

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 02 2016

HOBBS OCD

FEB 29 2016

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

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

RECEIVED 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 30-015-43012	² Pool Code 50371	³ Pool Name PIERCE CROSSING;BONE SPRING
⁴ Property Code 313993	⁵ Property Name TIGER 14-24S-28E RB	⁶ Well Number #124H
⁷ OGRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 2978'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Let Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	24-S	28-E	-	475'	SOUTH	254'	EAST	EDDY

UL or lot no.	Section	Township	Range	Let Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	14	24-S	28-E	-	380'	SOUTH	240'	WEST	EDDY

¹¹ Dedicated Acres 160.00	¹² Joint or Infill	¹³ Consolidation Code	¹⁴ 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.

16				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Chris Carleton</i> Date: <i>3/23/15</i> Printed Name: <i>Chris Carleton</i> E-mail Address: <i>ccarleton@matadorresources.com</i>	
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. Date of Survey: <i>02/26/2015</i> Signature and Seal of Professional Surveyor: <i>Michael B. Brown</i> Certificate Number: <i>18329</i>				19 BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=582742 Y=440824 LAT.: N 32.2116602 LONG.: W 104.0658043	
20 LAST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=582832 Y=440823 LAT.: N 32.2116562 LONG.: W 104.0655133		21 FIRST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=587679 Y=440755 LAT.: N 32.2114348 LONG.: W 104.0498413		22 SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=587753 Y=440850 LAT.: N 32.2116963 LONG.: W 104.0496016	



PHOENIX
TECHNOLOGY SERVICES

HOBBS OCD

FEB 29 2016

RECEIVED

May 8, 2015

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

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 02 2016

Dear District 1 - Hobbs

RECEIVED

Re: Matador Resources
Tiger 14-24S-28E RB # 124H
Eddy Co., New Mexico
API #30-015-43012
Job No. 1513390

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	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Shane King	124H	7,616	12,898	04/29/15	05/03/15	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,

Alva J. Dunigan

Alva J. Dunigan
Operations Administrator

Certified mail receipt number: 7011 1570 0001 4365 0564

Phoenix Technology Services SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1513390

OPERATOR

Matador Resources

WELL NAME

Tiger 14-24S-28E RB #124H

COUNTY & STATE

Eddy County, NM

API WELL NUMBER

30-015-43012

PROPOSED DIRECTION

280.7°

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
7,500 ft	7,493.85 ft	5.52°	254.95°	59.48 S	112.29 W	Surface

FIRST SURVEY DATE	FIRST SURVEY DEPTH		
		INCLIN	AZIMUTH
29-Apr-15	7,616 ft	4.6°	257.8°

SURVEY INSTRUMENT

TYPE

Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH		
		INCLIN	AZIMUTH
3-May-15	12,898 ft	95.0°	270.8°

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

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH		
		INCLIN	AZIMUTH
3-May-15	12,975 ft	95.0°	270.8°

Shane King

PRINT YOUR NAME ABOVE

Shane King

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.32
DECLINATION OR GRID	GRID

4-May-15

TODAY'S DATE

MWD SUPERVISOR 1

Shane King

DIRECTIONAL DRILLER 1

Brent Shipley

MWD SUPERVISOR 2

Seth Mollerup

DIRECTIONAL DRILLER 2

Dustin Barnett

12329 Cutten Road Houston, Texas 77066

(713)337-0600 (Voice), (713)337-0599 (Fax)

HOBBS OCD

FEB 29 2016

RECEIVED



Matador Resources

Eddy County, New Mexico (NAD27 NME)

Tiger 14-24S-28E RB

#124H

WB1 / Job #1513390

Survey: Phoenix MWD Surveys

Standard Survey Report

04 May, 2015





Survey Report



Company:	Malador Resources	Local Co-ordinate Reference:	Well #124H
Project:	Eddy County, New Mexico (NAD27 NME)	TVD Reference:	KB @ 3005.50usft (Patterson 297)
Site:	Tiger 14-24S-28E RB	MD Reference:	KB @ 3005.50usft (Patterson 297)
Well:	#124H	North Reference:	Grid
Wellbore:	WB1 / Job #1513390	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Project	Eddy County, New Mexico (NAD27 NME)		
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		Tiger 14-24S-28E RB				
Site Position:		Northing:	440,880.00 usft	Latitude:	32° 12' 42.40019 N	
From:	Map	Easting:	587,752.00 usft	Longitude:	104° 2' 58.57422 W	
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	#124H					
Well Position	+N/-S	0.00 usft	Northing:	440,850.00 usft	Latitude:	32° 12' 42.10328 N
	+E/-W	0.00 usft	Easting:	587,753.00 usft	Longitude:	104° 2' 58.56350 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	2,978.00 usft

Wellbore	WB1 / Job #1513390				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/15/2015	7.47	60.08	48,309

Design		Surveys (Patterson 297)			
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	270.80	

Survey Program	Date 5/4/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
750.00	7,500.00	VES Gyro Survey (WB1 / Job #1513390)	NS-GYRO-MS	North sensing gyrocompassing m/s
7,616.00	12,975.00	Phoenix MWD Surveys (WB1 / Job #1513)	PHX+MWD+HDGM	PHX+MWD+HDGM

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)
7,500.00	5.52	254.95	7,493.85	-59.48	-112.29	111.45	0.00	0.00	0.00
Tie-in to VES Gyros									
7,616.00	4.60	257.80	7,609.39	-61.91	-122.22	121.35	0.82	-0.79	2.46
First Phoenix Survey									
7,710.00	5.30	238.60	7,703.05	-64.97	-129.61	128.70	1.90	0.74	-20.43
7,741.00	6.10	243.50	7,733.90	-66.45	-132.31	131.37	3.02	2.58	15.81
7,772.00	8.30	254.10	7,764.65	-67.80	-135.94	134.98	8.26	7.10	34.19
7,804.00	11.10	255.60	7,796.19	-69.20	-141.14	140.16	8.78	8.75	4.69
7,835.00	14.20	256.10	7,826.43	-70.85	-147.73	146.72	10.01	10.00	1.61



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #124H
Project:	Eddy County, New Mexico (NAD27 NME)	TVD Reference:	KB @ 3005.50usft (Patterson 297)
Site:	Tiger 14-24S-28E RB	MD Reference:	KB @ 3005.50usft (Patterson 297)
Well:	#124H	North Reference:	Grid
Wellbore:	WB1 / Job #1513390	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

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)
7,866.00	17.40	257.10	7,856.26	-72.80	-155.94	154.91	10.36	10.32	3.23
7,897.00	19.70	257.80	7,885.65	-74.94	-165.56	164.50	7.45	7.42	2.26
7,928.00	22.20	258.90	7,914.59	-77.17	-176.42	175.33	8.16	8.06	3.55
7,959.00	24.00	261.90	7,943.11	-79.19	-188.41	187.29	6.94	5.81	9.68
7,991.00	24.70	264.80	7,972.26	-80.71	-201.51	200.37	4.33	2.19	9.06
8,022.00	25.70	268.00	8,000.31	-81.54	-214.68	213.52	5.45	3.23	10.32
8,053.00	27.10	268.90	8,028.08	-81.91	-228.46	227.29	4.70	4.52	2.90
8,084.00	29.00	268.50	8,055.44	-82.24	-243.03	241.86	6.16	6.13	-1.29
8,115.00	31.70	268.80	8,082.19	-82.61	-258.69	257.51	8.72	8.71	0.97
8,147.00	34.40	269.10	8,109.01	-82.92	-276.14	274.95	8.45	8.44	0.94
8,178.00	37.00	269.40	8,134.18	-83.16	-294.22	293.03	8.41	8.39	0.97
8,209.00	40.10	269.10	8,158.42	-83.41	-313.54	312.34	10.02	10.00	-0.97
8,240.00	42.50	268.90	8,181.71	-83.77	-333.99	332.79	7.75	7.74	-0.65
8,272.00	45.50	268.60	8,204.72	-84.26	-356.21	355.00	9.40	9.38	-0.94
8,303.00	48.00	268.70	8,225.96	-84.79	-378.79	377.57	8.07	8.06	0.32
8,334.00	50.60	269.40	8,248.18	-85.18	-402.28	401.05	8.56	8.39	2.26
8,365.00	53.70	270.10	8,265.20	-85.28	-426.76	425.53	10.16	10.00	2.26
8,397.00	57.30	270.70	8,283.32	-85.09	-453.12	451.89	11.36	11.25	1.88
8,428.00	60.90	271.00	8,299.23	-84.70	-479.72	478.49	11.64	11.61	0.97
8,459.00	64.40	271.20	8,313.47	-84.17	-507.24	506.02	11.30	11.29	0.65
8,490.00	68.60	271.10	8,325.83	-83.60	-535.66	534.44	13.55	13.55	-0.32
8,521.00	72.40	270.60	8,336.18	-83.17	-564.87	563.66	12.35	12.26	-1.61
8,553.00	75.80	269.90	8,344.94	-83.03	-595.64	594.43	10.83	10.63	-2.19
8,584.00	79.70	269.50	8,351.52	-83.19	-625.93	624.71	12.64	12.58	-1.29
8,615.00	82.40	269.50	8,356.34	-83.46	-656.55	655.32	8.71	8.71	0.00
8,646.00	85.30	269.10	8,359.66	-83.84	-687.37	686.13	9.44	9.35	-1.29
8,685.00	87.00	269.20	8,362.28	-84.41	-726.27	725.02	4.37	4.36	0.26
8,778.00	91.20	269.60	8,363.74	-85.39	-819.23	817.98	4.54	4.52	0.43
8,872.00	92.50	269.10	8,360.71	-86.45	-913.18	911.88	1.48	1.38	-0.53
8,966.00	93.80	268.90	8,355.54	-88.09	-1,007.02	1,005.69	1.40	1.38	-0.21
9,059.00	93.90	269.20	8,349.30	-89.63	-1,099.80	1,098.44	0.34	0.11	0.32
9,153.00	93.10	268.90	8,343.56	-91.18	-1,193.61	1,192.22	0.91	-0.85	-0.32
9,246.00	92.10	268.00	8,339.34	-93.70	-1,286.47	1,285.04	1.45	-1.08	-0.97
9,340.00	89.30	270.10	8,338.19	-95.26	-1,380.44	1,378.98	3.72	-2.98	2.23
9,434.00	87.60	270.70	8,340.74	-94.60	-1,474.40	1,472.94	1.92	-1.81	0.64
9,527.00	85.50	271.00	8,346.33	-93.22	-1,567.22	1,565.76	2.28	-2.26	0.32
9,621.00	85.10	272.00	8,354.03	-90.77	-1,660.87	1,659.44	1.14	-0.43	1.06
9,715.00	87.30	272.30	8,360.26	-87.25	-1,754.59	1,753.20	2.36	2.34	0.32
9,808.00	91.00	274.10	8,361.64	-82.06	-1,847.41	1,846.09	4.42	3.98	1.94
9,902.00	92.80	274.10	8,358.53	-75.34	-1,941.12	1,939.88	1.91	1.91	0.00
9,995.00	95.00	273.90	8,352.20	-68.87	-2,033.67	2,032.51	2.38	2.37	-0.22
10,089.00	94.50	272.70	8,344.42	-63.48	-2,127.19	2,126.10	1.38	-0.53	-1.28
10,182.00	93.90	272.90	8,337.61	-58.95	-2,219.83	2,218.79	0.68	-0.65	0.22



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #124H
Project:	Eddy County, New Mexico (NAD27 NME)	TVD Reference:	KB @ 3005.50usft (Patterson 297)
Site:	Tiger 14-24S-28E RB	MD Reference:	KB @ 3005.50usft (Patterson 297)
Well:	#124H	North Reference:	Grid
Wellbore:	WB1 / Job #1513390	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

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)
10,276.00	96.00	272.10	8,329.50	-54.86	-2,313.38	2,312.39	2.39	2.23	-0.85
10,370.00	95.20	272.50	8,320.32	-51.11	-2,406.86	2,405.91	0.95	-0.85	0.43
10,463.00	94.50	272.40	8,312.46	-47.15	-2,499.44	2,498.54	0.76	-0.75	-0.11
10,557.00	93.20	272.00	8,306.15	-43.55	-2,593.16	2,592.29	1.45	-1.38	-0.43
10,651.00	93.60	271.70	8,300.57	-40.52	-2,686.94	2,686.11	0.53	0.43	-0.32
10,744.00	91.20	270.90	8,296.68	-38.41	-2,779.83	2,779.02	2.72	-2.58	-0.86
10,838.00	90.70	270.50	8,295.12	-37.26	-2,873.81	2,873.01	0.68	-0.53	-0.43
10,932.00	91.60	271.10	8,293.23	-35.95	-2,967.78	2,968.99	1.15	0.96	0.64
11,025.00	92.40	271.50	8,289.99	-33.84	-3,060.70	3,059.93	0.96	0.86	0.43
11,119.00	94.30	271.10	8,284.50	-31.71	-3,154.51	3,153.76	2.07	2.02	-0.43
11,213.00	95.50	270.70	8,276.47	-30.24	-3,248.15	3,247.41	1.35	1.28	-0.43
11,306.00	97.10	270.40	8,266.26	-29.35	-3,340.58	3,339.85	1.75	1.72	-0.32
11,400.00	96.70	270.10	8,254.97	-28.95	-3,433.90	3,433.16	0.53	-0.43	-0.32
11,494.00	94.90	271.20	8,245.47	-27.88	-3,527.41	3,526.67	2.24	-1.91	1.17
11,587.00	93.60	271.10	8,238.58	-26.02	-3,620.13	3,619.41	1.40	-1.40	-0.11
11,681.00	90.90	270.40	8,234.89	-24.79	-3,714.04	3,713.33	2.97	-2.87	-0.74
11,775.00	90.20	270.00	8,233.99	-24.47	-3,808.03	3,807.32	0.86	-0.74	-0.43
11,868.00	90.70	269.60	8,233.26	-24.79	-3,901.03	3,900.30	0.69	0.54	-0.43
11,962.00	91.50	270.00	8,231.45	-25.12	-3,995.01	3,994.27	0.95	0.85	0.43
12,055.00	90.70	270.60	8,229.67	-24.63	-4,087.99	4,087.25	1.08	-0.86	0.65
12,149.00	90.40	271.30	8,228.76	-23.07	-4,181.97	4,181.24	0.81	-0.32	0.74
12,243.00	91.40	271.30	8,227.29	-20.94	-4,275.94	4,275.23	1.06	1.06	0.00
12,336.00	92.90	271.50	8,223.80	-18.67	-4,368.84	4,368.16	1.63	1.61	0.22
12,430.00	92.40	272.30	8,219.45	-15.56	-4,462.69	4,462.04	1.00	-0.53	0.85
12,524.00	91.90	272.30	8,215.93	-11.79	-4,556.55	4,555.94	0.53	-0.53	0.00
12,617.00	92.70	272.10	8,212.19	-8.22	-4,649.40	4,648.83	0.89	0.86	-0.22
12,711.00	94.00	271.80	8,206.70	-5.03	-4,743.19	4,742.65	1.42	1.38	-0.32
12,804.00	94.70	271.10	8,199.65	-2.68	-4,835.89	4,835.38	1.06	0.75	-0.75
12,898.00	95.00	270.80	8,191.70	-1.13	-4,929.54	4,929.04	0.45	0.32	-0.32
Final Phoenix Survey									
12,975.00	95.00	270.80	8,184.99	-0.06	-5,006.24	5,005.75	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)	
7,500.00	7,493.85	-59.48	-112.29	Tie-in to VES Gyros
7,616.00	7,609.39	-61.91	-122.22	First Phoenix Survey
12,898.00	8,191.70	-1.13	-4,929.54	Final Phoenix Survey
12,975.00	8,184.99	-0.06	-5,006.24	Projection to TD

Checked By: _____ Approved By: _____ Date: _____