

30-025-44286



HOBBS OCD
MAY 31 2018
RECEIVED



Bill Alexander State Com No. 111H
Lea County, NM

April 20, 2018

Job No. LNM5168218

 **ORIGINAL**

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

April 20, 2018



Operator Name: Matador Resources
Well Name: Bill Alexander State Com 33-22S-35E AR No. 111H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5168218

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	138' MD – 14,546' MD	14,605' MD	03/10/18 – 03/23/18	MWD

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

Bill Alexander State Com 33-22S-35E AR

No. 111H

OH

Survey: ProDirectional

Survey Report

20 April, 2018





ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Bill Alexander State Com 33-22S-35E AR
Well: No. 111H
Wellbore: OH
Design: MWD-138'-14546', Proj. 14605'

Local Co-ordinate Reference: Well No. 111H
TVD Reference: Well @ 3558.50usft
MD Reference: Well @ 3558.50usft
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 Bill Alexander State Com 33-22S-35E AR

Site Position:		Northing:	489,334.00 usft	Latitude:	32.341635
From: Map		Easting:	836,314.00 usft	Longitude:	-103.378220
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.51 °

Well No. 111H

Well Position	+N/-S	0.00 usft	Northing:	489,334.00 usft	Latitude:	32.341635
	+E/-W	0.00 usft	Easting:	836,314.00 usft	Longitude:	-103.378220
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,530.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/7/2018	6.80	60.18	48,144.90

Design MWD-138'-14546', Proj. 14605'

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	359.32

Survey Program **Date** 4/20/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
138.00	14,605.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



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Survey											
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0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	489,334.00	836,314.00	
138.00	0.30	225.90	138.00	-0.25	-0.25	-0.26	0.36	225.90	489,333.75	836,313.74	
Pro MWD First Survey: 138' MD											
232.00	0.40	175.30	232.00	-0.74	-0.75	-0.41	0.85	208.63	489,333.25	836,313.59	
322.00	0.20	175.80	322.00	-1.21	-1.22	-0.37	1.27	196.97	489,332.78	836,313.63	
416.00	0.80	221.70	415.99	-1.86	-1.87	-0.80	2.04	203.04	489,332.13	836,313.20	
507.00	2.20	243.60	506.96	-3.09	-3.12	-2.78	4.18	221.70	489,330.88	836,311.22	
597.00	3.00	251.10	596.87	-4.58	-4.66	-6.56	8.04	234.64	489,329.34	836,307.44	
687.00	3.70	251.50	686.71	-6.20	-6.34	-11.54	13.17	241.22	489,327.66	836,302.46	
777.00	3.10	244.10	776.55	-8.13	-8.32	-16.48	18.47	243.21	489,325.68	836,297.52	
868.00	3.80	245.90	867.39	-10.37	-10.63	-21.45	23.94	243.64	489,323.37	836,292.55	
958.00	3.50	246.00	957.21	-12.65	-12.97	-26.68	29.67	244.08	489,321.03	836,287.32	
1,049.00	3.70	241.40	1,048.03	-15.12	-15.50	-31.80	35.37	244.01	489,318.50	836,282.20	
1,140.00	3.20	241.50	1,138.86	-17.68	-18.12	-36.61	40.85	243.67	489,315.88	836,277.39	
1,230.00	3.30	240.00	1,228.72	-20.12	-20.61	-41.06	45.94	243.34	489,313.39	836,272.94	
1,326.00	2.80	243.40	1,324.58	-22.50	-23.04	-45.55	51.05	243.17	489,310.96	836,268.45	
1,420.00	2.90	237.50	1,418.46	-24.76	-25.35	-49.61	55.71	242.93	489,308.65	836,264.39	
1,516.00	3.20	240.70	1,514.33	-27.32	-27.96	-53.99	60.80	242.62	489,306.04	836,260.01	
1,611.00	3.20	241.60	1,609.18	-29.83	-30.52	-58.64	66.11	242.50	489,303.48	836,255.36	
1,706.00	2.80	241.60	1,704.05	-32.14	-32.89	-63.01	71.08	242.44	489,301.11	836,250.99	
1,801.00	2.40	242.30	1,798.95	-34.12	-34.92	-66.81	75.39	242.41	489,299.08	836,247.19	
1,896.00	2.50	246.50	1,893.86	-35.83	-36.67	-70.47	79.44	242.51	489,297.33	836,243.53	
1,944.00	2.60	244.80	1,941.82	-36.69	-37.55	-72.42	81.57	242.59	489,296.45	836,241.58	
2,087.00	2.40	240.50	2,084.68	-39.48	-40.40	-77.96	87.81	242.60	489,293.60	836,236.04	
2,183.00	2.90	234.40	2,180.58	-41.83	-42.81	-81.68	92.22	242.34	489,291.19	836,232.32	
2,278.00	3.90	239.40	2,275.41	-44.82	-45.85	-86.42	97.83	242.05	489,288.15	836,227.58	
2,373.00	5.90	243.50	2,370.06	-48.56	-49.67	-93.57	105.94	242.04	489,284.33	836,220.43	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Bill Alexander State Com 33-22S-35E AR
Well: No. 111H
Wellbore: OH
Design: MWD-138'-14546', Proj. 14605'

Local Co-ordinate Reference: Well No. 111H
TVD Reference: Well @ 3558.50usft
MD Reference: Well @ 3558.50usft
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)	
2,468.00	6.20	245.00	2,464.53	-52.80	-54.02	-102.59	115.94	242.23	489,279.98	836,211.41	
2,563.00	6.20	243.90	2,558.97	-57.11	-58.45	-111.84	126.20	242.41	489,275.55	836,202.16	
2,658.00	6.20	245.80	2,653.42	-61.36	-62.81	-121.13	136.45	242.59	489,271.19	836,192.87	
2,754.00	6.20	247.00	2,748.86	-65.40	-66.96	-130.63	146.79	242.86	489,267.04	836,183.37	
2,849.00	6.10	248.10	2,843.31	-69.18	-70.84	-140.04	156.94	243.17	489,263.16	836,173.96	
2,944.00	5.90	247.60	2,937.79	-72.81	-74.59	-149.23	166.84	243.44	489,259.41	836,164.77	
3,038.00	5.90	249.80	3,031.29	-76.21	-78.10	-158.23	176.46	243.73	489,255.90	836,155.77	
3,134.00	5.30	249.00	3,126.83	-79.40	-81.39	-167.00	185.78	244.02	489,252.61	836,147.00	
3,229.00	5.10	250.60	3,221.44	-82.28	-84.36	-175.08	194.35	244.27	489,249.64	836,138.92	
3,324.00	4.80	251.00	3,316.09	-84.88	-87.06	-182.82	202.50	244.54	489,246.94	836,131.18	
3,419.00	4.30	251.50	3,410.79	-87.22	-89.48	-189.96	209.98	244.78	489,244.52	836,124.04	
3,514.00	3.50	252.20	3,505.57	-89.17	-91.50	-196.10	216.40	244.99	489,242.50	836,117.90	
3,609.00	2.00	251.50	3,600.46	-90.53	-92.91	-200.43	220.92	245.13	489,241.09	836,113.57	
3,704.00	1.60	244.60	3,695.41	-91.59	-94.01	-203.20	223.89	245.17	489,239.99	836,110.80	
3,799.00	2.20	239.60	3,790.36	-93.05	-95.50	-205.97	227.04	245.13	489,238.50	836,108.03	
3,895.00	3.80	244.70	3,886.22	-95.29	-97.79	-210.44	232.05	245.08	489,236.21	836,103.56	
3,990.00	5.80	249.90	3,980.88	-98.20	-100.79	-217.79	239.98	245.17	489,233.21	836,096.21	
4,085.00	5.80	249.00	4,075.40	-101.46	-104.16	-226.78	249.56	245.33	489,229.84	836,087.22	
4,181.00	4.70	238.10	4,171.00	-105.18	-107.97	-234.65	258.30	245.29	489,226.03	836,079.35	
4,276.00	3.80	236.90	4,265.73	-108.89	-111.75	-240.59	265.28	245.09	489,222.25	836,073.41	
4,371.00	4.40	241.20	4,360.49	-112.29	-115.22	-246.42	272.03	244.94	489,218.78	836,067.58	
4,467.00	5.90	252.40	4,456.10	-115.46	-118.49	-254.35	280.60	245.02	489,215.51	836,059.65	
4,562.00	6.20	256.90	4,550.57	-117.99	-121.13	-264.00	290.47	245.35	489,212.87	836,050.00	
4,657.00	5.50	256.80	4,645.08	-120.08	-123.33	-273.43	299.96	245.72	489,210.67	836,040.57	
4,753.00	5.20	257.60	4,740.66	-121.96	-125.32	-282.16	308.74	246.05	489,208.68	836,031.84	
4,849.00	4.70	257.50	4,836.30	-123.65	-127.10	-290.25	316.86	246.35	489,206.90	836,023.75	
4,944.00	4.90	259.00	4,930.97	-125.17	-128.72	-298.03	324.64	246.64	489,205.28	836,015.97	



ProDirectional Survey Report



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Local Co-ordinate Reference: Well No. 111H
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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)	
5,039.00	3.30	261.10	5,025.72	-126.29	-129.92	-304.72	331.26	246.91	489,204.08	836,009.28	
5,134.00	5.40	253.20	5,120.44	-127.92	-131.63	-311.70	338.35	247.11	489,202.37	836,002.30	
5,229.00	6.20	250.10	5,214.96	-130.85	-134.67	-320.80	347.92	247.23	489,199.33	835,993.20	
5,324.00	6.10	252.70	5,309.41	-133.99	-137.92	-330.44	358.07	247.35	489,196.08	835,983.56	
5,419.00	6.10	257.30	5,403.87	-136.48	-140.53	-340.19	368.07	247.56	489,193.47	835,973.81	
5,515.00	6.20	259.30	5,499.32	-138.44	-142.61	-350.26	378.18	247.85	489,191.39	835,963.74	
5,610.00	5.60	241.30	5,593.83	-141.52	-145.79	-359.37	387.81	247.92	489,188.21	835,954.63	
5,706.00	5.80	253.30	5,689.35	-145.05	-149.43	-368.12	397.29	247.91	489,184.57	835,945.88	
5,801.00	5.80	257.80	5,783.87	-147.34	-151.83	-377.41	406.80	248.09	489,182.17	835,936.59	
5,896.00	5.80	257.30	5,878.38	-149.30	-153.90	-386.78	416.28	248.30	489,180.10	835,927.22	
5,983.00	5.50	254.80	5,964.96	-151.26	-155.96	-395.10	424.76	248.46	489,178.04	835,918.90	
6,085.00	5.10	256.80	6,066.52	-153.47	-158.27	-404.23	434.11	248.62	489,175.73	835,909.77	
6,180.00	3.20	236.30	6,161.27	-155.83	-160.71	-410.54	440.88	248.62	489,173.29	835,903.46	
6,275.00	3.00	225.50	6,256.14	-158.99	-163.92	-414.52	445.76	248.42	489,170.08	835,899.48	
6,370.00	2.90	220.60	6,351.01	-162.52	-167.49	-417.86	450.18	248.16	489,166.51	835,896.14	
6,466.00	4.90	238.10	6,446.79	-166.47	-171.50	-422.92	456.37	247.93	489,162.50	835,891.08	
6,561.00	5.40	238.90	6,541.40	-170.84	-175.95	-430.19	464.79	247.75	489,158.05	835,883.81	
6,656.00	5.70	238.00	6,635.96	-175.55	-180.76	-438.02	473.86	247.58	489,153.24	835,875.98	
6,752.00	5.80	239.00	6,731.47	-180.48	-185.79	-446.22	483.36	247.40	489,148.21	835,867.78	
6,847.00	5.80	237.40	6,825.99	-185.44	-190.85	-454.38	492.83	247.22	489,143.15	835,859.62	
6,942.00	5.50	235.90	6,920.53	-190.49	-195.98	-462.20	502.03	247.02	489,138.02	835,851.80	
7,037.00	5.40	251.30	7,015.10	-194.38	-199.97	-470.20	510.96	246.96	489,134.03	835,843.80	
7,133.00	5.40	252.80	7,110.68	-197.06	-202.75	-478.79	519.96	247.05	489,131.25	835,835.21	
7,228.00	4.10	248.90	7,205.35	-199.51	-205.30	-486.23	527.80	247.11	489,128.70	835,827.77	
7,323.00	4.10	244.60	7,300.11	-202.12	-207.98	-492.47	534.59	247.10	489,126.02	835,821.53	
7,418.00	1.50	234.40	7,394.98	-204.25	-210.16	-496.55	539.19	247.06	489,123.84	835,817.45	
7,513.00	0.40	321.20	7,489.97	-204.70	-210.62	-497.77	540.50	247.06	489,123.38	835,816.23	



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7,608.00	0.50	351.40	7,584.97	-204.03	-209.96	-498.04	540.49	247.14	489,124.04	835,815.96	
7,703.00	0.30	355.70	7,679.97	-203.37	-209.30	-498.12	540.30	247.21	489,124.70	835,815.88	
7,799.00	0.40	21.40	7,775.97	-202.81	-208.74	-498.02	539.99	247.26	489,125.26	835,815.98	
7,894.00	0.30	22.40	7,870.96	-202.28	-208.20	-497.80	539.58	247.30	489,125.80	835,816.20	
7,989.00	0.80	340.40	7,965.96	-201.42	-207.34	-497.93	539.37	247.39	489,126.66	835,816.07	
8,084.00	0.80	357.00	8,060.95	-200.13	-206.06	-498.18	539.12	247.53	489,127.94	835,815.82	
8,179.00	0.50	336.30	8,155.94	-199.08	-205.01	-498.39	538.91	247.64	489,128.99	835,815.61	
8,275.00	0.40	18.90	8,251.94	-198.38	-204.31	-498.45	538.69	247.71	489,129.69	835,815.55	
8,370.00	0.30	331.00	8,346.94	-197.85	-203.78	-498.46	538.51	247.76	489,130.22	835,815.54	
8,465.00	0.30	315.20	8,441.94	-197.45	-203.39	-498.75	538.63	247.81	489,130.61	835,815.25	
8,561.00	0.40	13.40	8,537.94	-196.95	-202.88	-498.85	538.53	247.87	489,131.12	835,815.15	
8,656.00	0.40	336.10	8,632.93	-196.32	-202.26	-498.91	538.35	247.93	489,131.74	835,815.09	
8,751.00	0.50	10.90	8,727.93	-195.61	-201.55	-498.97	538.14	248.00	489,132.45	835,815.03	
8,847.00	0.80	66.80	8,823.93	-194.94	-200.87	-498.27	537.24	248.04	489,133.13	835,815.73	
8,942.00	1.20	81.10	8,918.91	-194.55	-200.46	-496.68	535.61	248.02	489,133.54	835,817.32	
9,038.00	1.30	81.30	9,014.89	-194.25	-200.14	-494.61	533.57	247.97	489,133.86	835,819.39	
9,133.00	1.50	90.60	9,109.86	-194.13	-199.99	-492.30	531.37	247.89	489,134.01	835,821.70	
9,215.00	1.60	101.90	9,191.83	-194.40	-200.23	-490.11	529.43	247.78	489,133.77	835,823.89	
9,278.00	2.40	9.70	9,254.80	-193.30	-199.12	-489.03	528.01	247.85	489,134.88	835,824.97	
9,310.00	5.40	356.50	9,286.73	-191.13	-196.95	-489.00	527.18	248.06	489,137.05	835,825.00	
9,341.00	9.50	352.50	9,317.46	-187.14	-192.96	-489.43	526.09	248.48	489,141.04	835,824.57	
9,405.00	19.40	358.00	9,379.36	-171.22	-177.06	-490.49	521.47	250.15	489,156.94	835,823.51	
9,500.00	30.90	359.70	9,465.21	-130.92	-136.76	-491.17	509.86	254.44	489,197.24	835,822.83	
9,596.00	39.40	358.70	9,543.63	-75.71	-81.55	-491.99	498.71	260.59	489,252.45	835,822.01	
9,691.00	45.80	357.10	9,613.53	-11.46	-17.33	-494.40	494.71	267.99	489,316.67	835,819.60	
9,786.00	46.70	356.50	9,679.22	57.10	51.19	-498.24	500.86	275.87	489,385.19	835,815.76	
9,817.00	48.40	357.10	9,700.15	79.95	74.02	-499.51	504.97	278.43	489,408.02	835,814.49	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM(NAD83)
Site: Bill Alexander State Com 33-22S-35E AR
Well: No. 111H
Wellbore: OH
Design: MWD-138'-14546', Proj. 14605'

Local Co-ordinate Reference: Well No. 111H
TVD Reference: Well @ 3558.50usft
MD Reference: Well @ 3558.50usft
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)
9,849.00	51.60	358.50	9,720.71	104.45	98.51	-500.44	510.05	281.14	489,432.51	835,813.56
9,881.00	55.20	0.00	9,739.79	130.13	124.20	-500.77	515.94	283.93	489,458.20	835,813.23
9,913.00	59.20	0.80	9,757.12	157.02	151.09	-500.58	522.89	286.80	489,485.09	835,813.42
9,945.00	62.50	0.80	9,772.71	184.95	179.03	-500.19	531.27	289.69	489,513.03	835,813.81
9,975.00	66.20	1.30	9,785.69	211.98	206.06	-499.69	540.51	292.41	489,540.06	835,814.31
10,000.00	69.40	2.30	9,795.13	235.10	229.20	-498.96	549.09	294.67	489,563.20	835,815.04
10,013.00	70.40	2.40	9,799.60	247.29	241.39	-498.46	553.84	295.84	489,575.39	835,815.54
10,045.00	74.70	2.00	9,809.20	277.77	271.89	-497.29	566.77	298.67	489,605.89	835,816.71
10,077.00	78.90	1.40	9,816.50	308.89	303.02	-496.37	581.56	301.40	489,637.02	835,817.63
10,141.00	83.70	0.20	9,826.18	372.12	366.26	-495.49	616.17	306.47	489,700.26	835,818.51
10,204.00	85.50	359.20	9,832.11	434.83	428.98	-495.82	655.64	310.87	489,762.98	835,818.18
10,236.00	87.50	358.60	9,834.06	466.77	460.91	-496.43	677.41	312.87	489,794.91	835,817.57
10,330.00	90.90	357.90	9,835.37	560.73	554.84	-499.30	746.43	318.02	489,888.84	835,814.70
10,425.00	92.50	357.40	9,832.56	655.64	649.72	-503.20	821.79	322.24	489,983.72	835,810.80
10,521.00	91.70	357.40	9,829.04	751.53	745.55	-507.55	901.92	325.75	490,079.55	835,806.45
10,616.00	90.90	358.50	9,826.88	846.47	840.47	-510.95	983.59	328.70	490,174.47	835,803.05
10,712.00	92.00	358.60	9,824.45	942.43	936.40	-513.38	1,067.90	331.27	490,270.40	835,800.62
10,807.00	91.10	359.40	9,821.88	1,037.39	1,031.35	-515.03	1,152.80	333.46	490,365.35	835,798.97
10,902.00	89.90	0.00	9,821.05	1,132.39	1,126.35	-515.53	1,238.72	335.41	490,460.35	835,798.47
10,998.00	91.10	359.80	9,820.22	1,228.37	1,222.34	-515.70	1,326.67	337.13	490,556.34	835,798.30
11,093.00	89.20	0.50	9,819.97	1,323.36	1,317.33	-515.45	1,414.59	338.63	490,651.33	835,798.55
11,189.00	89.70	0.30	9,820.89	1,419.34	1,413.33	-514.78	1,504.16	339.99	490,747.33	835,799.22
11,284.00	90.40	0.30	9,820.81	1,514.32	1,508.33	-514.28	1,593.59	341.17	490,842.33	835,799.72
11,379.00	91.40	359.90	9,819.31	1,609.30	1,603.31	-514.12	1,683.72	342.22	490,937.31	835,799.88
11,475.00	89.00	0.70	9,818.98	1,705.28	1,699.30	-513.61	1,775.23	343.18	491,033.30	835,800.39
11,570.00	89.50	1.00	9,820.22	1,800.24	1,794.28	-512.20	1,865.96	344.07	491,128.28	835,801.80
11,665.00	89.90	0.80	9,820.72	1,895.20	1,889.27	-510.71	1,957.08	344.87	491,223.27	835,803.29



ProDirectional Survey Report



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Local Co-ordinate Reference: Well No. 111H
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MD Reference: Well @ 3558.50usft
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)	
11,760.00	90.80	0.90	9,820.14	1,990.16	1,984.26	-509.30	2,048.58	345.60	491,318.26	835,804.70	
11,856.00	93.80	0.60	9,816.29	2,086.04	2,080.16	-508.05	2,141.30	346.28	491,414.16	835,805.95	
11,951.00	95.90	0.10	9,808.26	2,180.68	2,174.81	-507.47	2,233.23	346.87	491,508.81	835,806.53	
12,046.00	93.80	0.50	9,800.22	2,275.32	2,269.47	-506.97	2,325.40	347.41	491,603.47	835,807.03	
12,142.00	94.50	0.20	9,793.28	2,371.06	2,365.21	-506.39	2,418.81	347.92	491,699.21	835,807.61	
12,237.00	91.30	359.90	9,788.47	2,465.91	2,460.08	-506.30	2,511.64	348.37	491,794.08	835,807.70	
12,332.00	89.50	0.30	9,787.81	2,560.90	2,555.07	-506.14	2,604.72	348.80	491,889.07	835,807.86	
12,427.00	89.80	0.10	9,788.39	2,655.89	2,650.07	-505.81	2,697.91	349.19	491,984.07	835,808.19	
12,523.00	90.70	0.40	9,787.97	2,751.87	2,746.07	-505.39	2,792.18	349.57	492,080.07	835,808.61	
12,618.00	92.00	359.50	9,785.73	2,846.84	2,841.04	-505.47	2,885.65	349.91	492,175.04	835,808.53	
12,712.00	92.40	359.50	9,782.12	2,940.77	2,934.96	-506.29	2,978.31	350.21	492,268.96	835,807.71	
12,808.00	92.90	357.90	9,777.68	3,036.65	3,030.83	-508.47	3,073.19	350.48	492,364.83	835,805.53	
12,903.00	93.50	357.40	9,772.38	3,131.46	3,125.60	-512.35	3,167.32	350.69	492,459.60	835,801.65	
12,998.00	94.00	357.60	9,766.17	3,226.21	3,220.31	-516.49	3,261.47	350.89	492,554.31	835,797.51	
13,093.00	92.80	357.60	9,760.53	3,321.00	3,315.06	-520.46	3,355.67	351.08	492,649.06	835,793.54	
13,188.00	93.40	358.00	9,755.40	3,415.83	3,409.85	-524.10	3,449.89	351.26	492,743.85	835,789.90	
13,284.00	91.00	357.90	9,751.71	3,511.72	3,505.71	-527.53	3,545.18	351.44	492,839.71	835,786.47	
13,379.00	91.70	357.70	9,749.47	3,606.66	3,600.61	-531.18	3,639.58	351.61	492,934.61	835,782.82	
13,474.00	92.40	357.90	9,746.08	3,701.57	3,695.48	-534.82	3,733.98	351.77	493,029.48	835,779.18	
13,569.00	91.70	358.50	9,742.68	3,796.49	3,790.37	-537.81	3,828.34	351.92	493,124.37	835,776.19	
13,665.00	91.20	358.70	9,740.25	3,892.45	3,886.31	-540.15	3,923.67	352.09	493,220.31	835,773.85	
13,760.00	91.50	359.10	9,738.01	3,987.42	3,981.27	-541.97	4,017.99	352.25	493,315.27	835,772.03	
13,855.00	89.00	0.30	9,737.60	4,082.41	4,076.26	-542.47	4,112.19	352.42	493,410.26	835,771.53	
13,951.00	89.40	0.10	9,738.94	4,178.39	4,172.25	-542.14	4,207.32	352.60	493,506.25	835,771.86	
14,045.00	87.00	0.60	9,741.89	4,272.32	4,266.19	-541.56	4,300.43	352.77	493,600.19	835,772.44	
14,141.00	87.50	0.30	9,746.49	4,368.19	4,362.08	-540.81	4,395.47	352.93	493,696.08	835,773.19	
14,236.00	88.30	0.10	9,749.97	4,463.11	4,457.01	-540.48	4,489.66	353.09	493,791.01	835,773.52	



ProDirectional Survey Report



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Site: Bill Alexander State Com 33-22S-35E AR
Well: No. 111H
Wellbore: OH
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Local Co-ordinate Reference: Well No. 111H
TVD Reference: Well @ 3558.50usft
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North Reference: Grid
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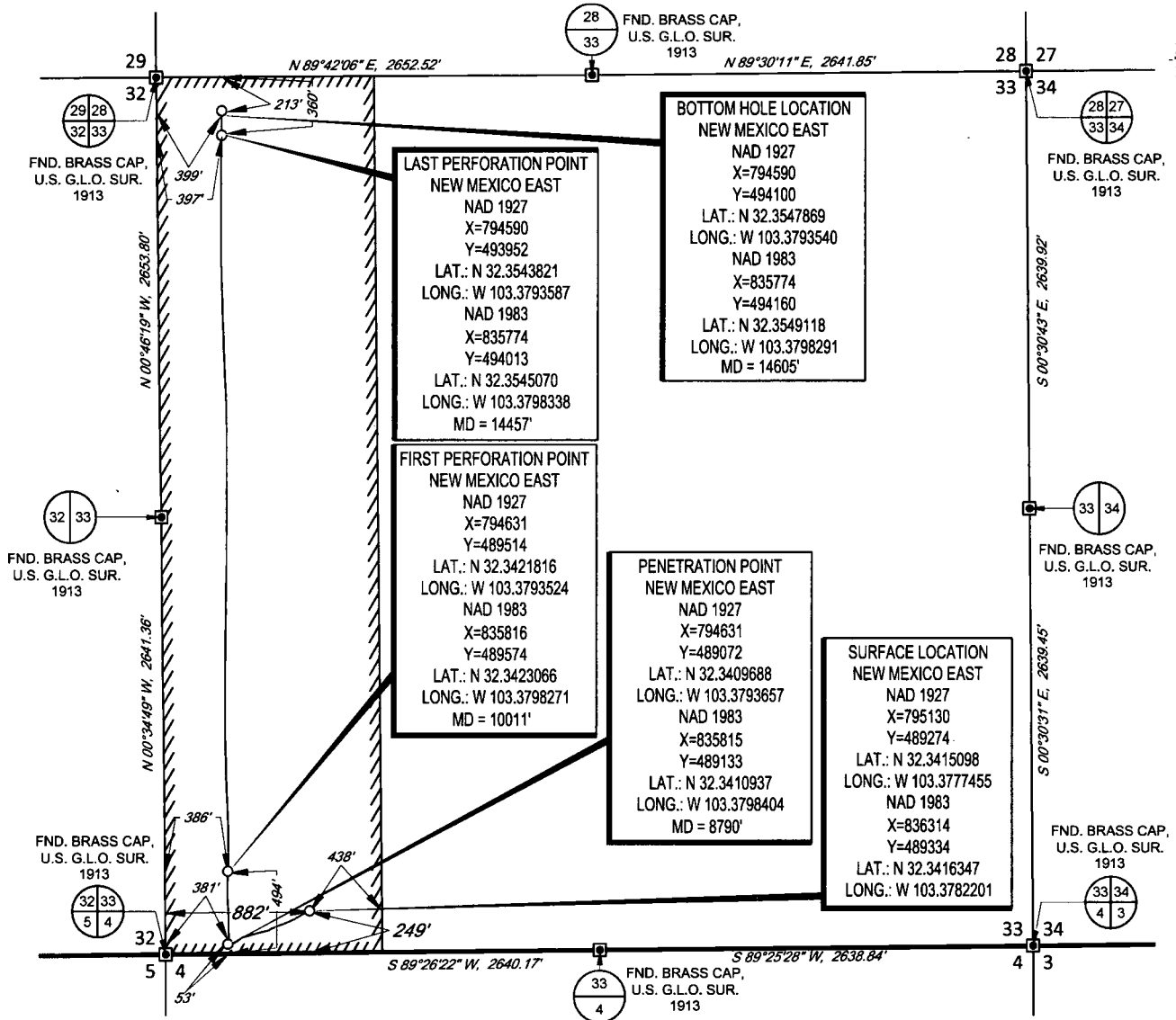
Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)		TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
14,332.00	88.50	0.10		9,752.66	4,559.07	4,552.97	-540.31	4,584.92	353.23	493,886.97	835,773.69
14,427.00	88.20	0.10		9,755.39	4,654.02	4,647.93	-540.15	4,679.22	353.37	493,981.93	835,773.85
14,523.00	88.80	0.10		9,757.90	4,749.98	4,743.90	-539.98	4,774.53	353.51	494,077.90	835,774.02
14,546.00	89.00	0.00		9,758.35	4,772.97	4,766.90	-539.96	4,797.38	353.54	494,100.90	835,774.04
Last Survey: 14546' MD											
14,605.00	89.00	0.00		9,759.38	4,831.96	4,825.89	-539.96	4,856.00	353.62	494,159.89	835,774.04
PTB: 14605' MD											

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
138.00	138.00	-0.25	-0.26	Pro MWD First Survey: 138' MD	
14,546.00	9,758.35	4,766.90	-539.96	Last Survey: 14546' MD	
14,605.00	9,759.38	4,825.89	-539.96	PTB: 14605' MD	

SCALE: 1" = 1000'

0' 500' 1000'

SECTION 33, TOWNSHIP 22-S, RANGE 35-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: BILL ALEXANDER STATE COM 33-22S-35E AR #111H

SECTION 33 TWP 22-S RGE 35-E SURVEY N.M.P.M.

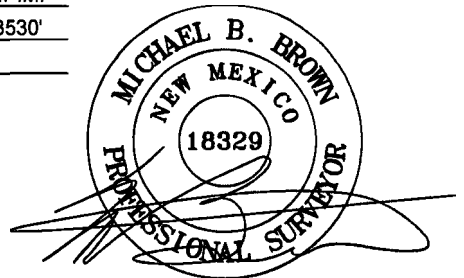
COUNTY LEA STATE NM ELEVATION 3530'

DESCRIPTION 249' FSL & 882' FWL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329
MAY 24, 2018

BILL ALEXANDER STATE COM 33-22S-35E AR #111H AS-COMPLETED	REVISION:	
	INT	DATE
DATE: 05/24/2018		
FILE: AD BILL_ALEXANDER_STATE_COM_33-22S-35E_AR_111H		
DRAWN BY: AMD		
SHEET: 1 OF 1		

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.