



HOBBS OCD
SEP 06 2019
RECEIVED

Brad Lummis Com No. 212H(OH)

Lea County, NM

30-025-45441

March 28, 2019

Job No. LNM5198319

ORIGINAL

Certified Report



ProDIRECTIONAL

Survey Certification Letter

March 28, 2019



Operator Name: Matador Resources
Well Name: Brad Lummis Com No. 212H(OH)
County/Parish: Lea County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5198319

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	152' MD – 12,368' MD	12,432' MD	02/03/19 – 02/14/19	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



Matador Resources

**Lea County, NM
Brad Lummis Com
No. 212H
OH**

Survey: ProDirectional

Survey Report

28 March, 2019





ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Brad Lummis Com
Well: No. 212H
Wellbore: OH
Design: MWD-152-12368', PTB: 12432'

Local Co-ordinate Reference: Well No. 212H
TVD Reference: Well @ 3505.50usft
MD Reference: Well @ 3505.50usft
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 Brad Lummis 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. 212H

Well Position	+N/-S	0.00 usft	Northing:	441,075.00 usft	Latitude:	32.209451
	+E/-W	0.00 usft	Easting:	816,955.00 usft	Longitude:	-103.442194
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,477.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/6/2019	6.65	59.88	47,930.30

Design MWD-152-12368', PTB: 12432'

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	179.61

Survey Program **Date** 3/28/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
152.00	12,432.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	441,075.00	816,955.00
152.00	0.60	164.60	152.00	0.77	-0.77	0.21	0.80	164.60	441,074.23	816,955.21
Pro MWD First Survey: 152' MD										
243.00	1.00	233.80	242.99	1.69	-1.70	-0.30	1.72	190.13	441,073.30	816,954.70
338.00	0.80	319.70	337.98	1.67	-1.68	-1.40	2.19	219.83	441,073.32	816,953.60
429.00	0.60	326.50	428.97	0.78	-0.80	-2.07	2.22	248.97	441,074.20	816,952.93
522.00	0.30	336.60	521.97	0.15	-0.17	-2.44	2.45	266.06	441,074.83	816,952.56
614.00	0.20	359.00	613.97	-0.23	0.21	-2.54	2.55	274.81	441,075.21	816,952.46
705.00	0.20	128.80	704.97	-0.29	0.27	-2.42	2.43	276.44	441,075.27	816,952.58
796.00	0.50	123.70	795.97	0.03	-0.05	-1.96	1.96	268.63	441,074.95	816,953.04
889.00	0.80	133.30	888.96	0.71	-0.72	-1.15	1.36	238.12	441,074.28	816,953.85
984.00	0.80	124.80	983.95	1.55	-1.55	-0.13	1.56	184.65	441,073.45	816,954.87
1,116.00	0.70	136.40	1,115.94	2.67	-2.66	1.19	2.91	155.97	441,072.34	816,956.19
1,270.00	0.40	103.40	1,269.94	3.48	-3.47	2.36	4.19	145.77	441,071.53	816,957.36
1,366.00	1.50	332.20	1,365.93	2.45	-2.43	2.10	3.21	139.22	441,072.57	816,957.10
1,461.00	2.60	334.70	1,460.86	-0.61	0.62	0.60	0.86	44.14	441,075.62	816,955.60
1,556.00	2.20	338.00	1,555.78	-4.26	4.25	-1.01	4.37	346.69	441,079.25	816,953.99
1,651.00	1.80	335.10	1,650.72	-7.31	7.30	-2.32	7.66	342.38	441,082.30	816,952.68
1,746.00	2.50	337.70	1,745.65	-10.59	10.57	-3.73	11.21	340.55	441,085.57	816,951.27
1,841.00	3.00	342.50	1,840.55	-14.89	14.86	-5.27	15.76	340.48	441,089.86	816,949.73
1,936.00	2.30	343.70	1,935.44	-19.10	19.06	-6.55	20.15	341.04	441,094.06	816,948.45
2,031.00	4.00	352.40	2,030.30	-24.22	24.17	-7.52	25.31	342.71	441,099.17	816,947.48
2,126.00	5.50	355.40	2,124.97	-32.05	31.99	-8.33	33.06	345.41	441,106.99	816,946.67
2,221.00	5.30	356.60	2,219.55	-40.97	40.91	-8.95	41.88	347.66	441,115.91	816,946.05
2,317.00	5.70	12.20	2,315.11	-50.05	50.00	-8.21	50.67	350.68	441,125.00	816,946.79
2,412.00	6.30	20.10	2,409.59	-59.54	59.50	-5.42	59.75	354.80	441,134.50	816,949.58
2,507.00	5.80	20.60	2,504.06	-68.90	68.89	-1.94	68.92	358.39	441,143.89	816,953.06



ProDirectional Survey Report



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Site: Brad Lummis Com
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Wellbore: OH
Design: MWD-152-12368', PTB: 12432'

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MD Reference: Well @ 3505.50usft
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)	
2,602.00	5.30	20.80	2,598.61	-77.48	77.49	1.31	77.50	0.97	441,152.49	816,956.31	
2,697.00	5.00	18.10	2,693.23	-85.49	85.52	4.15	85.63	2.78	441,160.52	816,959.15	
2,792.00	4.40	17.90	2,787.91	-92.88	92.93	6.56	93.16	4.04	441,167.93	816,961.56	
2,887.00	4.10	18.30	2,882.65	-99.56	99.62	8.75	100.00	5.02	441,174.62	816,963.75	
2,983.00	4.00	20.80	2,978.41	-105.93	106.01	11.01	106.58	5.93	441,181.01	816,966.01	
3,078.00	3.60	22.40	3,073.20	-111.77	111.86	13.33	112.65	6.79	441,186.86	816,968.33	
3,173.00	3.00	25.30	3,168.04	-116.76	116.87	15.53	117.89	7.57	441,191.87	816,970.53	
3,268.00	3.90	12.70	3,262.87	-122.15	122.27	17.30	123.48	8.05	441,197.27	816,972.30	
3,363.00	4.80	12.50	3,357.60	-129.17	129.30	18.87	130.67	8.30	441,204.30	816,973.87	
3,458.00	5.00	18.30	3,452.25	-136.96	137.11	21.03	138.71	8.72	441,212.11	816,976.03	
3,554.00	5.00	19.90	3,547.89	-144.85	145.02	23.77	146.95	9.31	441,220.02	816,978.77	
3,649.00	4.50	23.50	3,642.56	-152.14	152.33	26.66	154.64	9.93	441,227.33	816,981.66	
3,744.00	4.00	24.30	3,737.30	-158.56	158.76	29.51	161.48	10.53	441,233.76	816,984.51	
3,840.00	5.20	16.10	3,832.99	-165.77	166.00	32.10	169.07	10.94	441,241.00	816,987.10	
3,935.00	6.10	15.90	3,927.52	-174.75	174.99	34.67	178.39	11.21	441,249.99	816,989.67	
4,031.00	5.40	17.90	4,023.04	-183.93	184.19	37.46	187.96	11.50	441,259.19	816,992.46	
4,126.00	5.00	17.90	4,117.65	-192.11	192.38	40.10	196.52	11.78	441,267.38	816,995.10	
4,221.00	4.60	20.80	4,212.32	-199.59	199.89	42.73	204.40	12.07	441,274.89	816,997.73	
4,316.00	4.40	23.20	4,307.02	-206.48	206.80	45.52	211.75	12.41	441,281.80	817,000.52	
4,411.00	4.10	24.00	4,401.76	-212.91	213.25	48.33	218.66	12.77	441,288.25	817,003.33	
4,507.00	3.90	31.80	4,497.53	-218.80	219.16	51.45	225.12	13.21	441,294.16	817,006.45	
4,601.00	3.90	47.90	4,591.31	-223.63	224.02	55.51	230.79	13.92	441,299.02	817,010.51	
4,695.00	4.00	60.70	4,685.09	-227.35	227.77	60.74	235.73	14.93	441,302.77	817,015.74	
4,791.00	3.80	69.60	4,780.87	-230.05	230.51	66.64	239.95	16.12	441,305.51	817,021.64	
4,885.00	3.30	66.70	4,874.69	-232.17	232.67	72.04	243.57	17.20	441,307.67	817,027.04	
4,980.00	3.30	73.60	4,969.53	-233.99	234.52	77.18	246.90	18.22	441,309.52	817,032.18	
5,075.00	4.10	83.50	5,064.34	-235.11	235.68	83.18	249.93	19.44	441,310.68	817,038.18	



ProDirectional Survey Report



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
5,170.00	2.70	99.30	5,159.17	-235.09	235.70	88.76	251.86	20.64	441,310.70	817,043.76
5,265.00	2.10	130.30	5,254.09	-233.58	234.21	92.30	251.74	21.51	441,309.21	817,047.30
5,356.00	1.90	138.10	5,345.03	-231.36	232.01	94.57	250.55	22.18	441,307.01	817,049.57
5,445.00	1.40	118.00	5,434.00	-229.74	230.40	96.52	249.80	22.73	441,305.40	817,051.52
5,540.00	1.50	272.10	5,528.99	-229.24	229.91	96.30	249.26	22.73	441,304.91	817,051.30
5,635.00	2.00	279.80	5,623.94	-229.59	230.23	93.43	248.47	22.09	441,305.23	817,048.43
5,731.00	2.20	281.50	5,719.88	-230.27	230.89	89.97	247.80	21.29	441,305.89	817,044.97
5,825.00	2.10	277.20	5,813.81	-230.87	231.46	86.49	247.09	20.49	441,306.46	817,041.49
5,920.00	2.20	273.00	5,908.74	-231.20	231.77	82.94	246.17	19.69	441,306.77	817,037.94
6,015.00	2.10	273.40	6,003.68	-231.43	231.97	79.39	245.18	18.89	441,306.97	817,034.39
6,110.00	2.10	280.80	6,098.61	-231.88	232.40	75.94	244.49	18.10	441,307.40	817,030.94
6,206.00	2.20	273.40	6,194.55	-232.34	232.84	72.37	243.83	17.27	441,307.84	817,027.37
6,301.00	2.20	275.70	6,289.48	-232.66	233.13	68.74	243.05	16.43	441,308.13	817,023.74
6,395.00	1.30	285.80	6,383.43	-233.15	233.60	65.92	242.72	15.76	441,308.60	817,020.92
6,490.00	1.50	295.60	6,478.40	-233.99	234.43	63.76	242.95	15.21	441,309.43	817,018.76
6,586.00	1.60	305.50	6,574.37	-235.33	235.75	61.53	243.65	14.63	441,310.75	817,016.53
6,681.00	1.90	312.60	6,669.32	-237.18	237.59	59.29	244.88	14.01	441,312.59	817,014.29
6,776.00	1.90	309.80	6,764.27	-239.27	239.66	56.93	246.33	13.36	441,314.66	817,011.93
6,871.00	1.90	308.30	6,859.22	-241.27	241.65	54.48	247.71	12.70	441,316.65	817,009.48
6,966.00	2.30	304.20	6,954.16	-243.34	243.69	51.67	249.11	11.97	441,318.69	817,006.67
7,061.00	2.10	11.80	7,049.10	-246.12	246.47	50.45	251.58	11.57	441,321.47	817,005.45
7,156.00	2.20	13.60	7,144.03	-249.59	249.95	51.23	255.14	11.58	441,324.95	817,006.23
7,251.00	2.00	1.20	7,238.97	-253.02	253.38	51.69	258.60	11.53	441,328.38	817,006.69
7,346.00	2.00	354.40	7,333.91	-256.33	256.68	51.57	261.81	11.36	441,331.68	817,006.57
7,441.00	2.00	344.60	7,428.85	-259.58	259.93	50.97	264.88	11.09	441,334.93	817,005.97
7,536.00	2.20	335.10	7,523.79	-262.84	263.18	49.76	267.85	10.71	441,338.18	817,004.76
7,631.00	0.70	26.30	7,618.76	-265.02	265.36	49.25	269.89	10.51	441,340.36	817,004.25



ProDirectional Survey Report



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Wellbore: OH
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Survey

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7,726.00	0.50	64.90	7,713.76	-265.71	266.05	49.88	270.69	10.62	441,341.05	817,004.88
7,821.00	0.60	48.10	7,808.75	-266.21	266.56	50.62	271.33	10.75	441,341.56	817,005.62
7,916.00	0.70	48.30	7,903.75	-266.92	267.28	51.43	272.18	10.89	441,342.28	817,006.43
8,012.00	0.60	8.90	7,999.74	-267.81	268.17	51.94	273.15	10.96	441,343.17	817,006.94
8,106.00	0.40	354.00	8,093.74	-268.62	268.98	51.99	273.96	10.94	441,343.98	817,006.99
8,202.00	0.60	10.00	8,189.73	-269.45	269.81	52.04	274.78	10.92	441,344.81	817,007.04
8,297.00	0.50	358.20	8,284.73	-270.35	270.71	52.11	275.68	10.90	441,345.71	817,007.11
8,392.00	0.30	351.10	8,379.73	-271.01	271.37	52.06	276.32	10.86	441,346.37	817,007.06
8,488.00	0.20	268.50	8,475.72	-271.26	271.62	51.85	276.52	10.81	441,346.62	817,006.85
8,583.00	0.10	27.20	8,570.72	-271.33	271.68	51.73	276.56	10.78	441,346.68	817,006.73
8,678.00	0.10	235.60	8,665.72	-271.35	271.71	51.69	276.59	10.77	441,346.71	817,006.69
8,773.00	0.20	289.70	8,760.72	-271.36	271.72	51.47	276.55	10.73	441,346.72	817,006.47
8,868.00	0.20	213.30	8,855.72	-271.28	271.64	51.22	276.43	10.68	441,346.64	817,006.22
8,964.00	0.20	264.40	8,951.72	-271.13	271.48	50.96	276.22	10.63	441,346.48	817,005.96
9,059.00	0.40	237.00	9,046.72	-270.93	271.28	50.52	275.95	10.55	441,346.28	817,005.52
9,154.00	0.80	250.00	9,141.72	-270.53	270.88	49.62	275.38	10.38	441,345.88	817,004.62
9,250.00	1.00	260.90	9,237.70	-270.18	270.52	48.16	274.77	10.10	441,345.52	817,003.16
9,345.00	1.10	257.50	9,332.69	-269.86	270.19	46.45	274.15	9.76	441,345.19	817,001.45
9,440.00	1.50	245.80	9,427.66	-269.17	269.48	44.43	273.12	9.36	441,344.48	816,999.43
9,535.00	2.00	247.60	9,522.62	-268.05	268.34	41.76	271.57	8.85	441,343.34	816,996.76
9,630.00	2.30	199.40	9,617.56	-265.63	265.91	39.60	268.84	8.47	441,340.91	816,994.60
9,726.00	2.40	204.00	9,713.48	-261.99	262.26	38.14	265.01	8.27	441,337.26	816,993.14
9,821.00	3.60	241.40	9,808.36	-258.77	259.01	34.71	261.33	7.63	441,334.01	816,989.71
9,916.00	5.00	265.10	9,903.09	-257.03	257.23	27.97	258.74	6.21	441,332.23	816,982.97
10,011.00	8.70	277.10	9,997.40	-257.64	257.76	16.71	258.30	3.71	441,332.76	816,971.71
10,106.00	11.40	274.50	10,090.94	-259.38	259.39	0.22	259.39	0.05	441,334.39	816,955.22
10,202.00	8.70	278.40	10,185.46	-261.30	261.19	-16.43	261.71	356.40	441,336.19	816,938.57



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Wellbore: OH
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10,297.00	2.20	297.60	10,279.98	-263.26	263.09	-25.16	264.29	354.54	441,338.09	816,929.84
10,393.00	1.40	115.30	10,375.96	-263.61	263.44	-25.74	264.70	354.42	441,338.44	816,929.26
10,487.00	3.10	136.60	10,469.89	-261.26	261.11	-22.95	262.11	354.98	441,336.11	816,932.05
10,583.00	4.40	105.30	10,565.69	-258.36	258.25	-17.61	258.85	356.10	441,333.25	816,937.39
10,678.00	3.90	109.30	10,660.44	-256.29	256.22	-11.05	256.46	357.53	441,331.22	816,943.95
10,773.00	2.50	114.80	10,755.29	-254.32	254.28	-6.12	254.35	358.62	441,329.28	816,948.88
10,868.00	4.50	96.40	10,850.11	-252.99	253.00	-0.53	253.00	359.88	441,328.00	816,954.47
10,963.00	3.90	90.30	10,944.86	-252.51	252.56	6.40	252.64	1.45	441,327.56	816,961.40
11,058.00	3.00	85.30	11,039.68	-252.66	252.75	12.11	253.04	2.74	441,327.75	816,967.11
11,153.00	3.80	64.70	11,134.52	-254.17	254.30	17.43	254.90	3.92	441,329.30	816,972.43
11,249.00	6.20	64.20	11,230.15	-257.74	257.92	24.98	259.12	5.53	441,332.92	816,979.98
11,343.00	5.80	67.70	11,323.63	-261.69	261.93	33.94	264.12	7.38	441,336.93	816,988.94
11,439.00	4.20	40.30	11,419.28	-266.17	266.45	40.70	269.54	8.69	441,341.45	816,995.70
11,534.00	3.60	78.50	11,514.07	-269.38	269.70	45.88	273.57	9.65	441,344.70	817,000.88
11,629.00	2.60	80.20	11,608.93	-270.31	270.66	50.92	275.41	10.66	441,345.66	817,005.92
11,724.00	1.30	89.90	11,703.88	-270.65	271.03	54.13	276.38	11.29	441,346.03	817,009.13
11,820.00	1.40	117.40	11,799.85	-270.10	270.49	56.26	276.28	11.75	441,345.49	817,011.26
11,852.00	5.70	162.20	11,831.79	-268.40	268.80	57.09	274.79	11.99	441,343.80	817,012.09
11,916.00	14.10	159.50	11,894.78	-258.03	258.45	60.80	265.50	13.24	441,333.45	817,015.80
11,947.00	17.20	162.30	11,924.62	-250.11	250.54	63.51	258.47	14.22	441,325.54	817,018.51
11,979.00	20.60	167.90	11,954.90	-240.07	240.53	66.13	249.45	15.37	441,315.53	817,021.13
12,011.00	24.60	170.50	11,984.43	-227.98	228.45	68.41	238.47	16.67	441,303.45	817,023.41
12,106.00	31.80	168.50	12,068.10	-183.83	184.36	76.68	199.67	22.58	441,259.36	817,031.68
12,201.00	38.40	166.70	12,145.79	-130.45	131.06	88.47	158.12	34.02	441,206.06	817,043.47
12,296.00	44.30	171.10	12,217.09	-68.82	69.50	100.40	122.11	55.31	441,144.50	817,055.40
12,328.00	47.30	174.10	12,239.40	-46.05	46.76	103.34	113.43	65.65	441,121.76	817,058.34



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Brad Lummis Com
Well: No. 212H
Wellbore: OH
Design: MWD-152-12368', PTB: 12432'

Local Co-ordinate Reference: Well No. 212H
TVD Reference: Well @ 3505.50usft
MD Reference: Well @ 3505.50usft
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)
12,368.00	51.60	174.20	12,265.39	-15.81	16.53	106.44	107.71	81.17	441,091.53	817,061.44
Last Survey: 12368' MD										
12,432.00	51.60	174.20	12,305.15	34.13	-33.37	111.51	116.39	106.66	441,041.63	817,066.51
PTB: 12432' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
152.00	152.00	-0.77	0.21	Pro MWD First Survey: 152' MD
12,368.00	12,265.39	16.53	106.44	Last Survey: 12368' MD
12,432.00	12,305.15	-33.37	111.51	PTB: 12432' MD



PRODIRECTIONAL



Brad Lummis Com No. 212H(ST01)

Lea County, NM

March 28, 2019

Job No. LNM5198319

ORIGINAL

Certified Report



Survey Certification Letter

March 28, 2019



Operator Name: Matador Resources
Well Name: Brad Lummis Com No. 212H(ST01)
County/Parish: Lea County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5198319

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:

Surveyor	Surveyed Depths	Projection to Bit	Dates Performed	Type of Survey
ProDirectional	11,825' MD – 17,255' MD	17,316' MD	02/23/19 – 03/03/19	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
Brad Lummis Com
No. 212H
ST01**

Survey: ProDirectional

Survey Report

28 March, 2019





ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Brad Lummis Com
Well: No. 212H
Wellbore: ST01
Design: MWD-11825'-17255', PTB: 17316'

Local Co-ordinate Reference: Well No. 212H
TVD Reference: Well @ 3505.50usft
MD Reference: Well @ 3505.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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 Com		
Site Position:		Northing:	441,075.00 usft
From:	Map	Easting:	816,955.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.209451
		Longitude:	-103.442194
		Grid Convergence:	0.48 °

Well	No. 212H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.209451
		Longitude:	-103.442194
		Ground Level:	3,477.00 usft

Wellbore	ST01					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	HDGM	2/6/2019	6.65	59.88	47,930.30	

Design	MWD-11825'-17255', PTB: 17316'				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	11,820.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.61	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Brad Lummis Com
Well: No. 212H
Wellbore: ST01
Design: MWD-11825'-17255', PTB: 17316'

Local Co-ordinate Reference: Well No. 212H
TVD Reference: Well @ 3505.50usft
MD Reference: Well @ 3505.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey Program Date 3/28/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
152.00	11,820.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM
11,825.00	17,316.00	Survey #1 (ST01)	MWD+HDGM	OWSG MWD + HRGM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	441,075.00	816,955.00
152.00	0.60	164.60	152.00	0.77	-0.77	0.21	0.80	164.60	441,074.23	816,955.21
243.00	1.00	233.80	242.99	1.69	-1.70	-0.30	1.72	190.13	441,073.30	816,954.70
338.00	0.80	319.70	337.98	1.67	-1.68	-1.40	2.19	219.83	441,073.32	816,953.60
429.00	0.60	326.50	428.97	0.78	-0.80	-2.07	2.22	248.97	441,074.20	816,952.93
522.00	0.30	336.60	521.97	0.15	-0.17	-2.44	2.45	266.06	441,074.83	816,952.56
614.00	0.20	359.00	613.97	-0.23	0.21	-2.54	2.55	274.81	441,075.21	816,952.46
705.00	0.20	128.80	704.97	-0.29	0.27	-2.42	2.43	276.44	441,075.27	816,952.58
796.00	0.50	123.70	795.97	0.03	-0.05	-1.96	1.96	268.63	441,074.95	816,953.04
889.00	0.80	133.30	888.96	0.71	-0.72	-1.15	1.36	238.12	441,074.28	816,953.85
984.00	0.80	124.80	983.95	1.55	-1.55	-0.13	1.56	184.65	441,073.45	816,954.87
1,116.00	0.70	136.40	1,115.94	2.67	-2.66	1.19	2.91	155.97	441,072.34	816,956.19
1,270.00	0.40	103.40	1,269.94	3.48	-3.47	2.36	4.19	145.77	441,071.53	816,957.36
1,366.00	1.50	332.20	1,365.93	2.45	-2.43	2.10	3.21	139.22	441,072.57	816,957.10
1,461.00	2.60	334.70	1,460.86	-0.61	0.62	0.60	0.86	44.14	441,075.62	816,955.60
1,556.00	2.20	338.00	1,555.78	-4.26	4.25	-1.01	4.37	346.69	441,079.25	816,953.99
1,651.00	1.80	335.10	1,650.72	-7.31	7.30	-2.32	7.66	342.38	441,082.30	816,952.68
1,746.00	2.50	337.70	1,745.65	-10.59	10.57	-3.73	11.21	340.55	441,085.57	816,951.27
1,841.00	3.00	342.50	1,840.55	-14.89	14.86	-5.27	15.76	340.48	441,089.86	816,949.73
1,936.00	2.30	343.70	1,935.44	-19.10	19.06	-6.55	20.15	341.04	441,094.06	816,948.45
2,031.00	4.00	352.40	2,030.30	-24.22	24.17	-7.52	25.31	342.71	441,099.17	816,947.48



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Brad Lummis Com
Well: No. 212H
Wellbore: ST01
Design: MWD-11825'-17255', PTB: 17316'

Local Co-ordinate Reference: Well No. 212H
TVD Reference: Well @ 3505.50usft
MD Reference: Well @ 3505.50usft
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)
2,126.00	5.50	355.40	2,124.97	-32.05	31.99	-8.33	33.06	345.41	441,106.99	816,946.67
2,221.00	5.30	356.60	2,219.55	-40.97	40.91	-8.95	41.88	347.66	441,115.91	816,946.05
2,317.00	5.70	12.20	2,315.11	-50.05	50.00	-8.21	50.67	350.68	441,125.00	816,946.79
2,412.00	6.30	20.10	2,409.59	-59.54	59.50	-5.42	59.75	354.80	441,134.50	816,949.58
2,507.00	5.80	20.60	2,504.06	-68.90	68.89	-1.94	68.92	358.39	441,143.89	816,953.06
2,602.00	5.30	20.80	2,598.61	-77.48	77.49	1.31	77.50	0.97	441,152.49	816,956.31
2,697.00	5.00	18.10	2,693.23	-85.49	85.52	4.15	85.63	2.78	441,160.52	816,959.15
2,792.00	4.40	17.90	2,787.91	-92.88	92.93	6.56	93.16	4.04	441,167.93	816,961.56
2,887.00	4.10	18.30	2,882.65	-99.56	99.62	8.75	100.00	5.02	441,174.62	816,963.75
2,983.00	4.00	20.80	2,978.41	-105.93	106.01	11.01	106.58	5.93	441,181.01	816,966.01
3,078.00	3.60	22.40	3,073.20	-111.77	111.86	13.33	112.65	6.79	441,186.86	816,968.33
3,173.00	3.00	25.30	3,168.04	-116.76	116.87	15.53	117.89	7.57	441,191.87	816,970.53
3,268.00	3.90	12.70	3,262.87	-122.15	122.27	17.30	123.48	8.05	441,197.27	816,972.30
3,363.00	4.80	12.50	3,357.60	-129.17	129.30	18.87	130.67	8.30	441,204.30	816,973.87
3,458.00	5.00	18.30	3,452.25	-136.96	137.11	21.03	138.71	8.72	441,212.11	816,976.03
3,554.00	5.00	19.90	3,547.89	-144.85	145.02	23.77	146.95	9.31	441,220.02	816,978.77
3,649.00	4.50	23.50	3,642.56	-152.14	152.33	26.66	154.64	9.93	441,227.33	816,981.66
3,744.00	4.00	24.30	3,737.30	-158.56	158.76	29.51	161.48	10.53	441,233.76	816,984.51
3,840.00	5.20	16.10	3,832.99	-165.77	166.00	32.10	169.07	10.94	441,241.00	816,987.10
3,935.00	6.10	15.90	3,927.52	-174.75	174.99	34.67	178.39	11.21	441,249.99	816,989.67
4,031.00	5.40	17.90	4,023.04	-183.93	184.19	37.46	187.96	11.50	441,259.19	816,992.46
4,126.00	5.00	17.90	4,117.65	-192.11	192.38	40.10	196.52	11.78	441,267.38	816,995.10
4,221.00	4.60	20.80	4,212.32	-199.59	199.89	42.73	204.40	12.07	441,274.89	816,997.73
4,316.00	4.40	23.20	4,307.02	-206.48	206.80	45.52	211.75	12.41	441,281.80	817,000.52
4,411.00	4.10	24.00	4,401.76	-212.91	213.25	48.33	218.66	12.77	441,288.25	817,003.33
4,507.00	3.90	31.80	4,497.53	-218.80	219.16	51.45	225.12	13.21	441,294.16	817,006.45
4,601.00	3.90	47.90	4,591.31	-223.63	224.02	55.51	230.79	13.92	441,299.02	817,010.51



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Brad Lummis Com
Well: No. 212H
Wellbore: ST01
Design: MWD-11825'-17255', PTB: 17316'

Local Co-ordinate Reference: Well No. 212H
TVD Reference: Well @ 3505.50usft
MD Reference: Well @ 3505.50usft
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)	
4,695.00	4.00	60.70	4,685.09	-227.35	227.77	60.74	235.73	14.93	441,302.77	817,015.74	
4,791.00	3.80	69.60	4,780.87	-230.05	230.51	66.64	239.95	16.12	441,305.51	817,021.64	
4,885.00	3.30	66.70	4,874.69	-232.17	232.67	72.04	243.57	17.20	441,307.67	817,027.04	
4,980.00	3.30	73.60	4,969.53	-233.99	234.52	77.18	246.90	18.22	441,309.52	817,032.18	
5,075.00	4.10	83.50	5,064.34	-235.11	235.68	83.18	249.93	19.44	441,310.68	817,038.18	
5,170.00	2.70	99.30	5,159.17	-235.09	235.70	88.76	251.86	20.64	441,310.70	817,043.76	
5,265.00	2.10	130.30	5,254.09	-233.58	234.21	92.30	251.74	21.51	441,309.21	817,047.30	
5,356.00	1.90	138.10	5,345.03	-231.36	232.01	94.57	250.55	22.18	441,307.01	817,049.57	
5,445.00	1.40	118.00	5,434.00	-229.74	230.40	96.52	249.80	22.73	441,305.40	817,051.52	
5,540.00	1.50	272.10	5,528.99	-229.24	229.91	96.30	249.26	22.73	441,304.91	817,051.30	
5,635.00	2.00	279.80	5,623.94	-229.59	230.23	93.43	248.47	22.09	441,305.23	817,048.43	
5,731.00	2.20	281.50	5,719.88	-230.27	230.89	89.97	247.80	21.29	441,305.89	817,044.97	
5,825.00	2.10	277.20	5,813.81	-230.87	231.46	86.49	247.09	20.49	441,306.46	817,041.49	
5,920.00	2.20	273.00	5,908.74	-231.20	231.77	82.94	246.17	19.69	441,306.77	817,037.94	
6,015.00	2.10	273.40	6,003.68	-231.43	231.97	79.39	245.18	18.89	441,306.97	817,034.39	
6,110.00	2.10	280.80	6,098.61	-231.88	232.40	75.94	244.49	18.10	441,307.40	817,030.94	
6,206.00	2.20	273.40	6,194.55	-232.34	232.84	72.37	243.83	17.27	441,307.84	817,027.37	
6,301.00	2.20	275.70	6,289.48	-232.66	233.13	68.74	243.05	16.43	441,308.13	817,023.74	
6,395.00	1.30	285.80	6,383.43	-233.15	233.60	65.92	242.72	15.76	441,308.60	817,020.92	
6,490.00	1.50	295.60	6,478.40	-233.99	234.43	63.76	242.95	15.21	441,309.43	817,018.76	
6,586.00	1.60	305.50	6,574.37	-235.33	235.75	61.53	243.65	14.63	441,310.75	817,016.53	
6,681.00	1.90	312.60	6,669.32	-237.18	237.59	59.29	244.88	14.01	441,312.59	817,014.29	
6,776.00	1.90	309.80	6,764.27	-239.27	239.66	56.93	246.33	13.36	441,314.66	817,011.93	
6,871.00	1.90	308.30	6,859.22	-241.27	241.65	54.48	247.71	12.70	441,316.65	817,009.48	
6,966.00	2.30	304.20	6,954.16	-243.34	243.69	51.67	249.11	11.97	441,318.69	817,006.67	
7,061.00	2.10	11.80	7,049.10	-246.12	246.47	50.45	251.58	11.57	441,321.47	817,005.45	
7,156.00	2.20	13.60	7,144.03	-249.59	249.95	51.23	255.14	11.58	441,324.95	817,006.23	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Brad Lummis Com
Well: No. 212H
Wellbore: ST01
Design: MWD-11825'-17255', PTB: 17316'

Local Co-ordinate Reference: Well No. 212H
TVD Reference: Well @ 3505.50usft
MD Reference: Well @ 3505.50usft
North Reference: Grid
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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
7,251.00	2.00	1.20	7,238.97	-253.02	253.38	51.69	258.60	11.53	441,328.38	817,006.69
7,346.00	2.00	354.40	7,333.91	-256.33	256.68	51.57	261.81	11.36	441,331.68	817,006.57
7,441.00	2.00	344.60	7,428.85	-259.58	259.93	50.97	264.88	11.09	441,334.93	817,005.97
7,536.00	2.20	335.10	7,523.79	-262.84	263.18	49.76	267.85	10.71	441,338.18	817,004.76
7,631.00	0.70	26.30	7,618.76	-265.02	265.36	49.25	269.89	10.51	441,340.36	817,004.25
7,726.00	0.50	64.90	7,713.76	-265.71	266.05	49.88	270.69	10.62	441,341.05	817,004.88
7,821.00	0.60	48.10	7,808.75	-266.21	266.56	50.62	271.33	10.75	441,341.56	817,005.62
7,916.00	0.70	48.30	7,903.75	-266.92	267.28	51.43	272.18	10.89	441,342.28	817,006.43
8,012.00	0.60	8.90	7,999.74	-267.81	268.17	51.94	273.15	10.96	441,343.17	817,006.94
8,106.00	0.40	354.00	8,093.74	-268.62	268.98	51.99	273.96	10.94	441,343.98	817,006.99
8,202.00	0.60	10.00	8,189.73	-269.45	269.81	52.04	274.78	10.92	441,344.81	817,007.04
8,297.00	0.50	358.20	8,284.73	-270.35	270.71	52.11	275.68	10.90	441,345.71	817,007.11
8,392.00	0.30	351.10	8,379.73	-271.01	271.37	52.06	276.32	10.86	441,346.37	817,007.06
8,488.00	0.20	268.50	8,475.72	-271.26	271.62	51.85	276.52	10.81	441,346.62	817,006.85
8,583.00	0.10	27.20	8,570.72	-271.33	271.68	51.73	276.56	10.78	441,346.68	817,006.73
8,678.00	0.10	235.60	8,665.72	-271.35	271.71	51.69	276.59	10.77	441,346.71	817,006.69
8,773.00	0.20	289.70	8,760.72	-271.36	271.72	51.47	276.55	10.73	441,346.72	817,006.47
8,868.00	0.20	213.30	8,855.72	-271.28	271.64	51.22	276.43	10.68	441,346.64	817,006.22
8,964.00	0.20	264.40	8,951.72	-271.13	271.48	50.96	276.22	10.63	441,346.48	817,005.96
9,059.00	0.40	237.00	9,046.72	-270.93	271.28	50.52	275.95	10.55	441,346.28	817,005.52
9,154.00	0.80	250.00	9,141.72	-270.53	270.88	49.62	275.38	10.38	441,345.88	817,004.62
9,250.00	1.00	260.90	9,237.70	-270.18	270.52	48.16	274.77	10.10	441,345.52	817,003.16
9,345.00	1.10	257.50	9,332.69	-269.86	270.19	46.45	274.15	9.76	441,345.19	817,001.45
9,440.00	1.50	245.80	9,427.66	-269.17	269.48	44.43	273.12	9.36	441,344.48	816,999.43
9,535.00	2.00	247.60	9,522.62	-268.05	268.34	41.76	271.57	8.85	441,343.34	816,996.76
9,630.00	2.30	199.40	9,617.56	-265.63	265.91	39.60	268.84	8.47	441,340.91	816,994.60
9,726.00	2.40	204.00	9,713.48	-261.99	262.26	38.14	265.01	8.27	441,337.26	816,993.14



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Brad Lummis Com
Well: No. 212H
Wellbore: ST01
Design: MWD-11825'-17255', PTB: 17316'

Local Co-ordinate Reference: Well No. 212H
TVD Reference: Well @ 3505.50usft
MD Reference: Well @ 3505.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
9,821.00	3.60	241.40	9,808.36	-258.77	259.01	34.71	261.33	7.63	441,334.01	816,989.71
9,916.00	5.00	265.10	9,903.09	-257.03	257.23	27.97	258.74	6.21	441,332.23	816,982.97
10,011.00	8.70	277.10	9,997.40	-257.64	257.76	16.71	258.30	3.71	441,332.76	816,971.71
10,106.00	11.40	274.50	10,090.94	-259.38	259.39	0.22	259.39	0.05	441,334.39	816,955.22
10,202.00	8.70	278.40	10,185.46	-261.30	261.19	-16.43	261.71	356.40	441,336.19	816,938.57
10,297.00	2.20	297.60	10,279.98	-263.26	263.09	-25.16	264.29	354.54	441,338.09	816,929.84
10,393.00	1.40	115.30	10,375.96	-263.61	263.44	-25.74	264.70	354.42	441,338.44	816,929.26
10,487.00	3.10	136.60	10,469.89	-261.26	261.11	-22.95	262.11	354.98	441,336.11	816,932.05
10,583.00	4.40	105.30	10,565.69	-258.36	258.25	-17.61	258.85	356.10	441,333.25	816,937.39
10,678.00	3.90	109.30	10,660.44	-256.29	256.22	-11.05	256.46	357.53	441,331.22	816,943.95
10,773.00	2.50	114.80	10,755.29	-254.32	254.28	-6.12	254.35	358.62	441,329.28	816,948.88
10,868.00	4.50	96.40	10,850.11	-252.99	253.00	-0.53	253.00	359.88	441,328.00	816,954.47
10,963.00	3.90	90.30	10,944.86	-252.51	252.56	6.40	252.64	1.45	441,327.56	816,961.40
11,058.00	3.00	85.30	11,039.68	-252.66	252.75	12.11	253.04	2.74	441,327.75	816,967.11
11,153.00	3.80	64.70	11,134.52	-254.17	254.30	17.43	254.90	3.92	441,329.30	816,972.43
11,249.00	6.20	64.20	11,230.15	-257.74	257.92	24.98	259.12	5.53	441,332.92	816,979.98
11,343.00	5.80	67.70	11,323.63	-261.69	261.93	33.94	264.12	7.38	441,336.93	816,988.94
11,439.00	4.20	40.30	11,419.28	-266.17	266.45	40.70	269.54	8.69	441,341.45	816,995.70
11,534.00	3.60	78.50	11,514.07	-269.38	269.70	45.88	273.57	9.65	441,344.70	817,000.88
11,629.00	2.60	80.20	11,608.93	-270.31	270.66	50.92	275.41	10.66	441,345.66	817,005.92
11,724.00	1.30	89.90	11,703.88	-270.65	271.03	54.13	276.38	11.29	441,346.03	817,009.13
11,820.00	1.40	117.40	11,799.85	-270.10	270.49	56.26	276.28	11.75	441,345.49	817,011.26
11,825.00	2.00	112.60	11,804.85	-270.04	270.43	56.39	276.25	11.78	441,345.43	817,011.39
Pro MWD First Survey: 11825' MD										
11,835.00	2.40	112.80	11,814.84	-269.89	270.28	56.74	276.17	11.86	441,345.28	817,011.74
11,845.00	3.20	106.90	11,824.83	-269.72	270.12	57.20	276.11	11.96	441,345.12	817,012.20
11,857.00	4.90	96.20	11,836.80	-269.56	269.97	58.03	276.13	12.13	441,344.97	817,013.03



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Brad Lummis Com
Well: No. 212H
Wellbore: ST01
Design: MWD-11825'-17255', PTB: 17316'

Local Co-ordinate Reference: Well No. 212H
TVD Reference: Well @ 3505.50usft
MD Reference: Well @ 3505.50usft
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)
11,877.00	7.30	94.50	11,856.68	-269.36	269.77	60.15	276.40	12.57	441,344.77	817,015.15
11,902.00	10.20	106.10	11,881.39	-268.59	269.04	63.86	276.51	13.35	441,344.04	817,018.86
11,947.00	12.70	125.60	11,925.51	-264.55	265.05	71.72	274.58	15.14	441,340.05	817,026.72
11,992.00	17.10	143.40	11,969.01	-256.30	256.85	79.69	268.93	17.24	441,331.85	817,034.69
12,037.00	22.20	149.60	12,011.38	-243.59	244.20	87.94	259.55	19.81	441,319.20	817,042.94
12,081.00	27.40	159.60	12,051.32	-226.86	227.52	95.69	246.82	22.81	441,302.52	817,050.69
12,126.00	32.40	167.60	12,090.34	-205.32	206.02	101.89	229.84	26.32	441,281.02	817,056.89
12,171.00	36.90	180.10	12,127.39	-179.97	180.69	104.46	208.71	30.03	441,255.69	817,059.46
12,215.00	40.30	190.50	12,161.81	-152.75	153.45	101.84	184.17	33.57	441,228.45	817,056.84
12,260.00	45.80	191.70	12,194.69	-122.66	123.32	95.91	156.23	37.87	441,198.32	817,050.91
12,305.00	49.90	189.80	12,224.88	-89.94	90.55	89.71	127.47	44.73	441,165.55	817,044.71
12,354.00	55.30	187.70	12,254.63	-51.52	52.09	83.82	98.69	58.14	441,127.09	817,038.82
12,389.00	59.00	187.10	12,273.61	-22.39	22.94	80.03	83.26	74.01	441,097.94	817,035.03
12,479.00	66.60	185.00	12,314.73	57.09	-56.60	71.65	91.32	128.31	441,018.40	817,026.65
12,569.00	72.30	183.20	12,346.31	141.07	-140.63	65.66	155.20	154.97	440,934.37	817,020.66
12,658.00	72.30	182.50	12,373.37	225.72	-225.31	61.44	233.53	164.75	440,849.69	817,016.44
12,747.00	77.90	182.50	12,396.24	311.58	-311.20	57.69	316.50	169.50	440,763.80	817,012.69
12,836.00	89.50	178.80	12,406.00	399.87	-399.49	56.72	403.50	171.92	440,675.51	817,011.72
12,926.00	92.50	177.20	12,404.42	489.80	-489.41	59.86	493.05	173.03	440,585.59	817,014.86
13,015.00	91.90	177.50	12,401.01	578.67	-578.25	63.97	581.77	173.69	440,496.75	817,018.97
13,104.00	90.80	179.50	12,398.91	667.62	-667.18	66.30	670.47	174.32	440,407.82	817,021.30
13,194.00	88.50	180.00	12,399.46	757.61	-757.18	66.69	760.11	174.97	440,317.82	817,021.69
13,283.00	88.30	180.60	12,401.95	846.57	-846.14	66.23	848.73	175.52	440,228.86	817,021.23
13,373.00	87.30	180.40	12,405.40	936.49	-936.07	65.44	938.35	176.00	440,138.93	817,020.44
13,462.00	86.80	180.50	12,409.98	1,025.36	-1,024.95	64.75	1,026.99	176.39	440,050.05	817,019.75
13,551.00	87.80	180.20	12,414.17	1,114.26	-1,113.85	64.20	1,115.69	176.70	439,961.15	817,019.20
13,641.00	88.50	179.80	12,417.08	1,204.21	-1,203.80	64.20	1,205.51	176.95	439,871.20	817,019.20



ProDirectional Survey Report



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Wellbore: ST01
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Local Co-ordinate Reference: Well No. 212H
TVD Reference: Well @ 3505.50usft
MD Reference: Well @ 3505.50usft
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)
13,731.00	89.10	179.60	12,418.96	1,294.19	-1,293.78	64.67	1,295.39	177.14	439,781.22	817,019.67
13,821.00	90.10	179.00	12,419.59	1,384.18	-1,383.77	65.77	1,385.33	177.28	439,691.23	817,020.77
13,909.00	89.70	179.50	12,419.75	1,472.18	-1,471.76	66.92	1,473.28	177.40	439,603.24	817,021.92
13,999.00	88.70	179.90	12,421.00	1,562.17	-1,561.75	67.40	1,563.20	177.53	439,513.25	817,022.40
14,088.00	88.50	179.20	12,423.18	1,651.14	-1,650.72	68.09	1,652.12	177.64	439,424.28	817,023.09
14,177.00	88.10	178.30	12,425.82	1,740.09	-1,739.66	70.04	1,741.06	177.69	439,335.34	817,025.04
14,266.00	88.30	178.00	12,428.61	1,829.02	-1,828.56	72.91	1,830.02	177.72	439,246.44	817,027.91
14,356.00	89.00	177.80	12,430.73	1,918.95	-1,918.48	76.20	1,919.99	177.73	439,156.52	817,031.20
14,445.00	89.10	177.70	12,432.21	2,007.89	-2,007.40	79.70	2,008.98	177.73	439,067.60	817,034.70
14,534.00	88.00	180.50	12,434.46	2,096.85	-2,096.35	81.10	2,097.92	177.78	438,978.65	817,036.10
14,624.00	87.80	181.00	12,437.76	2,186.77	-2,186.28	79.92	2,187.74	177.91	438,888.72	817,034.92
14,713.00	87.60	181.40	12,441.33	2,275.67	-2,275.19	78.06	2,276.53	178.04	438,799.81	817,033.06
14,802.00	88.20	180.90	12,444.59	2,364.57	-2,364.11	76.27	2,365.34	178.15	438,710.89	817,031.27
14,891.00	87.00	179.90	12,448.32	2,453.48	-2,453.03	75.65	2,454.19	178.23	438,621.97	817,030.65
14,980.00	86.40	179.10	12,453.44	2,542.34	-2,541.87	76.43	2,543.02	178.28	438,533.13	817,031.43
15,069.00	86.60	178.50	12,458.88	2,631.16	-2,630.69	78.29	2,631.85	178.30	438,444.31	817,033.29
15,158.00	87.60	177.50	12,463.38	2,720.01	-2,719.52	81.39	2,720.74	178.29	438,355.48	817,036.39
15,248.00	87.00	177.80	12,467.62	2,809.86	-2,809.34	85.07	2,810.63	178.27	438,265.66	817,040.07
15,337.00	87.20	177.80	12,472.12	2,898.70	-2,898.16	88.49	2,899.51	178.25	438,176.84	817,043.49
15,426.00	88.00	177.50	12,475.85	2,987.57	-2,987.01	92.13	2,988.43	178.23	438,087.99	817,047.13
15,516.00	88.40	179.60	12,478.67	3,077.50	-3,076.93	94.41	3,078.38	178.24	437,998.07	817,049.41
15,605.00	88.40	179.10	12,481.16	3,166.47	-3,165.89	95.42	3,167.33	178.27	437,909.11	817,050.42
15,694.00	88.00	179.90	12,483.96	3,255.42	-3,254.84	96.19	3,256.26	178.31	437,820.16	817,051.19
15,784.00	86.10	181.40	12,488.59	3,345.28	-3,344.71	95.18	3,346.06	178.37	437,730.29	817,050.18
15,873.00	86.00	181.80	12,494.72	3,434.02	-3,433.46	92.70	3,434.71	178.45	437,641.54	817,047.70
15,962.00	85.80	181.20	12,501.08	3,522.74	-3,522.21	90.37	3,523.36	178.53	437,552.79	817,045.37
16,052.00	85.10	180.40	12,508.22	3,612.43	-3,611.91	89.12	3,613.01	178.59	437,463.09	817,044.12



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
16,141.00	83.90	179.10	12,516.75	3,701.02	-3,700.50	89.51	3,701.58	178.61	437,374.50	817,044.51
16,230.00	84.10	178.40	12,526.05	3,789.52	-3,788.99	91.44	3,790.09	178.62	437,286.01	817,046.44
16,319.00	83.60	177.90	12,535.59	3,877.98	-3,877.43	94.29	3,878.58	178.61	437,197.57	817,049.29
16,409.00	86.70	177.60	12,543.20	3,967.60	-3,967.03	97.81	3,968.23	178.59	437,107.97	817,052.81
16,498.00	89.20	177.80	12,546.38	4,056.49	-4,055.89	101.38	4,057.16	178.57	437,019.11	817,056.38
16,587.00	87.60	179.90	12,548.87	4,145.44	-4,144.83	103.17	4,146.11	178.57	436,930.17	817,058.17
16,676.00	88.30	179.90	12,552.05	4,234.38	-4,233.77	103.32	4,235.03	178.60	436,841.23	817,058.32
16,766.00	85.70	181.20	12,556.76	4,324.23	-4,323.64	102.46	4,324.85	178.64	436,751.36	817,057.46
16,855.00	85.50	182.20	12,563.59	4,412.91	-4,412.33	99.83	4,413.46	178.70	436,662.67	817,054.83
16,945.00	86.50	181.70	12,569.87	4,502.62	-4,502.06	96.78	4,503.10	178.77	436,572.94	817,051.78
17,034.00	85.50	180.90	12,576.07	4,591.36	-4,590.82	94.76	4,591.80	178.82	436,484.18	817,049.76
17,124.00	84.50	180.90	12,583.92	4,680.99	-4,680.46	93.35	4,681.40	178.86	436,394.54	817,048.35
17,213.00	85.10	180.60	12,591.99	4,769.61	-4,769.09	92.19	4,769.98	178.89	436,305.91	817,047.19
17,255.00	84.80	180.50	12,595.68	4,811.44	-4,810.93	91.79	4,811.80	178.91	436,264.07	817,046.79
Last Survey: 17255' MD										
17,316.00	84.80	180.50	12,601.21	4,872.18	-4,871.67	91.26	4,872.53	178.93	436,203.33	817,046.26
PTB: 17316' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,825.00	11,804.85	270.43	56.39	Pro MWD First Survey: 11825' MD
17,255.00	12,595.68	-4,810.93	91.79	Last Survey: 17255' MD
17,316.00	12,601.21	-4,871.67	91.26	PTB: 17316' MD