

30-025 45434



PHOENIX
TECHNOLOGY SERVICES

February 12, 2019

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

Dear District 1 - Hobbs

Re: Matador Resources
Bruce Keplinger 13 State Com 123H
Lea Co., New Mexico
API #30-025-45434
Job No. 64134

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	
Bruce Manser	123H	194	14,772	1/21/19	2/7/19	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 #: 64134
 Client: Matador Resources
 County & State: Lea, New Mexico
 Well: Bruce Keplinger 13 State Com 123H
 API No: 30-025-45434
 Proposed Direction: 349.53°

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:						Phoenix

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
21-Jan-19	194 ft	0.70°	334.20°

Last Survey Date	Last Survey Depth	INC	AZM
7-Feb-19	14,772 ft	90.03°	359.00°

Survey Instrument Type
Phoenix P-360

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
7-Feb-19	14,839 ft	90.03°	359.00°

CORRECTION INFORMATION

Magnetic Declination Used	6.72 degrees
Grid Convergence Used	0.49 degrees

Corrected to True/Grid North
Grid North

Total Correction	6.23 degrees
------------------	--------------

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

Bruce Manser

Signature

7-Feb

Date



PHOENIX
TECHNOLOGY SERVICES

Matador Resources

**Lea County, NM (NAD 27)
Bruce Keplinger 13 State Com
123H**

OH / 64134

Design: Surveys (Patterson 813)

Standard Survey Report

08 February, 2019



Company:	Matador Resources	Local Co-ordinate Reference:	Well 123H
Project:	Lea County, NM (NAD 27)	TVD Reference:	RKB @ 3693.50usft (Patterson 813)
Site:	Bruce Keplinger 13 State Com	MD Reference:	RKB @ 3693.50usft (Patterson 813)
Well:	123H	North Reference:	Grid
Wellbore:	OH / 64134	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 813)	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	Bruce Keplinger 13 State Com		
Site Position:		Northing:	536,695.45 usft
From:	Lat/Long	Easting:	781,919.19 usft
Position Uncertainty:	1.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 28' 19.80516 N
		Longitude:	103° 25' 9.12756 W
		Grid Convergence:	0.49 °

Well	123H		
Well Position	+N/-S	0.00 usft	Northing: 536,695.87 usft
	+E/-W	0.00 usft	Easting: 781,959.13 usft
Position Uncertainty	1.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 28' 19.80588 N
		Longitude:	103° 25' 8.66136 W
		Ground Level:	3,665.00 usft

Wellbore	OH / 64134		
Magnetics	Model Name	Sample Date	Declination
	MVHD	1/15/2019	(°)
			6.72
			(°)
			60.33
			48,131.46924921

Design	Surveys (Patterson 813)		
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
			359.53

Survey Program	Date 2/8/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
194.00	14,839.00	Phoenix MWD Surveys (OH / 64134)	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
194.00	0.70	334.20	194.00	1.07	-0.52	1.07	0.36	0.36	0.00
First Phoenix MWD Survey									
286.00	1.20	336.89	285.98	2.46	-1.14	2.47	0.55	0.54	2.92
381.00	0.81	333.47	380.97	3.97	-1.83	3.99	0.42	-0.41	-3.60
472.00	0.77	330.38	471.96	5.08	-2.42	5.10	0.06	-0.04	-3.40
563.00	0.84	313.06	562.95	6.07	-3.21	6.09	0.28	0.08	-19.03
655.00	0.32	302.19	654.94	6.67	-3.92	6.70	0.58	-0.57	-11.82
747.00	0.84	282.60	746.94	6.95	-4.79	6.99	0.60	0.57	-21.29
842.00	1.26	277.67	841.92	7.24	-6.51	7.29	0.45	0.44	-5.19
937.00	1.90	265.42	936.89	7.25	-9.11	7.33	0.76	0.67	-12.89

Company:	Matador Resources	Local Co-ordinate Reference:	Well 123H
Project:	Lea County, NM (NAD 27)	TVD Reference:	RKB @ 3693.50usft (Patterson 813)
Site:	Bruce Keplinger 13 State Com	MD Reference:	RKB @ 3693.50usft (Patterson 813)
Well:	123H	North Reference:	Grid
Wellbore:	OH / 64134	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 813)	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)
1,032.00	2.29	264.58	1,031.82	6.95	-12.57	7.05	0.41	0.41	-0.88
1,126.00	2.34	262.48	1,125.75	6.52	-16.34	6.65	0.10	0.05	-2.23
1,220.00	2.41	264.07	1,219.67	6.07	-20.21	6.23	0.10	0.07	1.69
1,410.00	2.74	250.48	1,409.48	4.14	-28.47	4.37	0.36	0.17	-7.15
1,505.00	3.02	241.54	1,504.36	2.18	-32.81	2.45	0.56	0.29	-9.41
1,600.00	3.39	242.99	1,599.21	-0.28	-37.51	0.02	0.40	0.39	1.53
1,614.00	3.43	241.52	1,613.18	-0.67	-38.25	-0.36	0.69	0.29	-10.50
1,707.00	3.36	240.54	1,706.02	-3.34	-43.06	-2.99	0.10	-0.08	-1.05
1,802.00	2.89	238.45	1,800.88	-5.96	-47.53	-5.57	0.51	-0.49	-2.20
1,897.00	2.60	240.20	1,895.77	-8.28	-51.44	-7.87	0.32	-0.31	1.84
1,992.00	2.54	242.69	1,990.67	-10.32	-55.18	-9.87	0.13	-0.06	2.62
2,087.00	2.50	243.96	2,085.58	-12.20	-58.91	-11.72	0.07	-0.04	1.34
2,181.00	2.98	257.56	2,179.48	-13.62	-63.14	-13.11	0.86	0.51	14.47
2,276.00	3.50	264.66	2,274.32	-14.42	-68.44	-13.87	0.69	0.55	7.47
2,370.00	4.01	261.65	2,368.12	-15.17	-74.55	-14.56	0.58	0.54	-3.20
2,464.00	4.79	261.38	2,461.84	-16.23	-81.68	-15.57	0.83	0.83	-0.29
2,559.00	5.58	260.02	2,556.45	-17.63	-90.15	-16.89	0.84	0.83	-1.43
2,654.00	6.34	257.57	2,650.94	-19.56	-99.82	-18.75	0.84	0.80	-2.58
2,749.00	6.03	258.99	2,745.39	-21.64	-109.84	-20.75	0.36	-0.33	1.49
2,843.00	5.57	260.62	2,838.91	-23.33	-119.19	-22.36	0.52	-0.49	1.73
2,937.00	6.06	257.68	2,932.42	-25.13	-128.54	-24.08	0.61	0.52	-3.13
3,032.00	7.14	254.65	3,026.79	-27.76	-139.13	-26.63	1.19	1.14	-3.19
3,128.00	6.66	254.18	3,122.10	-30.86	-150.24	-29.64	0.50	-0.50	-0.49
3,222.00	6.10	255.93	3,215.51	-33.56	-160.33	-32.25	0.63	-0.60	1.86
3,317.00	6.22	258.87	3,309.96	-35.78	-170.28	-34.39	0.36	0.13	3.09
3,411.00	7.19	266.64	3,403.32	-37.11	-181.15	-35.63	1.41	1.03	8.27
3,506.00	6.68	265.66	3,497.63	-37.87	-192.59	-36.31	0.55	-0.54	-1.03
3,600.00	6.23	267.15	3,591.03	-38.54	-203.14	-36.89	0.51	-0.48	1.59
3,695.00	6.23	267.34	3,685.47	-39.04	-213.43	-37.30	0.02	0.00	0.20
3,790.00	6.70	267.26	3,779.87	-39.54	-224.12	-37.72	0.49	0.49	-0.08
3,884.00	6.83	269.18	3,873.21	-39.88	-235.18	-37.97	0.28	0.14	2.04
3,978.00	6.87	261.12	3,966.54	-40.83	-246.33	-38.82	1.02	0.04	-8.57
4,073.00	8.01	248.22	4,060.75	-44.17	-258.09	-42.06	2.12	1.20	-13.58
4,168.00	7.38	250.91	4,154.89	-48.62	-270.00	-46.42	0.76	-0.66	2.83
4,262.00	6.98	248.41	4,248.16	-52.69	-281.02	-50.40	0.54	-0.43	-2.66
4,357.00	6.44	251.46	4,342.50	-56.51	-291.44	-54.14	0.68	-0.57	3.21
4,452.00	6.36	255.57	4,436.91	-59.52	-301.58	-57.06	0.49	-0.08	4.33
4,547.00	5.91	255.06	4,531.37	-62.09	-311.40	-59.55	0.48	-0.47	-0.54
4,642.00	5.99	255.92	4,625.86	-64.56	-320.94	-61.94	0.13	0.08	0.91
4,736.00	6.53	256.89	4,719.30	-66.96	-330.90	-64.26	0.59	0.57	1.03
4,831.00	5.94	257.19	4,813.73	-69.28	-340.96	-66.50	0.62	-0.62	0.32
4,925.00	5.45	259.39	4,907.27	-71.18	-350.09	-68.32	0.57	-0.52	2.34
5,020.00	4.94	260.59	5,001.88	-72.68	-358.56	-69.75	0.55	-0.54	1.26

Company:	Matador Resources	Local Co-ordinate Reference:	Well 123H
Project:	Lea County, NM (NAD 27)	TVD Reference:	RKB @ 3693.50usft (Patterson 813)
Site:	Bruce Keplinger 13 State Com	MD Reference:	RKB @ 3693.50usft (Patterson 813)
Well:	123H	North Reference:	Grid
Wellbore:	OH / 64134	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 813)	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)
5,115.00	6.17	258.91	5,096.43	-74.33	-367.60	-71.33	1.31	1.29	-1.77
5,210.00	6.13	258.17	5,190.88	-76.35	-377.58	-73.27	0.09	-0.04	-0.78
5,305.00	5.93	261.78	5,285.36	-78.09	-387.40	-74.93	0.45	-0.21	3.80
5,400.00	5.40	260.25	5,379.89	-79.55	-396.66	-76.32	0.58	-0.56	-1.61
5,495.00	4.91	260.49	5,474.51	-80.98	-405.08	-77.68	0.52	-0.52	0.25
5,590.00	4.24	257.41	5,569.21	-82.41	-412.51	-79.05	0.75	-0.71	-3.24
5,629.00	3.89	250.51	5,608.11	-83.17	-415.17	-79.79	1.54	-0.90	-17.69
5,774.00	3.62	250.11	5,752.80	-86.37	-424.11	-82.91	0.19	-0.19	-0.28
5,868.00	5.84	273.85	5,846.48	-87.06	-431.67	-83.54	3.10	2.36	25.26
5,963.00	7.28	275.84	5,940.86	-86.12	-442.48	-82.51	1.53	1.52	2.09
6,057.00	8.74	268.26	6,033.94	-85.73	-455.55	-82.02	1.91	1.55	-8.06
6,152.00	9.45	268.91	6,127.74	-86.10	-470.56	-82.26	0.76	0.75	0.68
6,247.00	10.25	260.20	6,221.35	-87.69	-486.69	-83.72	1.78	0.84	-9.17
6,341.00	10.51	259.42	6,313.81	-90.68	-503.36	-86.58	0.31	0.28	-0.83
6,435.00	10.38	259.44	6,406.25	-93.81	-520.11	-89.57	0.14	-0.14	0.02
6,530.00	10.14	260.87	6,499.73	-96.70	-536.78	-92.33	0.37	-0.25	1.51
6,624.00	9.71	261.65	6,592.33	-99.17	-552.79	-94.66	0.48	-0.46	0.83
6,718.00	9.26	262.51	6,685.04	-101.31	-568.13	-96.68	0.50	-0.48	0.91
6,811.00	9.40	262.22	6,776.81	-103.31	-583.08	-98.56	0.16	0.15	-0.31
6,905.00	9.44	260.01	6,869.54	-105.69	-598.27	-100.81	0.39	0.04	-2.35
6,999.00	9.70	254.99	6,962.24	-109.07	-613.51	-104.07	0.93	0.28	-5.34
7,093.00	9.59	253.95	7,054.91	-113.29	-628.69	-108.17	0.22	-0.12	-1.11
7,188.00	9.55	256.34	7,148.59	-117.34	-643.95	-112.09	0.42	-0.04	2.52
7,283.00	9.98	258.61	7,242.21	-120.83	-659.68	-115.45	0.61	0.45	2.39
7,377.00	9.40	258.94	7,334.87	-123.91	-675.20	-118.40	0.62	-0.62	0.35
7,472.00	9.07	255.21	7,428.64	-127.31	-690.05	-121.68	0.72	-0.35	-3.93
7,567.00	9.23	251.73	7,522.43	-131.61	-704.53	-125.86	0.61	0.17	-3.66
7,661.00	9.12	259.36	7,615.23	-135.35	-719.01	-129.49	1.30	-0.12	8.12
7,756.00	9.32	262.76	7,709.00	-137.70	-734.04	-131.72	0.61	0.21	3.58
7,851.00	8.20	258.93	7,802.90	-139.98	-748.32	-133.88	1.33	-1.18	-4.03
7,945.00	7.84	257.61	7,895.98	-142.64	-761.16	-136.44	0.43	-0.38	-1.40
8,040.00	7.60	257.69	7,990.11	-145.37	-773.62	-139.06	0.25	-0.25	0.08
8,134.00	7.32	259.72	8,083.32	-147.76	-785.59	-141.36	0.41	-0.30	2.16
8,228.00	7.11	259.11	8,176.57	-149.93	-797.19	-143.43	0.24	-0.22	-0.65
8,322.00	6.57	260.03	8,269.91	-151.96	-808.20	-145.37	0.59	-0.57	0.98
8,416.00	4.95	250.90	8,363.43	-154.22	-817.33	-147.56	1.97	-1.72	-9.71
8,509.00	2.63	241.44	8,456.22	-156.55	-823.00	-149.84	2.58	-2.49	-10.17
8,603.00	1.73	225.82	8,550.15	-158.57	-825.91	-151.84	1.14	-0.96	-16.62
8,697.00	2.03	216.72	8,644.10	-160.89	-827.92	-154.15	0.45	0.32	-9.68
8,790.00	1.54	205.60	8,737.06	-163.34	-829.45	-156.58	0.64	-0.53	-11.96
8,884.00	1.49	212.13	8,831.02	-165.52	-830.64	-158.75	0.19	-0.05	6.95
8,978.00	1.33	208.82	8,925.00	-167.51	-831.82	-160.73	0.19	-0.17	-3.52
9,072.00	1.44	206.10	9,018.97	-169.52	-832.87	-162.74	0.14	0.12	-2.89

Company:	Matador Resources	Local Co-ordinate Reference:	Well 123H
Project:	Lea County, NM (NAD 27)	TVD Reference:	RKB @ 3693.50usft (Patterson 813)
Site:	Bruce Keplinger 13 State Com	MD Reference:	RKB @ 3693.50usft (Patterson 813)
Well:	123H	North Reference:	Grid
Wellbore:	OH / 64134	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 813)	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)
9,165.00	1.55	190.06	9,111.94	-171.81	-833.60	-165.02	0.46	0.12	-17.25
9,259.00	0.93	170.33	9,205.91	-173.81	-833.69	-167.02	0.79	-0.66	-20.99
9,287.00	0.20	66.50	9,233.91	-174.02	-833.61	-167.23	3.56	-2.61	-370.82
9,366.00	1.07	27.85	9,312.91	-173.31	-833.14	-166.52	1.17	1.10	-48.92
9,413.00	6.00	6.78	9,359.81	-170.48	-832.64	-163.70	10.67	10.49	-44.83
9,461.00	10.96	5.16	9,407.27	-163.44	-831.94	-156.66	10.34	10.33	-3.38
9,508.00	16.26	3.99	9,452.93	-152.42	-831.08	-145.65	11.29	11.28	-2.49
9,555.00	21.24	3.26	9,497.42	-137.35	-830.13	-130.58	10.61	10.60	-1.55
9,602.00	26.26	4.58	9,540.43	-118.47	-828.82	-111.72	10.74	10.68	2.81
9,650.00	30.53	4.05	9,582.64	-95.72	-827.11	-88.98	8.91	8.90	-1.10
9,651.13	30.63	3.93	9,583.62	-95.14	-827.07	-88.40	10.84	9.28	-11.01
HL: 9651.13' MD									
9,697.00	34.98	359.45	9,622.17	-70.32	-826.40	-63.59	10.84	9.47	-9.76
9,745.00	39.85	357.51	9,660.28	-41.18	-827.20	-34.44	10.44	10.15	-4.04
9,792.00	44.49	357.92	9,695.10	-9.66	-828.45	-2.91	9.89	9.87	0.87
9,839.00	49.73	358.63	9,727.08	24.75	-829.48	31.50	11.20	11.15	1.51
9,886.00	55.78	359.97	9,755.52	62.14	-829.92	68.90	13.07	12.87	2.85
9,933.00	59.90	358.35	9,780.53	101.92	-830.51	108.67	9.24	8.77	-3.45
9,980.00	63.30	357.99	9,802.88	143.23	-831.83	150.00	7.27	7.23	-0.77
10,028.00	67.66	358.11	9,822.80	186.87	-833.32	193.65	9.09	9.08	0.25
10,075.00	71.44	358.97	9,839.21	230.88	-834.44	237.67	8.22	8.04	1.83
10,123.00	75.76	1.67	9,852.77	276.91	-834.17	283.70	10.49	9.00	5.63
10,170.00	78.79	1.60	9,863.12	322.73	-832.86	329.51	6.45	6.45	-0.15
10,218.00	85.07	1.46	9,869.85	370.22	-831.59	376.98	13.09	13.08	-0.29
10,313.00	87.98	2.65	9,875.61	464.97	-828.19	471.70	3.31	3.06	1.25
10,407.00	88.32	2.80	9,878.64	558.81	-823.72	565.50	0.40	0.36	0.16
10,502.00	90.19	0.23	9,879.88	653.76	-821.21	660.43	3.35	1.97	-2.71
10,596.00	91.29	359.62	9,878.67	747.75	-821.34	754.42	1.34	1.17	-0.65
10,691.00	89.16	358.46	9,878.29	842.73	-822.93	849.40	2.55	-2.24	-1.22
10,785.00	88.93	358.48	9,879.86	936.68	-825.44	943.37	0.25	-0.24	0.02
10,880.00	89.64	358.14	9,881.04	1,031.63	-828.24	1,038.34	0.83	0.75	-0.36
10,975.00	90.00	358.09	9,881.34	1,126.58	-831.36	1,133.32	0.38	0.38	-0.05
11,070.00	90.70	357.75	9,880.76	1,221.52	-834.81	1,228.27	0.82	0.74	-0.36
11,162.00	89.05	357.97	9,880.96	1,313.45	-838.25	1,320.23	1.81	-1.79	0.24
11,256.00	90.06	357.89	9,881.69	1,407.38	-841.64	1,414.19	1.08	1.07	-0.09
11,350.00	91.48	358.69	9,880.43	1,501.33	-844.45	1,508.16	1.73	1.51	0.85
11,445.00	91.60	359.38	9,877.88	1,596.28	-846.05	1,603.12	0.74	0.13	0.73
11,539.00	90.59	0.08	9,876.08	1,690.26	-846.49	1,697.10	1.31	-1.07	0.74
11,632.00	91.12	0.43	9,874.69	1,783.25	-846.07	1,790.08	0.68	0.57	0.38
11,726.00	91.82	0.69	9,872.28	1,877.21	-845.16	1,884.03	0.79	0.74	0.28
11,819.00	91.41	359.62	9,869.66	1,970.18	-844.90	1,976.99	1.23	-0.44	-1.15
11,913.00	92.01	358.93	9,866.86	2,064.13	-846.09	2,070.95	0.97	0.64	-0.73
12,006.00	91.54	358.71	9,863.97	2,157.06	-848.01	2,163.89	0.56	-0.51	-0.24
12,100.00	90.89	358.52	9,861.98	2,251.01	-850.28	2,257.86	0.72	-0.69	-0.20



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 123H
Project:	Lea County, NM (NAD 27)	TVD Reference:	RKB @ 3693.50usft (Patterson 813)
Site:	Bruce Keplinger 13 State Com	MD Reference:	RKB @ 3693.50usft (Patterson 813)
Well:	123H	North Reference:	Grid
Wellbore:	OH / 64134	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 813)	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)
12,194.00	91.71	358.83	9,859.85	2,344.96	-852.45	2,351.83	0.93	0.87	0.33
12,287.00	91.32	358.62	9,857.39	2,437.91	-854.52	2,444.78	0.48	-0.42	-0.23
12,381.00	91.06	358.59	9,855.44	2,531.86	-856.81	2,538.75	0.28	-0.28	-0.03
12,475.00	88.35	358.40	9,855.92	2,625.81	-859.28	2,632.73	2.89	-2.88	-0.20
12,568.00	87.54	358.16	9,859.26	2,718.71	-862.07	2,725.64	0.91	-0.87	-0.26
12,662.00	88.77	358.23	9,862.28	2,812.62	-865.03	2,819.57	1.31	1.31	0.07
12,756.00	90.00	358.29	9,863.29	2,906.56	-867.88	2,913.54	1.31	1.31	0.06
12,849.00	89.80	358.21	9,863.45	2,999.52	-870.72	3,006.51	0.23	-0.22	-0.09
12,943.00	89.75	358.66	9,863.82	3,093.49	-873.29	3,100.49	0.48	-0.05	0.48
13,037.00	88.38	359.76	9,865.36	3,187.46	-874.58	3,194.48	1.87	-1.46	1.17
13,130.00	87.76	0.02	9,868.49	3,280.41	-874.76	3,287.42	0.72	-0.67	0.28
13,224.00	86.30	0.62	9,873.36	3,374.28	-874.24	3,381.28	1.68	-1.55	0.64
13,317.00	86.10	1.02	9,879.52	3,467.06	-872.91	3,474.06	0.48	-0.22	0.43
13,411.00	86.48	1.24	9,885.61	3,560.85	-871.06	3,567.82	0.47	0.40	0.23
13,504.00	87.48	0.93	9,890.51	3,653.70	-869.30	3,660.66	1.13	1.08	-0.33
13,598.00	87.37	2.24	9,894.73	3,747.57	-866.70	3,754.50	1.40	-0.12	1.39
13,691.00	86.36	2.80	9,899.81	3,840.34	-862.62	3,847.23	1.24	-1.09	0.60
13,785.00	86.98	2.90	9,905.28	3,934.06	-857.96	3,940.92	0.67	0.66	0.11
13,879.00	88.77	3.25	9,908.76	4,027.86	-852.92	4,034.67	1.94	1.90	0.37
13,972.00	89.10	3.38	9,910.49	4,120.68	-847.54	4,127.45	0.38	0.35	0.14
14,066.00	87.53	2.81	9,913.25	4,214.50	-842.47	4,221.22	1.78	-1.67	-0.61
14,160.00	86.56	1.63	9,918.10	4,308.31	-838.83	4,314.99	1.62	-1.03	-1.26
14,253.00	87.03	0.11	9,923.30	4,401.15	-837.42	4,407.82	1.71	0.51	-1.63
14,347.00	87.90	359.44	9,927.46	4,495.05	-837.79	4,501.73	1.17	0.93	-0.71
14,441.00	88.35	359.15	9,930.53	4,588.99	-838.95	4,595.67	0.57	0.48	-0.31
14,534.00	88.97	359.11	9,932.71	4,681.96	-840.36	4,688.65	0.67	0.67	-0.04
14,628.00	89.19	359.03	9,934.22	4,775.93	-841.88	4,782.63	0.25	0.23	-0.09
14,722.00	89.61	359.02	9,935.20	4,869.91	-843.48	4,876.62	0.45	0.45	-0.01
14,772.00	90.03	359.00	9,935.36	4,919.91	-844.35	4,926.62	0.84	0.84	-0.04
Final Phoenix MWD Survey									
14,838.97	90.03	359.00	9,935.32	4,986.87	-845.51	4,993.59	0.00	0.00	0.00
HL: 14838.97' MD									
14,839.00	90.03	359.00	9,935.32	4,986.90	-845.52	4,993.62	0.00	0.00	0.00
Projection to TD									



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 123H
Project:	Lea County, NM (NAD 27)	TVD Reference:	RKB @ 3693.50usft (Patterson 813)
Site:	Bruce Keplinger 13 State Com	MD Reference:	RKB @ 3693.50usft (Patterson 813)
Well:	123H	North Reference:	Grid
Wellbore:	OH / 64134	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 813)	Database:	USA Compass

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
194.00	194.00	1.07	-0.52	First Phoenix MWD Survey
9,651.13	9,583.62	-95.14	-827.07	HL: 9651.13' MD
14,772.00	9,935.36	4,919.91	-844.35	Final Phoenix MWD Survey
14,838.97	9,935.32	4,986.87	-845.51	HL: 14838.97' MD
14,839.00	9,935.32	4,986.90	-845.52	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 70-025-		² Pool Code		³ Pool Name	
⁴ Property Code 327020		⁵ Property Name BRUCE KEPLINGER 13 STATE COM			⁶ Well Number 123H
⁷ GRID No. 228977		⁸ Operator Name MATADOR PRODUCTION COMPANY			⁹ Elevation 3665'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	13	21-S	34-E	-	188'	SOUTH	1431'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	13	21-S	34-E	-	100'	NORTH	2310'	EAST	LEA

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

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.

