



HOBBS OCD
AUG 19 2019
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30-025-45581

Brad Lummis Fed Com No. 211H

Lea County, NM

May 09, 2019

Job No. LNM5203819

Certified Report

ORIGINAL



ProDIRECTIONAL

Survey Certification Letter

May 09, 2019



Operator Name: Matador Resources
Well Name: Brad Lummis Fed Com No. 211H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5203819

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	150' MD – 17,100' MD	17,161' MD	03/30/19 – 04/16/19	MWD-OWSG

Sincerely,

Mike Coats

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
Brad Lummis Fed Com
No. 211H
OH**

Survey: ProDirectional

Survey Report

09 May, 2019





ProDirectional Survey Report



Company: Matador Resources	Local Co-ordinate Reference: Well No. 211H
Project: Lea County, NM (NAD83)	TVD Reference: Well @ 3521.50usft
Site: Brad Lummis Fed Com	MD Reference: Well @ 3521.50usft
Well: No. 211H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: MWD-150'-17100', PTB: 17161'	Database: WellPlanner1

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

Site Brad Lummis Fed Com		
Site Position:	Northing: 441,075.00 usft	Latitude: 32.209451
From: Map	Easting: 816,955.00 usft	Longitude: -103.442194
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.48 °

Well No. 211H		
Well Position +N/-S 0.00 usft	Northing: 440,936.00 usft	Latitude: 32.209109
+E/-W 0.00 usft	Easting: 815,188.00 usft	Longitude: -103.447911
Position Uncertainty 0.00 usft	Wellhead Elevation: usft	Ground Level: 3,493.00 usft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/12/2019	6.65	59.87	47,919.40

Design MWD-150'-17100', PTB: 17161'				
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	179.55

Survey Program Date 5/9/2019				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
150.00	17,161.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



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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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	440,936.00	815,188.00
150.00	0.60	217.60	150.00	0.62	-0.62	-0.48	0.79	217.60	440,935.38	815,187.52
Pro MWD First Survey: 150' MD										
239.00	0.70	213.20	238.99	1.44	-1.45	-1.06	1.79	216.27	440,934.55	815,186.94
329.00	0.30	244.40	328.99	2.00	-2.01	-1.57	2.55	218.10	440,933.99	815,186.43
419.00	0.20	90.60	418.99	2.10	-2.11	-1.63	2.67	217.67	440,933.89	815,186.37
509.00	0.30	106.10	508.99	2.17	-2.18	-1.25	2.51	209.78	440,933.82	815,186.75
599.00	0.00	317.60	598.99	2.24	-2.24	-1.02	2.47	204.45	440,933.76	815,186.98
695.00	0.10	224.70	694.99	2.29	-2.30	-1.08	2.54	205.10	440,933.70	815,186.92
790.00	0.50	112.60	789.99	2.52	-2.52	-0.75	2.63	196.67	440,933.48	815,187.25
885.00	0.50	83.70	884.98	2.64	-2.64	0.04	2.64	179.13	440,933.36	815,188.04
980.00	0.40	119.40	979.98	2.76	-2.75	0.74	2.85	164.94	440,933.25	815,188.74
1,070.00	0.50	75.50	1,069.98	2.82	-2.81	1.39	3.14	153.59	440,933.19	815,189.39
1,165.00	0.40	73.00	1,164.97	2.62	-2.61	2.11	3.36	140.99	440,933.39	815,190.11
1,260.00	0.60	80.70	1,259.97	2.45	-2.43	2.92	3.80	129.77	440,933.57	815,190.92
1,355.00	0.50	60.80	1,354.97	2.18	-2.15	3.77	4.34	119.65	440,933.85	815,191.77
1,450.00	0.50	47.40	1,449.96	1.70	-1.67	4.44	4.74	110.56	440,934.33	815,192.44
1,545.00	0.20	23.10	1,544.96	1.27	-1.23	4.81	4.97	104.37	440,934.77	815,192.81
1,641.00	0.30	43.10	1,640.96	0.93	-0.89	5.05	5.13	100.05	440,935.11	815,193.05
1,736.00	0.40	72.00	1,735.96	0.65	-0.61	5.53	5.57	96.30	440,935.39	815,193.53
1,831.00	0.30	75.40	1,830.96	0.49	-0.45	6.09	6.11	94.18	440,935.55	815,194.09
1,927.00	0.30	40.20	1,926.95	0.24	-0.19	6.50	6.50	91.68	440,935.81	815,194.50
2,022.00	0.30	93.30	2,021.95	0.07	-0.01	6.90	6.90	90.12	440,935.99	815,194.90
2,117.00	0.20	35.10	2,116.95	-0.05	0.11	7.25	7.25	89.15	440,936.11	815,195.25
2,212.00	0.30	4.90	2,211.95	-0.43	0.49	7.36	7.38	86.19	440,936.49	815,195.36
2,308.00	0.30	343.80	2,307.95	-0.92	0.98	7.32	7.38	82.35	440,936.98	815,195.32
2,403.00	0.30	330.60	2,402.95	-1.38	1.44	7.12	7.27	78.59	440,937.44	815,195.12



ProDirectional Survey Report



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Site: Brad Lummis Fed Com
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Wellbore: OH
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North Reference: Grid
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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)
2,498.00	1.70	349.70	2,497.93	-2.99	3.04	6.75	7.40	65.75	440,939.04	815,194.75
2,594.00	2.20	348.30	2,593.88	-6.20	6.25	6.12	8.75	44.42	440,942.25	815,194.12
2,689.00	3.00	353.40	2,688.78	-10.46	10.50	5.47	11.84	27.50	440,946.50	815,193.47
2,785.00	4.30	355.10	2,784.58	-16.54	16.58	4.87	17.28	16.37	440,952.58	815,192.87
2,880.00	5.20	4.90	2,879.26	-24.38	24.42	4.93	24.91	11.42	440,960.42	815,192.93
2,975.00	5.60	11.50	2,973.83	-33.20	33.25	6.23	33.83	10.60	440,969.25	815,194.23
3,070.00	5.10	13.30	3,068.42	-41.84	41.90	8.12	42.68	10.97	440,977.90	815,196.12
3,165.00	6.30	12.90	3,162.95	-51.01	51.09	10.26	52.11	11.35	440,987.09	815,198.26
3,261.00	7.10	14.40	3,258.29	-61.87	61.98	12.91	63.31	11.76	440,997.98	815,200.91
3,356.00	6.60	16.90	3,352.61	-72.76	72.89	15.95	74.61	12.35	441,008.89	815,203.95
3,451.00	6.20	17.50	3,447.02	-82.85	83.00	19.08	85.17	12.95	441,019.00	815,207.08
3,547.00	5.80	18.80	3,542.50	-92.36	92.54	22.21	95.17	13.49	441,028.54	815,210.21
3,642.00	5.40	22.40	3,637.04	-101.01	101.22	25.46	104.37	14.12	441,037.22	815,213.46
3,737.00	5.10	24.50	3,731.64	-108.96	109.19	28.91	112.95	14.83	441,045.19	815,216.91
3,832.00	4.90	24.80	3,826.28	-116.46	116.72	32.36	121.12	15.50	441,052.72	815,220.36
3,928.00	5.30	9.60	3,921.91	-124.53	124.81	34.82	129.58	15.59	441,060.81	815,222.82
4,023.00	5.60	9.00	4,016.48	-133.42	133.71	36.28	138.55	15.18	441,069.71	815,224.28
4,118.00	5.20	12.90	4,111.06	-142.19	142.49	37.97	147.46	14.92	441,078.49	815,225.97
4,214.00	4.10	13.70	4,206.74	-149.75	150.06	39.75	155.24	14.84	441,086.06	815,227.75
4,309.00	5.00	2.80	4,301.44	-157.17	157.50	40.76	162.69	14.51	441,093.50	815,228.76
4,404.00	5.30	359.20	4,396.06	-165.69	166.02	40.90	170.98	13.84	441,102.02	815,228.90
4,499.00	4.10	3.40	4,490.74	-173.47	173.80	41.04	178.58	13.29	441,109.80	815,229.04
4,594.00	3.20	13.50	4,585.54	-179.43	179.77	41.86	184.58	13.11	441,115.77	815,229.86
4,690.00	2.30	32.60	4,681.43	-183.65	184.00	43.52	189.07	13.31	441,120.00	815,231.52
4,785.00	2.20	51.20	4,776.36	-186.38	186.74	45.97	192.32	13.83	441,122.74	815,233.97
4,880.00	1.70	50.70	4,871.31	-188.39	188.78	48.48	194.90	14.40	441,124.78	815,236.48
4,974.00	1.90	66.70	4,965.26	-189.87	190.28	50.99	196.99	15.00	441,126.28	815,238.99



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5,069.00	2.50	79.80	5,060.19	-190.83	191.27	54.48	198.88	15.90	441,127.27	815,242.48
5,164.00	2.80	88.70	5,155.09	-191.22	191.69	58.84	200.51	17.06	441,127.69	815,246.84
5,259.00	2.90	93.40	5,249.97	-191.09	191.60	63.56	201.86	18.35	441,127.60	815,251.56
5,346.00	2.20	87.70	5,336.89	-191.00	191.53	67.42	203.05	19.39	441,127.53	815,255.42
5,442.00	1.50	86.80	5,432.83	-191.12	191.68	70.52	204.24	20.20	441,127.68	815,258.52
5,537.00	2.50	354.10	5,527.79	-193.24	193.81	71.55	206.59	20.26	441,129.81	815,259.55
5,633.00	2.30	346.80	5,623.71	-197.20	197.77	70.89	210.09	19.72	441,133.77	815,258.89
5,728.00	2.50	350.20	5,718.63	-201.11	201.66	70.10	213.50	19.17	441,137.66	815,258.10
5,824.00	4.70	356.80	5,814.43	-207.10	207.66	69.53	218.99	18.51	441,143.66	815,257.53
5,919.00	5.30	357.00	5,909.07	-215.37	215.92	69.08	226.70	17.74	441,151.92	815,257.08
6,013.00	5.30	356.30	6,002.67	-224.05	224.59	68.57	234.83	16.98	441,160.59	815,256.57
6,108.00	5.50	355.50	6,097.25	-232.97	233.51	67.93	243.19	16.22	441,169.51	815,255.93
6,204.00	5.70	353.80	6,192.79	-242.30	242.83	67.06	251.92	15.44	441,178.83	815,255.06
6,299.00	5.80	353.00	6,287.31	-251.76	252.29	65.96	260.77	14.65	441,188.29	815,253.96
6,394.00	5.40	352.80	6,381.86	-260.97	261.49	64.82	269.40	13.92	441,197.49	815,252.82
6,489.00	5.60	353.20	6,476.42	-270.02	270.53	63.71	277.93	13.25	441,206.53	815,251.71
6,585.00	5.80	354.80	6,571.95	-279.51	280.01	62.71	286.94	12.62	441,216.01	815,250.71
6,680.00	6.00	354.10	6,666.44	-289.23	289.73	61.77	296.24	12.03	441,225.73	815,249.77
6,775.00	5.70	354.70	6,760.95	-298.88	299.36	60.82	305.48	11.48	441,235.36	815,248.82
6,871.00	6.10	354.40	6,856.44	-308.71	309.19	59.88	314.93	10.96	441,245.19	815,247.88
6,966.00	6.20	354.10	6,950.89	-318.84	319.31	58.86	324.69	10.44	441,255.31	815,246.86
7,061.00	6.00	353.40	7,045.35	-328.88	329.35	57.77	334.38	9.95	441,265.35	815,245.77
7,156.00	4.00	354.70	7,139.99	-337.12	337.58	56.89	342.34	9.57	441,273.58	815,244.89
7,251.00	4.00	356.00	7,234.76	-343.73	344.18	56.35	348.77	9.30	441,280.18	815,244.35
7,347.00	4.10	354.40	7,330.52	-350.49	350.94	55.78	355.35	9.03	441,286.94	815,243.78
7,442.00	4.00	353.40	7,425.28	-357.17	357.61	55.07	361.83	8.75	441,293.61	815,243.07
7,537.00	1.60	10.30	7,520.16	-361.77	362.21	54.93	366.35	8.62	441,298.21	815,242.93



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7,632.00	1.30	5.90	7,615.13	-364.14	364.59	55.27	368.75	8.62	441,300.59	815,243.27
7,727.00	1.20	6.20	7,710.11	-366.20	366.65	55.49	370.82	8.61	441,302.65	815,243.49
7,822.00	1.30	10.20	7,805.08	-368.25	368.70	55.79	372.89	8.60	441,304.70	815,243.79
7,916.00	1.20	4.30	7,899.06	-370.28	370.73	56.05	374.94	8.60	441,306.73	815,244.05
8,011.00	0.80	6.50	7,994.05	-371.92	372.38	56.20	376.60	8.58	441,308.38	815,244.20
8,106.00	0.80	335.10	8,089.04	-373.19	373.64	56.00	377.81	8.52	441,309.64	815,244.00
8,201.00	0.40	324.20	8,184.03	-374.06	374.51	55.53	378.60	8.43	441,310.51	815,243.53
8,296.00	0.30	326.30	8,279.03	-374.54	374.98	55.19	379.03	8.37	441,310.98	815,243.19
8,391.00	0.30	300.00	8,374.03	-374.87	375.32	54.84	379.30	8.31	441,311.32	815,242.84
8,486.00	0.60	304.20	8,469.03	-375.28	375.72	54.21	379.61	8.21	441,311.72	815,242.21
8,582.00	0.60	264.30	8,565.02	-375.52	375.95	53.30	379.71	8.07	441,311.95	815,241.30
8,677.00	0.90	288.50	8,660.01	-375.72	376.14	52.10	379.73	7.89	441,312.14	815,240.10
8,772.00	1.20	309.10	8,755.00	-376.59	377.00	50.62	380.39	7.65	441,313.00	815,238.62
8,867.00	0.30	13.20	8,849.99	-377.47	377.87	49.90	381.15	7.52	441,313.87	815,237.90
8,963.00	0.30	37.10	8,945.99	-377.91	378.32	50.11	381.62	7.55	441,314.32	815,238.11
9,057.00	0.10	48.10	9,039.99	-378.16	378.57	50.32	381.90	7.57	441,314.57	815,238.32
9,153.00	0.30	306.30	9,135.99	-378.37	378.77	50.18	382.08	7.55	441,314.77	815,238.18
9,248.00	1.60	80.40	9,230.98	-378.73	379.14	51.29	382.60	7.70	441,315.14	815,239.29
9,343.00	1.20	80.60	9,325.95	-379.09	379.53	53.58	383.29	8.04	441,315.53	815,241.58
9,438.00	0.40	85.50	9,420.94	-379.27	379.72	54.89	383.66	8.23	441,315.72	815,242.89
9,533.00	0.10	143.50	9,515.94	-379.23	379.67	55.27	383.68	8.28	441,315.67	815,243.27
9,628.00	1.30	82.20	9,610.93	-379.30	379.75	56.38	383.92	8.45	441,315.75	815,244.38
9,722.00	0.60	131.00	9,704.92	-379.11	379.58	57.81	383.95	8.66	441,315.58	815,245.81
9,818.00	0.80	232.30	9,800.91	-378.37	378.84	57.66	383.20	8.65	441,314.84	815,245.66
9,913.00	1.50	233.30	9,895.89	-377.24	377.69	56.14	381.84	8.45	441,313.69	815,244.14
10,008.00	1.20	185.90	9,990.87	-375.51	375.95	55.04	379.96	8.33	441,311.95	815,243.04
10,103.00	1.00	188.70	10,085.85	-373.70	374.15	54.81	378.14	8.33	441,310.15	815,242.81



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10,198.00	1.60	211.20	10,180.83	-371.76	372.19	54.00	376.09	8.26	441,308.19	815,242.00
10,293.00	1.10	176.50	10,275.80	-369.72	370.15	53.37	373.98	8.20	441,306.15	815,241.37
10,388.00	1.90	149.40	10,370.77	-367.44	367.88	54.23	371.86	8.39	441,303.88	815,242.23
10,483.00	2.50	129.10	10,465.70	-364.76	365.22	56.64	369.58	8.81	441,301.22	815,244.64
10,578.00	2.50	117.90	10,560.61	-362.46	362.94	60.08	367.88	9.40	441,298.94	815,248.08
10,674.00	2.40	89.70	10,656.53	-361.46	361.97	63.94	367.58	10.02	441,297.97	815,251.94
10,769.00	1.60	93.30	10,751.47	-361.37	361.91	67.25	368.10	10.53	441,297.91	815,255.25
10,864.00	0.80	116.00	10,846.45	-360.99	361.54	69.17	368.10	10.83	441,297.54	815,257.17
10,960.00	0.00	220.10	10,942.44	-360.69	361.25	69.77	367.92	10.93	441,297.25	815,257.77
11,055.00	0.40	306.60	11,037.44	-360.89	361.44	69.51	368.07	10.88	441,297.44	815,257.51
11,150.00	0.30	154.10	11,132.44	-360.86	361.42	69.35	368.01	10.86	441,297.42	815,257.35
11,245.00	0.60	205.70	11,227.44	-360.19	360.75	69.24	367.33	10.87	441,296.75	815,257.24
11,340.00	0.80	186.60	11,322.43	-359.09	359.64	68.95	366.19	10.85	441,295.64	815,256.95
11,435.00	0.60	209.40	11,417.43	-358.00	358.55	68.63	365.06	10.84	441,294.55	815,256.63
11,531.00	1.30	225.40	11,513.41	-356.80	357.35	67.61	363.68	10.71	441,293.35	815,255.61
11,626.00	1.60	212.30	11,608.38	-354.94	355.47	66.13	361.57	10.54	441,291.47	815,254.13
11,657.00	1.50	201.80	11,639.37	-354.20	354.72	65.75	360.77	10.50	441,290.72	815,253.75
11,785.00	2.10	185.00	11,767.31	-350.31	350.83	64.92	356.79	10.48	441,286.83	815,252.92
11,817.00	7.00	157.10	11,799.20	-347.92	348.45	65.63	354.58	10.67	441,284.45	815,253.63
11,881.00	17.70	153.50	11,861.63	-335.54	336.12	71.51	343.64	12.01	441,272.12	815,259.51
11,976.00	30.50	162.10	11,948.19	-299.41	300.09	85.42	312.01	15.89	441,236.09	815,273.42
12,071.00	41.30	167.90	12,025.05	-245.53	246.32	99.45	265.64	21.99	441,182.32	815,287.45
12,166.00	50.40	171.40	12,091.17	-178.45	179.33	111.52	211.18	31.88	441,115.33	815,299.52
12,261.00	52.80	181.00	12,150.26	-104.28	105.19	116.34	156.85	47.88	441,041.19	815,304.34
12,356.00	59.00	187.90	12,203.54	-26.03	26.89	110.07	113.31	76.27	440,962.89	815,298.07
12,451.00	68.90	188.20	12,245.20	58.28	-57.51	98.13	113.74	120.37	440,878.49	815,286.13
12,521.00	72.00	185.20	12,268.63	123.71	-123.01	90.45	152.68	143.67	440,812.99	815,278.45



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Brad Lummis Fed Com
Well: No. 211H
Wellbore: OH
Design: MWD-150'-17100', PTB: 17161'

Local Co-ordinate Reference: Well No. 211H
TVD Reference: Well @ 3521.50usft
MD Reference: Well @ 3521.50usft
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)
12,566.00	71.30	184.80	12,282.80	166.23	-165.56	86.73	186.90	152.35	440,770.44	815,274.73
12,610.00	75.40	183.50	12,295.40	208.24	-207.59	83.68	223.82	158.05	440,728.41	815,271.68
12,655.00	81.90	181.80	12,304.25	252.27	-251.64	81.65	264.55	162.02	440,684.36	815,269.65
12,744.00	89.00	179.90	12,311.31	340.91	-340.29	80.34	349.64	166.72	440,595.71	815,268.34
12,833.00	88.60	178.90	12,313.17	429.89	-429.26	81.27	436.89	169.28	440,506.74	815,269.27
12,923.00	88.30	178.50	12,315.61	519.84	-519.21	83.31	525.85	170.88	440,416.79	815,271.31
13,012.00	87.10	176.90	12,319.18	608.72	-608.06	86.88	614.23	171.87	440,327.94	815,274.88
13,101.00	88.60	177.30	12,322.52	697.57	-696.88	91.38	702.84	172.53	440,239.12	815,279.38
13,190.00	88.10	176.20	12,325.08	786.43	-785.70	96.42	791.59	173.00	440,150.30	815,284.42
13,279.00	91.70	179.10	12,325.24	875.36	-874.60	100.07	880.30	173.47	440,061.40	815,288.07
13,369.00	90.90	181.30	12,323.19	965.32	-964.57	99.76	969.71	174.10	439,971.43	815,287.76
13,458.00	88.50	182.80	12,323.66	1,054.23	-1,053.50	96.58	1,057.92	174.76	439,882.50	815,284.58
13,547.00	87.10	182.60	12,327.08	1,143.02	-1,142.33	92.39	1,146.06	175.38	439,793.67	815,280.39
13,637.00	87.40	181.80	12,331.40	1,232.82	-1,232.16	88.94	1,235.37	175.87	439,703.84	815,276.94
13,726.00	86.10	181.20	12,336.44	1,321.63	-1,320.99	86.61	1,323.82	176.25	439,615.01	815,274.61
13,815.00	87.20	179.50	12,341.64	1,410.46	-1,409.83	86.07	1,412.45	176.51	439,526.17	815,274.07
13,904.00	88.80	177.60	12,344.75	1,499.39	-1,498.74	88.32	1,501.34	176.63	439,437.26	815,276.32
13,994.00	88.00	176.60	12,347.26	1,589.27	-1,588.59	92.87	1,591.30	176.65	439,347.41	815,280.87
14,083.00	91.60	178.20	12,347.57	1,678.19	-1,677.48	96.91	1,680.27	176.69	439,258.52	815,284.91
14,172.00	90.00	177.90	12,346.33	1,767.14	-1,766.41	99.93	1,769.24	176.76	439,169.59	815,287.93
14,262.00	88.70	177.00	12,347.35	1,857.08	-1,856.32	103.94	1,859.22	176.80	439,079.68	815,291.94
14,351.00	89.20	176.70	12,348.98	1,945.96	-1,945.17	108.83	1,948.21	176.80	438,990.83	815,296.83
14,440.00	88.60	176.10	12,350.69	2,034.81	-2,033.97	114.41	2,037.19	176.78	438,902.03	815,302.41
14,530.00	88.90	178.30	12,352.65	2,124.71	-2,123.84	118.81	2,127.16	176.80	438,812.16	815,306.81
14,619.00	87.90	180.70	12,355.14	2,213.66	-2,212.79	119.59	2,216.02	176.91	438,723.21	815,307.59
14,709.00	87.80	180.10	12,358.52	2,303.59	-2,302.73	118.96	2,305.80	177.04	438,633.27	815,306.96
14,798.00	87.20	183.10	12,362.40	2,392.44	-2,391.60	116.48	2,394.43	177.21	438,544.40	815,304.48



ProDirectional Survey Report



Company: Matador Resources
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Site: Brad Lummis Fed Com
Well: No. 211H
Wellbore: OH
Design: MWD-150'-17100', PTB: 17161'

Local Co-ordinate Reference: Well No. 211H
TVD Reference: Well @ 3521.50usft
MD Reference: Well @ 3521.50usft
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)
14,887.00	86.90	183.50	12,366.98	2,481.13	-2,480.33	111.36	2,482.83	177.43	438,455.67	815,299.36
14,976.00	87.00	183.30	12,371.71	2,569.80	-2,569.05	106.09	2,571.24	177.64	438,366.95	815,294.09
15,066.00	86.80	182.70	12,376.58	2,659.51	-2,658.79	101.39	2,660.73	177.82	438,277.21	815,289.39
15,155.00	86.90	182.90	12,381.47	2,748.23	-2,747.55	97.05	2,749.27	177.98	438,188.45	815,285.05
15,244.00	86.60	182.50	12,386.52	2,836.95	-2,836.31	92.86	2,837.83	178.12	438,099.69	815,280.86
15,334.00	85.80	182.20	12,392.48	2,926.65	-2,926.04	89.18	2,927.40	178.25	438,009.96	815,277.18
15,423.00	85.80	181.70	12,399.00	3,015.33	-3,014.75	86.16	3,015.98	178.36	437,921.25	815,274.16
15,512.00	85.40	181.30	12,405.83	3,104.02	-3,103.45	83.83	3,104.59	178.45	437,832.55	815,271.83
15,602.00	86.40	180.60	12,412.26	3,193.76	-3,193.21	82.35	3,194.27	178.52	437,742.79	815,270.35
15,691.00	86.60	180.60	12,417.70	3,282.58	-3,282.04	81.42	3,283.05	178.58	437,653.96	815,269.42
15,781.00	86.30	180.30	12,423.27	3,372.39	-3,371.86	80.71	3,372.83	178.63	437,564.14	815,268.71
15,870.00	86.90	180.10	12,428.55	3,461.23	-3,460.71	80.40	3,461.64	178.67	437,475.29	815,268.40
15,959.00	86.90	179.50	12,433.36	3,550.10	-3,549.57	80.71	3,550.49	178.70	437,386.43	815,268.71
16,049.00	87.20	179.50	12,437.99	3,639.98	-3,639.45	81.49	3,640.36	178.72	437,296.55	815,269.49
16,138.00	86.20	179.10	12,443.12	3,728.83	-3,728.30	82.58	3,729.21	178.73	437,207.70	815,270.58
16,228.00	85.70	178.80	12,449.47	3,818.60	-3,818.06	84.23	3,818.98	178.74	437,117.94	815,272.23
16,317.00	87.80	177.80	12,454.52	3,907.43	-3,906.87	86.86	3,907.83	178.73	437,029.13	815,274.86
16,406.00	87.00	177.60	12,458.55	3,996.29	-3,995.70	90.43	3,996.73	178.70	436,940.30	815,278.43
16,495.00	86.50	177.20	12,463.60	4,085.08	-4,084.47	94.46	4,085.56	178.68	436,851.53	815,282.46
16,585.00	87.50	178.10	12,468.31	4,174.91	-4,174.27	98.15	4,175.42	178.65	436,761.73	815,286.15
16,674.00	87.10	178.10	12,472.50	4,263.78	-4,263.12	101.09	4,264.32	178.64	436,672.88	815,289.09
16,764.00	87.50	178.10	12,476.74	4,353.65	-4,352.97	104.07	4,354.21	178.63	436,583.03	815,292.07
16,853.00	87.60	177.70	12,480.55	4,442.53	-4,441.83	107.33	4,443.12	178.62	436,494.17	815,295.33
16,942.00	88.10	177.90	12,483.89	4,531.43	-4,530.70	110.75	4,532.05	178.60	436,405.30	815,298.75
17,032.00	87.50	177.80	12,487.34	4,621.32	-4,620.57	114.12	4,621.98	178.59	436,315.43	815,302.12
17,100.00	87.50	177.50	12,490.31	4,689.22	-4,688.45	116.91	4,689.91	178.57	436,247.55	815,304.91

Last Survey: 17100' MD



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Brad Lummis Fed Com
Well: No. 211H
Wellbore: OH
Design: MWD-150'-17100', PTB: 17161'

Local Co-ordinate Reference: Well No. 211H
TVD Reference: Well @ 3521.50usft
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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)
17,161.00	87.50	177.50	12,492.97	4,750.12	-4,749.33	119.56	4,750.84	178.56	436,186.67	815,307.56
PTB: 17161' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
150.00	150.00	-0.62	-0.48	Pro MWD First Survey: 150' MD
17,100.00	12,490.31	-4,688.45	116.91	Last Survey: 17100' MD
17,161.00	12,492.97	-4,749.33	119.56	PTB: 17161' MD