



HOBBS OCD
MAR 06 2020
RECEIVED

Biggers Fed Com No. 217H
Lea County, NM

October 07, 2019

Job No. LNM5513319

Certified Report

Donor



PRODIRECTIONAL

Survey Certification Letter

October 07, 2019



Operator Name: Matador Resources
Well Name: Biggers Fed Com No. 217H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 810
Job Number: LNM5513319

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	154' MD – 17,411' MD	17,471' MD	07/17/19 – 09/11/19	MWD-OWSG

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

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

prodirectional.com

The Standard of Excellence in Directional Supervision



Matador Resources

**Lea County, NM
Biggers Fed Com
No. 217H
OH**

Survey: ProDirectional

Survey Report

07 October, 2019





ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 217H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 217H
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:	Northings:	409,875.00 usft	Latitude:	32.123401
From: Map	Easting:	829,612.00 usft	Longitude:	-103.402148
Position Uncertainty:	Slot Radius:	13-3/16 "	Grid Convergence:	0.50 °

Well No. 217H, LNM5513319

Well Position	+N-S	0.00 usft	Northings:	409,845.00 usft	Latitude:	32.123318
	+E-W	0.00 usft	Easting:	829,612.00 usft	Longitude:	-103.402149
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,332.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/25/2019	6.57	59.73	47,772.40

Design MWD

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	359.51	

Survey Program Date 10/7/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
154.00	17,471.00	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. 217H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 217H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	409,845.00	829,612.00
154.00	0.20	264.50	154.00	-0.02	-0.03	-0.27	0.27	264.50	409,844.97	829,611.73
Pro MWD First Survey: 154' MD										
245.00	0.30	299.00	245.00	0.08	0.07	-0.63	0.64	276.70	409,845.07	829,611.37
337.00	0.30	294.50	337.00	0.30	0.29	-1.06	1.10	285.31	409,845.29	829,610.94
428.00	0.30	324.40	428.00	0.60	0.58	-1.42	1.53	292.35	409,845.58	829,610.58
521.00	0.10	0.40	521.00	0.88	0.86	-1.56	1.78	298.94	409,845.86	829,610.44
613.00	0.20	73.50	613.00	1.00	0.99	-1.41	1.72	305.12	409,845.99	829,610.59
703.00	0.10	297.30	703.00	1.08	1.07	-1.33	1.70	308.90	409,846.07	829,610.67
796.00	0.00	14.70	796.00	1.12	1.11	-1.40	1.78	308.38	409,846.11	829,610.60
891.00	0.10	78.40	891.00	1.13	1.12	-1.32	1.73	310.48	409,846.12	829,610.68
936.00	0.10	317.40	936.00	1.17	1.16	-1.30	1.75	311.65	409,846.16	829,610.70
979.00	0.10	358.30	979.00	1.24	1.23	-1.33	1.81	312.64	409,846.23	829,610.67
1,074.00	1.40	252.20	1,073.99	0.97	0.95	-2.44	2.62	291.35	409,845.95	829,609.56
1,169.00	3.30	256.90	1,168.90	0.03	-0.02	-6.21	6.21	269.80	409,844.98	829,605.79
1,264.00	5.50	262.80	1,263.62	-1.10	-1.21	-13.39	13.44	264.83	409,843.79	829,598.61
1,359.00	7.30	262.60	1,358.02	-2.36	-2.56	-23.89	24.03	263.88	409,842.44	829,588.11
1,454.00	7.80	265.40	1,452.20	-3.54	-3.85	-36.30	36.51	263.94	409,841.15	829,575.70
1,549.00	7.50	265.60	1,546.35	-4.43	-4.85	-48.91	49.15	264.34	409,840.15	829,563.09
1,645.00	7.30	266.00	1,641.55	-5.23	-5.75	-61.24	61.51	264.63	409,839.25	829,550.76
1,740.00	7.00	267.40	1,735.81	-5.81	-6.44	-73.04	73.33	264.96	409,838.56	829,538.96
1,834.00	6.70	266.60	1,829.14	-6.30	-7.02	-84.24	84.53	265.24	409,837.98	829,527.76
1,930.00	6.20	268.30	1,924.53	-6.69	-7.51	-95.01	95.31	265.48	409,837.49	829,516.99
2,025.00	6.10	270.40	2,018.99	-6.72	-7.62	-105.19	105.46	265.85	409,837.38	829,506.81
2,120.00	5.80	269.60	2,113.48	-6.64	-7.62	-115.03	115.29	266.21	409,837.38	829,496.97
2,215.00	5.50	269.90	2,208.01	-6.60	-7.66	-124.39	124.62	266.47	409,837.34	829,487.61
2,310.00	5.10	268.50	2,302.61	-6.64	-7.78	-133.16	133.39	266.66	409,837.22	829,478.84



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 217H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 217H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
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)
2,405.00	6.10	264.90	2,397.15	-7.12	-8.34	-142.41	142.65	266.65	409,836.66	829,469.59
2,500.00	6.70	263.70	2,491.56	-8.09	-9.40	-152.95	153.23	266.48	409,835.60	829,459.05
2,595.00	6.20	266.50	2,585.96	-8.92	-10.32	-163.57	163.90	266.39	409,834.68	829,448.43
2,689.00	5.80	267.10	2,679.44	-9.39	-10.87	-173.38	173.73	266.41	409,834.13	829,438.62
2,785.00	5.50	267.90	2,774.98	-9.72	-11.28	-182.83	183.17	266.47	409,833.72	829,429.17
2,880.00	6.50	269.20	2,869.46	-9.88	-11.53	-192.75	193.10	266.58	409,833.47	829,419.25
2,975.00	7.40	271.10	2,963.76	-9.74	-11.48	-204.25	204.57	266.78	409,833.52	829,407.75
3,070.00	6.90	272.10	3,058.02	-9.31	-11.16	-216.07	216.35	267.04	409,833.84	829,395.93
3,165.00	5.90	272.00	3,152.43	-8.84	-10.78	-226.65	226.90	267.28	409,834.22	829,385.35
3,260.00	6.60	267.50	3,246.86	-8.82	-10.85	-236.98	237.23	267.38	409,834.15	829,375.02
3,355.00	7.40	267.60	3,341.15	-9.21	-11.34	-248.55	248.81	267.39	409,833.66	829,363.45
3,450.00	6.60	270.60	3,435.44	-9.31	-11.54	-260.12	260.38	267.46	409,833.46	829,351.88
3,546.00	6.10	272.10	3,530.85	-8.98	-11.29	-270.74	270.97	267.61	409,833.71	829,341.26
3,641.00	5.40	275.30	3,625.38	-8.30	-10.70	-280.23	280.44	267.81	409,834.30	829,331.77
3,736.00	6.60	272.00	3,719.85	-7.61	-10.09	-290.14	290.31	268.01	409,834.91	829,321.86
3,831.00	7.60	271.30	3,814.12	-7.18	-9.76	-301.88	302.03	268.15	409,835.24	829,310.12
3,926.00	7.10	273.90	3,908.34	-6.53	-9.22	-314.01	314.15	268.32	409,835.78	829,297.99
4,021.00	6.50	273.40	4,002.67	-5.72	-8.50	-325.24	325.35	268.50	409,836.50	829,286.76
4,116.00	6.40	272.50	4,097.07	-5.08	-7.95	-335.90	335.99	268.64	409,837.05	829,276.10
4,211.00	5.90	273.10	4,191.53	-4.50	-7.45	-346.06	346.14	268.77	409,837.55	829,265.94
4,307.00	5.40	272.50	4,287.06	-3.95	-6.99	-355.50	355.57	268.87	409,838.01	829,256.50
4,402.00	6.20	269.10	4,381.57	-3.75	-6.88	-365.10	365.16	268.92	409,838.12	829,246.90
4,497.00	6.60	267.40	4,475.98	-3.99	-7.20	-375.68	375.75	268.90	409,837.80	829,236.32
4,592.00	5.20	267.80	4,570.47	-4.32	-7.62	-385.44	385.51	268.87	409,837.38	829,226.56
4,687.00	3.70	265.20	4,665.19	-4.68	-8.04	-392.79	392.88	268.83	409,836.96	829,219.21
4,782.00	4.30	262.70	4,759.95	-5.33	-8.75	-399.38	399.48	268.75	409,836.25	829,212.62
4,877.00	6.70	263.90	4,854.51	-6.30	-9.79	-408.43	408.54	268.63	409,835.21	829,203.57



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 217H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 217H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
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)
4,973.00	6.60	261.50	4,949.86	-7.61	-11.20	-419.45	419.60	268.47	409,833.80	829,192.55
5,067.00	5.30	254.60	5,043.36	-9.48	-13.15	-428.98	429.18	268.24	409,831.85	829,183.02
5,162.00	4.80	252.30	5,137.99	-11.79	-15.53	-437.00	437.27	267.97	409,829.47	829,175.00
5,256.00	5.70	258.30	5,231.59	-13.86	-17.67	-445.31	445.66	267.73	409,827.33	829,166.69
5,351.00	5.70	261.20	5,326.12	-15.46	-19.35	-454.60	455.01	267.56	409,825.65	829,157.40
5,446.00	4.70	260.90	5,420.73	-16.72	-20.68	-463.10	463.56	267.44	409,824.32	829,148.90
5,476.00	4.50	261.00	5,450.64	-17.08	-21.06	-465.48	465.95	267.41	409,823.94	829,146.52
5,621.00	3.50	254.20	5,595.28	-19.09	-23.16	-475.35	475.92	267.21	409,821.84	829,136.65
5,716.00	6.00	268.20	5,689.95	-19.97	-24.10	-483.11	483.71	267.14	409,820.90	829,128.89
5,811.00	8.50	277.60	5,784.19	-19.10	-23.33	-495.03	495.58	267.30	409,821.67	829,116.97
5,905.00	8.90	276.80	5,877.10	-17.20	-21.55	-509.14	509.59	267.58	409,823.45	829,102.86
6,000.00	8.50	276.50	5,971.01	-15.41	-19.89	-523.41	523.79	267.82	409,825.11	829,088.59
6,096.00	8.60	277.90	6,065.94	-13.50	-18.10	-537.57	537.88	268.07	409,826.90	829,074.43
6,222.00	8.40	277.00	6,190.56	-10.92	-15.68	-556.04	556.26	268.38	409,829.32	829,055.96
6,285.00	8.00	276.10	6,252.92	-9.82	-14.65	-564.96	565.15	268.51	409,830.35	829,047.04
6,380.00	7.50	273.60	6,347.05	-8.62	-13.56	-577.72	577.88	268.66	409,831.44	829,034.28
6,475.00	7.30	273.00	6,441.26	-7.81	-12.86	-589.94	590.08	268.75	409,832.14	829,022.06
6,570.00	7.30	272.50	6,535.49	-7.13	-12.28	-602.00	602.12	268.83	409,832.72	829,010.00
6,665.00	7.40	272.50	6,629.71	-6.49	-11.75	-614.14	614.25	268.90	409,833.25	828,997.86
6,760.00	7.30	271.70	6,723.93	-5.94	-11.30	-626.28	626.39	268.97	409,833.70	828,985.72
6,856.00	7.30	271.20	6,819.15	-5.53	-10.99	-638.48	638.57	269.01	409,834.01	828,973.52
6,951.00	7.20	271.10	6,913.39	-5.19	-10.75	-650.46	650.55	269.05	409,834.25	828,961.54
7,045.00	7.20	270.40	7,006.65	-4.93	-10.60	-662.24	662.33	269.08	409,834.40	828,949.76
7,140.00	7.00	270.10	7,100.92	-4.78	-10.55	-673.99	674.07	269.10	409,834.45	828,938.01
7,235.00	6.70	270.30	7,195.24	-4.65	-10.51	-685.32	685.40	269.12	409,834.49	828,926.68
7,330.00	6.60	269.80	7,289.60	-4.54	-10.50	-696.32	696.40	269.14	409,834.50	828,915.68
7,425.00	6.30	269.50	7,384.00	-4.51	-10.56	-706.99	707.07	269.14	409,834.44	828,905.01



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 217H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 217H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
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)
7,520.00	6.20	269.80	7,478.44	-4.49	-10.62	-717.33	717.41	269.15	409,834.38	828,894.67
7,615.00	5.90	269.70	7,572.91	-4.45	-10.67	-727.34	727.42	269.16	409,834.33	828,884.66
7,710.00	5.60	270.30	7,667.43	-4.37	-10.67	-736.86	736.94	269.17	409,834.33	828,875.14
7,805.00	5.50	267.50	7,761.98	-4.46	-10.84	-746.05	746.12	269.17	409,834.16	828,865.95
7,900.00	5.40	267.50	7,856.55	-4.78	-11.24	-755.06	755.14	269.15	409,833.76	828,856.94
7,995.00	5.50	265.40	7,951.12	-5.26	-11.80	-764.06	764.15	269.12	409,833.20	828,847.94
8,090.00	4.70	261.60	8,045.75	-6.12	-12.73	-772.45	772.56	269.06	409,832.27	828,839.55
8,185.00	4.60	256.30	8,140.44	-7.53	-14.20	-780.00	780.13	268.96	409,830.80	828,832.00
8,280.00	4.00	251.80	8,235.17	-9.41	-16.14	-786.85	787.02	268.82	409,828.86	828,825.15
8,375.00	3.00	257.20	8,329.99	-10.95	-17.72	-792.42	792.62	268.72	409,827.28	828,819.58
8,470.00	4.80	260.00	8,424.77	-12.13	-18.97	-798.76	798.99	268.64	409,826.03	828,813.24
8,566.00	4.50	258.60	8,520.45	-13.51	-20.41	-806.41	806.67	268.55	409,824.59	828,805.59
8,661.00	3.80	253.80	8,615.20	-15.07	-22.02	-813.09	813.39	268.45	409,822.98	828,798.91
8,756.00	5.80	275.90	8,709.87	-15.39	-22.41	-820.89	821.19	268.44	409,822.59	828,791.11
8,851.00	5.70	278.20	8,804.39	-14.14	-21.24	-830.33	830.60	268.53	409,823.76	828,781.67
8,946.00	5.10	276.90	8,898.97	-12.88	-20.06	-839.19	839.43	268.63	409,824.94	828,772.81
9,041.00	4.40	276.30	8,993.64	-11.91	-19.15	-847.01	847.22	268.70	409,825.85	828,764.99
9,136.00	4.00	276.10	9,088.39	-11.10	-18.40	-853.92	854.12	268.77	409,826.60	828,758.08
9,231.00	3.50	278.60	9,183.18	-10.26	-17.62	-860.08	860.27	268.83	409,827.38	828,751.92
9,326.00	3.20	279.60	9,278.02	-9.34	-16.74	-865.57	865.73	268.89	409,828.26	828,746.43
9,421.00	2.50	278.00	9,372.90	-8.57	-16.01	-870.23	870.38	268.95	409,828.99	828,741.77
9,516.00	2.20	277.10	9,467.82	-8.02	-15.50	-874.09	874.23	268.98	409,829.50	828,737.91
9,611.00	0.80	205.50	9,562.79	-8.38	-15.87	-876.19	876.33	268.96	409,829.13	828,735.81
9,706.00	1.10	205.40	9,657.78	-9.79	-17.29	-876.87	877.04	268.87	409,827.71	828,735.13
9,801.00	1.60	197.00	9,752.75	-11.88	-19.38	-877.64	877.86	268.73	409,825.62	828,734.36
9,896.00	1.80	198.10	9,847.71	-14.56	-22.07	-878.50	878.77	268.56	409,822.93	828,733.50
9,991.00	1.70	204.10	9,942.67	-17.25	-24.77	-879.53	879.88	268.39	409,820.23	828,732.47



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 217H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 217H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
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)
10,086.00	1.70	209.70	10,037.63	-19.75	-27.28	-880.81	881.23	268.23	409,817.72	828,731.19
10,182.00	0.40	282.20	10,133.61	-20.91	-28.45	-881.84	882.30	268.15	409,816.55	828,730.16
10,277.00	1.00	44.00	10,228.61	-20.24	-27.78	-881.59	882.03	268.19	409,817.22	828,730.41
10,372.00	0.90	39.60	10,323.59	-19.08	-26.61	-880.54	880.94	268.27	409,818.39	828,731.46
10,467.00	0.80	57.40	10,418.58	-18.16	-25.68	-879.50	879.88	268.33	409,819.32	828,732.50
10,561.00	1.20	52.30	10,512.57	-17.21	-24.73	-878.17	878.52	268.39	409,820.27	828,733.83
10,656.00	0.90	67.90	10,607.55	-16.34	-23.84	-876.69	877.02	268.44	409,821.16	828,735.31
10,751.00	1.00	89.30	10,702.54	-16.06	-23.55	-875.17	875.49	268.46	409,821.45	828,736.83
10,846.00	1.10	88.00	10,797.52	-16.03	-23.50	-873.43	873.75	268.46	409,821.50	828,738.57
10,941.00	0.90	73.00	10,892.51	-15.80	-23.25	-871.81	872.12	268.47	409,821.75	828,740.19
11,035.00	1.30	52.00	10,986.49	-14.94	-22.38	-870.26	870.55	268.53	409,822.62	828,741.74
11,130.00	1.60	69.00	11,081.46	-13.82	-21.24	-868.18	868.43	268.60	409,823.76	828,743.82
11,225.00	2.80	55.20	11,176.39	-12.04	-19.44	-865.03	865.25	268.71	409,825.56	828,746.97
11,320.00	2.70	49.30	11,271.28	-9.29	-16.66	-861.43	861.59	268.89	409,828.34	828,750.57
11,416.00	2.50	15.10	11,367.19	-5.82	-13.16	-859.17	859.27	269.12	409,831.84	828,752.83
11,511.00	4.60	19.80	11,462.00	-0.25	-7.58	-857.34	857.37	269.49	409,837.42	828,754.66
11,605.00	3.00	25.10	11,555.79	5.51	-1.80	-855.02	855.02	269.88	409,843.20	828,756.98
11,700.00	0.50	57.60	11,650.74	7.97	0.67	-853.61	853.61	270.04	409,845.67	828,758.39
11,796.00	0.90	135.70	11,746.74	7.65	0.35	-852.73	852.73	270.02	409,845.35	828,759.27
11,889.00	1.00	101.40	11,839.72	6.95	-0.33	-851.43	851.43	269.98	409,844.67	828,760.57
11,985.00	0.40	116.30	11,935.72	6.63	-0.64	-850.31	850.31	269.96	409,844.36	828,761.69
12,016.00	2.80	347.80	11,966.70	7.32	0.05	-850.37	850.37	270.00	409,845.05	828,761.63
12,080.00	10.70	336.00	12,030.21	14.31	7.02	-853.12	853.15	270.47	409,852.02	828,758.88
12,175.00	22.10	347.80	12,121.22	39.99	32.63	-860.51	861.13	272.17	409,877.63	828,751.49
12,269.00	30.90	348.70	12,205.26	81.09	73.66	-868.99	872.11	274.85	409,918.66	828,743.01
12,364.00	40.50	347.50	12,282.32	135.35	127.83	-880.48	889.71	278.26	409,972.83	828,731.52
12,458.00	47.50	346.90	12,349.90	199.11	191.46	-894.96	915.21	282.08	410,036.46	828,717.04



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 217H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 217H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
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)
12,553.00	53.70	342.60	12,410.18	270.00	262.19	-914.37	951.21	286.00	410,107.19	828,697.63
12,648.00	64.30	342.50	12,459.04	347.77	339.76	-938.75	998.35	289.90	410,184.76	828,673.25
12,712.00	70.60	343.20	12,483.57	404.37	396.21	-956.17	1,035.01	292.51	410,241.21	828,655.83
12,799.00	73.00	341.50	12,510.75	483.33	474.96	-981.23	1,090.14	295.83	410,319.96	828,630.77
12,862.00	75.60	343.50	12,527.79	541.32	532.79	-999.46	1,132.60	298.06	410,377.79	828,612.54
12,894.00	76.80	345.20	12,535.43	571.31	562.72	-1,007.84	1,154.29	299.18	410,407.72	828,604.16
12,926.00	77.90	345.80	12,542.44	601.61	592.94	-1,015.66	1,176.07	300.28	410,437.94	828,596.34
12,957.00	79.90	348.10	12,548.40	631.30	622.57	-1,022.52	1,197.14	301.34	410,467.57	828,589.48
12,989.00	82.20	349.50	12,553.38	662.35	653.58	-1,028.66	1,218.73	302.43	410,498.58	828,583.34
13,021.00	85.10	352.10	12,556.92	693.78	684.97	-1,033.74	1,240.08	303.53	410,529.97	828,578.26
13,053.00	86.30	355.10	12,559.32	725.52	716.68	-1,037.30	1,260.80	304.64	410,561.68	828,574.70
13,085.00	86.90	358.90	12,561.22	757.43	748.57	-1,038.97	1,280.55	305.77	410,593.57	828,573.03
13,180.00	89.70	1.70	12,564.04	852.36	843.51	-1,038.47	1,337.88	309.09	410,688.51	828,573.53
13,275.00	89.40	1.10	12,564.78	947.30	938.48	-1,036.15	1,397.98	312.17	410,783.48	828,575.85
13,370.00	90.00	0.70	12,565.28	1,042.27	1,033.46	-1,034.66	1,462.38	314.97	410,878.46	828,577.34
13,466.00	89.90	1.30	12,565.37	1,138.24	1,129.45	-1,032.98	1,530.59	317.55	410,974.45	828,579.02
13,561.00	87.60	2.50	12,567.44	1,233.13	1,224.36	-1,029.83	1,599.88	319.93	411,069.36	828,582.17
13,655.00	88.30	2.40	12,570.80	1,326.94	1,318.22	-1,025.82	1,670.33	322.11	411,163.22	828,586.18
13,750.00	87.60	1.50	12,574.20	1,421.79	1,413.10	-1,022.59	1,744.29	324.11	411,258.10	828,589.41
13,846.00	88.40	1.70	12,577.55	1,517.67	1,509.00	-1,019.91	1,821.35	325.95	411,354.00	828,592.09
13,941.00	88.50	1.10	12,580.12	1,612.58	1,603.94	-1,017.59	1,899.50	327.61	411,448.94	828,594.41
14,035.00	88.00	0.20	12,582.99	1,706.52	1,697.89	-1,016.52	1,978.93	329.09	411,542.89	828,595.48
14,130.00	89.30	359.00	12,585.23	1,801.49	1,792.86	-1,017.19	2,061.31	330.43	411,637.86	828,594.81
14,224.00	93.70	0.90	12,582.77	1,895.43	1,886.80	-1,017.27	2,143.56	331.67	411,731.80	828,594.73
14,319.00	92.80	359.00	12,577.38	1,990.27	1,981.64	-1,017.35	2,227.53	332.82	411,826.64	828,594.65
14,414.00	92.70	358.10	12,572.82	2,085.14	2,076.50	-1,019.75	2,313.38	333.84	411,921.50	828,592.25
14,509.00	94.20	358.20	12,567.11	2,179.94	2,171.27	-1,022.82	2,400.12	334.78	412,016.27	828,589.18



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 217H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 217H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
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)
14,534.00	94.20	359.30	12,565.28	2,204.87	2,196.20	-1,023.36	2,422.92	335.02	412,041.20	828,588.64
14,550.00	93.90	359.70	12,564.15	2,220.83	2,212.16	-1,023.50	2,437.46	335.17	412,057.16	828,588.50
14,592.00	92.10	1.90	12,561.95	2,262.76	2,254.09	-1,022.91	2,475.34	335.59	412,099.09	828,589.09
14,620.00	91.20	4.00	12,561.14	2,290.70	2,282.04	-1,021.47	2,500.23	335.89	412,127.04	828,590.53
14,652.00	88.90	5.70	12,561.11	2,322.55	2,313.92	-1,018.77	2,528.27	336.24	412,158.92	828,593.23
14,716.00	88.80	5.90	12,562.40	2,386.15	2,377.58	-1,012.30	2,584.12	336.94	412,222.58	828,599.70
14,810.00	89.10	5.10	12,564.12	2,479.62	2,471.14	-1,003.29	2,667.04	337.90	412,316.14	828,608.71
14,905.00	86.10	4.20	12,568.10	2,574.15	2,565.73	-995.60	2,752.12	338.79	412,410.73	828,616.40
14,937.00	85.90	4.00	12,570.33	2,605.97	2,597.57	-993.32	2,781.01	339.07	412,442.57	828,618.68
14,968.00	86.20	4.00	12,572.47	2,636.80	2,628.42	-991.16	2,809.09	339.34	412,473.42	828,620.84
15,000.00	86.10	3.70	12,574.61	2,668.64	2,660.27	-989.02	2,838.17	339.61	412,505.27	828,622.98
15,094.00	88.50	1.30	12,579.04	2,762.39	2,754.07	-984.92	2,924.89	340.32	412,599.07	828,627.08
15,190.00	88.30	0.60	12,581.72	2,858.32	2,850.02	-983.33	3,014.88	340.96	412,695.02	828,628.67
15,284.00	88.40	0.60	12,584.43	2,952.27	2,943.97	-982.35	3,103.54	341.55	412,788.97	828,629.65
15,378.00	89.30	0.60	12,586.32	3,046.23	3,037.95	-981.36	3,192.52	342.10	412,882.95	828,630.64
15,473.00	90.60	0.50	12,586.40	3,141.21	3,132.94	-980.45	3,282.77	342.62	412,977.94	828,631.55
15,568.00	92.20	359.90	12,584.08	3,236.17	3,227.91	-980.12	3,373.43	343.11	413,072.91	828,631.88
15,662.00	92.90	359.80	12,579.90	3,330.08	3,321.81	-980.37	3,463.46	343.56	413,166.81	828,631.63
15,757.00	90.60	359.90	12,577.00	3,425.02	3,416.76	-980.61	3,554.70	343.99	413,261.76	828,631.39
15,851.00	91.80	359.90	12,575.03	3,519.00	3,510.74	-980.78	3,645.16	344.39	413,355.74	828,631.22
15,945.00	89.80	359.00	12,573.71	3,612.98	3,604.72	-981.68	3,736.00	344.77	413,449.72	828,630.32
16,041.00	90.40	358.90	12,573.55	3,708.98	3,700.70	-983.44	3,829.15	345.12	413,545.70	828,628.56
16,135.00	88.70	358.60	12,574.29	3,802.96	3,794.68	-985.49	3,920.56	345.44	413,639.68	828,626.51
16,229.00	89.10	358.80	12,576.09	3,896.94	3,888.63	-987.62	4,012.09	345.75	413,733.63	828,624.38
16,323.00	89.30	358.40	12,577.40	3,990.92	3,982.60	-989.92	4,103.78	346.04	413,827.60	828,622.08
16,418.00	89.80	357.60	12,578.15	4,085.88	4,077.53	-993.23	4,196.76	346.31	413,922.53	828,618.77
16,512.00	90.70	356.80	12,577.74	4,179.80	4,171.42	-997.83	4,289.10	346.55	414,016.42	828,614.17



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 217H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 217H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
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)
16,607.00	89.60	355.70	12,577.49	4,274.64	4,266.21	-1,004.04	4,382.77	346.76	414,111.21	828,607.96
16,701.00	89.70	356.70	12,578.06	4,368.48	4,360.00	-1,010.27	4,475.52	346.95	414,205.00	828,601.73
16,796.00	89.40	357.40	12,578.81	4,463.39	4,454.87	-1,015.16	4,569.07	347.16	414,299.87	828,596.84
16,892.00	94.20	0.90	12,575.79	4,559.30	4,550.77	-1,016.58	4,662.94	347.41	414,395.77	828,595.42
16,986.00	90.10	359.80	12,572.27	4,653.20	4,644.68	-1,016.01	4,754.51	347.66	414,489.68	828,595.99
17,081.00	87.10	358.10	12,574.59	4,748.16	4,739.62	-1,017.75	4,847.67	347.88	414,584.62	828,594.25
17,176.00	87.50	357.60	12,579.06	4,843.01	4,834.45	-1,021.31	4,941.15	348.07	414,679.45	828,590.69
17,271.00	87.00	358.30	12,583.62	4,937.86	4,929.28	-1,024.70	5,034.66	348.26	414,774.28	828,587.30
17,366.00	86.70	0.40	12,588.84	5,032.71	5,024.13	-1,025.78	5,127.77	348.46	414,869.13	828,586.22
17,411.00	87.10	1.00	12,591.28	5,077.64	5,069.06	-1,025.23	5,171.70	348.57	414,914.06	828,586.77
Last Survey: 17411' MD										
17,471.00	87.10	1.00	12,594.31	5,137.54	5,128.97	-1,024.19	5,230.23	348.71	414,973.97	828,587.81
PTB: 17471' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
154.00	154.00	-0.03	-0.27	Pro MWD First Survey: 154' MD
17,411.00	12,591.28	5,069.06	-1,025.23	Last Survey: 17411' MD
17,471.00	12,594.31	5,128.97	-1,024.19	PTB: 17471' MD