



PHOENIX
TECHNOLOGY SERVICES

March 12, 2015

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

RD 3/24/15
Accepted for record
N.O.C.D.

Dear District 2 - Artesia

NM OIL CONSERVATION
ARTESIA DISTRICT

Re: Matador Resources
Tiger 14-24S-28E-RB #224H WB1
Eddy County, New Mexico
API #30-015-42873
Job No. 1512691

MAR 19 2015

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	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Michael Branson	224H	9,814	12,529	01/18/15	02/02/15	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,
Bobbi Jo Jorgensen

Bobbi Jo Jorgensen
Operations Administrator

Certified mail receipt number: 7014 2120 0004 3423 7231

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1512691

OPERATOR

Matador Resources

WELL NAME

Tiger 14-24S-28E RB #224H WB1

COUNTY & STATE

Eddy County, NM

API WELL NUMBER

30-015-42873

PROPOSED DIRECTION

269.13

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
9,680. ft	9,656.96 ft	1.93	145.58	-217.20 ft	188.22 ft	Gyro

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
18-Jan-15	9,814.00 ft	1.40	173.60

SURVEY INSTRUMENT

TYPE

Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
2-Feb-15	12,529.00 ft	87.70	269.70

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

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
2-Feb-15	12,584.00 ft	89.00	271.00

Michael Branson

PRINT YOUR NAME ABOVE

Michael Branson

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.39
DECLINATION OR GRID	GRID

2/2/2015

TODAY'S DATE

MWD SUPERVISOR 1

Michael Branson

DIRECTIONAL DRILLER 1

Van Johnson

MWD SUPERVISOR 2

Shelby Johnson

DIRECTIONAL DRILLER 2

Jon Dunlop

12329 Cutten Rd., Houston, Texas 777066

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



Matador Resources

Eddy County, New Mexico (NAD27)

Tiger 14-24S-28E RB

#224H

Wellbore #1 Job #1512691

Survey: Phoenix MWD Surveys

Standard Survey Report

12 March, 2015

NM OIL CONSERVATION
ARTESIA DISTRICT
MAR 19 2015
RECEIVED





Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #224H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	RKB @ 3002.00usft (Patterson 203)
Site:	Tiger 14-24S-28E RB	MD Reference:	RKB @ 3002.00usft (Patterson 203)
Well:	#224H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1512691	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 203)	Database:	Compass 5000 GCR

Project	Eddy County, New Mexico (NAD27)		
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	#224H					
Well Position	+N/-S	0.00 usft	Northing:	440,880.00 usft	Latitude:	32° 12' 42.40019 N
	+E/-W	0.00 usft	Easting:	587,752.00 usft	Longitude:	104° 2' 58.57422 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	2,977.00 usft	

Wellbore	Wellbore #1 Job #1512691				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2014	1/18/2015	7.54	59.99	48,147

Design	Surveys (Patterson 203)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	270.79	

Survey Program	Date	3/12/2015			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
135.50	9,680.00	VES Gyro Survey (Wellbore #1 Job #1512	NS-GYRO-MS	North sensing gyrocompassing m/s	
9,814.00	12,584.00	Phoenix MWD Surveys (Wellbore #1 Job #	PHX+MWD+BGGM	PHX+MWD+BGGM v3:standard declination	

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)	
9,680.00	1.93	146.58	9,656.96	-217.20	188.22	-191.20	0.00	0.00	0.00	
Tie-in to VES Gyros										
9,814.00	1.40	173.60	9,790.91	-220.71	189.65	-192.67	0.70	-0.40	20.16	
First Phoenix MWD Survey WB#1										
9,846.00	1.40	295.90	9,822.90	-220.93	189.34	-192.37	7.66	0.00	382.19	
9,877.00	5.30	298.00	9,853.84	-220.09	187.73	-190.75	12.58	12.58	6.77	
9,908.00	8.60	300.90	9,884.61	-218.23	184.48	-187.47	10.70	10.65	9.35	
9,939.00	11.70	295.10	9,915.12	-215.70	179.64	-182.60	10.52	10.00	-18.71	
9,971.00	14.90	292.40	9,946.26	-212.76	172.90	-175.81	10.18	10.00	-8.44	



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #224H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	RKB @ 3002.00usft (Patterson 203)
Site:	Tiger 14-24S-28E RB	MD Reference:	RKB @ 3002.00usft (Patterson 203)
Well:	#224H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1512691	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 203)	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)	
10,002.00	18.20	288.50	9,975.97	-209.70	164.62	-167.49	11.23	10.65	-12.58	
10,034.00	21.10	285.00	10,006.11	-206.62	154.31	-157.15	9.78	9.06	-10.94	
10,065.00	23.40	284.60	10,034.80	-203.63	142.97	-145.76	7.44	7.42	-1.29	
10,097.00	25.00	287.10	10,063.98	-200.04	130.35	-133.10	5.94	5.00	7.81	
10,128.00	27.20	286.40	10,091.82	-196.11	117.29	-119.99	7.17	7.10	-2.26	
10,159.00	29.20	285.40	10,119.14	-192.10	103.20	-105.84	6.63	6.45	-3.23	
10,190.00	31.90	285.70	10,145.83	-187.88	88.03	-90.61	8.72	8.71	0.97	
10,221.00	34.30	286.10	10,171.80	-183.24	71.75	-74.27	7.77	7.74	1.29	
10,253.00	36.20	283.40	10,197.93	-178.55	53.89	-56.34	7.68	5.94	-8.44	
10,284.00	37.50	279.30	10,222.74	-174.90	35.67	-38.08	8.97	4.19	-13.23	
10,316.00	40.00	275.30	10,247.70	-172.37	15.81	-18.18	11.05	7.81	-12.50	
10,347.00	42.10	276.30	10,271.08	-170.31	-4.44	2.09	7.10	6.77	3.23	
10,378.00	45.10	275.60	10,293.53	-168.10	-25.70	23.38	9.80	9.68	-2.26	
10,410.00	47.40	276.30	10,315.65	-165.70	-48.69	46.40	7.36	7.19	2.19	
10,441.00	48.20	273.70	10,336.48	-163.70	-71.57	69.30	6.73	2.58	-8.39	
10,472.00	51.50	269.20	10,356.47	-163.13	-95.24	92.98	15.37	10.65	-14.52	
10,504.00	53.80	269.20	10,375.88	-163.48	-120.67	118.41	7.19	7.19	0.00	
10,535.00	55.70	269.90	10,393.77	-163.68	-145.99	143.72	6.40	6.13	2.26	
10,566.00	57.00	271.00	10,410.95	-163.48	-171.79	169.52	5.13	4.19	3.55	
10,598.00	59.30	271.90	10,427.84	-162.79	-198.96	196.70	7.57	7.19	2.81	
10,629.00	62.00	272.20	10,443.03	-161.82	-225.96	223.71	8.75	8.71	0.97	
10,661.00	64.80	272.20	10,457.36	-160.72	-254.55	252.31	8.75	8.75	0.00	
10,706.00	69.00	275.90	10,475.01	-157.78	-295.82	293.62	12.01	9.33	8.22	
10,738.00	74.50	276.10	10,485.03	-154.60	-326.03	323.87	17.20	17.19	0.63	
10,769.00	81.80	276.40	10,491.39	-151.30	-356.17	354.05	23.57	23.55	0.97	
10,800.00	85.70	276.40	10,494.77	-147.86	-386.79	384.71	12.58	12.58	0.00	
10,832.00	86.60	276.70	10,496.92	-144.22	-418.51	416.48	2.96	2.81	0.94	
10,863.00	87.50	276.90	10,498.51	-140.56	-449.25	447.27	2.97	2.90	0.65	
10,895.00	90.00	276.50	10,499.21	-136.82	-481.02	479.09	7.91	7.81	-1.25	
10,927.00	89.80	276.30	10,499.26	-133.26	-512.82	510.94	0.88	-0.63	-0.63	
11,021.00	90.20	277.40	10,499.26	-122.05	-606.15	604.41	1.25	0.43	1.17	
11,115.00	91.70	275.90	10,497.71	-111.16	-699.50	697.90	2.26	1.60	-1.60	
11,209.00	89.80	273.40	10,496.48	-103.54	-793.17	791.67	3.34	-2.02	-2.66	
11,303.00	88.80	271.20	10,497.62	-99.77	-887.08	885.62	2.57	-1.06	-2.34	
11,397.00	90.10	269.40	10,498.53	-99.28	-981.07	979.61	2.36	1.38	-1.91	
11,491.00	89.30	267.60	10,499.02	-101.74	-1,075.03	1,073.52	2.10	-0.85	-1.91	
11,585.00	93.60	268.90	10,496.64	-104.61	-1,168.93	1,167.38	4.78	4.57	1.38	
11,680.00	91.70	268.10	10,492.25	-107.10	-1,263.79	1,262.20	2.17	-2.00	-0.84	
11,774.00	89.50	266.10	10,491.26	-111.85	-1,357.66	1,355.99	3.16	-2.34	-2.13	
11,869.00	92.50	268.60	10,489.61	-116.24	-1,452.52	1,450.78	4.11	3.16	2.63	
11,963.00	95.70	271.80	10,482.88	-115.92	-1,546.26	1,544.51	4.81	3.40	3.40	
12,058.00	93.40	272.50	10,475.35	-112.37	-1,640.88	1,639.18	2.53	-2.42	0.74	
12,152.00	90.60	271.20	10,472.07	-109.34	-1,734.77	1,733.09	3.28	-2.98	-1.38	



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #224H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	RKB @ 3002.00usft (Patterson 203)
Site:	Tiger 14-24S-28E RB	MD Reference:	RKB @ 3002.00usft (Patterson 203)
Well:	#224H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1512691	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 203)	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)	
12,246.00	91.40	269.70	10,470.43	-108.60	-1,828.75	1,827.07	1.81	0.85	-1.60	
12,340.00	83.30	268.90	10,474.77	-109.74	-1,922.56	1,920.86	8.66	-8.62	-0.85	
12,434.00	85.90	266.40	10,483.62	-113.58	-2,016.05	2,014.29	3.83	2.77	-2.66	
12,529.00	87.70	269.70	10,488.92	-116.81	-2,110.83	2,109.02	3.95	1.89	3.47	
Final Phoenix MWD Survey WB#1										
12,584.00	89.00	271.00	10,490.50	-116.47	-2,165.80	2,163.99	3.34	2.36	2.36	
Projection to TD WB#1										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
9,680.00	9,656.96	-217.20	188.22	Tie-in to VES Gyros	
9,814.00	9,790.91	-220.71	189.65	First Phoenix MWD Survey WB#1	
12,529.00	10,488.92	-116.81	-2,110.83	Final Phoenix MWD Survey WB#1	
12,584.00	10,490.50	-116.47	-2,165.80	Projection to TD WB#1	

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

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 TIGER 14-24S-28E RB			⁶ Well Number #224H
⁷ OGRID No.		⁸ Operator Name MATADOR PRODUCTION COMPANY			⁹ Elevation 2977'

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	14	24-S	28-E	-	505'	SOUTH	254'	EAST	EDDY

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	14	24-S	28-E	-	330'	SOUTH	260'	WEST	EDDY

¹² Dedicated Acres 320.00	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.

¹⁶		¹⁷OPERATOR 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>[Signature]</i> Date: 8/17/14 Printed Name: LARRY K. COLEMAN E-mail Address: lcoleman@matadorresources.com
¹⁸SURVEYOR 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. 08/27/2014 Date of Survey Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: 18329		