

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

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	
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	
		⁶ Well Number 205H
		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

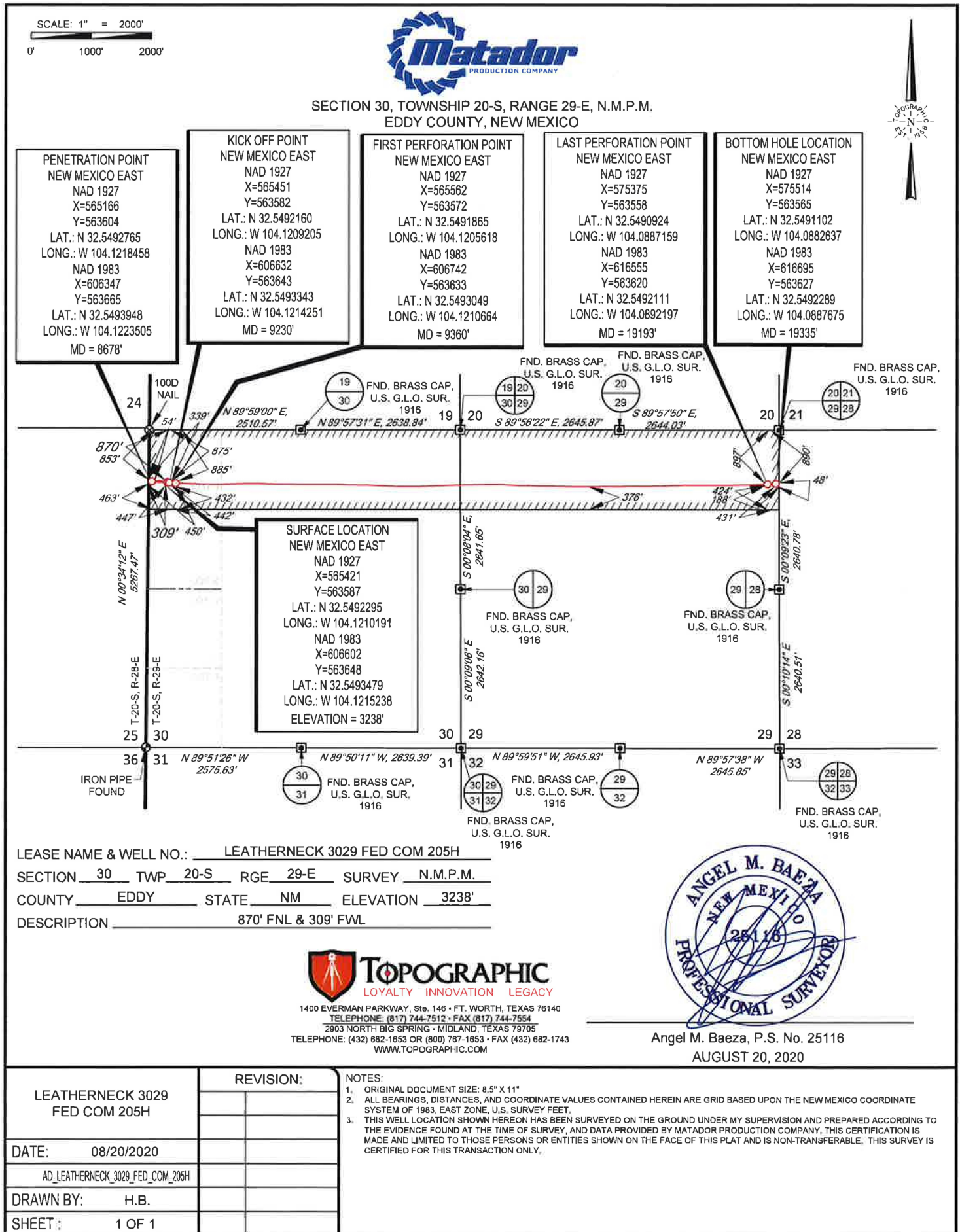
¹¹Bottom Hole Location If Different From Surface

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.

¹⁶ KICK OFF POINT NEW MEXICO EAST NAD 1927 X=565451 Y=563582 LAT.: N 32.5492160 LONG.: W 104.1209205 NAD 1983 X=606632 Y=563643 LAT.: N 32.5493343 LONG.: W 104.1214251 MD = 9230'	FIRST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=565562 Y=563572 LAT.: N 32.5491865 LONG.: W 104.1205618 NAD 1983 X=606742 Y=563633 LAT.: N 32.5493049 LONG.: W 104.1210664 MD = 9360'	LAST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=575375 Y=563558 LAT.: N 32.5490924 LONG.: W 104.0887159 NAD 1983 X=616555 Y=563620 LAT.: N 32.5492111 LONG.: W 104.0892197 MD = 19193'	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 released 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=565166 Y=563604 LAT.: N 32.5492765 LONG.: W 104.1218458 NAD 1983 X=606347 Y=563665 LAT.: N 32.5493948 LONG.: W 104.1223505 MD = 8678'	SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=565421 Y=563587 LAT.: N 32.5492295 LONG.: W 104.1210191 NAD 1983 X=606602 Y=563648 LAT.: N 32.5493479 LONG.: W 104.1215238 ELEVATION = 3238'	BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=575514 Y=563565 LAT.: N 32.5491102 LONG.: W 104.0882637 NAD 1983 X=616695 Y=563627 LAT.: N 32.5492289 LONG.: W 104.0887675 MD = 19335'	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





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

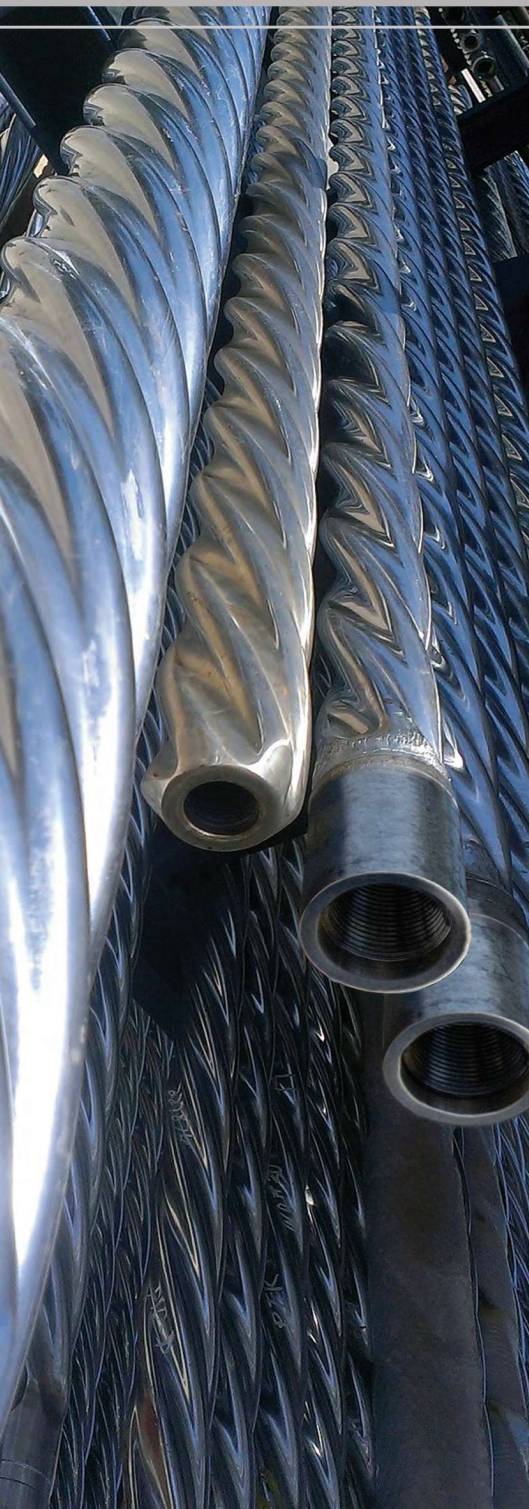
Surveyor: Mike Cook

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



Survey Certification Letter

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:

<u>Surveyor</u>	<u>Surveyed Depths</u>	<u>Projection to Bit</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
ProDirectional	506' MD – 19,135' 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: Project: Site: Well: Wellbore: Design:	Matador Resources Eddy County, NM (NAD83) Leatherneck 3029 Fed Com No. 205H OH MWD-135'-19135', PTB: 19335'	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Well No. 205H Well @ 3266.50usft Well @ 3266.50usft Grid Minimum Curvature WellPlanner1
Project	Eddy County, NM (NAD83)		
Map System: Geo Datum: Map Zone:	US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone	System Datum:	Mean Sea Level
Site	Leatherneck 3029 Fed Com		
Site Position: From: Position Uncertainty:	Map 0.00 usft	Northing: Easting: Slot Radius:	562,948.00 usft 606,522.00 usft 13-3/16 " Latitude: Longitude: Grid Convergence:
			32.547423 -104.121786 0.11 °
Well	No. 205H		
Well Position +N/-S +E/-W	0.00 usft 0.00 usft 0.00 usft	Northing: Easting: Wellhead Elevation:	563,648.00 usft 606,602.00 usft usft
			Latitude: Longitude: Ground Level:
			32.549347 -104.121522 3,238.00 usft
Wellbore	OH		
Magnetics	Model Name Sample Date	Declination (°)	Dip Angle (°)
	HDGM 2/13/2020	7.12	60.28
			Field Strength (nT)
			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)
	0.00	0.00	0.00
			Direction (°)
			90.03



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD83)
Site: Leatherneck 3029 Fed Corn
Well: No. 205H
Wellbore: OH
Design: MWD-135'-19135', PTB: 19335'

Local Co-ordinate Reference: Well No. 205H
TVD Reference: Well @ 3266.50usft
MD Reference: Well @ 3266.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey Program **Date** 4/22/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
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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
Project: Eddy County, NM (NAD83)
Site: Leatherneck 3029 Fed Corn
Well: No. 205H
Wellbore: OH
Design: MWD-135'-19135', PTB: 19335'

Local Co-ordinate Reference:
TVD Reference: Well @ 3266.50usft
MD Reference: Well @ 3266.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Well No. 205H
Well @ 3266.50usft
Well @ 3266.50usft
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)
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



Company: Matador Resources
Project: Eddy County, NM (NAD83)
Site: Leatherneck 3029 Fed Corn
Well: No. 205H
Wellbore: OH
Design: MWD-135'-19135', PTB: 19335'

Local Co-ordinate Reference:
TVD Reference: Well @ 3266.50usft
MD Reference: Well @ 3266.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Well No. 205H
Well @ 3266.50usft
Well @ 3266.50usft
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)
4,601.00	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:											
Project: Eddy County, NM (NAD83)		Well No. 205H											
Site: Leatherneck 3029 Fed Corn		TVD Reference: Well @ 3266.50usft											
Well: No. 205H		MD Reference: Well @ 3266.50usft											
Wellbore: OH		Grid											
Design: MWD-135'-19135', PTB: 19335'		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)			
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
Project: Eddy County, NM (NAD83)
Site: Leatherneck 3029 Fed Corn
Well: No. 205H
Wellbore: OH
Design: MWD-135'-19135', PTB: 19335'

Local Co-ordinate Reference:

TVD Reference: Well @ 3266.50usft
MD Reference: Well @ 3266.50usft
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)
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
Project: Eddy County, NM (NAD83)
Site: Leatherneck 3029 Fed Corn
Well: No. 205H
Wellbore: OH
Design: MWD-135'-19135', PTB: 19335'

Local Co-ordinate Reference:
TVD Reference: Well @ 3266.50usft
MD Reference: Well @ 3266.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Well No. 205H
Well @ 3266.50usft
Well @ 3266.50usft
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)
12,194.00	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
Project: Eddy County, NM (NAD83)
Site: Leatherneck 3029 Fed Corn
Well: No. 205H
Wellbore: OH
Design: MWD-135'-19135', PTB: 19335'

Local Co-ordinate Reference:
TVD Reference: Well @ 3266.50usft
MD Reference: Well @ 3266.50usft
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)
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



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Project: Eddy County, NM (NAD83)
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Local Co-ordinate Reference:
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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)
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	
				+N/-S (usft)	+E/-W (usft)
				Comment	
506.00		505.99		-0.17	Pro MWD First Survey: 506' MD
19,135.00		9,400.29		9,894.80	Last Survey: 19135' MD
19,335.00		9,423.63		10,093.20	PTB: 19335' MD