



PHOENIX
TECHNOLOGY SERVICES

30-025-44545

March 4, 2019

State of New Mexico
1625 N. French Drive
Hobbs, New Mexico 88240

Dear District 1 - Hobbs

Re: Matador Resources
Leslie Fed Com 203H
Lea Co., New Mexico
API #30-025-44545
Job No. 64180

HOBBS OCD
MAR 18 2019
RECEIVED

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Chris Marks	203H	197	17,701	2/2/19	2/27/19	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

Job #: 64180
 Client: Matador Resources
 County & State: Lea County, New Mexico
 Well: Leslie Fed Com #203H
 API No: 30-025-44545
 Proposed Direction: 359.49°

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
0.00 ft	0.00 ft	0.00°	0.00°	. N	. E	Surface
Data Source Company:						

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
2-Feb-19	197 ft	0.23°	257.26°

Last Survey Date	Last Survey Depth	INC	AZM
27-Feb-19	17,701 ft	89.47°	354.56°

Survey Instrument Type
MWD - P360

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
27-Feb-19	17,760 ft	89.47°	354.56°

CORRECTION INFORMATION

Magnetic Declination Used	6.63 degrees
Grid Convergence Used	0.50 degrees
Total Correction	6.13 degrees

Corrected to True/Grid North
Grid North

TO THE BEST OF MY KNOWLEDGE, I
 CERTIFY THIS SURVEY DATA TO BE TRUE
 AND CORRECT.

Chris Marks

Signature

2/27/2019

Date



PHOENIX
TECHNOLOGY SERVICES

Matador Resources

Lea County, NM (NAD 27)

Leslie Fed Com

203H

OH / 64180

Survey: Phoenix MWD Surveys

Standard Survey Report

27 February, 2019





Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 203H
Project:	Lea County, NM (NAD 27)	TVD Reference:	RKB @ 3285.50usft (Patterson 297)
Site:	Leslie Fed Com	MD Reference:	RKB @ 3285.50usft (Patterson 297)
Well:	203H	North Reference:	Grid
Wellbore:	OH / 64180	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	USA Compass

Project	Lea County, NM (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Leslie Fed Com		
Site Position:		Northing:	410,038.56 usft
From:	Lat/Long	Easting:	790,811.23 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 25.77900 N
		Longitude:	103° 23' 38.29308 W
		Grid Convergence:	0.50 °

Well	203H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 7' 26.64124 N
		Longitude:	103° 22' 56.79791 W
		Ground Level:	3,257.00 usft

Wellbore	OH / 64180		
Magnetics	Model Name	Sample Date	Declination
			(°)
	MVHD	2/20/2019	6.63
			Dip Angle
			(°)
			59.78
			Field Strength
			(nT)
			47,779.03792861

Design	Surveys (Patterson 297)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			359.49

Survey Program	Date 2/27/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
197.00	17,760.00	Phoenix MWD Surveys (OH / 64180)	MWD+HRGM
			Description
			OWSG MWD + HRGM

Survey	Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
	Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
	(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	197.00	0.23	257.26	197.00	-0.09	-0.39	-0.08	0.12	0.12	0.00
First Phoenix MWD Survey										
	290.00	0.77	220.57	290.00	-0.60	-0.97	-0.59	0.65	0.58	-39.45
	381.00	0.93	245.27	380.99	-1.38	-2.04	-1.36	0.43	0.18	27.14
	471.00	1.32	233.10	470.97	-2.30	-3.54	-2.27	0.51	0.43	-13.52
	563.00	1.98	227.35	562.93	-4.02	-5.55	-3.97	0.74	0.72	-6.25
	654.00	2.39	226.98	653.86	-6.38	-8.09	-6.31	0.45	0.45	-0.41
	744.00	2.75	232.74	743.77	-8.96	-11.19	-8.87	0.49	0.40	6.40
	836.00	3.12	236.67	835.65	-11.68	-15.03	-11.54	0.46	0.40	4.27
	888.00	3.17	239.38	887.57	-13.19	-17.45	-13.03	0.30	0.10	5.21

Company:	Matador Resources	Local Co-ordinate Reference:	Well 203H
Project:	Lea County, NM (NAD 27)	TVD Reference:	RKB @ 3285.50usft (Patterson 297)
Site:	Leslie Fed Com	MD Reference:	RKB @ 3285.50usft (Patterson 297)
Well:	203H	North Reference:	Grid
Wellbore:	OH / 64180	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	USA Compass

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,046.00	3.00	243.86	1,045.35	-17.23	-24.92	-17.01	0.19	-0.11	2.84
1,135.00	2.93	240.99	1,134.23	-19.36	-29.00	-19.10	0.18	-0.08	-3.22
1,227.00	2.71	236.79	1,226.11	-21.69	-32.88	-21.40	0.33	-0.24	-4.57
1,317.00	3.08	240.58	1,316.00	-24.05	-36.77	-23.72	0.46	0.41	4.21
1,411.00	4.21	243.17	1,409.81	-26.84	-42.05	-26.47	1.21	1.20	2.76
1,504.00	5.31	245.08	1,502.49	-30.20	-48.99	-29.76	1.19	1.18	2.05
1,598.00	6.69	245.10	1,595.97	-34.34	-57.91	-33.82	1.47	1.47	0.02
1,691.00	7.17	243.76	1,688.29	-39.18	-68.03	-38.58	0.54	0.52	-1.44
1,785.00	7.18	243.39	1,781.55	-44.41	-78.54	-43.71	0.05	0.01	-0.39
1,878.00	6.88	243.90	1,873.85	-49.46	-88.74	-48.67	0.33	-0.32	0.55
1,972.00	6.72	243.14	1,967.19	-54.42	-98.70	-53.55	0.20	-0.17	-0.81
2,066.00	6.44	240.40	2,060.57	-59.51	-108.19	-58.55	0.45	-0.30	-2.91
2,159.00	6.84	240.78	2,152.95	-64.79	-117.56	-63.75	0.43	0.43	0.41
2,253.00	7.32	241.36	2,246.23	-70.40	-127.70	-69.26	0.52	0.51	0.62
2,346.00	7.20	241.43	2,338.49	-76.02	-138.02	-74.80	0.13	-0.13	0.08
2,440.00	6.71	240.95	2,431.80	-81.51	-147.99	-80.19	0.52	-0.52	-0.51
2,534.00	6.51	239.56	2,525.17	-86.87	-157.39	-85.47	0.27	-0.21	-1.48
2,627.00	6.13	239.40	2,617.60	-92.07	-166.21	-90.60	0.41	-0.41	-0.17
2,721.00	5.85	238.47	2,711.09	-97.13	-174.61	-95.58	0.32	-0.30	-0.99
2,814.00	6.17	238.99	2,803.58	-102.18	-182.93	-100.56	0.35	0.34	0.56
2,908.00	6.35	240.81	2,897.02	-107.32	-191.80	-105.62	0.29	0.19	1.94
3,002.00	6.41	240.36	2,990.44	-112.45	-200.90	-110.67	0.08	0.06	-0.48
3,095.00	7.00	242.84	3,082.80	-117.61	-210.45	-115.74	0.71	0.63	2.67
3,189.00	6.64	242.96	3,176.14	-122.69	-220.39	-120.73	0.38	-0.38	0.13
3,282.00	7.12	243.43	3,268.47	-127.71	-230.33	-125.67	0.52	0.52	0.51
3,376.00	7.22	243.52	3,361.73	-132.95	-240.83	-130.82	0.11	0.11	0.10
3,470.00	6.96	243.51	3,455.01	-138.13	-251.22	-135.90	0.28	-0.28	-0.01
3,563.00	6.75	243.45	3,547.35	-143.08	-261.15	-140.77	0.23	-0.23	-0.06
3,657.00	6.22	242.68	3,640.75	-147.89	-270.61	-145.49	0.57	-0.56	-0.82
3,750.00	6.20	240.84	3,733.20	-152.65	-279.48	-150.17	0.22	-0.02	-1.98
3,844.00	6.23	241.65	3,826.65	-157.55	-288.40	-154.98	0.10	0.03	0.86
3,938.00	6.97	241.89	3,920.02	-162.65	-297.92	-160.01	0.79	0.79	0.26
4,031.00	7.76	242.73	4,012.26	-168.19	-308.48	-165.45	0.86	0.85	0.90
4,125.00	7.56	242.86	4,105.42	-173.92	-319.62	-171.08	0.21	-0.21	0.14
4,218.00	7.37	243.15	4,197.63	-179.40	-330.38	-176.47	0.21	-0.20	0.31
4,312.00	6.73	244.47	4,290.92	-184.50	-340.73	-181.47	0.70	-0.68	1.40
4,406.00	7.00	243.28	4,384.24	-189.45	-350.82	-186.33	0.32	0.29	-1.27
4,499.00	6.88	241.45	4,476.56	-194.66	-360.78	-191.46	0.27	-0.13	-1.97
4,593.00	6.77	240.16	4,569.90	-200.11	-370.53	-196.82	0.20	-0.12	-1.37
4,687.00	7.35	240.55	4,663.18	-205.82	-380.57	-202.44	0.62	0.62	0.41
4,780.00	6.54	240.53	4,755.50	-211.35	-390.36	-207.88	0.87	-0.87	-0.02
4,874.00	7.25	240.80	4,848.82	-216.88	-400.20	-213.32	0.76	0.76	0.29
4,968.00	7.17	238.16	4,942.08	-222.87	-410.36	-219.22	0.36	-0.09	-2.81



Survey Report



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Site:	Leslie Fed Com	MD Reference:	RKB @ 3285.50usft (Patterson 297)
Well:	203H	North Reference:	Grid
Wellbore:	OH / 64180	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	USA Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,061.00	7.33	238.98	5,034.33	-228.99	-420.37	-225.25	0.20	0.17	0.88
5,155.00	7.69	241.39	5,127.53	-235.09	-431.03	-231.26	0.51	0.38	2.56
5,249.00	7.13	241.17	5,220.74	-240.91	-441.67	-236.99	0.60	-0.60	-0.23
5,342.00	6.72	241.30	5,313.06	-246.31	-451.50	-242.30	0.44	-0.44	0.14
5,441.00	6.18	240.63	5,411.44	-251.70	-461.22	-247.61	0.55	-0.55	-0.68
5,531.00	6.00	251.10	5,500.93	-255.60	-469.89	-251.43	1.25	-0.20	11.63
5,624.00	6.41	252.55	5,593.39	-258.73	-479.44	-254.48	0.47	0.44	1.56
5,718.00	7.60	262.37	5,686.69	-261.13	-490.61	-256.78	1.79	1.27	10.45
5,812.00	9.18	258.68	5,779.68	-263.43	-504.13	-258.95	1.77	1.68	-3.93
5,905.00	9.65	250.76	5,871.43	-267.46	-518.76	-262.85	1.48	0.51	-8.52
5,999.00	10.58	247.35	5,963.97	-273.38	-534.16	-268.63	1.18	0.99	-3.63
6,092.00	10.90	243.70	6,055.34	-280.56	-549.92	-275.68	0.81	0.34	-3.92
6,186.00	10.20	234.29	6,147.76	-289.36	-564.65	-284.34	1.98	-0.74	-10.01
6,279.00	8.93	224.18	6,239.47	-299.34	-576.37	-294.22	2.26	-1.37	-10.87
6,373.00	8.19	225.05	6,332.42	-309.30	-586.19	-304.10	0.80	-0.79	0.93
6,466.00	8.00	225.94	6,424.49	-318.48	-595.53	-313.19	0.24	-0.20	0.96
6,560.00	8.02	230.15	6,517.58	-327.23	-605.27	-321.86	0.62	0.02	4.48
6,653.00	7.78	237.46	6,609.70	-334.78	-615.55	-329.31	1.11	-0.26	7.86
6,747.00	7.94	236.17	6,702.81	-341.81	-626.31	-336.25	0.25	0.17	-1.37
6,841.00	7.28	234.57	6,795.99	-348.88	-636.56	-343.23	0.74	-0.70	-1.70
6,935.00	6.25	235.95	6,889.33	-355.20	-645.65	-349.46	1.11	-1.10	1.47
7,028.00	6.16	233.55	6,981.79	-361.00	-653.86	-355.19	0.30	-0.10	-2.58
7,122.00	4.74	238.03	7,075.36	-366.05	-661.21	-360.18	1.58	-1.51	4.77
7,215.00	2.41	263.33	7,168.18	-368.31	-666.41	-362.39	2.97	-2.51	27.20
7,309.00	2.40	260.85	7,262.09	-368.85	-670.32	-362.90	0.11	-0.01	-2.64
7,402.00	1.97	261.23	7,355.03	-369.41	-673.82	-363.42	0.46	-0.46	0.41
7,496.00	1.18	261.62	7,448.99	-369.80	-676.37	-363.79	0.84	-0.84	0.41
7,590.00	1.29	251.30	7,542.97	-370.28	-678.33	-364.25	0.26	0.12	-10.98
7,683.00	0.85	231.20	7,635.95	-371.04	-679.86	-365.01	0.62	-0.47	-21.61
7,777.00	0.79	150.82	7,729.94	-372.05	-680.09	-366.01	1.13	-0.06	-85.51
7,871.00	0.72	131.57	7,823.94	-373.00	-679.33	-366.97	0.28	-0.07	-20.48
7,964.00	0.44	161.53	7,916.93	-373.73	-678.78	-367.70	0.43	-0.30	32.22
8,058.00	0.38	155.38	8,010.93	-374.36	-678.54	-368.33	0.08	-0.06	-6.54
8,152.00	0.38	156.22	8,104.93	-374.92	-678.28	-368.90	0.01	0.00	0.89
8,245.00	0.15	12.18	8,197.93	-375.09	-678.13	-369.07	0.55	-0.25	-154.88
8,338.00	0.66	38.70	8,290.92	-374.55	-677.77	-368.53	0.57	0.55	28.52
8,432.00	0.58	70.16	8,384.92	-373.97	-676.99	-367.96	0.37	-0.09	33.47
8,526.00	0.54	92.93	8,478.91	-373.83	-676.10	-367.82	0.24	-0.04	24.22
8,619.00	0.58	66.39	8,571.91	-373.66	-675.23	-367.67	0.28	0.04	-28.54
8,713.00	0.68	27.95	8,665.91	-372.98	-674.53	-366.99	0.45	0.11	-40.89
8,806.00	0.51	94.76	8,758.90	-372.53	-673.86	-366.54	0.72	-0.18	71.84
8,900.00	0.73	70.77	8,852.90	-372.36	-672.88	-366.39	0.36	0.23	-25.52
8,993.00	1.01	56.50	8,945.89	-371.72	-671.63	-365.75	0.38	0.30	-15.34

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Well:	203H	North Reference:	Grid
Wellbore:	OH / 64180	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	USA Compass

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,087.00	1.20	58.70	9,039.87	-370.75	-670.10	-364.80	0.21	0.20	2.34	
9,181.00	1.27	41.88	9,133.85	-369.46	-668.57	-363.52	0.39	0.07	-17.89	
9,275.00	1.72	33.27	9,227.81	-367.50	-667.10	-361.58	0.53	0.48	-9.16	
9,368.00	1.75	12.44	9,320.77	-364.95	-666.02	-359.04	0.68	0.03	-22.40	
9,461.00	1.42	346.06	9,413.74	-362.45	-666.00	-356.53	0.85	-0.35	-28.37	
9,555.00	1.42	333.60	9,507.71	-360.27	-666.80	-354.35	0.33	0.00	-13.26	
9,648.00	2.19	325.11	9,600.66	-357.78	-668.32	-351.85	0.87	0.83	-9.13	
9,742.00	2.55	311.15	9,694.58	-354.93	-670.93	-348.98	0.72	0.38	-14.85	
9,835.00	0.52	319.70	9,787.54	-353.25	-672.76	-347.28	2.19	-2.18	9.19	
9,929.00	1.31	144.79	9,881.54	-353.80	-672.41	-347.83	1.95	0.84	-186.07	
10,022.00	1.78	155.59	9,974.50	-355.99	-671.20	-350.03	0.59	0.51	11.61	
10,116.00	1.63	109.25	10,068.47	-357.76	-669.34	-351.81	1.43	-0.16	-49.30	
10,210.00	2.31	127.59	10,162.41	-359.35	-666.57	-353.43	0.98	0.72	19.51	
10,302.00	3.84	135.78	10,254.28	-362.69	-662.96	-356.81	1.73	1.66	8.90	
10,396.00	2.95	140.31	10,348.11	-366.81	-659.22	-360.96	0.99	-0.95	4.82	
10,490.00	0.68	153.54	10,442.06	-369.17	-657.42	-363.33	2.44	-2.41	14.07	
10,583.00	1.30	306.25	10,535.05	-369.04	-658.03	-363.20	2.07	0.67	164.20	
10,677.00	1.09	312.70	10,629.03	-367.80	-659.54	-361.95	0.26	-0.22	6.86	
10,770.00	0.79	318.64	10,722.02	-366.72	-660.62	-360.86	0.34	-0.32	6.39	
10,864.00	0.70	304.79	10,816.01	-365.91	-661.52	-360.03	0.21	-0.10	-14.73	
10,957.00	0.48	271.24	10,909.01	-365.58	-662.37	-359.69	0.43	-0.24	-36.08	
11,051.00	1.34	258.62	11,002.99	-365.78	-663.85	-359.89	0.93	0.91	-13.43	
11,145.00	3.37	258.00	11,096.91	-366.58	-667.63	-360.65	2.16	2.16	-0.66	
11,238.00	2.64	255.79	11,189.78	-367.67	-672.38	-361.70	0.79	-0.78	-2.38	
11,331.00	3.35	249.66	11,282.65	-369.14	-677.00	-363.13	0.84	0.76	-6.59	
11,425.00	0.97	164.08	11,376.59	-370.86	-679.36	-364.83	3.63	-2.53	-91.04	
11,519.00	0.68	133.85	11,470.58	-372.01	-678.74	-365.99	0.55	-0.31	-32.16	
11,612.00	0.38	212.99	11,563.58	-372.65	-678.51	-366.63	0.77	-0.32	85.10	
11,706.00	0.87	258.89	11,657.58	-373.05	-679.38	-367.02	0.71	0.52	48.83	
11,800.00	1.10	268.59	11,751.56	-373.21	-680.98	-367.16	0.30	0.24	10.32	
11,893.00	1.59	259.38	11,844.54	-373.47	-683.14	-367.41	0.57	0.53	-9.90	
11,987.00	1.44	246.59	11,938.50	-374.18	-685.51	-368.09	0.39	-0.16	-13.61	
12,080.00	0.97	227.69	12,031.48	-375.18	-687.16	-369.07	0.66	-0.51	-20.32	
12,182.00	1.27	319.35	12,133.47	-374.90	-688.54	-368.79	1.59	0.29	89.86	
12,229.00	5.40	343.50	12,180.38	-372.38	-689.50	-366.26	9.09	8.79	51.38	
12,276.00	8.84	349.75	12,227.01	-366.71	-690.77	-360.57	7.49	7.32	13.30	
12,323.00	11.34	350.84	12,273.28	-358.59	-692.15	-352.44	5.33	5.32	2.32	
12,370.00	15.15	0.17	12,319.03	-347.88	-692.87	-341.73	9.27	8.11	19.85	
12,416.00	21.56	0.92	12,362.67	-333.40	-692.72	-327.25	13.94	13.93	1.63	
12,464.00	26.33	4.84	12,406.53	-313.97	-691.68	-307.83	10.47	9.94	8.17	
12,506.13	31.44	8.36	12,443.40	-293.77	-689.29	-287.65	12.79	12.14	8.35	
HL: 12506.13' MD										
12,511.00	32.04	8.70	12,447.55	-291.24	-688.91	-285.12	12.79	12.25	6.99	
12,557.00	36.38	5.79	12,485.58	-265.59	-685.68	-259.50	10.08	9.43	-6.33	

Company:	Matador Resources	Local Co-ordinate Reference:	Well 203H
Project:	Lea County, NM (NAD 27)	TVD Reference:	RKB @ 3285.50usft (Patterson 297)
Site:	Leslie Fed Com	MD Reference:	RKB @ 3285.50usft (Patterson 297)
Well:	203H	North Reference:	Grid
Wellbore:	OH / 64180	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	USA Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,604.00	42.57	3.83	12,521.84	-235.83	-683.21	-229.77	13.43	13.17	-4.17
12,651.00	47.83	2.60	12,554.95	-202.54	-681.36	-196.50	11.34	11.19	-2.62
12,698.00	54.12	1.53	12,584.53	-166.07	-680.06	-160.04	13.50	13.38	-2.28
12,744.00	59.66	0.74	12,609.65	-127.56	-679.31	-121.54	12.13	12.04	-1.72
12,791.00	65.30	358.21	12,631.36	-85.91	-679.71	-79.88	12.91	12.00	-5.38
12,885.00	75.55	356.29	12,662.81	2.43	-684.00	8.49	11.07	10.90	-2.04
12,932.00	79.78	355.57	12,672.85	48.22	-687.26	54.31	9.12	9.00	-1.53
12,979.00	86.22	355.98	12,678.58	94.72	-690.70	100.84	13.73	13.70	0.87
13,026.00	92.41	356.16	12,679.14	141.58	-693.92	147.73	13.18	13.17	0.38
13,121.00	93.42	356.84	12,674.31	236.28	-699.71	242.47	1.28	1.06	0.72
13,215.00	94.20	357.01	12,668.06	329.94	-704.74	336.17	0.85	0.83	0.18
13,310.00	94.71	357.09	12,660.68	424.53	-709.61	430.80	0.54	0.54	0.08
13,405.00	93.86	358.18	12,653.58	519.18	-713.52	525.48	1.45	-0.89	1.15
13,500.00	93.72	0.16	12,647.30	613.96	-714.90	620.26	2.08	-0.15	2.08
13,594.00	92.52	359.70	12,642.19	707.81	-715.01	714.12	1.37	-1.28	-0.49
13,689.00	91.54	2.35	12,638.82	802.73	-713.31	809.02	2.97	-1.03	2.79
13,784.00	91.34	3.34	12,636.43	897.58	-708.60	903.82	1.06	-0.21	1.04
13,879.00	91.90	1.68	12,633.75	992.45	-704.44	998.65	1.84	0.59	-1.75
13,974.00	91.85	2.20	12,630.64	1,087.34	-701.22	1,093.51	0.55	-0.05	0.55
14,069.00	91.79	1.51	12,627.62	1,182.24	-698.15	1,188.38	0.73	-0.06	-0.73
14,163.00	94.14	1.54	12,622.76	1,276.08	-695.65	1,282.19	2.50	2.50	0.03
14,258.00	94.48	1.85	12,615.62	1,370.77	-692.85	1,376.85	0.48	0.36	0.33
14,353.00	95.02	2.30	12,607.75	1,465.38	-689.42	1,471.43	0.74	0.57	0.47
14,447.00	93.41	3.15	12,600.85	1,559.02	-684.97	1,565.02	1.94	-1.71	0.90
14,542.00	88.15	2.11	12,599.55	1,653.87	-680.61	1,659.84	5.64	-5.54	-1.09
14,637.00	88.74	357.96	12,602.13	1,748.82	-680.55	1,754.78	4.41	0.62	-4.37
14,731.00	89.13	356.01	12,603.88	1,842.66	-685.49	1,848.66	2.12	0.41	-2.07
14,826.00	89.75	354.90	12,604.81	1,937.36	-693.02	1,943.42	1.34	0.65	-1.17
14,921.00	88.82	355.52	12,605.99	2,032.02	-700.95	2,038.15	1.18	-0.98	0.65
15,015.00	90.92	356.61	12,606.21	2,125.79	-707.40	2,131.97	2.52	2.23	1.16
15,110.00	92.13	358.70	12,603.68	2,220.67	-711.29	2,226.88	2.54	1.27	2.20
15,205.00	92.80	358.67	12,599.59	2,315.56	-713.47	2,321.79	0.71	0.71	-0.03
15,300.00	92.66	358.67	12,595.07	2,410.42	-715.67	2,416.67	0.15	-0.15	0.00
15,394.00	92.91	1.07	12,590.50	2,504.30	-715.88	2,510.55	2.56	0.27	2.55
15,489.00	91.43	1.90	12,586.90	2,599.20	-713.42	2,605.42	1.79	-1.56	0.87
15,584.00	92.15	3.03	12,583.93	2,694.06	-709.34	2,700.24	1.41	0.76	1.19
15,678.00	92.55	3.68	12,580.08	2,787.82	-703.84	2,793.95	0.81	0.43	0.69
15,773.00	89.61	3.87	12,578.29	2,882.59	-697.59	2,888.66	3.10	-3.09	0.20
15,869.00	88.57	2.48	12,579.81	2,978.43	-692.27	2,984.44	1.81	-1.08	-1.45
15,964.00	92.52	4.47	12,578.91	3,073.23	-686.52	3,079.19	4.66	4.16	2.09
16,058.00	90.34	2.79	12,576.56	3,167.00	-680.57	3,172.90	2.93	-2.32	-1.79
16,154.00	93.08	3.54	12,573.70	3,262.80	-675.27	3,268.65	2.96	2.85	0.78
16,248.00	89.50	3.10	12,571.58	3,356.60	-669.83	3,362.40	3.84	-3.81	-0.47

Company:	Matador Resources	Local Co-ordinate Reference:	Well 203H
Project:	Lea County, NM (NAD 27)	TVD Reference:	RKB @ 3285.50usft (Patterson 297)
Site:	Leslie Fed Com	MD Reference:	RKB @ 3285.50usft (Patterson 297)
Well:	203H	North Reference:	Grid
Wellbore:	OH / 64180	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	USA Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,343.00	90.70	0.23	12,571.42	3,451.55	-667.07	3,457.32	3.27	1.26	-3.02
16,437.00	91.09	358.26	12,569.95	3,545.53	-668.31	3,551.31	2.14	0.41	-2.10
16,532.00	92.43	356.81	12,567.03	3,640.39	-672.39	3,646.20	2.08	1.41	-1.53
16,628.00	89.55	355.63	12,565.37	3,736.15	-678.72	3,742.02	3.24	-3.00	-1.23
16,722.00	89.52	357.13	12,566.14	3,829.96	-684.66	3,835.87	1.60	-0.03	1.60
16,818.00	88.26	356.78	12,568.00	3,925.80	-689.75	3,931.76	1.36	-1.31	-0.36
16,913.00	87.43	354.48	12,571.57	4,020.45	-696.99	4,026.47	2.57	-0.87	-2.42
17,008.00	90.87	357.21	12,572.98	4,115.17	-703.87	4,121.24	4.62	3.62	2.87
17,103.00	88.43	355.85	12,573.56	4,209.99	-709.62	4,216.11	2.94	-2.57	-1.43
17,197.00	87.93	356.00	12,576.54	4,303.70	-716.29	4,309.88	0.56	-0.53	0.16
17,292.00	89.80	352.14	12,578.43	4,398.15	-726.10	4,404.41	4.51	1.97	-4.06
17,388.00	90.62	352.80	12,578.07	4,493.32	-738.68	4,499.69	1.10	0.85	0.69
17,483.00	90.08	354.24	12,577.49	4,587.71	-749.41	4,594.17	1.62	-0.57	1.52
17,578.00	88.43	354.61	12,578.73	4,682.25	-758.63	4,688.79	1.78	-1.74	0.39
17,673.00	88.57	354.27	12,581.22	4,776.77	-767.83	4,783.38	0.39	0.15	-0.36
17,682.46	88.87	354.37	12,581.43	4,786.18	-768.77	4,792.80	3.38	3.21	1.04
HL: 17682.46' MD									
17,701.00	89.47	354.56	12,581.70	4,804.63	-770.56	4,811.27	3.38	3.21	1.04
Final Phoenix MWD Survey									
17,760.00	89.47	354.56	12,582.24	4,863.36	-776.15	4,870.05	0.00	0.00	0.00
Projection to TD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
197.00	197.00	-0.09	-0.39	First Phoenix MWD Survey
12,506.13	12,443.40	-293.77	-689.29	HL: 12506.13' MD
17,682.46	12,581.43	4,786.18	-768.77	HL: 17682.46' MD
17,701.00	12,581.70	4,804.63	-770.56	Final Phoenix MWD Survey
17,760.00	12,582.24	4,863.36	-776.15	Projection to TD

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name LESLIE FED COM			⁶ Well Number #203H
⁷ OGRID No.		⁸ Operator Name MATADOR PRODUCTION COMPANY			⁹ Elevation 3257'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	17	25-S	35-E	-	390'	SOUTH	584'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	17	25-S	35-E	-	100'	NORTH	1270'	EAST	LEA

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

