	3,437.71	90.86	563,596.19	610,039.32	
12,767.00	88.60	92.30	9,328.80	3,532.21	-55.62	3,532.18	3,532.62	90.90	563,592.38	610,134.18	
12,863.00	89.20	92.30	9,330.65	3,628.12	-59.48	3,628.09	3,628.58	90.94	563,588.52	610,230.09	
12,959.00	89.20	92.50	9,331.99	3,724.03	-63.49	3,723.99	3,724.54	90.98	563,584.51	610,325.99	
13,055.00	89.90	93.30	9,332.74	3,819.90	-68.35	3,819.87	3,820.48	91.03	563,579.65	610,421.87	
13,150.00	88.20	90.50	9,334.32	3,914.83	-71.50	3,914.79	3,915.44	91.05	563,576.50	610,516.79	
13,246.00	88.50	89.40	9,337.08	4,010.78	-71.42	4,010.75	4,011.38	91.02	563,576.58	610,612.75	
13,341.00	87.80	88.10	9,340.15	4,105.71	-69.35	4,105.67	4,106.26	90.97	563,578.65	610,707.67	
13,436.00	89.50	88.10	9,342.39	4,200.62	-66.20	4,200.59	4,201.11	90.90	563,581.80	610,802.59	
13,532.00	89.90	88.60	9,342.89	4,296.58	-63.43	4,296.55	4,297.02	90.85	563,584.57	610,898.55	
13,628.00	90.20	88.40	9,342.81	4,392.55	-60.92	4,392.52	4,392.94	90.79	563,587.08	610,994.52	
13,723.00	90.60	88.30	9,342.14	4,487.50	-58.18	4,487.47	4,487.85	90.74	563,589.82	611,089.47	
13,819.00	89.10	87.50	9,342.39	4,583.43	-54.67	4,583.41	4,583.73	90.68	563,593.33	611,185.41	
13,914.00	88.40	86.70	9,344.47	4,678.29	-49.86	4,678.26	4,678.53	90.61	563,598.14	611,280.26	
14,010.00	87.80	87.70	9,347.65	4,774.11	-45.18	4,774.09	4,774.30	90.54	563,602.82	611,376.09	
14,105.00	89.20	89.20	9,350.14	4,869.04	-42.61	4,869.02	4,869.21	90.50	563,605.39	611,471.02	
14,201.00	90.50	89.70	9,350.39	4,965.03	-41.69	4,965.01	4,965.19	90.48	563,606.31	611,567.01	
14,296.00	89.70	89.10	9,350.22	5,060.03	-40.69	5,060.01	5,060.17	90.46	563,607.31	611,662.01	
14,392.00	92.30	88.50	9,348.55	5,155.98	-38.68	5,155.96	5,156.11	90.43	563,609.32	611,757.96	
14,487.00	93.10	88.10	9,344.07	5,250.83	-35.87	5,250.81	5,250.94	90.39	563,612.13	611,852.81	
14,583.00	92.70	90.00	9,339.21	5,346.69	-34.28	5,346.67	5,346.78	90.37	563,613.72	611,948.67	
14,678.00	90.80	91.00	9,336.31	5,441.64	-35.11	5,441.62	5,441.73	90.37	563,612.89	612,043.62	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 205H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-135'-19135', PTB: 19335'	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)	
14,774.00	90.20	92.40	9,335.47	5,537.59	-37.95	5,537.57	5,537.70	90.39	563,610.05	612,139.57	
14,870.00	89.10	93.30	9,336.06	5,633.47	-42.73	5,633.45	5,633.61	90.43	563,605.27	612,235.45	
14,965.00	90.00	93.30	9,336.81	5,728.31	-48.19	5,728.29	5,728.49	90.48	563,599.81	612,330.29	
15,061.00	87.60	92.10	9,338.82	5,824.18	-52.72	5,824.15	5,824.39	90.52	563,595.28	612,426.15	
15,157.00	87.90	91.30	9,342.59	5,920.06	-55.56	5,920.03	5,920.29	90.54	563,592.44	612,522.03	
15,252.00	90.50	91.80	9,343.91	6,015.01	-58.13	6,014.98	6,015.26	90.55	563,589.87	612,616.98	
15,348.00	89.20	90.80	9,344.16	6,110.98	-60.31	6,110.95	6,111.25	90.57	563,587.69	612,712.95	
15,444.00	90.10	90.90	9,344.75	6,206.97	-61.73	6,206.94	6,207.24	90.57	563,586.27	612,808.94	
15,539.00	90.70	90.40	9,344.09	6,301.96	-62.81	6,301.93	6,302.24	90.57	563,585.19	612,903.93	
15,635.00	91.70	90.60	9,342.08	6,397.93	-63.65	6,397.90	6,398.22	90.57	563,584.35	612,999.90	
15,731.00	90.40	90.80	9,340.32	6,493.91	-64.82	6,493.88	6,494.20	90.57	563,583.18	613,095.88	
15,826.00	88.90	91.80	9,340.90	6,588.88	-66.98	6,588.85	6,589.19	90.58	563,581.02	613,190.85	
15,922.00	90.20	92.20	9,341.65	6,684.82	-70.33	6,684.78	6,685.15	90.60	563,577.67	613,286.78	
16,039.00	89.00	90.70	9,342.47	6,801.77	-73.29	6,801.74	6,802.13	90.62	563,574.71	613,403.74	
16,135.00	89.40	90.20	9,343.81	6,897.76	-74.04	6,897.72	6,898.12	90.61	563,573.96	613,499.72	
16,230.00	90.00	90.00	9,344.31	6,992.76	-74.21	6,992.72	6,993.12	90.61	563,573.79	613,594.72	
16,326.00	90.30	89.10	9,344.06	7,088.76	-73.45	7,088.72	7,089.10	90.59	563,574.55	613,690.72	
16,421.00	91.00	88.60	9,342.98	7,183.73	-71.55	7,183.69	7,184.05	90.57	563,576.45	613,785.69	
16,517.00	89.80	90.40	9,342.31	7,279.72	-70.71	7,279.68	7,280.02	90.56	563,577.29	613,881.68	
16,613.00	89.30	90.30	9,343.06	7,375.71	-71.29	7,375.68	7,376.02	90.55	563,576.71	613,977.68	
16,708.00	89.50	88.80	9,344.06	7,470.70	-70.55	7,470.66	7,471.00	90.54	563,577.45	614,072.66	
16,804.00	90.20	88.10	9,344.31	7,566.66	-67.95	7,566.63	7,566.93	90.51	563,580.05	614,168.63	
16,900.00	88.50	89.80	9,345.40	7,662.63	-66.19	7,662.60	7,662.88	90.49	563,581.81	614,264.60	
16,996.00	89.10	90.70	9,347.41	7,758.61	-66.61	7,758.58	7,758.86	90.49	563,581.39	614,360.58	
17,091.00	88.90	90.10	9,349.06	7,853.59	-67.27	7,853.56	7,853.85	90.49	563,580.73	614,455.56	
17,187.00	88.00	89.00	9,351.66	7,949.55	-66.52	7,949.52	7,949.80	90.48	563,581.48	614,551.52	
17,283.00	88.20	88.50	9,354.84	8,045.47	-64.43	8,045.44	8,045.70	90.46	563,583.57	614,647.44	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 205H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-135'-19135', PTB: 19335'	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)
17,378.00	89.40	88.50	9,356.83	8,140.42	-61.94	8,140.39	8,140.62	90.44	563,586.06	614,742.39
17,474.00	90.30	88.30	9,357.09	8,236.38	-59.26	8,236.35	8,236.56	90.41	563,588.74	614,838.35
17,570.00	90.10	87.00	9,356.75	8,332.29	-55.33	8,332.26	8,332.45	90.38	563,592.67	614,934.26
17,665.00	90.80	88.80	9,356.00	8,427.22	-51.84	8,427.19	8,427.35	90.35	563,596.16	615,029.19
17,761.00	90.90	89.90	9,354.58	8,523.20	-50.76	8,523.17	8,523.33	90.34	563,597.24	615,125.17
17,856.00	91.30	89.40	9,352.76	8,618.18	-50.18	8,618.15	8,618.30	90.33	563,597.82	615,220.15
17,952.00	90.50	90.20	9,351.25	8,714.17	-49.84	8,714.14	8,714.28	90.33	563,598.16	615,316.14
18,048.00	89.80	89.40	9,351.00	8,810.16	-49.51	8,810.14	8,810.28	90.32	563,598.49	615,412.14
18,143.00	88.00	90.40	9,352.82	8,905.14	-49.34	8,905.12	8,905.25	90.32	563,598.66	615,507.12
18,238.00	86.60	90.80	9,357.30	9,000.03	-50.33	9,000.00	9,000.14	90.32	563,597.67	615,602.00
18,333.00	86.60	90.10	9,362.93	9,094.86	-51.08	9,094.83	9,094.98	90.32	563,596.92	615,696.83
18,429.00	86.10	88.90	9,369.04	9,190.66	-50.24	9,190.63	9,190.77	90.31	563,597.76	615,792.63
18,524.00	87.10	88.70	9,374.68	9,285.47	-48.26	9,285.44	9,285.57	90.30	563,599.74	615,887.44
18,620.00	90.30	89.10	9,376.85	9,381.41	-46.41	9,381.39	9,381.50	90.28	563,601.59	615,983.39
18,715.00	91.70	88.80	9,375.20	9,476.38	-44.67	9,476.35	9,476.46	90.27	563,603.33	616,078.35
18,811.00	89.90	89.10	9,373.85	9,572.35	-42.91	9,572.32	9,572.42	90.26	563,605.09	616,174.32
18,906.00	86.50	88.30	9,376.84	9,667.26	-40.76	9,667.24	9,667.32	90.24	563,607.24	616,269.24
19,002.00	83.60	87.60	9,385.12	9,762.83	-37.34	9,762.81	9,762.88	90.22	563,610.66	616,364.81
19,135.00	83.30	87.20	9,400.29	9,894.82	-31.35	9,894.80	9,894.85	90.18	563,616.65	616,496.80
Last Survey: 19135' MD										
19,335.00	83.30	87.20	9,423.63	10,093.21	-21.64	10,093.20	10,093.22	90.12	563,626.36	616,695.20
PTB: 19335' MD										



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 205H
Project:	Eddy County, NM (NAD83)	TVD Reference:	Well @ 3266.50usft
Site:	Leatherneck 3029 Fed Com	MD Reference:	Well @ 3266.50usft
Well:	No. 205H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-135'-19135', PTB: 19335'	Database:	WellPlanner1

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
506.00	505.99	-0.15	-0.17	Pro MWD First Survey: 506' MD
19,135.00	9,400.29	-31.35	9,894.80	Last Survey: 19135' MD
19,335.00	9,423.63	-21.64	10,093.20	PTB: 19335' MD