

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM136226

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
BIGGERS FED COM 203H

2. Name of Operator
MATADOR PRODUCTION COMPANY
Contact: TAMMY R LINK
E-Mail: tlink@matadorresources.com

9. API Well No.
30-025-44645-00-X1

3a. Address
5400 LBJ FREEWAY SUITE 1500
DALLAS, TX 75240

3b. Phone No. (include area code)
Ph: 575-627-2465

10. Field and Pool or Exploratory Area
DOGIE DRAW-DELAWARE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 18 T25S R35E SESE 90FSL 1256FEL
32.123402 N Lat, 103.402145 W Lon

11. County or Parish, State
LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Production Start-up
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BLM BOND NO:NMB0001079
Surety Bond No:RLB0015172

Production Sundry

9/26/2019 Pre Frac meetings, Pressure test stack to 12,500 psi, chart 5 minutes Good Test.
9/27/2019 Perform Casing integrity test to 6,000 psi for 30 minutes dropped 91 psi Good Test.
10/2/2019 Begin Frac State 1 f/17.402'- 12,690' on 10/16/2019.
10/16/2019 Well shut-in until drill-out operations begin.
10/19/2019 Function test motor @ surface @ 3.0 bpm @ 3,400 psi and again to 8,000 psi. Good test.
Begin drill-out plugs 30-21, then drill-out 20-18 through 17-15.
10/21/2019 Drill-out plugs 14-1, Well shut in until flow-back operations begin.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #503824 verified by the BLM Well Information System
For MATADOR PRODUCTION COMPANY, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 02/20/2020 (20PP1362SE)**

Name (Printed/Typed) TAMMY R LINK

Title PRODUCTION ANALYST

Signature (Electronic Submission)

Date 02/19/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By **ACCEPTED**

JONATHON SHEPARD
Title PETROELUM ENGINEER

Date 02/21/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #503824 that would not fit on the form

32. Additional remarks, continued

10/26/2019 On well to flow-back on a 12/64" positive choke @ 23:00 hrs. Getting back water; no gas no oil. Total Acid 671 bbls, total clean fluid 277,475 bbls, total 100 Mesh 7,630,500 lbs, Total 40/70 Mesh 4,320,000 lbs, Total proppant 11,950,500 lbs.
11/2/2019 Begin flowing well through separator @ 21:00 hrs. Gas to Frac Tank; oil to frac tank.
11/14/2019 Start sending gas to sales @ 09:00 hrs. Flowing well, turned well to production @ 12:00 hrs. All production flowing to facility. Well off flowback.

Revisions to Operator-Submitted EC Data for Sundry Notice #503824

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	STARTUP SR	STARTUP SR
Lease:	NMNM136226	NMNM136226
Agreement:		
Operator:	MATADOR PRODUCTION COMPANY 5400 LBJ FREEWAY, SUITE 1500 DALLAS, TX 75440 Ph: 575-623-6601	MATADOR PRODUCTION COMPANY 5400 LBJ FREEWAY SUITE 1500 DALLAS, TX 75240 Ph: 972.371.5200
Admin Contact:	TAMMY R LINK PRODUCTION ANALYST E-Mail: tlink@matadorresources.com Ph: 575-627-2465	TAMMY R LINK PRODUCTION ANALYST E-Mail: tlink@matadorresources.com Ph: 575-627-2465
Tech Contact:	TAMMY R LINK PRODUCTION ANALYST E-Mail: tlink@matadorresources.com Ph: 575-627-2465	TAMMY R LINK PRODUCTION ANALYST E-Mail: tlink@matadorresources.com Ph: 575-627-2465
Location:		
State:	NM	NM
County:	LEA	LEA
Field/Pool:	WC-025 G-09 S243532M; WB	DOGIE DRAW-DELAWARE
Well/Facility:	BIGGERS FEDERAL 203H Sec 18 T25S R35E Mer NMP SESE 90FSL 1256FEL	BIGGERS FED COM 203H Sec 18 T25S R35E SESE 90FSL 1256FEL 32.123402 N Lat, 103.402145 W Lon

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 30-025-44645		² Pool Code 98098		³ Pool Name WC-025 G-09 S243532M; Wolfbone	
⁴ Property Code 320789		⁵ Property Name BIGGERS FED COM			⁶ Well Number 203H
⁷ OGRID No. 228937		⁸ Operator Name MATADOR PRODUCTION COMPANY			⁹ Elevation 3332'

¹⁰Surface Location

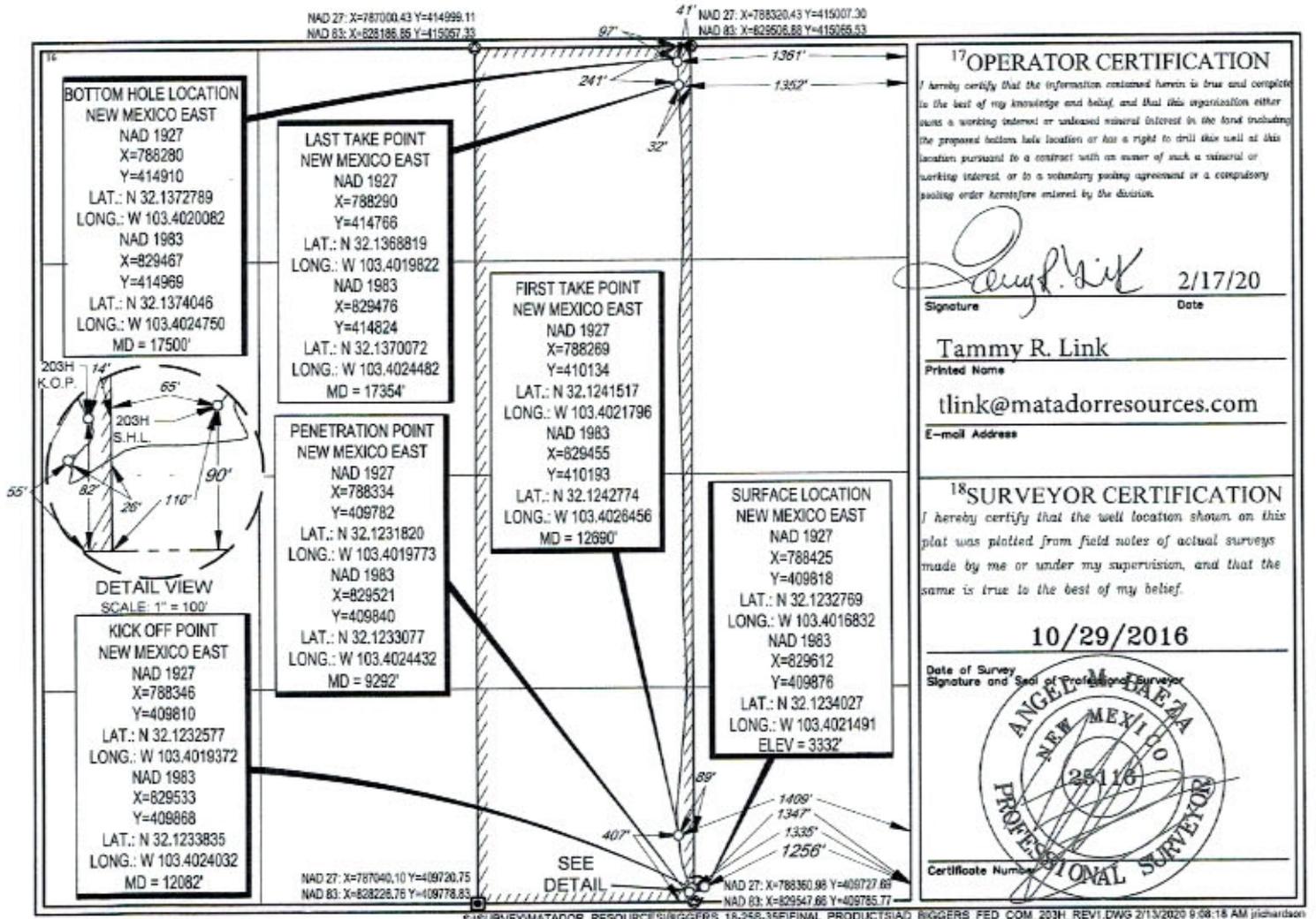
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	25-S	35-E	-	90'	SOUTH	1256'	EAST	LEA

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
B	18	25-S	35-E	-	97'	NORTH	1361'	EAST	LEA

¹² Dedicated Acres 160	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.





Biggers Fed Com No. 203H

Lea County, NM

September 25, 2019

Job No. LNM5513219

Certified Report



September 25, 2019



Operator Name: Matador Resources
Well Name: Biggers Fed Com No. 203H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 810
Job Number: LNM5513219

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	162' MD – 17,438' MD	17,500' MD	07/14/19 – 08/30/19	MWD-OWSG

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266
prodirectional.com



Matador Resources

Lea County, NM
Biggers Fed Com
No. 203H
OH

Survey: ProDirectional

Survey Report

25 September, 2019



PRODIRECTIONAL



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 203H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 203H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Project: Lea County, NM (NAD83)
Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site: Biggers Fed Com

Site Position: Northing: 409,875.00 usft Latitude: 32.123401
 From: Easting: 829,612.00 usft Longitude: -103.402148
Position Uncertainty: Slot Radius: 13.3/16 " Grid Convergence: 0.50 °

Well: No. 203H, LNM5513219

Well Position: +N/-S 0.00 usft Latitude: 32.123401
 +E/-W 0.00 usft Longitude: -103.402148
Position Uncertainty: Wellhead Elevation: 0.00 usft Ground Level: 3,332.00 usft

Wellbore: OH

Magnetics: Model Name HDGM Sample Date 7/5/2019 Declination (°) 6.58 Dip Angle (°) 59.73 Field Strength (nT) 47,778.40

Design: MWD

Audit Notes: Version: 1.0 Phase: ACTUAL Tie On Depth: 0.00

Vertical Section: Depth From (TVD) (usft) 0.00 +N/-S (usft) 0.00 +E/-W (usft) 0.00 Direction (°) 359.50

Survey Program: Date 9/25/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
162.00	17,500.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 203H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 203H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

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	409,875.00	829,612.00
162.00	0.90	232.80	161.99	-0.76	-0.77	-1.01	1.27	232.80	409,874.23	829,610.99
Pro MWD First Survey: 162' MD										
286.00	1.00	231.80	285.98	-2.00	-2.03	-2.64	3.33	232.47	409,872.97	829,609.36
379.00	0.80	245.80	378.96	-2.76	-2.80	-3.87	4.77	234.16	409,872.20	829,608.13
472.00	0.40	268.10	471.96	-3.03	-3.07	-4.79	5.69	237.30	409,871.93	829,607.21
534.00	0.20	306.00	533.96	-2.97	-3.02	-5.09	5.92	239.35	409,871.98	829,606.91
619.00	0.00	340.00	618.96	-2.88	-2.93	-5.21	5.98	240.66	409,872.07	829,606.79
719.00	0.10	87.80	718.96	-2.88	-2.93	-5.12	5.90	240.27	409,872.07	829,606.88
805.00	0.00	311.50	804.96	-2.88	-2.92	-5.05	5.83	239.93	409,872.08	829,606.95
872.00	0.00	114.80	871.96	-2.88	-2.92	-5.05	5.83	239.93	409,872.08	829,606.95
933.00	0.00	49.50	932.96	-2.88	-2.92	-5.05	5.83	239.93	409,872.08	829,606.95
1,075.00	0.20	61.00	1,074.96	-2.76	-2.80	-4.83	5.58	239.89	409,872.20	829,607.17
1,170.00	0.30	71.80	1,169.96	-2.61	-2.64	-4.45	5.18	239.28	409,872.36	829,607.55
1,265.00	0.30	80.10	1,264.96	-2.49	-2.52	-3.97	4.70	237.55	409,872.48	829,608.03
1,360.00	0.20	344.70	1,359.96	-2.29	-2.32	-3.77	4.42	238.36	409,872.68	829,608.23
1,455.00	0.10	28.20	1,454.96	-2.05	-2.09	-3.77	4.31	241.03	409,872.91	829,608.23
1,550.00	0.20	23.60	1,549.95	-1.83	-1.86	-3.67	4.11	243.06	409,873.14	829,608.33
1,645.00	0.10	251.50	1,644.95	-1.71	-1.74	-3.68	4.07	244.72	409,873.26	829,608.32
1,740.00	0.10	229.80	1,739.95	-1.78	-1.82	-3.82	4.23	244.56	409,873.18	829,608.18
1,835.00	0.10	352.40	1,834.95	-1.75	-1.79	-3.89	4.29	245.34	409,873.21	829,608.11
1,930.00	0.30	240.70	1,929.95	-1.79	-1.83	-4.12	4.51	246.09	409,873.17	829,607.88
2,026.00	0.20	353.40	2,025.95	-1.75	-1.78	-4.36	4.71	247.75	409,873.22	829,607.64
2,121.00	0.20	100.50	2,120.95	-1.61	-1.65	-4.22	4.53	248.63	409,873.35	829,607.78
2,216.00	0.20	87.50	2,215.95	-1.64	-1.67	-3.89	4.23	246.72	409,873.33	829,608.11
2,311.00	0.10	138.40	2,310.95	-1.70	-1.73	-3.67	4.05	244.78	409,873.27	829,608.33
2,406.00	0.10	150.30	2,405.95	-1.83	-1.86	-3.57	4.03	242.47	409,873.14	829,608.43



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 203H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 203H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

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)
2,501.00	0.10	77.10	2,500.95	-1.89	-1.92	-3.45	3.95	240.96	409,873.08	829,608.55
2,596.00	0.20	120.40	2,595.95	-1.95	-1.98	-3.23	3.79	238.45	409,873.02	829,608.77
2,690.00	0.20	109.00	2,689.95	-2.09	-2.12	-2.93	3.61	234.14	409,872.88	829,609.07
2,785.00	0.30	64.70	2,784.95	-2.04	-2.06	-2.55	3.28	230.97	409,872.94	829,609.45
2,880.00	0.50	47.50	2,879.95	-1.86	-1.88	-2.02	2.82	230.24	409,873.32	829,609.98
2,975.00	0.50	54.20	2,974.94	-1.14	-1.16	-1.38	1.80	229.95	409,873.84	829,610.62
3,071.00	0.40	50.60	3,070.94	-0.69	-0.70	-0.78	1.04	228.04	409,874.30	829,611.22
3,166.00	0.70	60.40	3,165.94	-0.20	-0.20	-0.02	0.20	184.48	409,874.80	829,611.98
3,261.00	0.80	56.70	3,260.93	0.44	0.45	1.04	1.14	66.68	409,875.45	829,613.04
3,356.00	0.80	33.80	3,355.92	1.35	1.36	1.97	2.39	55.24	409,876.36	829,613.97
3,451.00	0.80	38.40	3,450.91	2.41	2.44	2.75	3.67	48.44	409,877.44	829,614.75
3,546.00	1.30	36.70	3,545.89	3.79	3.82	3.80	5.39	44.88	409,878.82	829,615.80
3,642.00	1.30	39.80	3,641.87	5.48	5.53	5.15	7.56	42.97	409,880.53	829,617.15
3,737.00	1.30	45.30	3,736.85	7.05	7.12	6.61	9.71	42.88	409,882.12	829,618.61
3,832.00	1.20	34.00	3,831.82	8.63	8.70	7.93	11.77	42.35	409,883.70	829,619.93
3,927.00	1.00	40.90	3,926.81	10.07	10.15	9.03	13.58	41.65	409,885.15	829,621.03
4,022.00	0.90	29.50	4,021.79	11.34	11.43	9.94	15.14	41.02	409,886.43	829,621.94
4,117.00	0.70	20.30	4,116.78	12.53	12.62	10.51	16.42	39.78	409,887.62	829,622.51
4,212.00	0.70	30.00	4,211.78	13.57	13.67	11.00	17.54	38.83	409,888.67	829,623.00
4,307.00	0.50	200.30	4,306.77	13.68	13.78	11.14	17.72	38.97	409,888.78	829,623.14
4,403.00	1.00	213.20	4,402.77	12.59	12.69	10.54	16.49	39.72	409,887.69	829,622.54
4,498.00	0.80	224.00	4,497.75	11.43	11.51	9.63	15.01	39.90	409,886.51	829,621.63
4,593.00	0.30	132.70	4,592.75	10.79	10.87	9.35	14.34	40.70	409,885.87	829,621.35
4,688.00	1.30	107.90	4,687.74	10.28	10.37	10.56	14.80	45.51	409,885.37	829,622.56
4,783.00	1.60	151.90	4,782.71	8.76	8.87	12.21	15.09	54.00	409,883.87	829,624.21
4,878.00	2.30	204.50	4,877.66	5.86	5.96	12.04	13.44	63.65	409,880.96	829,624.04
4,973.00	2.30	201.10	4,972.59	2.36	2.45	10.56	10.84	76.94	409,877.45	829,622.56



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 203H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 203H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
North Reference: Grd
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

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)
5,068.00	2.30	166.10	5,067.52	-1.27	-1.18	10.34	10.40	96.51	409,873.82	829,622.34
5,163.00	2.70	155.30	5,162.43	-5.16	-5.06	11.73	12.77	113.35	409,869.94	829,623.73
5,257.00	2.50	153.10	5,256.33	-9.02	-8.90	13.58	16.24	123.24	409,866.10	829,625.58
5,352.00	2.20	153.60	5,351.25	-12.52	-12.38	15.33	19.71	128.93	409,862.62	829,627.33
5,446.00	2.20	153.00	5,445.18	-15.75	-15.61	16.95	23.04	132.64	409,859.39	829,628.95
5,466.00	2.10	150.70	5,465.17	-16.42	-16.27	17.30	23.75	133.23	409,856.73	829,629.30
5,530.00	1.80	155.30	5,529.13	-18.36	-18.20	18.30	25.81	134.85	409,856.80	829,630.30
5,624.00	1.50	237.00	5,623.10	-20.37	-20.22	17.88	26.99	138.50	409,854.78	829,629.88
5,718.00	4.30	263.60	5,716.97	-21.39	-21.28	13.35	25.12	147.90	409,853.72	829,625.35
5,813.00	4.50	264.00	5,811.69	-22.12	-22.07	6.10	22.89	164.54	409,852.93	829,618.10
5,908.00	4.60	264.40	5,906.39	-22.81	-22.83	-1.39	22.87	183.50	409,852.17	829,610.61
6,003.00	4.60	261.70	6,001.09	-23.67	-23.75	-8.96	25.38	200.66	409,851.25	829,603.04
6,098.00	4.80	266.10	6,095.77	-24.42	-24.57	-16.69	29.70	214.19	409,850.43	829,595.31
6,193.00	4.70	271.10	6,190.44	-24.55	-24.76	-24.55	34.87	224.75	409,850.24	829,587.45
6,288.00	4.60	271.80	6,285.13	-24.29	-24.57	-32.25	40.54	232.69	409,850.43	829,579.75
6,383.00	4.50	267.50	6,379.83	-24.26	-24.61	-39.78	46.78	238.25	409,850.39	829,572.22
6,478.00	5.50	264.30	6,474.47	-24.81	-25.23	-48.03	54.25	242.29	409,849.77	829,563.87
6,573.00	5.10	240.20	6,569.07	-27.29	-27.78	-56.23	62.71	243.71	409,847.22	829,555.77
6,668.00	5.30	237.60	6,663.68	-31.67	-32.23	-63.59	71.29	243.13	409,842.77	829,548.41
6,763.00	5.30	238.30	6,758.28	-36.26	-36.88	-71.03	80.04	242.56	409,838.12	829,540.97
6,858.00	5.40	233.40	6,852.86	-41.17	-41.86	-78.35	88.83	241.89	409,833.14	829,533.65
6,953.00	3.80	242.00	6,947.56	-45.26	-46.00	-84.72	96.40	241.50	409,829.00	829,527.28
7,047.00	1.70	257.40	7,041.44	-46.99	-47.77	-88.83	100.86	241.73	409,827.23	829,523.17
7,142.00	0.80	8.50	7,136.43	-46.63	-47.42	-90.10	101.82	242.24	409,827.58	829,521.90
7,237.00	1.10	15.20	7,231.42	-45.10	-45.88	-89.75	100.80	242.92	409,829.12	829,522.25
7,332.00	1.00	21.20	7,326.40	-43.45	-44.23	-89.21	98.58	243.63	409,830.77	829,522.79
7,427.00	0.90	5.70	7,421.39	-41.94	-42.72	-88.84	98.58	244.32	409,832.28	829,523.16



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (MAD83)
Site: Biggers Fed Com
Well: No. 203H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 203H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

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)
7,522.00	1.10	10.60	7,516.37	-40.30	-41.08	-88.60	97.66	245.13	409,833.92	829,523.40
7,617.00	0.80	358.60	7,611.36	-38.74	-39.52	-88.45	96.87	245.92	409,835.48	829,523.55
7,712.00	1.00	1.40	7,706.35	-37.25	-38.03	-88.44	96.27	246.73	409,836.97	829,523.56
7,807.00	0.90	19.20	7,801.33	-35.72	-36.49	-88.18	95.43	247.52	409,838.51	829,523.82
7,903.00	1.20	12.70	7,897.32	-34.03	-34.80	-87.71	94.36	248.36	409,840.20	829,524.29
7,998.00	1.20	12.00	7,992.30	-32.09	-32.86	-87.28	93.26	249.37	409,842.14	829,524.72
8,093.00	0.60	20.00	8,087.29	-30.66	-31.42	-86.90	92.41	250.12	409,843.58	829,525.10
8,188.00	0.50	16.00	8,182.28	-29.79	-30.55	-86.62	91.85	250.57	409,844.45	829,525.38
8,283.00	0.20	221.80	8,277.28	-29.52	-30.26	-86.62	91.76	250.73	409,844.72	829,525.38
8,378.00	0.60	267.50	8,372.28	-29.66	-30.42	-87.22	92.38	250.77	409,844.58	829,524.78
8,473.00	0.80	261.00	8,467.27	-29.77	-30.55	-88.38	93.51	250.93	409,844.45	829,523.62
8,568.00	0.50	238.40	8,562.26	-30.09	-30.87	-89.38	94.56	250.95	409,844.13	829,522.62
8,663.00	0.30	237.20	8,657.26	-30.43	-31.22	-89.95	95.21	250.86	409,843.78	829,522.05
8,758.00	0.30	200.20	8,752.26	-30.80	-31.59	-90.24	95.61	250.71	409,843.41	829,521.76
8,854.00	0.30	181.60	8,848.26	-31.29	-32.07	-90.33	95.86	250.45	409,842.93	829,521.67
8,949.00	0.30	170.10	8,943.26	-31.78	-32.57	-90.30	95.99	250.17	409,842.43	829,521.70
9,044.00	0.60	207.30	9,038.26	-32.46	-33.26	-90.48	96.40	249.82	409,841.74	829,521.52
9,139.00	0.40	165.10	9,133.25	-33.23	-34.02	-90.63	96.80	249.43	409,840.98	829,521.37
9,234.00	0.60	201.20	9,228.25	-34.01	-34.80	-90.72	97.17	249.01	409,840.20	829,521.28
9,329.00	0.50	160.00	9,323.24	-34.86	-35.66	-90.76	97.51	248.55	409,839.34	829,521.24
9,424.00	0.30	143.00	9,418.24	-35.45	-36.24	-90.47	97.46	248.17	409,838.76	829,521.53
9,519.00	0.40	174.60	9,513.24	-35.98	-36.77	-90.29	97.49	247.84	409,838.23	829,521.71
9,614.00	0.30	148.40	9,608.24	-36.53	-37.31	-90.13	97.55	247.51	409,837.69	829,521.87
9,709.00	0.50	98.00	9,703.24	-36.80	-37.58	-89.58	97.15	247.24	409,837.42	829,522.41
9,804.00	0.10	53.60	9,798.24	-36.81	-37.59	-89.11	96.71	247.13	409,837.41	829,522.89
9,899.00	0.40	53.20	9,893.23	-36.57	-37.34	-88.78	96.31	247.19	409,837.66	829,523.22
9,994.00	0.40	25.20	9,988.23	-36.07	-36.85	-88.37	95.74	247.37	409,838.15	829,523.63



ProDirectional Survey Report



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Project: Lea County, NM (NAD83)
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Well: No. 203H
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Local Co-ordinate Reference: Well No. 203H
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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)
	10,089.00	0.70	15.40	10,083.23	-35.22	-35.99	-88.07	95.14	247.78	409,839.01	829,523.93
	10,184.00	1.00	13.20	10,178.22	-33.85	-34.62	-87.73	94.31	248.47	409,840.38	829,524.27
	10,280.00	1.70	26.50	10,274.19	-31.77	-32.53	-86.90	92.79	249.48	409,842.47	829,525.10
	10,374.00	1.50	31.60	10,368.15	-29.49	-30.23	-85.84	90.82	250.55	409,844.77	829,526.36
	10,470.00	1.40	56.30	10,464.12	-27.78	-28.51	-84.00	88.71	251.25	409,846.49	829,528.00
	10,564.00	1.00	36.00	10,558.10	-26.49	-27.21	-82.57	86.93	251.76	409,847.79	829,529.43
	10,659.00	0.60	36.00	10,653.09	-25.42	-26.14	-81.79	85.86	252.28	409,848.86	829,530.21
	10,754.00	0.70	30.60	10,748.09	-24.53	-25.24	-81.20	85.03	252.73	409,849.76	829,530.80
	10,848.00	0.60	51.30	10,842.08	-23.73	-24.44	-80.52	84.15	253.12	409,850.56	829,531.48
	10,943.00	0.60	85.70	10,937.08	-23.39	-24.09	-79.64	83.20	253.17	409,850.91	829,532.36
	11,038.00	0.90	51.20	11,032.07	-22.90	-23.58	-78.56	82.02	253.29	409,851.42	829,533.44
	11,133.00	1.40	22.20	11,127.05	-21.36	-22.04	-77.54	80.61	254.13	409,852.96	829,534.46
	11,228.00	3.00	20.80	11,221.98	-17.98	-18.64	-76.22	78.47	256.26	409,856.36	829,535.78
	11,323.00	1.30	350.40	11,316.91	-14.60	-15.25	-75.52	77.04	258.58	409,859.75	829,536.48
	11,418.00	1.40	324.90	11,411.88	-12.56	-13.24	-76.36	77.50	260.16	409,861.76	829,535.64
	11,513.00	0.60	27.60	11,506.87	-11.18	-11.85	-76.80	77.71	261.23	409,863.15	829,535.20
	11,608.00	0.30	69.20	11,601.87	-10.66	-11.32	-76.34	77.17	261.56	409,863.68	829,535.66
	11,703.00	0.30	353.10	11,696.87	-10.32	-10.99	-76.13	76.92	261.79	409,864.01	829,535.87
	11,798.00	0.80	338.60	11,791.86	-9.46	-10.12	-76.41	77.07	262.45	409,864.88	829,535.59
	11,893.00	0.60	304.00	11,886.86	-8.55	-9.23	-77.06	77.61	263.17	409,865.77	829,534.94
	11,989.00	0.60	312.50	11,982.85	-7.93	-8.61	-77.85	78.32	263.69	409,866.39	829,534.15
	12,082.00	0.90	328.50	12,075.84	-6.97	-7.66	-78.59	78.96	264.44	409,867.34	829,533.41
	12,177.00	10.90	332.60	12,170.22	1.70	0.98	-83.12	83.13	270.67	409,875.98	829,528.88
	12,271.00	24.90	339.50	12,269.46	28.36	27.54	-94.20	96.14	286.30	409,902.54	829,517.80
	12,366.00	34.60	336.40	12,341.84	72.07	71.09	-112.05	132.70	302.40	409,946.09	829,499.95
	12,460.00	45.80	344.80	12,413.58	129.43	128.29	-131.64	183.81	314.26	410,003.29	829,480.36
	12,555.00	54.80	353.10	12,474.26	201.17	199.91	-145.27	247.12	323.99	410,074.91	829,466.73



ProDirectional
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TVD Reference: Well @ 3360.50usft
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
12,850.00	62.40	355.70	12,523.73	281.87	280.54	-153.11	319.60	331.38	410,155.54	829,458.89
12,746.00	64.80	353.80	12,566.41	367.55	366.16	-160.99	399.99	336.27	410,241.16	829,451.01
12,841.00	68.50	358.30	12,604.07	454.57	453.13	-166.95	482.91	339.77	410,328.13	829,445.05
12,872.00	70.80	3.00	12,614.86	483.62	482.18	-166.61	510.15	340.94	410,357.18	829,445.39
12,885.00	71.30	4.30	12,619.08	495.88	494.45	-165.82	521.52	341.46	410,369.45	829,446.18
12,891.00	74.90	6.30	12,649.89	596.76	595.42	-156.44	615.62	345.28	410,470.42	829,455.56
13,086.00	76.80	6.30	12,671.50	688.60	687.35	-146.29	702.74	347.98	410,562.35	829,465.71
13,181.00	85.60	5.40	12,684.39	782.09	780.92	-136.71	792.80	350.07	410,655.92	829,475.29
13,276.00	87.70	4.70	12,689.94	876.47	875.39	-128.36	884.75	351.86	410,750.39	829,483.64
13,372.00	89.80	5.20	12,692.03	972.01	971.00	-120.08	978.40	352.95	410,846.00	829,491.92
13,467.00	89.80	5.10	12,692.53	1,066.55	1,065.62	-111.55	1,071.44	354.02	410,940.62	829,500.45
13,562.00	91.60	3.50	12,691.53	1,161.20	1,160.34	-104.43	1,165.03	354.86	411,035.34	829,507.57
13,657.00	89.80	0.40	12,690.37	1,256.09	1,255.26	-101.20	1,259.33	355.39	411,130.26	829,510.80
13,752.00	86.60	357.40	12,693.36	1,351.02	1,350.17	-103.02	1,354.10	355.64	411,225.17	829,508.98
13,847.00	86.80	357.50	12,698.83	1,445.80	1,444.92	-107.24	1,448.89	355.76	411,319.92	829,504.76
13,943.00	86.40	356.70	12,704.52	1,541.55	1,540.63	-112.09	1,544.70	355.84	411,415.63	829,499.91
14,037.00	88.20	357.70	12,708.95	1,635.36	1,634.41	-116.66	1,638.56	355.92	411,509.41	829,495.32
14,132.00	89.40	357.60	12,710.94	1,730.29	1,729.30	-120.57	1,733.50	356.01	411,604.30	829,491.43
14,226.00	92.00	359.40	12,709.79	1,824.26	1,823.25	-123.03	1,827.40	356.14	411,698.25	829,488.97
14,320.00	93.70	1.90	12,705.11	1,918.11	1,917.12	-121.37	1,920.99	356.36	411,792.12	829,490.03
14,415.00	91.70	1.70	12,700.64	2,012.92	2,011.96	-118.99	2,015.48	356.62	411,886.96	829,493.01
14,511.00	92.20	1.00	12,697.37	2,108.82	2,107.88	-116.73	2,111.11	356.83	411,982.88	829,495.27
14,606.00	92.00	0.40	12,693.89	2,203.73	2,202.81	-115.57	2,205.84	357.00	412,077.81	829,496.43
14,701.00	92.50	0.60	12,690.16	2,298.64	2,297.73	-114.74	2,300.59	357.14	412,172.73	829,497.26
14,796.00	92.30	0.40	12,686.23	2,392.55	2,391.64	-113.92	2,394.35	357.27	412,266.64	829,498.08
14,890.00	90.50	359.00	12,683.90	2,487.51	2,486.61	-114.42	2,489.24	357.37	412,361.61	829,497.58
14,986.00	87.50	357.10	12,685.58	2,583.45	2,582.52	-117.68	2,585.20	357.39	412,457.52	829,494.32



ProDirectional

Survey Report



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Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
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Design: MWD

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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)
15,080.00	88.60	357.80	12,688.78	2,677.33	2,676.37	-122.02	2,679.15	357.39	412,551.37	829,489.98
15,175.00	90.70	358.20	12,689.36	2,772.28	2,771.29	-125.50	2,774.13	357.41	412,646.29	829,486.50
15,270.00	90.40	358.30	12,688.45	2,867.26	2,866.25	-128.41	2,869.12	357.43	412,741.25	829,483.59
15,364.00	89.60	358.10	12,688.45	2,961.23	2,960.20	-131.36	2,963.11	357.46	412,835.20	829,480.64
15,458.00	92.80	358.20	12,686.64	3,055.18	3,054.12	-134.39	3,057.08	357.48	412,929.12	829,477.61
15,553.00	90.50	359.00	12,684.07	3,150.12	3,149.05	-136.71	3,152.02	357.51	413,024.05	829,475.29
15,647.00	90.40	359.20	12,683.33	3,244.12	3,243.04	-138.19	3,245.98	357.56	413,118.04	829,473.81
15,742.00	89.30	359.30	12,683.58	3,339.12	3,338.03	-139.43	3,340.94	357.61	413,213.03	829,472.57
15,837.00	90.80	1.40	12,683.50	3,434.10	3,433.02	-138.85	3,435.82	357.68	413,308.02	829,473.15
15,931.00	89.20	2.10	12,683.50	3,528.02	3,526.97	-135.96	3,529.59	357.79	413,401.97	829,476.02
16,026.00	89.50	2.80	12,684.58	3,622.89	3,621.88	-131.92	3,624.28	357.91	413,496.88	829,480.08
16,120.00	90.30	3.80	12,684.74	3,716.68	3,715.72	-126.51	3,717.87	358.05	413,590.72	829,485.49
16,213.00	90.90	4.10	12,683.77	3,809.39	3,808.49	-120.10	3,810.39	358.19	413,683.49	829,491.90
16,308.00	86.50	1.10	12,685.92	3,904.20	3,903.34	-115.79	3,905.05	358.30	413,778.34	829,496.21
16,402.00	86.10	0.90	12,691.99	3,997.97	3,997.12	-114.16	3,998.75	358.36	413,872.12	829,497.84
16,497.00	85.60	1.20	12,698.86	4,092.66	4,091.86	-112.42	4,093.40	358.43	413,966.86	829,499.58
16,592.00	83.90	1.10	12,707.56	4,187.24	4,186.44	-110.52	4,187.90	358.49	414,061.44	829,501.48
16,686.00	86.30	358.80	12,715.59	4,280.88	4,280.08	-110.61	4,281.51	358.52	414,155.08	829,501.39
16,781.00	89.90	359.10	12,718.74	4,375.81	4,375.00	-112.35	4,376.44	358.53	414,250.00	829,499.65
16,877.00	90.20	357.40	12,718.65	4,471.78	4,470.95	-115.28	4,472.44	358.52	414,345.95	829,496.72
16,971.00	90.10	357.20	12,718.41	4,565.72	4,564.84	-119.71	4,566.41	358.50	414,439.84	829,492.29
17,066.00	90.80	357.70	12,717.66	4,660.65	4,659.75	-123.93	4,661.39	358.48	414,534.75	829,488.07
17,161.00	92.50	358.20	12,714.92	4,755.57	4,754.64	-127.33	4,756.35	358.47	414,629.64	829,484.67
17,256.00	92.20	357.80	12,711.03	4,850.46	4,849.50	-130.64	4,851.26	358.46	414,724.50	829,481.36
17,351.00	91.90	356.80	12,707.63	4,945.33	4,944.34	-135.11	4,946.18	358.43	414,819.34	829,476.89
17,438.00	88.50	356.00	12,707.33	5,032.19	5,031.15	-140.56	5,033.11	358.40	414,906.15	829,471.42

Last Survey: 17438' MD



ProDirectional
Survey Report



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Local Co-ordinate Reference:
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WellPlanner1

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)
17,500.00	88.50	356.00	12,708.95	5,094.05	5,082.98	-144.90	5,095.04	358.37	414,967.98	829,467.10
PTB: 17500' MD										

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
162.00	161.99	-0.77	-1.01	Pro MWD First Survey: 162' MD
17,438.00	12,707.33	5,031.15	-140.58	Last Survey: 17438' MD
17,500.00	12,708.95	5,092.98	-144.90	PTB: 17500' MD