



MAY 20 2015

JUL 29 2015

May 19, 2015

Matador Production Company
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

15-43087

Attn: Drilling Department

Re: Tiger 14-24S-28E RB 204H

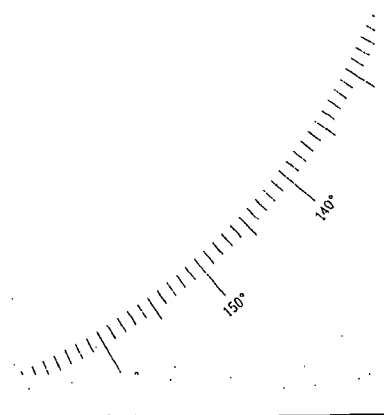
Please find enclosed a copy of the survey from 0' to 560' ran on the above referenced well.

If I can be of any further service, please do not hesitate to call me at 800-606-4976.

Sincerely,

Jennifer Byerly
Operations

VES Survey International
P.O. Box 261021 Corpus Christi, TX 78426
T (361) 767-0602 F (361) 767-0612
www.vessurvey.com



Company: Matador Production Company

Lease/Well: Tiger 14-24S-28E RB/204H

Rig Name: Patterson 297

State/County: New Mexico/Eddy

VS-Azi: 0.00 Degrees

Latitude: 32.21204, Longitude: -104.04962

Grid Convergence Applied = -0.15 degs (NAD 27)

Grid North = True North -0.15 degs



Depth Reference : RKB = 28.5 feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut

Minimum Curvature Method

Report Date/Time: 5/19/2015 / 14:17

VES Survey International

Midland, Texas

432-563-5444

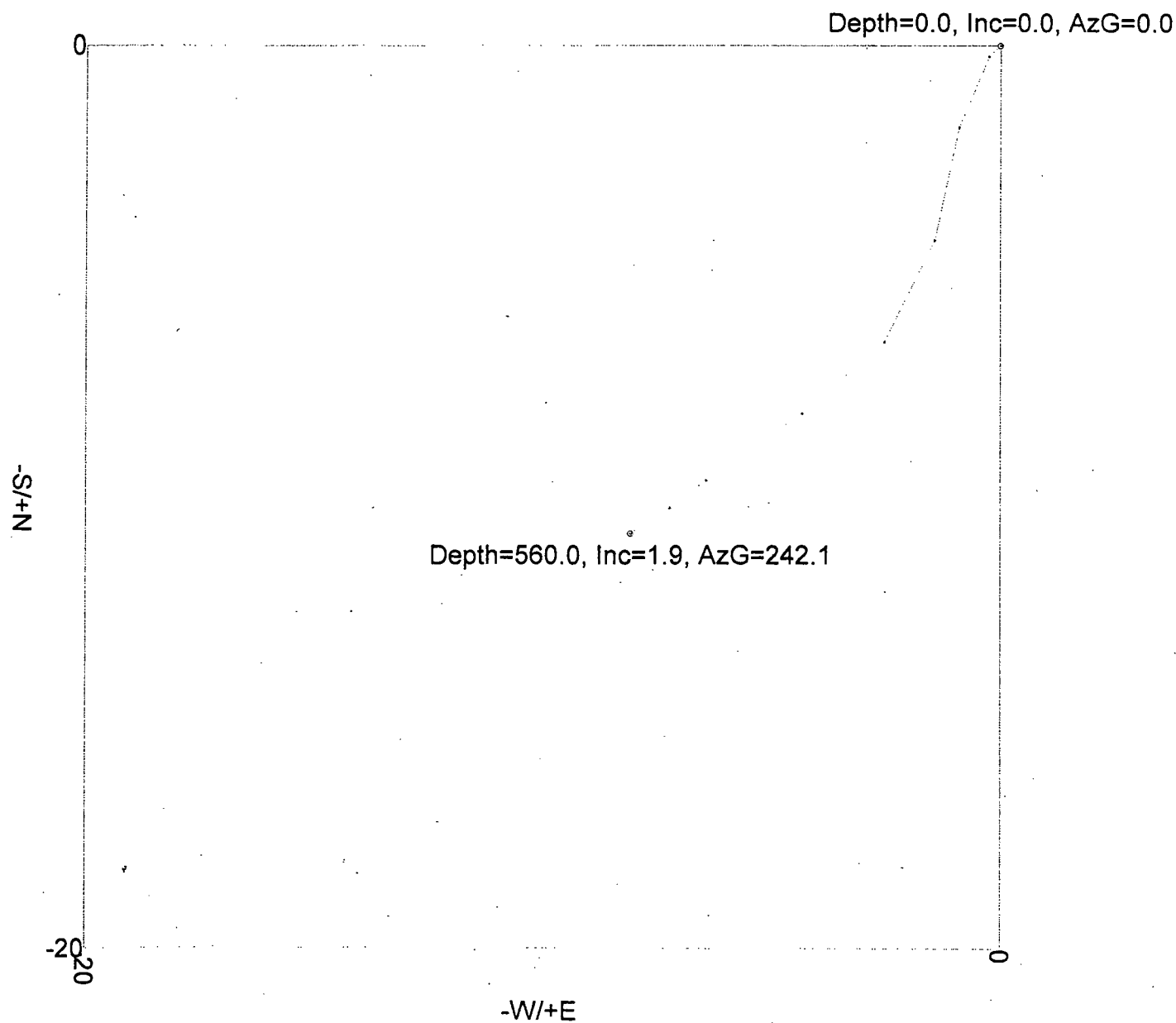
Surveyor: Adam Askew

Tiger 14-24S-28E RB 204H / API 30-015-43087

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
55.50	0.74	225.35	55.50	-0.25	-0.25	-0.25	0.36	225.35	1.33
144.00	1.52	192.01	143.98	-1.80	-0.90	-1.80	2.01	206.70	1.11
232.50	1.78	191.95	232.44	-4.29	-1.43	-4.29	4.52	198.47	0.30
321.00	1.58	220.87	320.91	-6.56	-2.52	-6.56	7.03	200.99	0.98
409.50	1.52	236.25	409.38	-8.14	-4.29	-8.14	9.20	207.82	0.47
498.00	1.79	233.90	497.84	-9.61	-6.39	-9.61	11.54	213.63	0.32
529.00	1.91	230.82	528.82	-10.22	-7.18	-10.22	12.49	215.10	0.48
560.00	1.88	242.08	559.81	-10.78	-8.03	-10.78	13.44	216.68	1.20



VES Survey International
Midland, Texas
432-563-5444
Surveyor: Adam Askew
Tiger 14-24S-28E RB 204H / API 30-015-43087



VES Survey Date: 5/7/2015



I Adam Askew certify that I am employed by Vaughn Energy Services. That I did on the day(s) of 05/08/15 through 05/08/15 conduct or supervise the taking of a MS Gyro survey from a depth of 0 feet to a depth of 560 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Matador for the Tiger 14-24S-28E RB Well # 204H API # 30-015-43087 in Eddy County / Parish New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Vaughn Energy Services

Adam Askew
Service Technician
Vaughn Energy Services

Phoenix Technology Services SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 1513525

ENERGY COMPANY Matador Resources

WELL NAME Tiger 14-24S-28E RB #204H

COUNTY & STATE Eddy County, NM

API WELL NUMBER 30-015-43087

PROPOSED DIRECTION 270:79°

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
560.00 ft	559.81 ft	1.88°	242.08°	-10.78 ft	-8.03 ft	Gyro

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
9-May-15	694.00 ft	1:50°	245.60°

SURVEY INSTRUMENT
TYPE
Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
22-May-15	14,400.00 ft	91.0°	270.4°

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
22-May-15	14,463.00 ft	91.0°	270.4°

Shane King

PRINT YOUR NAME ABOVE

Shane King

SIGN YOUR NAME ABOVE

22-May-15

TODAY'S DATE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.30
DECLINATION OR GRID	GRID

MWD SUPERVISOR 1

Shane King

DIRECTIONAL DRILLER 1

Dustin Barnett

MWD SUPERVISOR 2

Seth Mollerup

DIRECTIONAL DRILLER 2

Van Johnson

12329 Cutten Rd., Houston, Texas 777066

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



May 28, 2015

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

Dear District 2 - Artesia

Re: Matador Resources
Tiger 14-24S-28E RB #204H
Eddy County, New Mexico
API #30-015-43087
Job No. 1513525

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	
Shelby Johnson	224H	11,869	15,264	02/04/15	02/11/15	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 0618



Matador Resources

Eddy County, New Mexico (NAD27 NME)

Tiger 14-24S-28E RB

#204H

Wellbore #1 / Job #1513525

Survey: Phoenix MWD Surveys

Standard Survey Report

23 May, 2015

NM OIL CONSERVATION

ARTESIA DISTRICT

AUG 13 2015

RECEIVED





Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #204H
Project:	Eddy County, New Mexico (NAD27/NME)	TVD Reference:	RKB @ 3005.50usft (Patterson 297)
Site:	Tiger 14-24S-28E RB	MD Reference:	RKB @ 3005.50usft (Patterson 297)
Well:	#204H	North Reference:	Grid
Wellbore:	Wellbore #1 / Job #1513525	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
From:	Map	Easting:	587,752.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 12' 42.40019 N
		Longitude:	104° 2' 58.57422 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' 42.10263 N
		Longitude:	104° 2' 58.27251 W
		Ground Level:	2,978.00 usft

Wellbore:	Wellbore #1 / Job #1513525		
Magnetics	Model Name	Sample Date	Declination
	HDGM	5/6/2015	7.45
			Dip Angle
			60.08
			Field Strength
			48,302

Design:	Surveys (Patterson 297)		
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
			Direction
			(°)
			270.79

Survey Program	Date 5/23/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
55.50	560.00	VES Gyro Surveys (Wellbore #1 / Job #15	NS-GYRO-MS
694.00	14,463.00	Phoenix MWD Surveys (Wellbore #1 / Job	PHX+MWD+HDGM
			Description
			North sensing gyrocompassing m/s
			PHX+MWD+HDGM

Survey	Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	560.00	1.88	242.08	559.81	-10.78	-8.03	7.88	0.00	0.00	0.00
	Tie-in to VES Gyros									
	694.00	1.50	245.60	693.75	-12.53	-11.57	11.39	0.29	-0.28	2.63
	First Phoenix Survey									
	881.00	3.00	61.70	880.68	-11.22	-9.48	9.33	2.41	0.80	94.17
	1,068.00	5.50	49.00	1,067.16	-3.02	1.59	-1.63	1.42	1.34	-6.79
	1,256.00	6.60	34.60	1,254.12	11.78	14.52	-14.36	0.99	0.59	-7.66
	1,349.00	5.80	40.60	1,346.58	19.75	20.62	-20.34	1.11	-0.86	6.45
	1,443.00	4.10	40.30	1,440.22	25.92	25.88	-25.52	1.81	-1.81	-0.32



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #204H
Project:	Eddy County, New Mexico (NAD27 NME)	TVD Reference:	RKB @ 3005.50usft (Patterson 297)
Site:	Tiger 14-24S-28E RB	MD Reference:	RKB @ 3005.50usft (Patterson 297)
Well:	#204H	North Reference:	Grid
Wellbore:	Wellbore #1/ Job #1513525	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

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)
1,537.00	2.50	20.00	1,534.07	30.41	28.76	-28.34	2.08	-1.70	-21.60
1,630.00	2.60	11.00	1,626.97	34.39	29.85	-29.38	0.44	0.11	-9.68
1,724.00	1.80	22.00	1,720.90	37.85	30.81	-30.29	0.96	-0.85	11.70
1,818.00	0.90	43.90	1,814.88	39.75	31.88	-31.33	1.09	-0.96	23.30
1,912.00	1.50	66.90	1,908.86	40.76	33.52	-32.96	0.81	0.64	24.47
2,005.00	2.90	78.70	2,001.79	41.70	36.95	-36.37	1.57	1.51	12.69
2,099.00	4.30	96.10	2,095.60	41.79	42.79	-42.21	1.87	1.49	18.51
2,193.00	4.50	102.80	2,189.33	40.60	49.89	-49.32	0.59	0.21	7.13
2,286.00	4.70	98.60	2,282.03	39.22	57.21	-56.66	0.42	0.22	-4.52
2,380.00	3.90	95.20	2,375.76	38.36	64.20	-63.67	0.89	-0.85	-3.62
2,474.00	4.20	61.30	2,469.54	39.72	70.41	-69.85	2.53	0.32	-36.06
2,568.00	4.10	48.20	2,563.29	43.61	75.93	-75.32	1.01	-0.11	-13.94
2,633.00	3.40	50.80	2,628.16	46.38	79.16	-78.51	1.11	-1.08	4.00
2,843.00	3.50	52.40	2,837.77	54.23	89.06	-88.30	0.07	0.05	0.76
3,030.00	3.40	51.20	3,024.44	61.19	97.90	-97.05	0.07	-0.05	-0.64
3,218.00	3.90	57.30	3,212.05	68.13	107.63	-106.68	0.34	0.27	3.24
3,405.00	2.70	15.60	3,398.77	75.81	114.17	-113.11	1.39	-0.64	-22.30
3,592.00	6.20	38.10	3,585.19	88.01	121.58	-120.36	2.06	1.87	12.03
3,779.00	8.40	24.70	3,770.67	108.36	133.53	-132.02	1.48	1.18	-7.17
3,967.00	7.90	17.50	3,956.78	133.16	143.15	-141.30	0.60	-0.27	-3.83
4,154.00	4.00	12.60	4,142.74	151.79	148.44	-146.33	2.10	-2.09	-2.62
4,342.00	3.20	9.90	4,330.36	163.36	150.77	-148.50	0.43	-0.43	-1.44
4,529.00	3.00	18.70	4,517.09	173.14	153.24	-150.83	0.28	-0.11	4.71
4,716.00	2.40	30.40	4,703.88	181.15	156.79	-154.27	0.43	-0.32	6.26
4,904.00	1.90	32.90	4,891.75	187.16	160.47	-157.88	0.27	-0.27	1.33
5,091.00	1.10	35.40	5,078.68	191.23	163.20	-160.54	0.43	-0.43	1.34
5,278.00	0.70	58.60	5,265.66	193.29	165.21	-162.53	0.29	-0.21	12.41
5,466.00	0.70	93.40	5,453.65	193.82	167.34	-164.65	0.22	0.00	18.51
5,653.00	1.10	139.70	5,640.63	192.38	169.64	-166.97	0.43	0.21	24.76
5,840.00	1.60	161.90	5,827.58	188.53	171.61	-168.99	0.38	0.27	11.87
6,028.00	1.50	187.00	6,015.51	183.59	172.13	-169.58	0.36	-0.05	13.35
6,215.00	1.60	194.70	6,202.44	178.64	171.16	-168.69	0.12	0.05	4.12
6,403.00	1.40	227.40	6,390.38	174.54	168.81	-166.39	0.46	-0.11	17.39
6,590.00	0.50	277.90	6,577.35	173.11	166.32	-163.92	0.61	-0.48	27.01
6,777.00	0.80	211.50	6,764.34	172.11	164.83	-162.44	0.40	0.16	-35.51
6,965.00	1.30	282.20	6,952.32	171.44	162.06	-159.68	0.68	0.27	37.61
7,152.00	5.00	351.00	7,139.04	179.94	158.71	-156.21	2.51	1.98	36.79
7,246.00	3.80	322.50	7,232.78	186.46	156.17	-153.58	2.61	-1.28	-30.32
7,340.00	2.70	297.40	7,326.63	189.95	152.31	-149.67	1.89	-1.17	-26.70
7,433.00	2.40	273.90	7,419.54	191.09	148.42	-145.77	1.16	-0.32	-25.27
7,527.00	3.90	291.20	7,513.40	192.38	143.48	-140.81	1.87	1.60	18.40
7,621.00	3.10	294.00	7,607.22	194.57	138.17	-135.48	0.87	-0.85	2.98
7,715.00	3.40	141.30	7,701.16	193.43	137.59	-134.91	6.72	0.32	-162.45



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #204H
Project:	Eddy County New Mexico (NAD27 NME)	TVD Reference:	RKB @ 3005.50usft (Patterson 297)
Site:	Tiger 14-24S-28E-RB	MD Reference:	RKB @ 3005.50usft (Patterson 297)
Well:	#204H	North Reference:	Grid
Wellbore:	Wellbore #1/ Job #1513525	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

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)
7,809.00	6.60	129.30	7,794.80	187.83	143.52	-140.92	3.56	3.40	-12.77
7,902.00	4.50	139.10	7,887.36	181.69	150.04	-147.53	2.47	-2.26	10.54
7,996.00	0.40	190.20	7,981.25	178.57	152.40	-149.93	4.53	-4.36	54.36
8,090.00	2.70	324.60	8,075.22	180.06	151.06	-148.56	3.18	2.45	142.98
8,183.00	2.30	309.20	8,168.13	183.02	148.35	-145.81	0.84	-0.43	-16.56
8,277.00	2.20	322.50	8,262.06	185.64	145.79	-143.21	0.56	-0.11	14.15
8,371.00	2.10	322.60	8,356.00	188.44	143.64	-141.03	0.11	-0.11	0.11
8,465.00	1.80	307.00	8,449.94	190.70	141.42	-138.77	0.65	-0.32	-16.60
8,559.00	0.70	266.00	8,543.92	191.55	139.66	-137.01	1.44	-1.17	-43.62
8,652.00	1.80	224.30	8,636.90	190.46	138.08	-135.44	1.46	1.18	-44.84
8,747.00	3.30	221.90	8,731.80	187.36	135.21	-132.61	1.58	1.58	-2.53
8,840.00	2.60	218.70	8,824.68	183.72	132.10	-129.56	0.77	-0.75	-3.44
8,936.00	2.20	241.70	8,920.60	181.15	129.12	-126.61	1.08	-0.42	23.96
8,999.00	4.90	260.60	8,983.47	180.14	125.40	-122.90	4.61	4.29	30.00
9,030.00	8.70	259.80	9,014.25	179.51	121.78	-119.30	12.26	12.26	-2.58
9,062.00	12.70	260.10	9,045.68	178.47	115.93	-113.46	12.50	12.50	0.94
9,093.00	14.80	262.50	9,075.79	177.37	108.65	-106.20	7.02	6.77	7.74
9,124.00	17.30	261.50	9,105.58	176.17	100.17	-97.73	8.11	8.06	-3.23
9,155.00	20.80	258.80	9,134.88	174.42	90.20	-87.79	11.64	11.29	-8.71
9,187.00	24.40	257.40	9,164.42	171.87	78.18	-75.80	11.37	11.25	-4.38
9,218.00	28.30	258.40	9,192.19	169.00	64.72	-62.39	12.66	12.58	3.23
9,249.00	32.30	260.70	9,218.95	166.18	49.35	-47.05	13.43	12.90	7.42
9,280.00	36.80	260.60	9,244.48	163.32	32.00	-29.75	14.52	14.52	-0.32
9,311.00	41.20	262.80	9,268.57	160.53	12.70	-10.49	14.88	14.19	7.10
9,343.00	44.50	267.50	9,292.03	158.72	-8.97	11.16	14.35	10.31	14.69
9,374.00	48.30	272.30	9,313.41	158.71	-31.40	33.59	16.61	12.26	15.48
9,405.00	50.20	277.40	9,333.65	160.70	-54.79	57.00	13.89	6.13	16.45
9,436.00	52.50	281.00	9,353.02	164.59	-78.67	80.94	11.72	7.42	11.61
9,468.00	55.20	282.60	9,371.89	169.88	-103.96	106.29	9.35	8.44	5.00
9,499.00	56.00	284.20	9,389.41	175.80	-128.84	131.25	4.98	2.58	5.16
9,530.00	57.60	283.80	9,406.38	182.08	-154.01	156.51	5.27	5.16	-1.29
9,561.00	58.10	282.80	9,422.88	188.12	-179.55	182.13	3.17	1.61	-3.23
9,593.00	57.80	278.80	9,439.86	193.20	-206.19	208.83	10.64	-0.94	-12.50
9,624.00	58.80	276.90	9,456.15	196.80	-232.31	235.00	6.13	3.23	-6.13
9,655.00	59.00	276.00	9,472.17	199.78	-258.69	261.42	2.57	0.65	-2.90
9,686.00	59.30	273.80	9,488.07	202.05	-285.20	287.96	6.17	0.97	-7.10
9,717.00	61.20	271.90	9,503.45	203.39	-312.08	314.85	8.12	6.13	-6.13
9,748.00	62.30	271.70	9,518.12	204.24	-339.37	342.16	3.59	3.55	-0.65
9,780.00	64.50	272.70	9,532.45	205.34	-367.96	370.76	7.42	6.88	3.13
9,811.00	66.90	273.60	9,545.21	206.90	-396.17	398.99	8.18	7.74	2.90
9,842.00	69.10	275.00	9,556.82	209.06	-424.83	427.67	8.24	7.10	4.52
9,873.00	71.00	277.00	9,567.40	212.10	-453.81	456.69	8.62	6.13	6.45
9,905.00	72.30	277.90	9,577.47	216.04	-483.92	486.85	4.86	4.06	2.81
9,930.00	72.60	277.70	9,585.01	219.28	-507.54	510.51	1.42	1.20	-0.80



Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #204H
Project:	Eddy County, New Mexico (NAD27 NME)	TVD Reference:	RKB @ 3005.50usft (Patterson 297)
Site:	Tiger 14-24S-28E RB	MD Reference:	RKB @ 3005.50usft (Patterson 297)
Well:	#204H	North Reference:	Grid
Wellbore:	Wellbore #1 / Job #1513525	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000.GCR

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)
10,029.00	75.80	275.90	9,611.96	230.54	-602.11	605.23	3.68	3.23	-1.82
10,060.00	80.30	273.30	9,618.38	232.97	-632.33	635.48	16.67	14.52	-8.39
10,091.00	80.70	269.20	9,623.50	233.64	-662.89	666.05	13.11	1.29	-13.23
10,123.00	80.90	268.70	9,628.62	233.06	-694.48	697.62	1.66	0.63	-1.56
10,154.00	82.00	268.70	9,633.22	232.36	-725.12	728.26	3.55	3.55	0.00
10,185.00	82.60	268.50	9,637.38	231.61	-755.83	758.96	2.04	1.94	-0.65
10,217.00	82.20	268.60	9,641.61	230.81	-787.54	790.65	1.29	-1.25	0.31
10,248.00	81.70	268.80	9,645.95	230.11	-818.23	821.32	1.73	-1.61	0.65
10,311.00	83.30	269.90	9,654.17	229.40	-880.68	883.76	3.07	2.54	1.75
10,343.00	86.90	270.00	9,656.91	229.38	-912.56	915.64	11.25	11.25	0.31
10,375.00	90.20	270.50	9,657.72	229.52	-944.55	947.62	10.43	10.31	1.56
10,406.00	90.70	270.90	9,657.47	229.89	-975.54	978.62	2.07	1.61	1.29
10,500.00	90.30	270.00	9,656.65	230.63	-1,069.54	1,072.61	1.05	-0.43	-0.96
10,595.00	89.60	269.20	9,656.74	229.97	-1,164.53	1,167.59	1.12	-0.74	-0.84
10,689.00	90.90	271.70	9,656.33	230.71	-1,258.52	1,261.58	3.00	1.38	2.66
10,783.00	92.10	272.50	9,653.87	234.15	-1,352.42	1,355.52	1.53	1.28	0.85
10,877.00	93.00	272.30	9,649.68	238.08	-1,446.24	1,449.39	0.98	0.96	-0.21
10,971.00	94.30	272.60	9,643.70	242.09	-1,539.97	1,543.16	1.42	1.38	0.32
11,066.00	95.70	272.50	9,635.42	246.30	-1,634.51	1,637.75	1.48	1.47	-0.11
11,160.00	92.40	273.50	9,628.78	251.21	-1,728.13	1,731.43	3.67	-3.51	1.06
11,254.00	91.40	272.30	9,625.66	255.96	-1,821.96	1,825.31	1.66	-1.06	-1.28
11,349.00	87.00	268.60	9,626.99	256.71	-1,916.90	1,920.26	6.05	-4.63	-3.89
11,443.00	87.30	268.30	9,631.66	254.17	-2,010.75	2,014.07	0.45	0.32	-0.32
11,537.00	87.50	268.50	9,635.93	251.55	-2,104.62	2,107.89	0.30	0.21	0.21
11,632.00	87.30	268.20	9,640.24	248.82	-2,199.48	2,202.70	0.38	-0.21	-0.32
11,727.00	88.20	268.10	9,643.97	245.75	-2,294.36	2,297.53	0.95	0.95	-0.11
11,821.00	89.80	268.00	9,645.61	242.56	-2,388.29	2,391.40	1.71	1.70	-0.11
11,915.00	94.20	271.30	9,642.33	241.98	-2,482.19	2,485.29	5.85	4.68	3.51
12,010.00	93.90	271.30	9,635.62	244.13	-2,576.93	2,580.05	0.32	-0.32	0.00
12,104.00	94.00	270.70	9,629.14	245.76	-2,670.69	2,673.83	0.65	0.11	-0.64
12,199.00	93.80	270.50	9,622.68	246.76	-2,765.47	2,768.61	0.30	-0.21	-0.21
12,293.00	93.50	270.10	9,616.70	247.25	-2,859.27	2,862.41	0.53	-0.32	-0.43
12,387.00	93.50	270.00	9,610.96	247.33	-2,953.10	2,956.23	0.11	0.00	-0.11
12,482.00	90.60	270.10	9,607.56	247.41	-3,048.03	3,051.15	3.05	-3.05	0.11
12,576.00	88.00	269.00	9,608.71	246.68	-3,142.01	3,145.11	3.00	-2.77	-1.17
12,671.00	89.20	269.40	9,611.03	245.35	-3,236.97	3,240.04	1.33	1.26	0.42
12,766.00	89.30	269.60	9,612.27	244.52	-3,331.96	3,335.01	0.24	0.11	0.21
12,860.00	90.50	272.70	9,612.44	246.41	-3,425.92	3,429.00	3.54	1.28	3.30
12,955.00	93.10	274.40	9,609.45	252.28	-3,520.68	3,523.83	3.27	2.74	1.79
13,050.00	92.90	274.90	9,604.48	259.98	-3,615.24	3,618.48	0.57	-0.21	0.53
13,144.00	91.30	274.50	9,601.04	267.67	-3,708.86	3,712.20	1.75	-1.70	-0.43
13,239.00	90.90	273.90	9,599.21	274.63	-3,803.59	3,807.01	0.76	-0.42	-0.63
13,333.00	90.80	273.10	9,597.82	280.37	-3,897.40	3,900.89	0.86	-0.11	-0.85



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Wellbore:	Wellbore #1 / Job #1513525	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	Compass 5000 GCR

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)
13,427.00	90.50	272.50	9,596.75	284.96	-3,991.28	3,994.83	0.71	-0.32	-0.64
13,522.00	90.20	272.90	9,596.17	289.43	-4,086.17	4,089.78	0.53	-0.32	0.42
13,616.00	91.70	272.90	9,594.61	294.19	-4,180.04	4,183.70	1.60	1.60	0.00
13,710.00	91.50	271.00	9,591.99	297.39	-4,273.94	4,277.64	2.03	-0.21	-2.02
13,804.00	89.00	269.30	9,591.58	297.63	-4,367.93	4,371.62	3.22	-2.66	-1.81
13,898.00	90.10	270.20	9,592.32	297.22	-4,461.92	4,465.60	1.51	1.17	0.96
13,993.00	89.70	270.10	9,592.48	297.47	-4,556.92	4,560.59	0.43	-0.42	-0.11
14,088.00	92.30	271.20	9,590.83	298.55	-4,651.89	4,655.57	2.97	2.74	1.16
14,182.00	89.80	269.60	9,589.10	299.20	-4,745.86	4,749.54	3.16	-2.66	-1.70
14,276.00	90.30	269.60	9,589.02	298.55	-4,839.86	4,843.52	0.53	0.53	0.00
14,370.00	90.00	270.00	9,588.77	298.22	-4,933.86	4,937.50	0.53	-0.32	0.43
14,400.00	91.00	270.40	9,588.51	298.32	-4,963.86	4,967.50	3.59	3.33	1.33
Final Phoenix Survey									
14,463.00	91.00	270.40	9,587.41	298.76	-5,026.85	5,030.49	0.00	0.00	0.00
Projection to TD									

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
560.00	559.81	-10.78	-8.03	Tie-in to VES Gyros
694.00	693.75	-12.53	-11.57	First Phoenix Survey
14,400.00	9,588.51	298.32	-4,963.86	Final Phoenix Survey
14,463.00	9,587.41	298.76	-5,026.85	Projection to TD

Checked By: _____ Approved By: _____ Date: _____