

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

REC'D NMOCD
11/23/2020

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 30-015-46564	² Pool Code 98220	³ Pool Name PURPLE SAGE;WOLFCAMP (GAS)
⁴ Property Code 326329	⁵ Property Name BOROS FEDERAL	⁶ Well Number 202H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3226'

¹⁰Surface Location

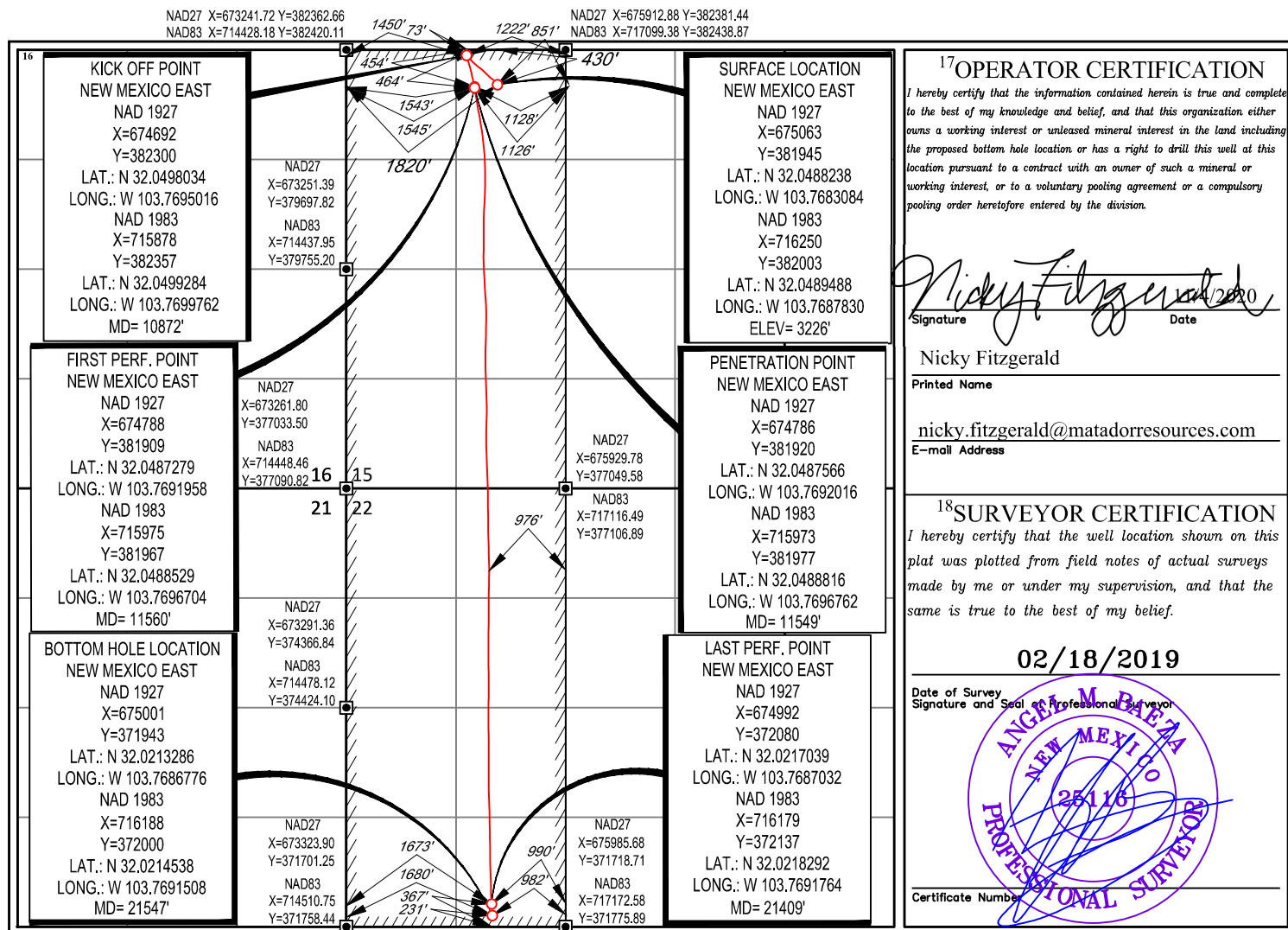
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	15	26-S	31-E	-	430'	NORTH	1820'	WEST	EDDY

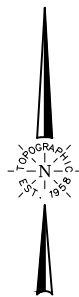
¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	22	26-S	31-E	-	231'	SOUTH	1680'	WEST	EDDY

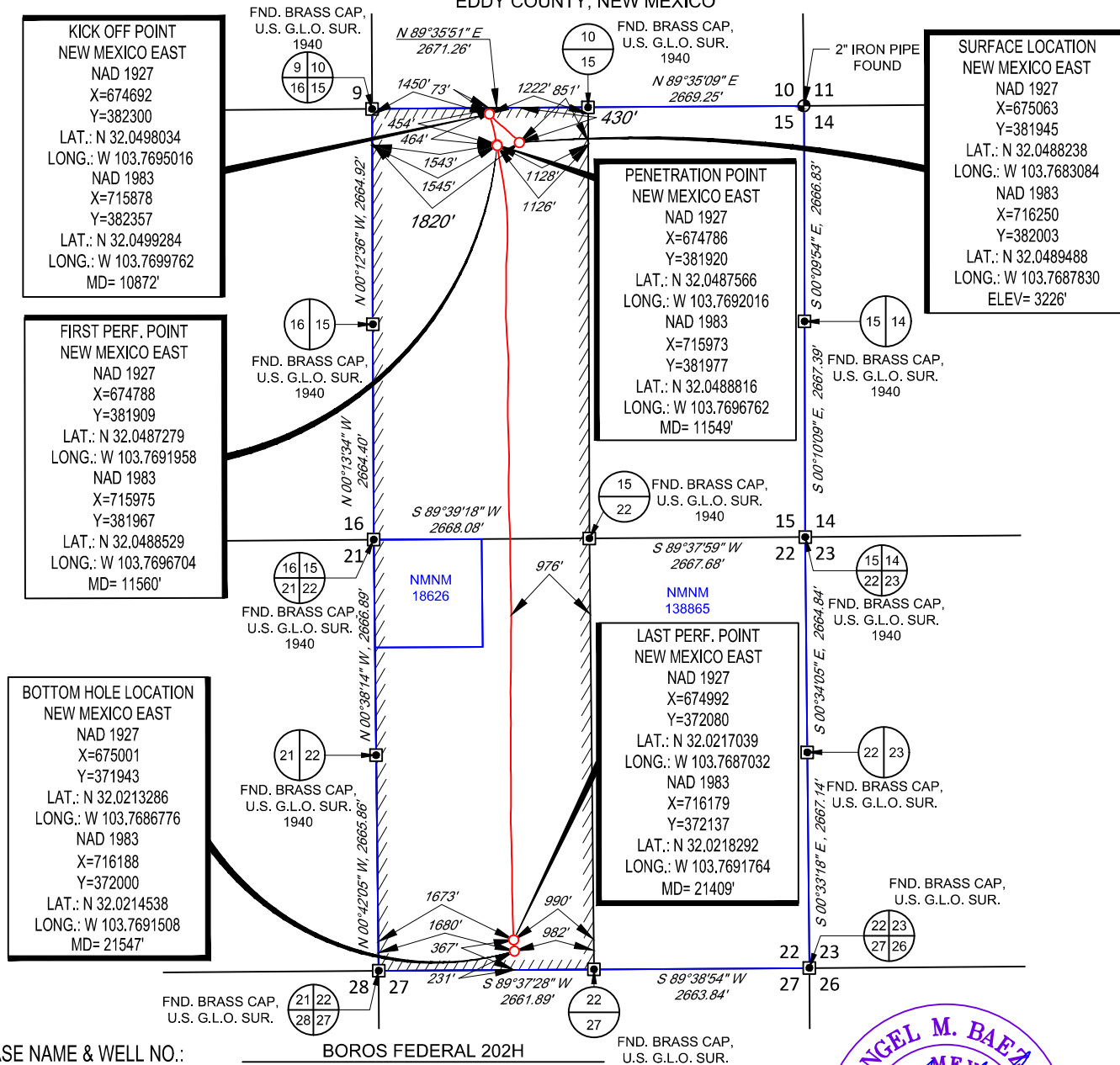
¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





SECTION 15, TOWNSHIP 26-S, RANGE 31-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



LEASE NAME & WELL NO.:		BOROS FEDERAL 202H	
SECTION <u>15</u>	TWP <u>26-S</u>	RGE <u>31-E</u>	SURVEY <u>N.M.P.M.</u>
COUNTY <u>EDDY</u>		STATE <u>NM</u>	
DESCRIPTION		430' FNL & 1820' FWL	



Angel M. Baeza, P.S. No. 25116
October 13, 2020



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

BOROS FEDERAL 202H AS-DRILLED		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: 10/13/2020				
AD_BOROS_FEDERAL_202H				
DRAWN BY: IMU				
SHEET : 2 OF 2				



Final MWD Survey Certification

Eddy County, NM

Client: Matador Resources

Well Name: Boros Fed Com #202H

Total Job No: SW-200222

API No: 30-015-46564

Start Date: 3/22/2020

End Date: 3/28/2020

Measured Start Depth: 0'

Measured End Depth: 10,827'

Vertical Section from well center at PTB: -354.15

I, Cassidy Capson, certify that; I am employed by Total Directional Services, LLC and we conducted or supervised the taking of these open hole MWD surveys at the request of this client. This data is true, correct, complete and within the limitations of the tool as set forth by Total Directional Services, LLC. I am authorized and qualified to make this report and have reviewed this report and find that it conforms to the principals and procedures as set forth by Total Directional Services, LLC.

Date: 3/28/2020

Signed:

Cassidy Capson



Matador Resources Company

Eddy County, NM (NAD27-Grid)

Boros Fed Com

Boros Fed Com 202H

OH

Design: FINAL

Standard Survey Report

04 May, 2020





Survey Report



Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Boros Fed Com 202H
Project:	Eddy County, NM (NAD27-Grid)	TVD Reference:	3226' GE + 28.5' KB @ 3254.5usft
Site:	Boros Fed Com	MD Reference:	3226' GE + 28.5' KB @ 3254.5usft
Well:	Boros Fed Com 202H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	EDM 5000.15 Single User Db

Project	Eddy County, NM (NAD27-Grid)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Boros Fed Com				
Site Position:		Northing:	381,976.00 usft	Latitude:	32.048907
From:	Map	Easting:	675,093.00 usft	Longitude:	-103.768212
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.30 °

Well	Boros Fed Com 202H					
Well Position	+N/-S	0.0 usft	Northing:	381,945.00 usft	Latitude:	32.048823
	+E/-W	0.0 usft	Easting:	675,063.00 usft	Longitude:	-103.768309
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,226.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	3/11/2020	6.77	59.75	47,502.43304678

Design	FINAL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	180.52	

Survey Program	Date	5/4/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
172.0	10,827.0	Survey #1 (OH)	OWSG (Rev2) MWD	OWSG MWD - Standard	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL (Boros Fed Com 202H)									
172.0	0.40	98.40	172.0	-0.1	0.6	0.1	0.23	0.23	0.00
294.0	0.50	122.80	294.0	-0.4	1.5	0.4	0.18	0.08	20.00
385.0	0.40	121.50	385.0	-0.8	2.1	0.8	0.11	-0.11	-1.43
475.0	0.50	129.40	475.0	-1.2	2.6	1.2	0.13	0.11	8.78
566.0	0.30	124.20	566.0	-1.6	3.1	1.6	0.22	-0.22	-5.71
655.0	0.10	124.10	655.0	-1.8	3.4	1.8	0.22	-0.22	-0.11
746.0	0.10	227.90	746.0	-1.9	3.4	1.9	0.17	0.00	114.07
835.0	0.30	255.50	835.0	-2.0	3.1	2.0	0.24	0.22	31.01
925.0	0.60	268.00	925.0	-2.1	2.4	2.1	0.35	0.33	13.89



Survey Report



Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Boros Fed Com 202H
Project:	Eddy County, NM (NAD27-Grid)	TVD Reference:	3226' GE + 28.5' KB @ 3254.5usft
Site:	Boros Fed Com	MD Reference:	3226' GE + 28.5' KB @ 3254.5usft
Well:	Boros Fed Com 202H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,016.0	1.00	262.50	1,016.0	-2.2	1.2	2.2	0.45	0.44	-6.04
1,106.0	0.90	264.30	1,106.0	-2.4	-0.3	2.4	0.12	-0.11	2.00
1,199.0	0.80	293.80	1,199.0	-2.2	-1.6	2.2	0.48	-0.11	31.72
1,386.0	0.60	307.60	1,385.9	-1.1	-3.6	1.1	0.14	-0.11	7.38
1,494.0	0.60	340.80	1,493.9	-0.2	-4.2	0.2	0.32	0.00	30.74
1,587.0	0.50	2.10	1,586.9	0.7	-4.4	-0.6	0.24	-0.11	22.90
1,681.0	0.60	14.80	1,680.9	1.6	-4.3	-1.5	0.17	0.11	13.51
1,774.0	0.90	283.10	1,773.9	2.2	-4.8	-2.2	1.18	0.32	-98.60
1,868.0	0.50	290.60	1,867.9	2.5	-5.9	-2.5	0.44	-0.43	7.98
1,960.0	0.30	62.30	1,959.9	2.8	-6.1	-2.7	0.80	-0.22	143.15
2,052.0	0.90	85.90	2,051.9	2.9	-5.2	-2.9	0.69	0.65	25.65
2,146.0	1.30	90.40	2,145.9	3.0	-3.4	-3.0	0.44	0.43	4.79
2,238.0	1.60	85.50	2,237.9	3.1	-1.0	-3.1	0.35	0.33	-5.33
2,331.0	0.40	39.40	2,330.8	3.4	0.5	-3.4	1.46	-1.29	-49.57
2,424.0	0.80	333.00	2,423.8	4.3	0.4	-4.3	0.79	0.43	-71.40
2,518.0	2.40	316.40	2,517.8	6.3	-1.3	-6.3	1.75	1.70	-17.66
2,611.0	3.30	323.90	2,610.7	9.8	-4.2	-9.8	1.05	0.97	8.06
2,705.0	3.20	318.90	2,704.5	14.0	-7.5	-13.9	0.32	-0.11	-5.32
2,798.0	3.20	313.40	2,797.4	17.7	-11.1	-17.6	0.33	0.00	-5.91
2,892.0	3.00	313.70	2,891.2	21.2	-14.8	-21.1	0.21	-0.21	0.32
2,985.0	3.10	309.80	2,984.1	24.5	-18.5	-24.4	0.25	0.11	-4.19
3,079.0	4.00	316.30	3,077.9	28.5	-22.7	-28.3	1.05	0.96	6.91
3,172.0	4.30	320.10	3,170.7	33.6	-27.2	-33.3	0.44	0.32	4.09
3,266.0	3.70	320.20	3,264.5	38.6	-31.4	-38.3	0.64	-0.64	0.11
3,359.0	5.00	319.30	3,357.2	44.0	-36.0	-43.6	1.40	1.40	-0.97
3,453.0	4.90	319.50	3,450.8	50.1	-41.2	-49.7	0.11	-0.11	0.21
3,546.0	5.10	314.00	3,543.5	56.0	-46.8	-55.6	0.56	0.22	-5.91
3,640.0	7.00	309.40	3,637.0	62.6	-54.2	-62.1	2.08	2.02	-4.89
3,733.0	6.70	307.20	3,729.3	69.4	-62.9	-68.9	0.43	-0.32	-2.37
3,827.0	5.30	303.50	3,822.8	75.1	-70.9	-74.5	1.54	-1.49	-3.94
3,921.0	6.50	310.20	3,916.3	81.0	-78.6	-80.3	1.47	1.28	7.13
4,014.0	6.90	313.00	4,008.6	88.2	-86.7	-87.4	0.56	0.43	3.01
4,108.0	6.10	312.30	4,102.0	95.4	-94.5	-94.5	0.86	-0.85	-0.74
4,201.0	7.10	315.00	4,194.4	102.8	-102.2	-101.9	1.13	1.08	2.90
4,295.0	7.50	315.90	4,287.7	111.3	-110.6	-110.3	0.44	0.43	0.96
4,389.0	7.60	314.50	4,380.8	120.1	-119.3	-119.0	0.22	0.11	-1.49
4,482.0	7.60	313.90	4,473.0	128.6	-128.1	-127.5	0.09	0.00	-0.65
4,576.0	7.50	311.90	4,566.2	137.0	-137.2	-135.8	0.30	-0.11	-2.13
4,669.0	7.50	312.60	4,658.4	145.2	-146.2	-143.9	0.10	0.00	0.75
4,763.0	7.30	313.00	4,751.6	153.4	-155.1	-152.0	0.22	-0.21	0.43
4,857.0	7.20	313.10	4,844.9	161.5	-163.7	-160.0	0.11	-0.11	0.11
4,950.0	7.00	312.40	4,937.2	169.3	-172.2	-167.8	0.23	-0.22	-0.75
5,044.0	6.70	311.50	5,030.5	176.8	-180.5	-175.2	0.34	-0.32	-0.96



Survey Report



Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Boros Fed Com 202H
Project:	Eddy County, NM (NAD27-Grid)	TVD Reference:	3226' GE + 28.5' KB @ 3254.5usft
Site:	Boros Fed Com	MD Reference:	3226' GE + 28.5' KB @ 3254.5usft
Well:	Boros Fed Com 202H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,138.0	6.50	309.70	5,123.9	183.9	-188.7	-182.1	0.31	-0.21	-1.91	
5,231.0	6.40	308.80	5,216.3	190.5	-196.8	-188.7	0.15	-0.11	-0.97	
5,325.0	6.20	308.40	5,309.7	196.9	-204.8	-195.0	0.22	-0.21	-0.43	
5,418.0	6.20	307.70	5,402.2	203.1	-212.8	-201.2	0.08	0.00	-0.75	
5,512.0	6.10	307.00	5,495.6	209.2	-220.8	-207.2	0.13	-0.11	-0.74	
5,606.0	5.80	305.10	5,589.1	214.9	-228.6	-212.9	0.38	-0.32	-2.02	
5,699.0	6.50	311.20	5,681.6	221.1	-236.4	-219.0	1.03	0.75	6.56	
5,793.0	7.10	311.90	5,774.9	228.5	-244.8	-226.3	0.64	0.64	0.74	
5,886.0	6.90	311.10	5,867.2	236.0	-253.3	-233.7	0.24	-0.22	-0.86	
5,980.0	6.70	311.50	5,960.6	243.4	-261.6	-241.0	0.22	-0.21	0.43	
6,073.0	6.60	313.30	6,053.0	250.6	-269.6	-248.2	0.25	-0.11	1.94	
6,167.0	6.60	314.40	6,146.3	258.1	-277.4	-255.6	0.13	0.00	1.17	
6,260.0	6.40	313.60	6,238.7	265.4	-284.9	-262.8	0.24	-0.22	-0.86	
6,353.0	5.90	311.40	6,331.2	272.1	-292.3	-269.5	0.59	-0.54	-2.37	
6,447.0	6.30	313.60	6,424.7	278.9	-299.6	-276.2	0.49	0.43	2.34	
6,540.0	6.50	313.70	6,517.1	286.1	-307.1	-283.3	0.22	0.22	0.11	
6,634.0	5.80	312.90	6,610.5	293.0	-314.5	-290.1	0.75	-0.74	-0.85	
6,727.0	6.30	316.40	6,703.0	299.9	-321.4	-296.9	0.67	0.54	3.76	
6,821.0	6.30	317.10	6,796.5	307.4	-328.5	-304.4	0.08	0.00	0.74	
6,914.0	6.20	316.50	6,888.9	314.8	-335.4	-311.7	0.13	-0.11	-0.65	
7,008.0	5.70	314.70	6,982.4	321.7	-342.2	-318.6	0.57	-0.53	-1.91	
7,101.0	5.60	314.20	7,074.9	328.1	-348.8	-324.9	0.12	-0.11	-0.54	
7,195.0	5.40	311.80	7,168.5	334.3	-355.4	-331.0	0.32	-0.21	-2.55	
7,288.0	5.90	322.60	7,261.1	341.0	-361.5	-337.7	1.26	0.54	11.61	
7,382.0	6.30	325.60	7,354.5	349.1	-367.4	-345.7	0.54	0.43	3.19	
7,476.0	6.10	324.40	7,448.0	357.4	-373.2	-354.0	0.25	-0.21	-1.28	
7,569.0	5.80	323.40	7,540.5	365.2	-378.9	-361.7	0.34	-0.32	-1.08	
7,663.0	4.70	323.60	7,634.1	372.1	-384.0	-368.6	1.17	-1.17	0.21	
7,756.0	3.60	325.20	7,726.8	377.6	-387.9	-374.0	1.19	-1.18	1.72	
7,850.0	1.90	335.60	7,820.7	381.4	-390.2	-377.9	1.88	-1.81	11.06	
7,943.0	1.40	351.10	7,913.7	383.9	-391.1	-380.4	0.72	-0.54	16.67	
8,037.0	1.00	344.90	8,007.7	385.9	-391.4	-382.3	0.45	-0.43	-6.60	
8,130.0	0.80	330.30	8,100.7	387.2	-392.0	-383.6	0.33	-0.22	-15.70	
8,223.0	0.80	315.50	8,193.7	388.2	-392.8	-384.7	0.22	0.00	-15.91	
8,317.0	0.70	325.30	8,287.6	389.2	-393.5	-385.6	0.17	-0.11	10.43	
8,410.0	0.40	330.90	8,380.6	389.9	-394.0	-386.3	0.33	-0.32	6.02	
8,504.0	0.50	284.60	8,474.6	390.3	-394.6	-386.7	0.39	0.11	-49.26	
8,597.0	0.80	271.00	8,567.6	390.4	-395.6	-386.8	0.36	0.32	-14.62	
8,691.0	0.80	196.10	8,661.6	389.8	-396.5	-386.2	1.03	0.00	-79.68	
8,784.0	1.40	152.50	8,754.6	388.2	-396.1	-384.6	1.06	0.65	-46.88	
8,878.0	2.20	140.10	8,848.6	385.8	-394.4	-382.2	0.94	0.85	-13.19	
8,971.0	1.50	137.30	8,941.5	383.5	-392.5	-379.9	0.76	-0.75	-3.01	
9,065.0	1.50	134.40	9,035.5	381.7	-390.7	-378.2	0.08	0.00	-3.09	



Survey Report



Company:	Matador Resources Company	Local Co-ordinate Reference:	Well Boros Fed Com 202H
Project:	Eddy County, NM (NAD27-Grid)	TVD Reference:	3226' GE + 28.5' KB @ 3254.5usft
Site:	Boros Fed Com	MD Reference:	3226' GE + 28.5' KB @ 3254.5usft
Well:	Boros Fed Com 202H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,158.0	1.40	133.30	9,128.5	380.1	-389.0	-376.6	0.11	-0.11	-1.18	
9,251.0	1.20	144.40	9,221.4	378.5	-387.7	-375.0	0.34	-0.22	11.94	
9,345.0	1.40	139.70	9,315.4	376.9	-386.3	-373.3	0.24	0.21	-5.00	
9,438.0	1.20	143.80	9,408.4	375.2	-385.0	-371.7	0.24	-0.22	4.41	
9,531.0	1.10	137.20	9,501.4	373.8	-383.8	-370.3	0.18	-0.11	-7.10	
9,625.0	1.60	128.70	9,595.3	372.3	-382.2	-368.8	0.57	0.53	-9.04	
9,718.0	1.90	120.80	9,688.3	370.7	-379.9	-367.2	0.41	0.32	-8.49	
9,812.0	1.40	103.80	9,782.3	369.6	-377.4	-366.2	0.74	-0.53	-18.09	
9,905.0	1.30	100.10	9,875.2	369.2	-375.3	-365.7	0.14	-0.11	-3.98	
9,999.0	1.50	99.90	9,969.2	368.8	-373.0	-365.4	0.21	0.21	-0.21	
10,092.0	0.80	126.20	10,062.2	368.2	-371.3	-364.8	0.92	-0.75	28.28	
10,185.0	0.70	105.90	10,155.2	367.6	-370.2	-364.3	0.30	-0.11	-21.83	
10,279.0	1.70	111.70	10,249.1	367.0	-368.4	-363.6	1.07	1.06	6.17	
10,373.0	1.20	143.90	10,343.1	365.7	-366.5	-362.3	1.00	-0.53	34.26	
10,466.0	1.10	191.60	10,436.1	364.0	-366.1	-360.7	1.00	-0.11	51.29	
10,560.0	1.10	195.50	10,530.1	362.2	-366.5	-358.9	0.08	0.00	4.15	
10,654.0	1.10	216.60	10,624.1	360.6	-367.3	-357.3	0.43	0.00	22.45	
10,747.0	1.60	231.70	10,717.0	359.1	-368.9	-355.8	0.66	0.54	16.24	
10,767.0	1.90	232.40	10,737.0	358.7	-369.3	-355.4	1.50	1.50	3.50	
LAST SURVEY - 10767.0' MD										
10,827.0	1.90	232.40	10,797.0	357.5	-370.9	-354.2	0.00	0.00	0.00	
PTB - 10827.0' MD - LP (Boros Fed Com 202H) - PBHL (Boros Fed Com 202H)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,386.0	1,385.9	20" Casing	20	24	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
10,767.0	10,737.0	358.7	-369.3	LAST SURVEY - 10767.0' MD	
10,827.0	10,797.0	357.5	-370.9	PTB - 10827.0' MD	

Checked By: _____	Approved By: _____	Date: _____
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3335 Pollok Drive
Conroe, Texas 77303
936.442.2500 (office)
www.msdir.com

MS Directional, LLC Survey Data Certification

MS Directional Job Number:	MSMO-77172
Survey Type:	MWD
Operating Company:	Matador Production Company
Well Name & Number:	Boros Fed Com 202H
Location:	Eddy County, NM
API Number:	30-015-46564
Tie In Depth:	10767' MD
Surveyed Depths:	10883' – 21,490' MD
Projected TD Survey:	21,547' MD
Dates Performed:	04/27/2020 – 05/10/2020

To the best of my knowledge, I certify the following:

1. The data is true, correct and complete and within the limitations of the tool set forth by MS Directional, LLC;
2. I am authorized and qualified to make this report; and
3. I have reviewed this report and find it conforms to the principles and procedures as set forth by MS Directional, LLC.

MWD Surveyor Name: Justin Galioto

MWD Operations Manager: Charles Davis

Signature:

A handwritten signature in black ink, appearing to read 'CDavis', written over a horizontal line.

Date:

5/13/2020

Email:

cdavis@msdir.com



Matador Resources

Eddy County, New Mexico (NAD 27)

Boros Fed Com 202H/216H

Boros Fed Com 202H

AP# 30-015-46564

Wellbore #1

Survey: MS MWD

Standard Survey Report

13 May, 2020





Company:	Matador Resources	Local Co-ordinate Reference:	Well Boros Fed Com 202H
Project:	Eddy County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3254.50usft (Patterson 297)
Site:	Boros Fed Com 202H/216H	MD Reference:	WELL @ 3254.50usft (Patterson 297)
Well:	Boros Fed Com 202H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	5000.1 Conroe DB

Project	Eddy County, New Mexico (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Boros Fed Com 202H/216H		
Site Position:		Northing:	381,945.00 usft
From:	Map	Easting:	675,063.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 55.761 N
		Longitude:	103° 46' 5.911 W
		Grid Convergence:	0.300 °

Well	Boros Fed Com 202H		
Well Position	+N/-S	0.00 usft	Northing: 381,945.00 usft
	+E/-W	0.00 usft	Easting: 675,063.00 usft
Position Uncertainty	0.00 usft		Latitude: 32° 2' 55.761 N
			Longitude: 103° 46' 5.911 W
		Wellhead Elevation:	usft
		Ground Level:	3,226.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2020	4/29/2020	6.567	59.617	47,646.40

Design	Surveys				
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	180.35	

Survey Program	Date 5/11/2020				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
172.00	10,767.00	Total Directional MWD (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM	
10,883.00	21,547.00	MS MWD (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,767.00	1.90	232.40	10,737.03	358.75	-369.34	-356.46	0.00	0.00	0.00	
Tie-in to Total MWD-10767.00' MD										
10,883.00	3.70	194.50	10,852.90	353.95	-371.80	-351.65	2.15	1.55	-32.67	
10,928.00	12.20	164.00	10,897.44	347.96	-370.85	-345.66	20.45	18.89	-67.78	
10,976.00	19.70	160.60	10,943.56	335.44	-366.76	-333.17	15.74	15.63	-7.08	
11,070.00	25.70	164.00	11,030.24	300.87	-355.87	-298.66	6.53	6.38	3.62	
11,164.00	33.20	164.00	11,112.04	256.47	-343.14	-254.35	7.98	7.98	0.00	
11,257.00	38.80	163.90	11,187.25	203.96	-328.03	-201.93	6.02	6.02	-0.11	
11,303.00	45.80	164.60	11,221.25	174.18	-319.64	-172.20	15.25	15.22	1.52	
11,351.00	51.90	167.50	11,252.82	139.11	-310.97	-137.19	13.50	12.71	6.04	



MS Directional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Boros Fed Com 202H
Project:	Eddy County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3254.50usft (Patterson 297)
Site:	Boros Fed Com 202H/216H	MD Reference:	WELL @ 3254.50usft (Patterson 297)
Well:	Boros Fed Com 202H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	5000.1 Conroe DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,403.40	53.61	168.29	11,284.54	98.33	-302.23	-96.46	3.47	3.26	1.50
330' HL - 11403.40' MD									
11,446.00	55.00	168.90	11,309.39	64.42	-295.39	-62.60	3.47	3.27	1.44
11,500.00	63.60	167.60	11,336.94	19.01	-285.92	-17.24	16.06	15.93	-2.41
11,539.00	69.90	168.10	11,352.33	-16.00	-278.38	17.72	16.20	16.15	1.28
11,633.00	79.20	171.60	11,377.35	-105.09	-262.50	106.70	10.52	9.89	3.72
11,726.00	80.20	170.50	11,393.98	-195.47	-248.26	197.00	1.58	1.08	-1.18
11,820.00	86.80	169.70	11,404.61	-287.42	-232.21	288.85	7.07	7.02	-0.85
11,913.00	86.20	169.40	11,410.29	-378.71	-215.37	380.03	0.72	-0.65	-0.32
12,007.00	89.10	171.20	11,414.14	-471.27	-199.55	472.50	3.63	3.09	1.91
12,102.00	89.60	171.10	11,415.22	-565.14	-184.94	566.27	0.54	0.53	-0.11
12,195.00	91.80	174.00	11,414.08	-657.33	-172.88	658.38	3.91	2.37	3.12
12,289.00	90.90	173.10	11,411.87	-750.71	-162.33	751.69	1.35	-0.96	-0.96
12,383.00	91.60	177.50	11,409.82	-844.35	-154.63	845.28	4.74	0.74	4.68
12,477.00	91.00	177.50	11,407.69	-938.23	-150.53	939.14	0.64	-0.64	0.00
12,572.00	91.30	177.80	11,405.78	-1,033.13	-146.63	1,034.02	0.45	0.32	0.32
12,666.00	90.80	181.60	11,404.06	-1,127.10	-146.14	1,127.98	4.08	-0.53	4.04
12,761.00	88.90	180.60	11,404.30	-1,222.07	-147.97	1,222.96	2.26	-2.00	-1.05
12,856.00	88.80	182.10	11,406.21	-1,317.03	-150.20	1,317.93	1.58	-0.11	1.58
12,951.00	89.00	184.20	11,408.03	-1,411.86	-155.42	1,412.79	2.22	0.21	2.21
13,045.00	90.30	183.40	11,408.61	-1,505.65	-161.65	1,506.62	1.62	1.38	-0.85
13,140.00	88.20	179.10	11,409.85	-1,600.59	-163.72	1,601.57	5.04	-2.21	-4.53
13,234.00	89.00	179.50	11,412.15	-1,694.55	-162.58	1,695.52	0.95	0.85	0.43
13,329.00	90.40	180.40	11,412.65	-1,789.55	-162.49	1,790.52	1.75	1.47	0.95
13,424.00	90.10	180.60	11,412.23	-1,884.54	-163.32	1,885.52	0.38	-0.32	0.21
13,519.00	88.30	180.60	11,413.56	-1,979.53	-164.32	1,980.50	1.89	-1.89	0.00
13,613.00	89.90	181.60	11,415.04	-2,073.49	-166.12	2,074.48	2.01	1.70	1.06
13,707.00	89.40	177.10	11,415.61	-2,167.46	-165.06	2,168.44	4.82	-0.53	-4.79
13,802.00	90.30	177.10	11,415.86	-2,262.34	-160.25	2,263.28	0.95	0.95	0.00
13,897.00	91.50	176.60	11,414.37	-2,357.18	-155.03	2,358.09	1.37	1.26	-0.53
13,991.00	90.60	177.00	11,412.64	-2,451.02	-149.78	2,451.89	1.05	-0.96	0.43
14,086.00	88.80	176.10	11,413.14	-2,545.84	-144.07	2,546.68	2.12	-1.89	-0.95
14,180.00	89.80	175.50	11,414.29	-2,639.58	-137.18	2,640.37	1.24	1.06	-0.64
14,275.00	88.80	180.60	11,415.45	-2,734.48	-133.95	2,735.26	5.47	-1.05	5.37
14,369.00	89.10	180.60	11,417.17	-2,828.46	-134.94	2,829.24	0.32	0.32	0.00
14,463.00	91.40	181.20	11,416.76	-2,922.44	-136.41	2,923.23	2.53	2.45	0.64
14,558.00	90.10	181.20	11,415.52	-3,017.41	-138.40	3,018.21	1.37	-1.37	0.00
14,652.00	92.00	181.30	11,413.80	-3,111.37	-140.45	3,112.18	2.02	2.02	0.11
14,747.00	87.20	181.20	11,414.46	-3,206.32	-142.52	3,207.13	5.05	-5.05	-0.11
14,842.00	91.10	179.80	11,415.87	-3,301.28	-143.35	3,302.10	4.36	4.11	-1.47
14,936.00	90.70	179.60	11,414.39	-3,395.27	-142.86	3,396.09	0.48	-0.43	-0.21
15,031.00	90.50	178.70	11,413.40	-3,490.25	-141.45	3,491.06	0.97	-0.21	-0.95
15,126.00	90.40	177.10	11,412.65	-3,585.18	-137.97	3,585.96	1.69	-0.11	-1.68



Company:	Matador Resources	Local Co-ordinate Reference:	Well Boros Fed Com 202H
Project:	Eddy County, New Mexico (NAD 27)	TVD Reference:	WELL @ 3254.50usft (Patterson 297)
Site:	Boros Fed Com 202H/216H	MD Reference:	WELL @ 3254.50usft (Patterson 297)
Well:	Boros Fed Com 202H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	5000.1 Conroe DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,220.00	90.10	177.10	11,412.24	-3,679.06	-133.21	3,679.81	0.32	-0.32	0.00
15,315.00	90.80	177.80	11,411.50	-3,773.96	-128.99	3,774.69	1.04	0.74	0.74
15,409.00	90.80	179.90	11,410.18	-3,867.93	-127.10	3,868.64	2.23	0.00	2.23
15,503.00	90.60	181.10	11,409.04	-3,961.92	-127.92	3,962.63	1.29	-0.21	1.28
15,597.00	86.80	182.10	11,411.17	-4,055.84	-130.54	4,056.57	4.18	-4.04	1.06
15,691.00	86.00	180.70	11,417.07	-4,149.62	-132.84	4,150.36	1.71	-0.85	-1.49
15,785.00	87.10	180.40	11,422.73	-4,243.44	-133.74	4,244.19	1.21	1.17	-0.32
15,878.00	90.10	178.40	11,425.00	-4,336.40	-132.76	4,337.13	3.88	3.23	-2.15
15,972.00	91.60	178.90	11,423.60	-4,430.36	-130.55	4,431.08	1.68	1.60	0.53
16,066.00	91.80	178.30	11,420.82	-4,524.29	-128.25	4,524.99	0.67	0.21	-0.64
16,161.00	90.70	177.70	11,418.74	-4,619.20	-124.94	4,619.89	1.32	-1.16	-0.63
16,256.00	90.70	177.70	11,417.58	-4,714.12	-121.13	4,714.78	0.00	0.00	0.00
16,350.00	89.20	176.90	11,417.66	-4,808.01	-116.70	4,808.64	1.81	-1.60	-0.85
16,445.00	89.60	179.90	11,418.66	-4,902.96	-114.05	4,903.57	3.19	0.42	3.16
16,539.00	89.10	179.80	11,419.73	-4,996.95	-113.80	4,997.56	0.54	-0.53	-0.11
16,634.00	89.30	179.20	11,421.05	-5,091.94	-112.97	5,092.54	0.67	0.21	-0.63
16,729.00	91.00	179.30	11,420.80	-5,186.93	-111.73	5,187.52	1.79	1.79	0.11
16,823.00	91.50	179.60	11,418.75	-5,280.90	-110.82	5,281.48	0.62	0.53	0.32
16,918.00	89.60	178.80	11,417.84	-5,375.88	-109.50	5,376.46	2.17	-2.00	-0.84
17,012.00	89.80	178.20	11,418.33	-5,469.85	-107.04	5,470.40	0.67	0.21	-0.64
17,107.00	90.30	178.70	11,418.25	-5,564.81	-104.47	5,565.35	0.74	0.53	0.53
17,201.00	91.30	178.80	11,416.94	-5,658.78	-102.42	5,659.30	1.07	1.06	0.11
17,294.00	90.90	178.10	11,415.15	-5,751.73	-99.90	5,752.23	0.87	-0.43	-0.75
17,389.00	92.40	180.60	11,412.42	-5,846.67	-98.82	5,847.17	3.07	1.58	2.63
17,483.00	90.50	180.90	11,410.04	-5,940.63	-100.05	5,941.13	2.05	-2.02	0.32
17,576.00	90.30	181.40	11,409.39	-6,033.61	-101.92	6,034.12	0.58	-0.22	0.54
17,670.00	89.60	180.40	11,409.47	-6,127.59	-103.40	6,128.12	1.30	-0.74	-1.06
17,764.00	88.80	180.00	11,410.78	-6,221.58	-103.73	6,222.11	0.95	-0.85	-0.43
17,858.00	89.90	180.60	11,411.85	-6,315.58	-104.22	6,316.10	1.33	1.17	0.64
17,952.00	89.10	179.90	11,412.67	-6,409.57	-104.63	6,410.09	1.13	-0.85	-0.74
18,046.00	89.80	179.90	11,413.57	-6,503.56	-104.46	6,504.08	0.74	0.74	0.00
18,140.00	91.10	181.60	11,412.83	-6,597.55	-105.69	6,598.07	2.28	1.38	1.81
18,234.00	90.50	181.20	11,411.52	-6,691.51	-107.99	6,692.05	0.77	-0.64	-0.43
18,327.00	89.80	179.70	11,411.28	-6,784.50	-108.72	6,785.05	1.78	-0.75	-1.61
18,348.00	89.40	179.30	11,411.42	-6,805.50	-108.54	6,806.04	2.69	-1.90	-1.90
18,442.00	91.50	179.60	11,410.69	-6,899.49	-107.64	6,900.02	2.26	2.23	0.32
18,536.00	91.70	179.20	11,408.06	-6,993.45	-106.65	6,993.97	0.48	0.21	-0.43
18,630.00	92.00	179.20	11,405.03	-7,087.39	-105.34	7,087.90	0.32	0.32	0.00
18,724.00	89.70	180.00	11,403.63	-7,181.37	-104.68	7,181.88	2.59	-2.45	0.85
18,818.00	90.80	180.40	11,403.22	-7,275.37	-105.01	7,275.88	1.25	1.17	0.43
18,912.00	91.10	180.20	11,401.66	-7,369.35	-105.50	7,369.86	0.38	0.32	-0.21
19,006.00	91.00	180.30	11,399.94	-7,463.34	-105.91	7,463.85	0.15	-0.11	0.11
19,100.00	88.20	179.70	11,400.60	-7,557.32	-105.91	7,557.83	3.05	-2.98	-0.64
19,194.00	88.70	180.00	11,403.14	-7,651.29	-105.67	7,651.79	0.62	0.53	0.32



Company:	Matador Resources	Local Co-ordinate Reference:	Well Boros Fed Com 202H
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Site:	Boros Fed Com 202H/216H	MD Reference:	WELL @ 3254.50usft (Patterson 297)
Well:	Boros Fed Com 202H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	5000.1 Conroe DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,288.00	88.70	179.90	11,405.27	-7,745.26	-105.59	7,745.77	0.11	0.00	-0.11
19,382.00	87.00	179.20	11,408.80	-7,839.19	-104.85	7,839.69	1.96	-1.81	-0.74
19,475.00	89.30	179.30	11,411.80	-7,932.13	-103.63	7,932.62	2.48	2.47	0.11
19,570.00	89.60	179.80	11,412.71	-8,027.12	-102.89	8,027.60	0.61	0.32	0.53
19,665.00	91.40	179.90	11,411.88	-8,122.11	-102.64	8,122.59	1.90	1.89	0.11
19,759.00	89.80	181.00	11,410.90	-8,216.10	-103.38	8,216.58	2.07	-1.70	1.17
19,853.00	92.60	180.90	11,408.93	-8,310.06	-104.93	8,310.55	2.98	2.98	-0.11
19,948.00	88.70	179.70	11,407.85	-8,405.03	-105.43	8,405.52	4.30	-4.11	-1.26
20,042.00	89.60	177.70	11,409.25	-8,498.99	-103.30	8,499.46	2.33	0.96	-2.13
20,137.00	93.10	178.40	11,407.01	-8,593.89	-100.07	8,594.35	3.76	3.68	0.74
20,232.00	89.00	178.40	11,405.27	-8,688.82	-97.42	8,689.25	4.32	-4.32	0.00
20,327.00	91.90	178.70	11,404.52	-8,783.78	-95.01	8,784.19	3.07	3.05	0.32
20,421.00	91.00	179.50	11,402.15	-8,877.73	-93.54	8,878.14	1.28	-0.96	0.85
20,515.00	90.70	177.70	11,400.75	-8,971.69	-91.24	8,972.08	1.94	-0.32	-1.91
20,611.00	89.40	179.80	11,400.67	-9,067.66	-89.15	9,068.04	2.57	-1.35	2.19
20,705.00	91.70	179.80	11,399.77	-9,161.65	-88.82	9,162.02	2.45	2.45	0.00
20,800.00	94.20	179.60	11,394.88	-9,256.51	-88.32	9,256.88	2.64	2.63	-0.21
20,895.00	89.80	178.40	11,391.56	-9,351.42	-86.66	9,351.77	4.80	-4.63	-1.26
20,990.00	90.50	179.10	11,391.31	-9,446.39	-84.59	9,446.73	1.04	0.74	0.74
21,084.00	87.30	177.60	11,393.12	-9,540.32	-81.89	9,540.64	3.76	-3.40	-1.60
21,179.00	90.10	178.20	11,395.27	-9,635.22	-78.41	9,635.52	3.01	2.95	0.63
21,274.00	92.90	178.80	11,392.79	-9,730.15	-75.92	9,730.43	3.01	2.95	0.63
21,369.00	90.20	177.30	11,390.22	-9,825.05	-72.69	9,825.31	3.25	-2.84	-1.58
21,446.86	88.81	176.23	11,390.89	-9,902.78	-68.30	9,903.01	2.25	-1.79	-1.37
330' HL - 21446.86' MD									
21,464.00	88.50	176.00	11,391.29	-9,919.87	-67.14	9,920.10	2.25	-1.79	-1.37
21,490.00	88.60	176.30	11,391.95	-9,945.81	-65.39	9,946.02	1.22	0.38	1.15
21,547.00	88.60	176.30	11,393.34	-10,002.67	-61.71	10,002.86	0.00	0.00	0.00
Projection to TD - 21547.00' MD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,767.00	10,737.03	358.75	-369.34	Tie-in to Total MWD-10767.00' MD
11,403.40	11,284.54	98.33	-302.23	330' HL - 11403.40' MD
21,446.86	11,390.89	-9,902.78	-68.30	330' HL - 21446.86' MD
21,547.00	11,393.34	-10,002.67	-61.71	Projection to TD - 21547.00' MD