



PHOENIX
TECHNOLOGY SERVICES

December 11, 2015

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

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 19 2016

Dear District 2 - Artesia

RECEIVED

Re: Matador Resources
Dr. K 24-23S-27E RB #203H
Eddy County, New Mexico
API #30-015-43378
Job No. 1514551

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	
Shane King	203H	8,724	14,078	11/14/15	11/25/15	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,
Claudia Carreon

Claudia Carreon
Operations Administrator

Certified mail receipt number: 7015 0640 0000 9907 5210

Phoenix Technology Services SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1514551

ENERGY COMPANY

Matador Resources

WELL NAME

Dr. K 24-23S-27E RB #203H

COUNTY & STATE

Eddy Co. New Mexico

API WELL NUMBER

30-015-43378

PROPOSED DIRECTION

89.88°

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
8,700.00 ft	8,689.03 ft	10.01°	94.92°	131.58 N	97.96 E	Gyro

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
14-Nov-15	8,724.00 ft	11.50°	92.50°

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
25-Nov-15	14,078.00 ft	92.2°	87.4°

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
25-Nov-15	14,146.00 ft	92.2°	87.4°

Shane King
PRINT YOUR NAME ABOVE

Shane King
SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.44
DECLINATION OR GRID	GRID

11/25/2015
TODAY'S DATE

MWD SUPERVISOR 1

Shane King

DIRECTIONAL DRILLER 1

Dustin Barnett

MWD SUPERVISOR 2

Derek Gillenwater

DIRECTIONAL DRILLER 2

Kevin Ho



NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 19 2016

RECEIVED

Matador Resources

Eddy County, NM (NAD27 NME)

Dr. K 24-23S-27E RB

203H

OH / Job 1514551

Design: Surveys (Patterson 297)

Standard Survey Report

30 November, 2015





Phoenix Technology Services LP

Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 203H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3153.50usft (Patterson 297)
Site:	Dr. K 24-23S-27E RB	MD Reference:	RKB @ 3153.50usft (Patterson 297)
Well:	203H	North Reference:	Grid
Wellbore:	OH / Job 1514551	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	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	Dr. K 24-23S-27E RB		
Site Position:		Northing:	469,008.00 usft
From:	Map	Easting:	555,731.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 17' 21.44697 N
		Longitude:	104° 9' 10.74395 W
		Grid Convergence:	0.10 °

Well	203H		
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° 17' 21.44697 N
		Longitude:	104° 9' 10.74395 W
		Ground Level:	3,126.00 usft

Wellbore	OH / Job 1514551		
Magnetics	Model Name	Sample Date	Declination
	HDGM	11/11/2015	7.53
			Dip Angle
			60.12
			Field Strength
			48,274

Design	Surveys (Patterson 297)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			89.88

Survey Program	Date 11/25/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
75.02	8,700.00	VES Gyro Surveys (OH / Job 1514551)	NS-GYRO-MS
8,700.00	14,146.00	Phoenix MWD Surveys (OH / Job 1514551)	PHX+MWD+HDGM
			Description
			North sensing gyrocompassing m/s
			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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.02	0.35	50.19	75.02	0.15	0.18	0.18	0.47	0.47	0.00
169.80	0.34	58.24	169.80	0.48	0.64	0.64	0.05	-0.01	8.49
264.58	0.36	50.52	264.58	0.82	1.11	1.11	0.05	0.02	-8.15
359.36	0.41	59.01	359.35	1.18	1.63	1.63	0.08	0.05	8.96
454.14	0.34	46.70	454.13	1.55	2.12	2.13	0.11	-0.07	-12.99
548.92	0.61	344.03	548.91	2.23	2.19	2.19	0.58	0.28	-66.12
643.70	1.15	25.39	643.68	3.57	2.46	2.46	0.85	0.57	43.64
738.48	3.43	52.28	738.38	6.17	5.11	5.12	2.60	2.41	28.37
833.26	4.25	60.99	832.95	9.60	10.42	10.44	1.06	0.87	9.19



Phoenix Technology Services LP

Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 203H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3153.50usft (Patterson 297)
Site:	Dr. K 24-23S-27E RB	MD Reference:	RKB @ 3153.50usft (Patterson 297)
Well:	203H	North Reference:	Grid
Wellbore:	OH / Job 1514551	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)
928.04	5.09	59.54	927.41	13.44	17.12	17.15	0.89	0.89	-1.53
1,022.82	5.28	61.75	1,021.80	17.63	24.58	24.62	0.29	0.20	2.33
1,117.60	5.35	59.09	1,116.18	21.97	32.22	32.26	0.27	0.07	-2.81
1,212.38	5.65	57.34	1,210.52	26.76	39.94	39.99	0.36	0.32	-1.85
1,307.16	5.68	54.06	1,304.84	32.03	47.66	47.73	0.34	0.03	-3.46
1,401.94	5.65	48.59	1,399.15	37.86	54.96	55.04	0.57	-0.03	-5.77
1,496.72	5.73	50.80	1,493.47	43.94	62.12	62.22	0.25	0.08	2.33
1,591.50	6.23	56.96	1,587.73	49.74	70.10	70.21	0.86	0.53	6.50
1,686.28	6.37	55.03	1,681.94	55.55	78.72	78.84	0.27	0.15	-2.04
1,781.06	5.20	52.36	1,776.24	61.19	86.43	86.56	1.27	-1.23	-2.82
1,875.84	4.12	55.24	1,870.70	65.75	92.63	92.77	1.17	-1.14	3.04
1,970.62	4.83	53.58	1,965.19	70.06	98.64	98.78	0.76	0.75	-1.75
2,065.40	5.54	54.33	2,059.58	75.10	105.57	105.72	0.75	0.75	0.79
2,160.18	4.90	47.46	2,153.97	80.51	112.26	112.43	0.94	-0.68	-7.25
2,254.96	4.95	36.79	2,248.40	86.52	117.70	117.88	0.97	0.05	-11.26
2,349.74	5.37	27.30	2,342.80	93.73	122.18	122.38	1.00	0.44	-10.01
2,444.52	5.76	19.41	2,437.13	102.16	125.79	126.01	0.91	0.41	-8.32
2,539.30	6.31	12.67	2,531.39	111.73	128.52	128.75	0.95	0.58	-7.11
2,634.08	6.38	15.02	2,625.59	121.90	131.02	131.28	0.28	0.07	2.48
2,728.86	5.43	0.97	2,719.87	131.47	132.46	132.74	1.82	-1.00	-14.82
2,823.64	3.42	9.06	2,814.36	138.74	132.99	133.28	2.22	-2.12	8.54
2,918.42	0.73	328.66	2,909.08	142.05	133.12	133.41	3.06	-2.84	-42.63
3,013.20	0.41	288.50	3,003.85	142.67	132.48	132.78	0.52	-0.34	-42.37
3,107.98	0.41	283.80	3,098.63	142.86	131.83	132.13	0.04	0.00	-4.96
3,202.76	0.36	279.38	3,193.41	142.99	131.21	131.51	0.06	-0.05	-4.66
3,297.54	0.27	303.63	3,288.19	143.17	130.73	131.03	0.17	-0.09	25.59
3,392.32	0.37	277.62	3,382.96	143.33	130.24	130.54	0.18	0.11	-27.44
3,487.10	0.43	245.62	3,477.74	143.22	129.61	129.91	0.24	0.06	-33.76
3,581.88	0.57	240.60	3,572.52	142.84	128.88	129.18	0.15	0.15	-5.30
3,676.66	0.84	223.33	3,667.29	142.11	127.99	128.29	0.36	0.28	-18.22
3,771.44	0.98	241.62	3,762.06	141.22	126.80	127.09	0.34	0.15	19.30
3,866.22	1.05	209.01	3,856.83	140.07	125.67	125.96	0.61	0.07	-34.41
3,961.00	0.92	226.25	3,951.59	138.79	124.69	124.98	0.34	-0.14	18.19
4,055.78	0.79	204.61	4,046.36	137.67	123.87	124.16	0.36	-0.14	-22.83
4,150.56	0.92	207.17	4,141.13	136.40	123.25	123.54	0.14	0.14	2.70
4,245.34	0.81	198.82	4,235.90	135.08	122.69	122.97	0.18	-0.12	-8.81
4,340.12	1.14	185.19	4,330.67	133.51	122.39	122.67	0.42	0.35	-14.38
4,434.90	1.38	205.23	4,425.42	131.54	121.82	122.09	0.53	0.25	21.14
4,529.68	1.30	212.55	4,520.18	129.60	120.75	121.02	0.20	-0.08	7.72
4,624.46	0.32	316.70	4,614.95	128.89	119.99	120.26	1.49	-1.03	109.89
4,719.24	0.47	294.52	4,709.73	129.24	119.46	119.73	0.22	0.16	-23.40
4,814.02	0.56	287.75	4,804.50	129.54	118.66	118.93	0.11	0.09	-7.14
4,908.80	0.56	273.38	4,899.28	129.71	117.76	118.03	0.15	0.00	-15.16



Phoenix Technology Services LP

Survey Report



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Site:	Dr. K 24-23S-27E RB	MD Reference:	RKB @ 3153.50usft (Patterson 297)
Well:	203H	North Reference:	Grid
Wellbore:	OH / Job 1514551	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)
5,003.58	0.62	276.92	4,994.05	129.80	116.79	117.06	0.07	0.06	3.73
5,098.36	0.63	265.48	5,088.83	129.82	115.76	116.03	0.13	0.01	-12.07
5,193.14	0.60	266.25	5,183.60	129.75	114.74	115.01	0.03	-0.03	0.81
5,287.92	0.65	267.36	5,278.38	129.69	113.71	113.98	0.05	0.05	1.17
5,382.70	0.70	258.35	5,373.15	129.55	112.61	112.88	0.12	0.05	-9.51
5,477.48	0.71	247.04	5,467.92	129.20	111.50	111.77	0.15	0.01	-11.93
5,572.26	0.81	235.62	5,562.70	128.60	110.41	110.67	0.19	0.11	-12.05
5,667.04	0.90	237.64	5,657.46	127.82	109.22	109.49	0.10	0.09	2.13
5,761.82	1.34	220.12	5,752.23	126.57	107.88	108.15	0.58	0.46	-18.48
5,856.60	1.97	239.98	5,846.97	124.91	105.76	106.02	0.89	0.66	20.95
5,951.38	1.07	244.02	5,941.71	123.71	103.55	103.81	0.96	-0.95	4.26
6,046.16	1.53	266.66	6,036.47	123.25	101.49	101.75	0.72	0.49	23.89
6,140.94	1.20	258.54	6,131.22	122.98	99.26	99.51	0.40	-0.35	-8.57
6,235.72	2.34	240.81	6,225.96	121.84	96.59	96.85	1.32	1.20	-18.71
6,330.50	1.82	219.03	6,320.67	119.72	93.96	94.21	0.99	-0.55	-22.98
6,425.28	0.65	90.03	6,415.44	118.55	93.55	93.79	2.41	-1.23	-136.10
6,520.06	0.54	26.00	6,510.22	118.95	94.28	94.53	0.67	-0.12	-67.56
6,614.84	0.61	351.29	6,604.99	119.85	94.40	94.65	0.37	0.07	-36.62
6,709.62	0.24	291.06	6,699.77	120.42	94.14	94.39	0.56	-0.39	-63.55
6,804.40	0.64	44.18	6,794.55	120.88	94.32	94.57	0.81	0.42	119.35
6,899.18	0.86	355.73	6,889.32	121.96	94.64	94.89	0.68	0.23	-51.12
6,993.96	1.26	340.49	6,984.08	123.66	94.24	94.49	0.51	0.42	-16.08
7,088.74	1.27	355.17	7,078.84	125.69	93.80	94.06	0.34	0.01	15.49
7,183.52	1.95	13.62	7,173.58	128.30	94.09	94.36	0.89	0.72	19.47
7,278.30	2.21	3.21	7,268.30	131.69	94.57	94.85	0.48	0.27	-10.98
7,373.08	0.27	37.49	7,363.06	133.69	94.81	95.09	2.10	-2.05	36.17
7,467.86	0.71	55.53	7,457.83	134.20	95.43	95.71	0.49	0.46	19.03
7,562.64	1.04	58.67	7,552.60	134.98	96.65	96.93	0.35	0.35	3.31
7,657.42	0.96	52.68	7,647.37	135.91	98.02	98.30	0.14	-0.08	-6.32
7,752.20	0.56	41.00	7,742.14	136.74	98.95	99.24	0.45	-0.42	-12.32
7,846.98	0.25	23.00	7,836.91	137.28	99.34	99.62	0.35	-0.33	-18.99
7,941.76	0.29	13.39	7,931.69	137.71	99.47	99.76	0.06	0.04	-10.14
8,036.54	0.69	238.07	8,026.47	137.64	99.04	99.33	0.97	0.42	-142.77
8,131.32	1.16	240.30	8,121.24	136.86	97.73	98.01	0.50	0.50	2.35
8,226.10	2.70	250.87	8,215.96	135.65	94.78	95.07	1.66	1.62	11.15
8,320.88	2.81	251.97	8,310.63	134.20	90.47	90.75	0.13	0.12	1.16
8,415.66	2.47	245.89	8,405.31	132.65	86.39	86.67	0.46	-0.36	-6.41
8,510.44	1.79	72.06	8,500.07	132.27	85.94	86.21	4.49	-0.72	-183.40
8,605.22	1.47	100.40	8,594.81	132.51	88.54	88.82	0.90	-0.34	29.90
8,700.00	10.01	94.92	8,689.03	131.58	97.96	98.24	9.02	9.01	-5.78
Tie-in to VES Gyros									
8,724.00	11.50	92.50	8,712.61	131.30	102.43	102.70	6.49	6.21	-10.08
First Phoenix Survey									
8,755.00	14.90	93.40	8,742.78	130.92	109.50	109.77	10.99	10.97	2.90



Phoenix Technology Services LP

Survey Report



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Site:	Dr. K 24-23S-27E RB	MD Reference:	RKB @ 3153.50usft (Patterson 297)
Well:	203H	North Reference:	Grid'
Wellbore:	OH / Job 1514551	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)
8,786.00	17.00	94.20	8,772.59	130.36	118.00	118.27	6.81	6.77	2.58
8,817.00	19.90	91.30	8,801.99	129.90	127.79	128.06	9.81	9.35	-9.35
8,849.00	23.00	88.50	8,831.77	129.94	139.49	139.76	10.20	9.69	-8.75
8,880.00	26.30	85.00	8,859.95	130.70	152.39	152.66	11.64	10.65	-11.29
8,911.00	30.50	84.00	8,887.21	132.12	167.06	167.34	13.63	13.55	-3.23
8,942.00	34.10	85.00	8,913.41	133.70	183.55	183.83	11.74	11.61	3.23
8,974.00	37.30	85.80	8,939.39	135.20	202.16	202.44	10.11	10.00	2.50
9,005.00	39.80	87.90	8,963.64	136.25	221.44	221.73	9.10	8.06	6.77
9,036.00	42.20	89.50	8,987.03	136.70	241.77	242.06	8.45	7.74	5.16
9,067.00	44.70	89.80	9,009.53	136.83	263.09	263.38	8.09	8.06	0.97
9,098.00	47.00	89.30	9,031.13	137.01	285.33	285.62	7.51	7.42	-1.61
9,129.00	49.20	88.80	9,051.83	137.39	308.40	308.69	7.20	7.10	-1.61
9,161.00	50.40	88.40	9,072.48	137.99	332.84	333.12	3.87	3.75	-1.25
9,192.00	51.40	87.90	9,092.03	138.77	356.88	357.17	3.46	3.23	-1.61
9,223.00	51.60	87.60	9,111.33	139.72	381.12	381.41	0.99	0.65	-0.97
9,254.00	53.50	87.90	9,130.18	140.68	405.71	406.01	6.18	6.13	0.97
9,286.00	56.20	88.30	9,148.60	141.55	431.86	432.16	8.50	8.44	1.25
9,317.00	58.70	89.20	9,165.28	142.12	457.98	458.28	8.43	8.06	2.90
9,348.00	60.50	90.40	9,180.97	142.21	484.72	485.01	6.70	5.81	3.87
9,379.00	62.20	91.10	9,195.83	141.85	511.92	512.21	5.83	5.48	2.26
9,411.00	64.10	91.40	9,210.28	141.23	540.46	540.76	6.00	5.94	0.94
9,442.00	65.80	91.70	9,223.41	140.47	568.53	568.83	5.55	5.48	0.97
9,473.00	67.10	90.70	9,235.79	139.87	596.94	597.24	5.13	4.19	-3.23
9,504.00	68.40	88.80	9,247.53	140.00	625.63	625.93	7.05	4.19	-6.13
9,535.00	70.50	87.40	9,258.41	140.97	654.64	654.94	7.99	6.77	-4.52
9,567.00	74.00	87.20	9,268.17	142.40	685.08	685.38	10.95	10.94	-0.63
9,695.00	85.00	90.10	9,291.46	145.31	810.70	811.00	8.88	8.59	2.27
9,758.00	86.90	88.70	9,295.91	145.96	873.53	873.83	3.74	3.02	-2.22
9,852.00	86.50	87.70	9,301.32	148.91	967.33	967.64	1.14	-0.43	-1.06
9,947.00	87.20	91.60	9,306.54	149.49	1,062.16	1,062.47	4.16	0.74	4.11
10,041.00	87.60	91.70	9,310.81	146.79	1,156.03	1,156.33	0.44	0.43	0.11
10,135.00	87.80	91.50	9,314.58	144.16	1,249.91	1,250.21	0.30	0.21	-0.21
10,229.00	88.60	91.40	9,317.53	141.79	1,343.84	1,344.13	0.86	0.85	-0.11
10,324.00	87.80	91.60	9,320.52	139.30	1,438.76	1,439.05	0.87	-0.84	0.21
10,418.00	87.10	90.80	9,324.70	137.33	1,532.64	1,532.93	1.13	-0.74	-0.85
10,513.00	87.40	91.20	9,329.26	135.68	1,627.52	1,627.80	0.53	0.32	0.42
10,607.00	88.80	92.40	9,332.37	132.73	1,721.42	1,721.69	1.96	1.49	1.28
10,702.00	88.40	92.00	9,334.70	129.08	1,816.32	1,816.58	0.60	-0.42	-0.42
10,797.00	88.80	91.10	9,337.02	126.51	1,911.25	1,911.51	1.04	0.42	-0.95
10,891.00	88.50	96.10	9,339.23	120.61	2,005.01	2,005.26	5.33	-0.32	5.32
10,984.00	90.90	93.70	9,339.72	112.67	2,097.66	2,097.89	3.65	2.58	-2.58
11,078.00	90.90	91.30	9,338.24	108.57	2,191.55	2,191.77	2.55	0.00	-2.55
11,172.00	89.20	89.10	9,338.16	108.24	2,285.54	2,285.76	2.96	-1.81	-2.34



Phoenix Technology Services LP Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 203H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3153.50usft (Patterson 297)
Site:	Dr. K 24-23S-27E RB	MD Reference:	RKB @ 3153.50usft (Patterson 297)
Well:	203H	North Reference:	Grid
Wellbore:	OH / Job 1514551	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)
11,267.00	88.50	88.30	9,340.07	110.40	2,380.49	2,380.72	1.12	-0.74	-0.84
11,361.00	89.50	87.90	9,341.71	113.51	2,474.43	2,474.66	1.15	1.06	-0.43
11,455.00	88.10	88.20	9,343.68	116.71	2,568.35	2,568.59	1.52	-1.49	0.32
11,549.00	91.00	88.00	9,344.41	119.83	2,662.28	2,662.53	3.09	3.09	-0.21
11,644.00	89.30	87.00	9,344.17	123.97	2,757.19	2,757.44	2.08	-1.79	-1.05
11,739.00	88.00	86.50	9,346.40	129.36	2,852.01	2,852.27	1.47	-1.37	-0.53
11,833.00	92.10	89.80	9,346.32	132.39	2,945.93	2,946.20	5.60	4.36	3.51
11,928.00	92.00	89.90	9,342.92	132.64	3,040.86	3,041.14	0.15	-0.11	0.11
12,022.00	90.00	90.90	9,341.28	131.98	3,134.84	3,135.11	2.38	-2.13	1.06
12,116.00	89.10	91.80	9,342.02	129.77	3,228.81	3,229.08	1.35	-0.96	0.96
12,211.00	86.60	90.80	9,345.59	127.61	3,323.71	3,323.97	2.83	-2.63	-1.05
12,304.00	85.60	90.70	9,351.91	126.40	3,416.49	3,416.74	1.08	-1.08	-0.11
12,399.00	87.20	91.60	9,357.88	124.50	3,511.28	3,511.53	1.93	1.68	0.95
12,493.00	88.00	92.00	9,361.81	121.55	3,605.15	3,605.39	0.95	0.85	0.43
12,588.00	87.50	91.40	9,365.54	118.73	3,700.03	3,700.27	0.82	-0.53	-0.63
12,682.00	89.40	92.70	9,368.08	115.37	3,793.93	3,794.16	2.45	2.02	1.38
12,777.00	86.30	90.90	9,371.65	112.38	3,888.80	3,889.03	3.77	-3.26	-1.89
12,871.00	87.50	90.70	9,376.73	111.07	3,982.65	3,982.88	1.29	1.28	-0.21
12,965.00	87.70	90.00	9,380.67	110.50	4,076.57	4,076.79	0.77	0.21	-0.74
13,060.00	89.30	90.20	9,383.15	110.33	4,171.53	4,171.75	1.70	1.68	0.21
13,154.00	89.70	89.90	9,383.98	110.25	4,265.53	4,265.75	0.53	0.43	-0.32
13,249.00	87.10	89.60	9,386.63	110.67	4,360.48	4,360.70	2.75	-2.74	-0.32
13,343.00	86.90	89.50	9,391.55	111.40	4,454.35	4,454.57	0.24	-0.21	-0.11
13,437.00	86.70	89.40	9,396.79	112.30	4,548.20	4,548.42	0.24	-0.21	-0.11
13,532.00	85.40	89.10	9,403.34	113.55	4,642.96	4,643.19	1.40	-1.37	-0.32
13,627.00	86.40	88.80	9,410.13	115.28	4,737.70	4,737.93	1.10	1.05	-0.32
13,721.00	91.60	87.50	9,411.77	118.32	4,831.60	4,831.84	5.70	5.53	-1.38
13,815.00	92.20	87.30	9,408.65	122.58	4,925.46	4,925.70	0.67	0.64	-0.21
13,909.00	91.80	87.10	9,405.37	127.17	5,019.29	5,019.54	0.48	-0.43	-0.21
14,003.00	91.80	87.30	9,402.42	131.76	5,113.13	5,113.39	0.21	0.00	0.21
14,078.00	92.20	87.40	9,399.80	135.22	5,188.00	5,188.27	0.55	0.53	0.13
Final Phoenix Survey									
14,146.00	92.20	87.40	9,397.19	138.30	5,255.88	5,256.16	0.00	0.00	0.00
Projection to TD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,700.00	8,689.03	131.58	97.96	Tie-in to VES Gyros
8,724.00	8,712.61	131.30	102.43	First Phoenix Survey
14,078.00	9,399.80	135.22	5,188.00	Final Phoenix Survey
14,146.00	9,397.19	138.30	5,255.88	Projection to TD



Phoenix Technology Services LP
Survey Report



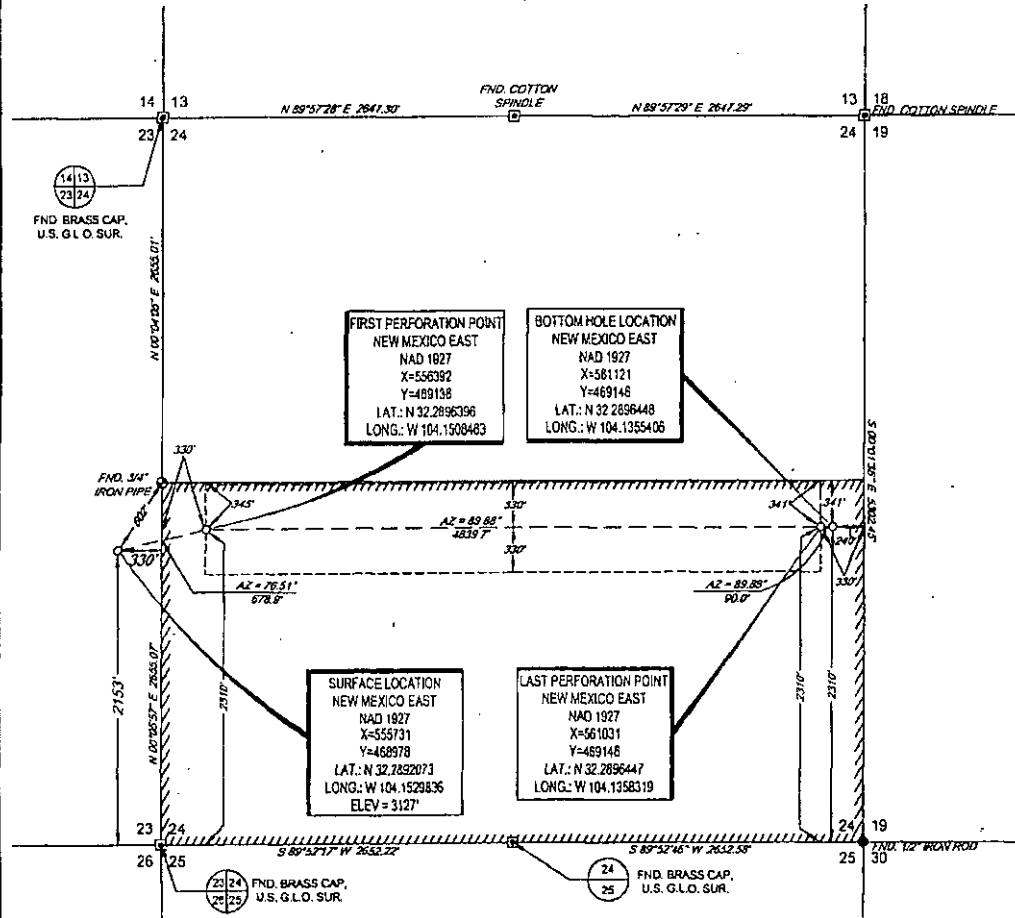
Company:	Matador Resources	Local Co-ordinate Reference:	Well 203H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3153.50usft (Patterson 297)
Site:	Dr. K 24-23S-27E RB	MD Reference:	RKB @ 3153.50usft (Patterson 297)
Well:	203H	North Reference:	Grid
Wellbore:	OH / Job 1514551	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

Checked By: _____ Approved By: _____ Date: _____

30-015-43378



SECTION 23, TOWNSHIP 23-S, RANGE 27-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



SCALE: 1" = 1000'
0' 500' 1000'

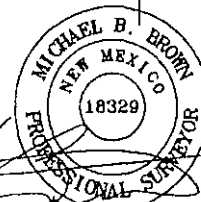
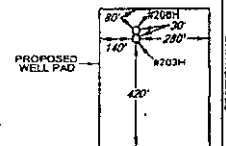
LEASE NAME & WELL NO.: DR. K 24-23S-27E RB #203H
SECTION 23 TWP 23-S RGE 27-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 2153' FSL & 330' FEL

DISTANCE & DIRECTION
FROM INT. OF US-285 & W. CEDAR ST. GO NORTH ON US-285
±0.8 MILES, THENCE WEST ON W. LONDON RD ±3.1 MILES,
THENCE SOUTH ON S. COUNTRY RD. ±0.6 MILES, THENCE EAST
ON E. PROMISE LAND RD. ±0.4 MILES TO A POINT ±1150 FEET
NORTH OF 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 1983, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE 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 13, 2015

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