



PHOENIX
TECHNOLOGY SERVICES

April 15, 2016

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

Dear District 2 - Artesia

Re: Matador Resources
Janie Conner 13-24S-28E RB #204H
Eddy County, New Mexico
API #30-015-43317
Job No. 60018

NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 09 2016

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	
Brian Pittman	204H	8,830	14,444	04/04/16	04/13/16	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,
Claudia Carreon

Claudia Carreon
Operations Administrator

Certified mail receipt number: 7015 0640 0000 9907 5456

Phoenix Technology Services SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 60018

ENERGY COMPANY Matador Resources

WELL NAME Janie Conner 13-24S-28E RB 204H

COUNTY & STATE Eddy County, New Mexico

API WELL NUMBER	30-015-43317
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PROPOSED DIRECTION	90.33°
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TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
8,807.09 ft	8,791.99 ft	2.13°	358.74°	22.31 S	161.36 E	VES Gyro

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
4-Apr-16	8,830.00 ft	1.70°	355.40°

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
13-Apr-16	14,444.00 ft	86.9°	88.1°

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
13-Apr-16	14,525.00 ft	86.9°	88.1°

Brian Pittman

PRINT YOUR NAME ABOVE

Brian Pittman

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.22
DECLINATION OR GRID	GRID

13-Apr-16

TODAY'S DATE

MWD SUPERVISOR 1 Shane King

DIRECTIONAL DRILLER 1

Dustin Barnett

MWD SUPERVISOR 2 Brian Pittman

DIRECTIONAL DRILLER 2

Vinn Adams

12329 Cutten Rd., Houston, Texas 77066 (713)337-0600 (Voice), (713)337-0599 (Fax)



Matador Resources

**Eddy County, NM (NAD27 NME)
Janie Conner 13-24S-28E RB
204H**

OH / Job 60018

Survey: Phoenix MWD Surveys

Standard Survey Report

14 April, 2016

**NM OIL CONSERVATION
ARTESIA DISTRICT**

MAY 09 2016

RECEIVED





Phoenix Technology Services

Survey Report



Company: Matador Resources
 Project: Eddy County, NM (NAD27 NME)
 Site: Janie Conner 13-24S-28E RB
 Well: 204H
 Wellbore: OH / Job 60018
 Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well 204H
 TVD Reference: RKB @ 3005.50usft (Patterson 297)
 MD Reference: RKB @ 3005.50usft (Patterson 297)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Compass 5000 GCR

Project	Eddy County, NM (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	Janie Conner 13-24S-28E RB		
Site Position:		Northing:	440,790.00 usft
From:	Map	Easting:	587,754.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 12' 41.50948 N
		Longitude:	104° 2' 58.55371 W
		Grid Convergence:	0.15 °

Well	204H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 12' 41.21091 N
		Longitude:	104° 2' 58.55644 W
		Ground Level:	2,978.00 usft

Wellbore	OH / Job 60018		
Magnetics	Model Name	Sample Date	Declination
	HDGM	3/21/2016	(°)
			7.37
			Dip Angle
			(°)
			60.07
			Field Strength
			(nT)
			48,242

Design	Surveys (Patterson 297)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N/-S	Tie On Depth:
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			90.33

Survey Program	Date 4/14/2016		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
73.55	8,807.09	VES Gyro Surveys (OH / Job 60018)	ISCWSA-GYRO-3
8,830.00	14,525.00	Phoenix MWD Surveys (OH / Job 60018)	PHX+MWD+HDGM
			Description
			Biaxial Semi-Cont. Gyro
			PHX+OWSG MWD + HDGM

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)	
8,807.09	2.13	358.74	8,791.99	-22.31	161.36	161.49	0.00	0.00	0.00	
Tie-In to VES Gyros										
8,830.00	1.70	355.40	8,814.88	-21.55	161.32	161.44	1.94	-1.88	-14.58	
First Phoenix MWD Survey										
8,924.00	1.00	51.70	8,908.86	-19.65	161.86	161.97	1.51	-0.74	59.89	
9,041.00	0.40	67.60	9,025.85	-18.86	163.03	163.14	0.53	-0.51	13.59	
9,088.00	3.70	77.40	9,072.82	-18.47	164.67	164.77	7.04	7.02	20.85	
9,135.00	9.10	82.90	9,119.51	-17.67	169.84	169.94	11.55	11.49	11.70	
9,182.00	14.20	86.10	9,165.52	-16.82	179.28	179.38	10.93	10.85	6.81	



Phoenix Technology Services

Survey Report



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Local Co-ordinate Reference: Well 204H
 TVD Reference: RKB @ 3005.50usft (Patterson 297)
 MD Reference: RKB @ 3005.50usft (Patterson 297)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
9,228.00	19.40	88.80	9,209.55	-16.28	192.56	192.65	11.43	11.30	5.87
9,275.00	26.00	92.10	9,252.88	-16.49	210.68	210.77	14.30	14.04	7.02
9,322.00	30.20	93.90	9,294.33	-17.67	232.78	232.88	9.12	8.94	3.83
9,369.00	33.30	92.20	9,334.30	-18.97	257.47	257.58	6.86	6.60	-3.62
9,416.00	35.90	91.90	9,372.98	-19.93	284.14	284.25	5.54	5.53	-0.64
9,463.00	39.00	91.60	9,410.29	-20.80	312.70	312.82	6.61	6.60	-0.64
9,510.00	41.40	89.80	9,446.19	-21.16	343.03	343.15	5.67	5.11	-3.83
9,557.00	43.70	88.20	9,480.81	-20.59	374.81	374.92	5.41	4.89	-3.40
9,603.00	46.50	86.80	9,513.28	-19.16	407.35	407.46	6.46	6.09	-3.04
9,650.00	50.50	87.50	9,544.41	-17.42	442.50	442.60	8.58	8.51	1.49
9,697.00	55.10	90.20	9,572.83	-16.69	479.92	480.01	10.80	9.79	5.74
9,744.00	59.70	90.70	9,598.14	-17.01	519.50	519.59	9.83	9.79	1.06
9,791.00	65.90	89.30	9,619.61	-16.99	561.28	561.37	13.45	13.19	-2.98
9,817.00	68.78	88.85	9,629.63	-16.61	585.27	585.35	11.18	11.06	-1.73
FPP Crossing: 9817' MD									
9,838.00	71.10	88.50	9,636.83	-16.15	604.99	605.07	11.18	11.07	-1.67
9,884.00	74.30	87.20	9,650.51	-14.50	648.87	648.94	7.46	6.96	-2.83
9,923.00	76.70	86.80	9,660.28	-12.52	686.57	686.63	6.23	6.15	-1.03
10,052.00	81.70	85.70	9,684.44	-4.23	812.97	812.98	3.97	3.88	-0.85
10,115.00	84.80	87.80	9,691.85	-0.68	875.42	875.41	5.93	4.92	3.33
10,209.00	88.00	88.00	9,697.75	2.75	969.16	969.13	3.41	3.40	0.21
10,304.00	88.30	90.40	9,700.82	4.08	1,064.10	1,064.06	2.54	0.32	2.53
10,398.00	88.40	90.70	9,703.52	3.18	1,158.05	1,158.02	0.34	0.11	0.32
10,492.00	87.90	90.60	9,706.56	2.11	1,252.00	1,251.97	0.54	-0.53	-0.11
10,586.00	87.10	89.80	9,710.66	1.78	1,345.91	1,345.88	1.20	-0.85	-0.85
10,680.00	88.90	88.40	9,713.94	3.26	1,439.83	1,439.79	2.43	1.91	-1.49
10,775.00	90.80	90.00	9,714.19	4.59	1,534.82	1,534.76	2.61	2.00	1.68
10,869.00	90.30	89.90	9,713.28	4.67	1,628.81	1,628.76	0.54	-0.53	-0.11
10,963.00	89.90	90.40	9,713.12	4.42	1,722.81	1,722.76	0.68	-0.43	0.53
11,057.00	89.30	89.80	9,713.78	4.26	1,816.81	1,816.75	0.90	-0.64	-0.64
11,151.00	88.30	88.50	9,715.75	5.65	1,910.77	1,910.71	1.74	-1.06	-1.38
11,245.00	90.10	89.10	9,717.06	7.62	2,004.74	2,004.66	2.02	1.91	0.64
11,339.00	90.00	88.30	9,716.98	9.75	2,098.71	2,098.62	0.86	-0.11	-0.85
11,433.00	91.40	87.90	9,715.83	12.87	2,192.65	2,192.54	1.55	1.49	-0.43
11,527.00	91.50	88.70	9,713.45	15.66	2,286.58	2,286.45	0.86	0.11	0.85
11,622.00	90.30	91.20	9,711.96	15.74	2,381.56	2,381.43	2.92	-1.26	2.63
11,716.00	87.90	91.20	9,713.43	13.77	2,475.52	2,475.40	2.55	-2.55	0.00
11,810.00	89.80	91.30	9,715.32	11.72	2,569.47	2,569.36	2.02	2.02	0.11
11,905.00	90.80	92.10	9,714.82	8.90	2,664.43	2,664.33	1.35	1.05	0.84
11,999.00	88.50	92.70	9,715.40	4.97	2,758.34	2,758.26	2.53	-2.45	0.64
12,094.00	91.30	93.30	9,715.56	-0.01	2,853.20	2,853.15	3.01	2.95	0.63
12,188.00	86.90	92.60	9,717.04	-4.84	2,947.04	2,947.02	4.74	-4.68	-0.74
12,219.00	84.60	92.40	9,719.33	-6.19	2,977.92	2,977.91	7.45	-7.42	-0.65
12,282.00	92.20	95.00	9,721.09	-10.25	3,040.71	3,040.72	12.75	12.06	4.13



Phoenix Technology Services Survey Report



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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)
12,376.00	84.10	95.30	9,724.12	-18.68	3,134.21	3,134.26	8.62	-8.62	0.32
12,470.00	81.10	93.40	9,736.23	-25.75	3,227.14	3,227.24	3.77	-3.19	-2.02
12,565.00	81.90	90.50	9,750.28	-28.95	3,321.03	3,321.14	3.13	0.84	-3.05
12,659.00	86.20	87.60	9,760.02	-27.39	3,414.48	3,414.58	5.51	4.57	-3.09
12,753.00	90.50	87.50	9,762.73	-23.37	3,508.33	3,508.41	4.58	4.57	-0.11
12,847.00	88.30	85.90	9,763.71	-17.96	3,602.16	3,602.21	2.89	-2.34	-1.70
12,942.00	91.30	87.70	9,764.04	-12.66	3,697.00	3,697.01	3.68	3.16	1.89
13,036.00	87.40	82.00	9,765.11	-4.23	3,790.56	3,790.52	7.35	-4.15	-6.06
13,131.00	90.70	86.00	9,766.68	5.69	3,884.99	3,884.90	5.46	3.47	4.21
13,225.00	97.00	86.10	9,760.38	10.52	3,978.60	3,978.48	7.06	6.70	2.23
13,319.00	97.10	91.20	9,748.84	11.09	4,071.88	4,071.75	3.27	0.11	3.30
13,413.00	94.50	98.30	9,739.33	3.34	4,165.01	4,164.92	8.01	-2.77	7.55
13,507.00	89.80	98.30	9,735.80	-10.21	4,257.93	4,257.92	5.00	-5.00	0.00
13,602.00	84.40	94.80	9,740.61	-21.04	4,352.14	4,352.19	6.77	-5.68	-3.68
13,691.00	86.80	91.80	9,747.43	-26.14	4,440.71	4,440.79	4.31	2.70	-3.37
13,785.00	85.60	91.10	9,753.66	-26.52	4,534.47	4,534.56	1.48	-1.28	-0.74
13,879.00	88.70	90.50	9,758.34	-29.83	4,628.34	4,628.43	3.36	3.30	-0.64
13,973.00	90.70	90.40	9,758.83	-30.56	4,722.33	4,722.43	2.13	2.13	-0.11
14,067.00	90.40	90.00	9,757.93	-30.89	4,816.32	4,816.42	0.53	-0.32	-0.43
14,161.00	90.20	89.50	9,757.44	-30.48	4,910.32	4,910.41	0.57	-0.21	-0.53
14,256.00	88.50	89.20	9,758.51	-29.40	5,005.30	5,005.39	1.82	-1.79	-0.32
14,350.00	87.60	88.60	9,761.71	-27.60	5,099.23	5,099.31	1.15	-0.96	-0.64
14,444.00	86.90	88.10	9,766.22	-24.90	5,193.08	5,193.14	0.91	-0.74	-0.53
Final Phoenix MWD Survey - LPP Crossing: 14444' MD									
14,525.00	86.90	88.10	9,770.60	-22.22	5,273.92	5,273.96	0.00	0.00	0.00
Projection to TD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
8,807.09	8,791.99	-22.30	161.34	Tie-in to VES Gyros
8,830.00	8,814.88	-21.54	161.31	First Phoenix MWD Survey
9,817.00	9,629.63	-16.60	585.25	FPP Crossing: 9817' MD
14,444.00	9,766.22	-24.89	5,193.07	Final Phoenix MWD Survey
14,444.00	9,766.22	-24.89	5,193.07	LPP Crossing: 14444' MD
14,525.00	9,770.60	-22.21	5,273.90	Projection to TD

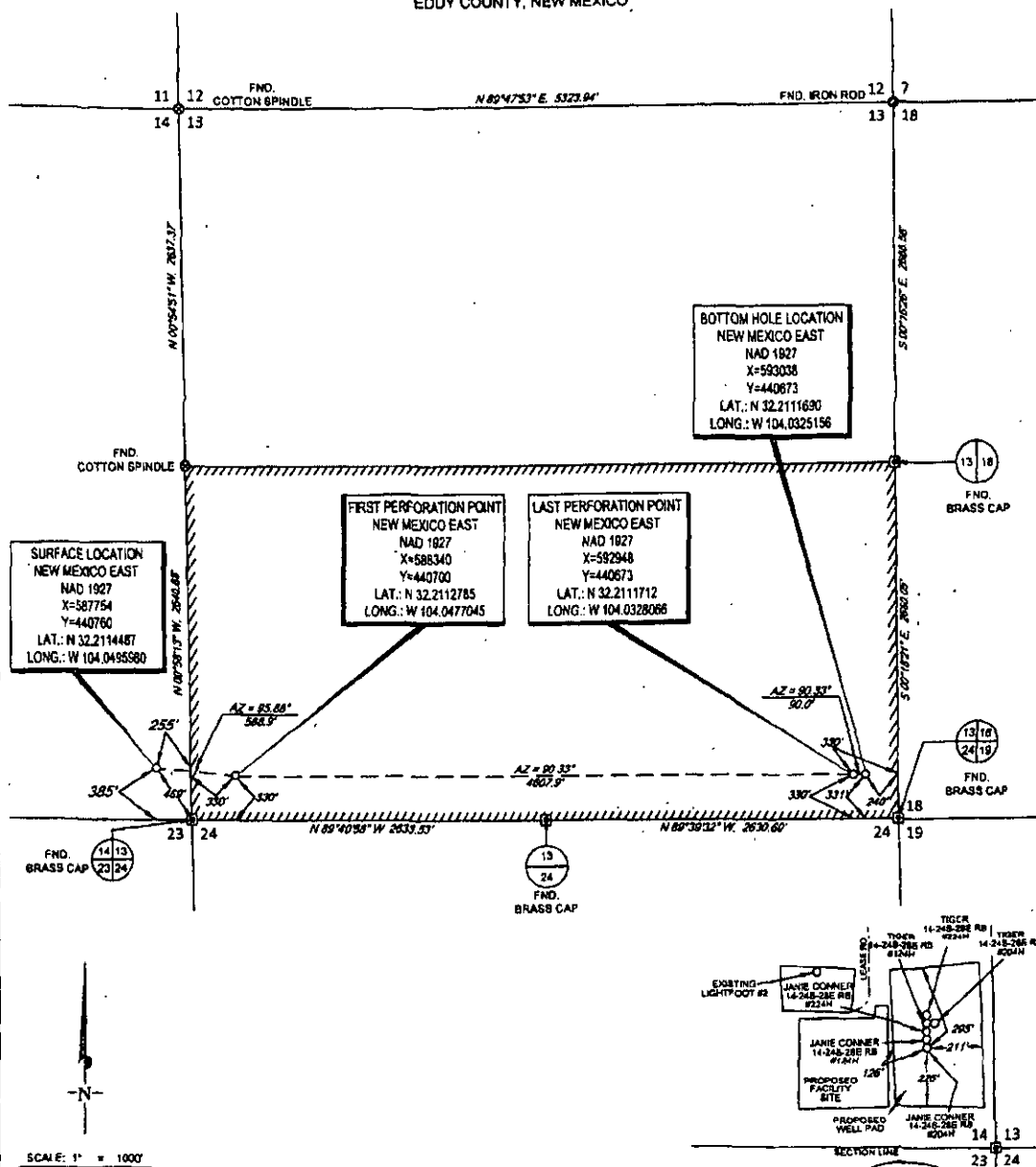
Checked By: _____ Approved By: _____ Date: _____

30-015-43317

8/20 9/1/2015



SECTION 14, TOWNSHIP 24-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



SCALE: 1" = 1000'
0 500 1000'

LEASE NAME & WELL NO.: JANIE CONNER 13-24S-28E RB #204H

SECTION 14 TWP 24-S RGE 28-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 385' FSL & 255' FEL

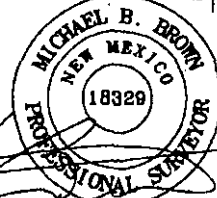
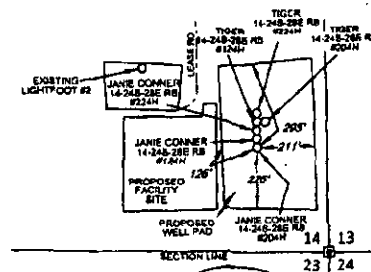
DISTANCE & DIRECTION

FROM INT. OF US-285 & DUARTE RD. GO EAST ON DUARTE RD.
±1.3 MILES, THENCE SOUTH (RIGHT) ON McDONALD RD. ±0.8
MILES, THENCE SOUTH (RIGHT) ON LEASE RD. ±0.1 MILES TO A
POINT ±450 FEET EAST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE
NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

THIS EASEMENT/RIGHT OF 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.

DETAIL VIEW
SCALE: 1" = 500'



Michael Blake Brown, P.S. No. 18329
AUGUST 20, 2015



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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