



**PHOENIX
TECHNOLOGY SERVICES**

February 19, 2016

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

Dear District 2 - Artesia

Re: Matador Resources
Jimmy Kone 05-24S-28E RB 208H
Eddy County, New Mexico
API #30-015-43389 ←
Job No. 1514818

LED 3/1/16
Accepted for record
RECORD

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	
Gary Harmon	208H	697	14,374	01/24/16	02/15/16	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

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 29 2016

Certified mail receipt number: 7015 0640 0000 9907 5418

RECEIVED

**Phoenix Technology Services
SURVEY DATA CERTIFICATION**



PHOENIX JOB NUMBER

1514818

ENERGY COMPANY

Matador Resources

WELL NAME

Jimmy Kone 05-24S-28E RB 208H

COUNTY & STATE

Eddy County, NM

API WELL NUMBER

30-015-43389

PROPOSED DIRECTION

269.51°

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
557.00 ft	556.92 ft	2.2°	296.7°	1.71 ft	-4.29 ft	Gyro

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
24-Jan-16	697.00 ft	2.5°	311.1°

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
15-Feb-16	14,374.00 ft	92.9°	268.8°

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
15-Feb-16	14,440.00 ft	92.9°	268.8°

Gary Harmon

PRINT YOUR NAME ABOVE

Gary Harmon

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.34
DECLINATION OR GRID	GRID

2/15/2016

TODAY'S DATE

MWD SUPERVISOR 1

Gary Harmon

DIRECTIONAL DRILLER 1

Vinn Adams

MWD SUPERVISOR 2

Clint Gortmaker

DIRECTIONAL DRILLER 2

Rusty Harris

12329 Cutten Rd.,

Houston, Texas 777066

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



NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 29 2016

RECEIVED

Matador Resources

Eddy County, NM (NAD27 NME)

Jimmy Kone 05-24S-28E RB

208H

OH / Job #1514818

Survey: Phoenix MWD Surveys

Standard Survey Report

16 February, 2016





Phoenix Technology Services
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 208H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3062.50usft (Patterson 809)
Site:	Jimmy Kone 05-24S-28E RB	MD Reference:	RKB @ 3062.50usft (Patterson 809)
Well:	208H	North Reference:	Grid
Wellbore:	OH / Job #1514818	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 809)	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	Jimmy Kone 05-24S-28E RB				
Site Position:		Northing:	451,120.00 usft	Latitude:	32° 14' 24.10506 N
From:	Map	Easting:	572,362.00 usft	Longitude:	104° 5' 57.45146 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 °

Well	208H					
Well Position	+N-S	0.00 usft	Northing:	451,120.00 usft	Latitude:	32° 14' 24.10506 N
	+E-W	0.00 usft	Easting:	572,362.00 usft	Longitude:	104° 5' 57.45146 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,034.00 usft

Wellbore	OH / Job #1514818				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/28/2015	7.47	60.08	48,261

Design	Surveys (Patterson 809)				
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	269.51

Survey Program	Date	2/16/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
157.00	557.00	Gyro Surveys (OH / Job #1514818)	NS-GYRO-MS	North sensing gyrocompassing m/s	
697.00	14,440.00	Phoenix MWD Surveys (OH / Job #151481)	PHX+MWD+HDGM	PHX+OWSG 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)	Tum Rate (°/100usft)	
557.00	2.20	296.70	556.92	1.71	-4.29	4.28	0.00	0.00	0.00	
Tie-in to Gyro Surveys										
697.00	2.50	311.10	696.80	4.93	-8.99	8.95	0.47	0.21	10.29	
First Phoenix MWD Survey										
791.00	2.20	304.10	790.72	7.29	-12.03	11.97	0.44	-0.32	-7.45	
884.00	2.70	288.00	883.64	8.96	-15.59	15.51	0.91	0.54	-17.31	
978.00	4.00	269.60	977.48	9.62	-20.98	20.89	1.78	1.38	-19.57	
1,069.00	4.20	259.80	1,068.25	9.01	-27.43	27.35	0.80	0.22	-10.77	
1,163.00	3.10	241.30	1,162.06	7.18	-33.05	32.98	1.70	-1.17	-19.68	



Phoenix Technology Services
Survey Report



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Well:	208H	North Reference:	Grid
Wellbore:	OH / Job #1514818	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 809)	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)	
1,257.00	2.00	220.60	1,255.97	4.72	-36.34	36.30	1.51	-1.17	-22.02	
1,351.00	2.50	233.80	1,349.89	2.26	-39.07	39.05	0.76	0.53	14.04	
1,444.00	3.00	262.10	1,442.79	0.73	-43.11	43.11	1.54	0.54	30.43	
1,538.00	3.50	264.90	1,536.64	0.13	-48.41	48.41	0.56	0.53	2.98	
1,632.00	4.60	282.70	1,630.41	0.71	-54.94	54.94	1.76	1.17	18.94	
1,725.00	3.70	290.70	1,723.16	2.59	-61.39	61.36	1.15	-0.97	8.60	
1,819.00	3.90	288.00	1,816.96	4.65	-67.27	67.22	0.29	0.21	-2.87	
1,913.00	4.80	291.00	1,910.68	7.05	-73.98	73.92	0.99	0.96	3.19	
2,006.00	5.30	286.40	2,003.32	9.65	-81.73	81.65	0.69	0.54	-4.95	
2,100.00	4.50	280.80	2,096.98	11.57	-89.52	89.42	0.99	-0.85	-5.96	
2,194.00	3.80	264.90	2,190.74	11.98	-96.24	96.14	1.43	-0.74	-16.91	
2,287.00	4.10	270.00	2,283.52	11.71	-102.64	102.53	0.50	0.32	5.48	
2,381.00	5.80	284.80	2,377.17	12.92	-110.59	110.48	2.25	1.81	15.74	
2,475.00	6.20	283.80	2,470.65	15.35	-120.11	119.98	0.44	0.43	-1.06	
2,563.00	6.20	279.80	2,558.14	17.29	-129.41	129.26	0.49	0.00	-4.55	
2,678.00	6.40	282.00	2,672.44	19.68	-141.80	141.63	0.27	0.17	1.91	
2,772.00	7.00	266.10	2,765.81	20.38	-152.64	152.46	2.07	0.64	-16.91	
2,866.00	7.30	261.70	2,859.08	19.13	-164.26	164.09	0.66	0.32	-4.68	
2,959.00	6.90	262.80	2,951.36	17.57	-175.65	175.50	0.45	-0.43	1.18	
3,053.00	6.90	263.40	3,044.68	16.22	-186.86	186.72	0.08	0.00	0.64	
3,147.00	4.60	266.20	3,138.20	15.32	-196.24	196.10	2.46	-2.45	2.98	
3,241.00	4.20	268.60	3,231.93	14.98	-203.44	203.30	0.47	-0.43	2.55	
3,334.00	3.70	262.80	3,324.71	14.53	-209.82	209.69	0.69	-0.54	-6.24	
3,428.00	3.40	280.70	3,418.53	14.66	-215.57	215.43	1.22	-0.32	19.04	
3,522.00	3.80	283.20	3,512.34	15.89	-221.34	221.19	0.46	0.43	2.66	
3,615.00	3.30	283.00	3,605.16	17.20	-226.95	226.79	0.54	-0.54	-0.22	
3,709.00	3.60	281.30	3,698.99	18.38	-232.48	232.31	0.34	0.32	-1.81	
3,803.00	1.60	268.60	3,792.89	18.93	-236.68	236.51	2.20	-2.13	-13.51	
3,896.00	1.50	262.50	3,885.86	18.74	-239.19	239.02	0.21	-0.11	-6.56	
3,990.00	1.30	325.30	3,979.84	19.46	-241.02	240.84	1.56	-0.21	66.81	
4,084.00	1.10	327.20	4,073.81	21.09	-242.11	241.92	0.22	-0.21	2.02	
4,177.00	1.20	332.80	4,166.80	22.71	-243.04	242.84	0.16	0.11	6.02	
4,271.00	1.20	334.00	4,260.78	24.47	-243.92	243.70	0.03	0.00	1.28	
4,365.00	1.20	323.00	4,354.75	26.14	-244.95	244.71	0.24	0.00	-11.70	
4,458.00	1.00	325.00	4,447.74	27.58	-246.00	245.75	0.22	-0.22	2.15	
4,552.00	0.90	324.20	4,541.72	28.85	-246.90	246.64	0.11	-0.11	-0.85	
4,646.00	1.10	322.20	4,635.71	30.16	-247.88	247.62	0.22	0.21	-2.13	
4,739.00	0.60	162.50	4,728.71	30.40	-248.28	248.02	1.80	-0.54	-171.72	
4,833.00	0.90	178.60	4,822.70	29.20	-248.12	247.86	0.39	0.32	17.13	
4,927.00	0.60	171.50	4,916.69	27.97	-248.03	247.78	0.33	-0.32	-7.55	
5,021.00	0.50	168.40	5,010.69	27.08	-247.87	247.63	0.11	-0.11	-3.30	
5,114.00	0.70	170.20	5,103.68	26.13	-247.69	247.46	0.22	0.22	1.94	
5,208.00	0.80	173.50	5,197.67	24.91	-247.52	247.30	0.12	0.11	3.51	



Phoenix Technology Services

Survey Report



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Site:	Jimmy Kone 05-24S-28E RB	MD Reference:	RKB @ 3062.50usft (Patterson 809)
Well:	208H	North Reference:	Grid
Wellbore:	OH / Job #1514818	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 809)	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)
5,301.00	0.90	181.70	5,290.66	23.53	-247.47	247.26	0.17	0.11	8.82
5,395.00	0.80	181.70	5,384.65	22.14	-247.51	247.31	0.11	-0.11	0.00
5,488.00	0.60	190.70	5,477.64	21.01	-247.62	247.43	0.24	-0.22	9.68
5,582.00	0.70	214.20	5,571.64	20.05	-248.04	247.86	0.30	0.11	25.00
5,676.00	1.10	211.60	5,665.63	18.81	-248.83	248.66	0.43	0.43	-2.77
5,770.00	0.70	94.30	5,759.62	18.00	-248.73	248.57	1.65	-0.43	-124.79
5,863.00	0.70	104.40	5,852.61	17.81	-247.61	247.45	0.13	0.00	10.86
5,957.00	0.70	147.80	5,946.61	17.19	-246.75	246.60	0.55	0.00	46.17
6,050.00	0.80	154.30	6,039.60	16.12	-246.17	246.02	0.14	0.11	6.99
6,144.00	0.70	310.20	6,133.60	15.90	-246.32	246.18	1.56	-0.11	165.85
6,237.00	2.10	303.50	6,226.57	17.21	-248.18	248.02	1.51	1.51	-7.20
6,331.00	1.20	67.40	6,320.55	18.54	-248.70	248.54	3.13	-0.96	131.81
6,425.00	1.50	65.20	6,414.52	19.43	-246.68	246.50	0.32	0.32	-2.34
6,519.00	1.10	47.80	6,508.49	20.55	-244.89	244.71	0.59	-0.43	-18.51
6,612.00	0.60	57.10	6,601.48	21.42	-243.82	243.63	0.56	-0.54	10.00
6,706.00	1.30	173.50	6,695.48	20.62	-243.29	243.10	1.76	0.74	123.83
6,800.00	3.30	177.00	6,789.40	16.86	-243.03	242.87	2.13	2.13	3.72
6,894.00	1.10	180.60	6,883.32	13.26	-242.90	242.77	2.34	-2.34	3.83
6,987.00	0.90	174.00	6,976.31	11.64	-242.83	242.72	0.25	-0.22	-7.10
7,080.00	0.20	190.00	7,069.30	10.75	-242.78	242.68	0.76	-0.75	17.20
7,174.00	0.60	192.50	7,163.30	10.11	-242.92	242.82	0.43	0.43	2.66
7,267.00	0.90	28.50	7,256.30	10.28	-242.67	242.58	1.60	0.32	-176.34
7,361.00	0.20	338.80	7,350.29	11.08	-242.38	242.28	0.84	-0.74	-52.87
7,455.00	1.10	63.10	7,444.29	11.64	-241.63	241.53	1.17	0.96	89.68
7,548.00	1.40	122.20	7,537.27	11.44	-239.88	239.77	1.36	0.32	63.55
7,642.00	1.90	167.80	7,631.23	9.30	-238.58	238.49	1.45	0.53	48.51
7,735.00	0.80	245.40	7,724.21	7.53	-238.84	238.77	2.04	-1.18	63.44
7,829.00	0.90	323.10	7,818.20	7.84	-239.88	239.80	1.14	0.11	82.66
7,923.00	1.10	260.70	7,912.19	8.29	-241.21	241.13	1.12	0.21	-66.38
8,016.00	0.80	34.30	8,005.18	8.68	-241.73	241.65	1.88	-0.32	143.66
8,110.00	0.30	33.60	8,099.18	9.43	-241.22	241.13	0.53	-0.53	-0.74
8,203.00	0.10	355.70	8,192.18	9.71	-241.09	241.00	0.25	-0.22	-40.75
8,297.00	0.30	233.60	8,286.18	9.65	-241.30	241.21	0.39	0.21	-129.89
8,391.00	0.80	86.10	8,380.18	9.55	-240.84	240.75	1.13	0.53	-156.91
8,484.00	2.30	127.60	8,473.14	8.45	-238.71	238.63	1.92	1.61	44.62
8,578.00	0.30	49.90	8,567.12	7.46	-237.03	236.96	2.40	-2.13	-82.66
8,648.00	0.60	215.60	8,637.11	7.28	-237.11	237.03	1.28	0.43	236.71
8,741.00	1.50	234.70	8,730.10	6.18	-238.38	238.32	1.03	0.97	20.54
8,772.00	4.00	290.90	8,761.06	6.33	-239.72	239.66	10.97	8.06	181.29
8,803.00	8.20	300.70	8,791.88	7.85	-242.64	242.56	13.91	13.55	31.61
8,835.00	11.70	306.70	8,823.40	10.95	-247.20	247.10	11.39	10.94	18.75
8,866.00	14.90	311.00	8,853.56	15.44	-252.73	252.59	10.80	10.32	13.87
8,898.00	17.90	312.30	8,884.26	21.46	-259.47	259.28	9.44	9.38	4.06
8,929.00	20.40	314.00	8,913.54	28.42	-266.89	266.63	8.26	8.06	5.48



Phoenix Technology Services
Survey Report



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8,960.00	22.80	316.00	8,942.36	36.49	-274.95	274.62	8.10	7.74	6.45	
8,991.00	25.10	316.30	8,970.69	45.57	-283.66	283.26	7.43	7.42	0.97	
9,023.00	27.40	317.10	8,999.39	55.87	-293.37	292.88	7.27	7.19	2.50	
9,053.00	29.00	318.50	9,025.83	66.37	-302.88	302.31	5.77	5.33	4.67	
9,085.00	30.90	316.80	9,053.55	78.17	-313.65	312.97	6.50	5.94	-5.31	
9,116.00	32.80	314.30	9,079.88	89.84	-325.11	324.33	7.46	6.13	-8.06	
9,147.00	33.90	311.80	9,105.78	101.47	-337.56	336.68	5.68	3.55	-8.06	
9,177.00	36.40	308.00	9,130.31	112.53	-350.82	349.84	11.07	8.33	-12.67	
9,209.00	38.70	304.20	9,155.68	124.00	-366.58	365.51	10.20	7.19	-11.88	
9,240.00	42.50	298.00	9,179.23	134.37	-383.85	382.69	17.87	12.26	-20.00	
9,273.00	46.30	292.60	9,202.81	144.20	-404.72	403.48	16.23	11.52	-16.36	
9,304.00	50.70	287.10	9,223.35	152.04	-426.55	425.24	19.43	14.19	-17.74	
9,335.00	54.30	284.20	9,242.22	158.65	-450.23	448.86	13.78	11.61	-9.35	
9,366.00	56.20	282.10	9,259.89	164.44	-475.03	473.61	8.28	6.13	-6.77	
9,398.00	57.80	279.50	9,277.32	169.47	-501.39	499.92	8.45	5.00	-8.13	
9,429.00	59.20	277.40	9,293.52	173.35	-527.53	526.03	7.33	4.52	-6.77	
9,460.00	60.50	276.50	9,309.09	176.59	-554.14	552.61	4.89	4.19	-2.90	
9,492.00	61.90	276.60	9,324.51	179.79	-582.00	580.44	4.38	4.38	0.31	
9,523.00	63.10	276.90	9,338.82	183.02	-609.31	607.72	3.96	3.87	0.97	
9,554.00	64.80	276.10	9,352.44	186.17	-636.98	635.36	5.95	5.48	-2.58	
9,586.00	66.00	275.30	9,365.78	189.06	-665.93	664.29	4.39	3.75	-2.50	
9,616.00	67.80	273.90	9,377.53	191.27	-693.43	691.77	7.38	6.00	-4.67	
9,635.00	69.07	273.17	9,384.51	192.36	-711.07	709.40	7.58	6.68	-3.84	
FTP HL Crossing: 9635' MD, 69.07° Inc, 709.40' VS										
9,738.00	76.00	269.40	9,415.42	194.50	-809.22	807.52	7.58	6.73	-3.66	
9,769.00	75.40	269.40	9,423.07	194.18	-839.25	837.56	1.94	-1.94	0.00	
9,800.00	74.70	269.20	9,431.07	193.82	-869.20	867.51	2.34	-2.26	-0.65	
9,832.00	75.60	269.30	9,439.27	193.41	-900.13	898.44	2.83	2.81	0.31	
9,864.00	78.90	268.60	9,446.33	192.84	-931.33	929.65	10.53	10.31	-2.19	
9,895.00	82.60	267.90	9,451.31	191.90	-961.91	960.23	12.14	11.94	-2.26	
9,926.00	86.20	267.30	9,454.34	190.61	-992.73	991.06	11.77	11.61	-1.94	
9,932.00	86.48	267.39	9,454.72	190.34	-998.71	997.05	4.94	4.69	1.56	
HL Crossing (Exited): 9932' MD, 86.48° Inc, 997.05' VS										
9,958.00	87.70	267.80	9,456.04	189.25	-1,024.65	1,023.00	4.94	4.69	1.56	
10,052.00	87.10	268.00	9,460.31	185.81	-1,118.49	1,116.86	0.67	-0.64	0.21	
10,147.00	87.90	270.70	9,464.45	184.73	-1,213.39	1,211.76	2.96	0.84	2.84	
10,241.00	90.60	270.00	9,465.68	185.30	-1,307.37	1,305.73	2.97	2.87	-0.74	
10,321.00	92.64	272.47	9,463.42	187.02	-1,387.31	1,385.66	4.00	2.55	3.08	
HL Crossing (Entered): 10321' MD, 92.64° Inc, 1385.66' VS										
10,335.00	93.00	272.90	9,462.73	187.68	-1,401.27	1,399.62	4.00	2.55	3.09	
10,430.00	88.00	272.00	9,461.90	191.74	-1,496.15	1,494.46	5.35	-5.26	-0.95	
10,525.00	93.10	276.30	9,460.99	198.61	-1,590.85	1,589.09	7.02	5.37	4.53	
10,620.00	89.30	272.40	9,459.00	205.81	-1,685.52	1,683.69	5.73	-4.00	-4.11	
10,714.00	88.80	269.30	9,460.56	207.20	-1,779.48	1,777.64	3.34	-0.53	-3.30	



Phoenix Technology Services

Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 208H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3062.50usft (Patterson 809)
Site:	Jimmy Kone 05-24S-28E RB	MD Reference:	RKB @ 3062.50usft (Patterson 809)
Well:	208H	North Reference:	Grid
Wellbore:	OH / Job #1514818	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 809)	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)
10,808.00	88.50	269.20	9,462.77	205.97	-1,873.45	1,871.62	0.34	-0.32	-0.11
10,902.00	91.00	268.10	9,463.18	203.76	-1,967.41	1,965.60	2.91	2.66	-1.17
10,996.00	90.10	269.60	9,462.28	201.87	-2,061.38	2,059.58	1.86	-0.96	1.60
11,091.00	91.80	268.80	9,460.70	200.54	-2,156.36	2,154.56	1.98	1.79	-0.84
11,186.00	90.50	266.70	9,458.80	196.82	-2,251.26	2,249.49	2.60	-1.37	-2.21
11,280.00	92.60	269.60	9,456.25	193.78	-2,345.16	2,343.42	3.81	2.23	3.09
11,375.00	93.40	269.70	9,451.28	193.20	-2,440.03	2,438.28	0.85	0.84	0.11
11,469.00	93.10	268.90	9,445.95	192.05	-2,533.87	2,532.13	0.91	-0.32	-0.85
11,563.00	92.20	271.00	9,441.61	191.97	-2,627.76	2,626.02	2.43	-0.96	2.23
11,657.00	91.20	269.90	9,438.82	192.71	-2,721.71	2,719.97	1.58	-1.06	-1.17
11,752.00	91.90	271.20	9,436.25	193.62	-2,816.67	2,814.91	1.55	0.74	1.37
11,846.00	92.30	268.50	9,432.80	193.38	-2,910.60	2,908.84	2.90	0.43	-2.87
11,940.00	91.60	272.30	9,429.60	194.03	-3,004.52	3,002.76	4.11	-0.74	4.04
12,035.00	92.20	274.50	9,426.45	199.66	-3,099.30	3,097.48	2.40	0.63	2.32
12,128.00	90.20	273.40	9,424.50	206.07	-3,192.05	3,190.17	2.45	-2.15	-1.18
12,223.00	91.00	272.00	9,423.51	210.54	-3,286.94	3,285.02	1.70	0.84	-1.47
12,318.00	90.90	271.30	9,421.93	213.28	-3,381.88	3,379.94	0.74	-0.11	-0.74
12,423.00	91.50	269.30	9,419.74	213.83	-3,486.85	3,484.90	1.99	0.57	-1.90
12,517.00	92.20	269.30	9,416.70	212.68	-3,580.80	3,578.85	0.74	0.74	0.00
12,611.00	91.10	267.80	9,413.99	210.30	-3,674.72	3,672.79	1.98	-1.17	-1.60
12,705.00	89.70	268.40	9,413.34	207.19	-3,768.67	3,766.76	1.62	-1.49	0.64
12,799.00	89.40	268.00	9,414.08	204.23	-3,862.62	3,860.73	0.53	-0.32	-0.43
12,893.00	89.30	268.00	9,415.14	200.95	-3,956.55	3,954.69	0.11	-0.11	0.00
12,988.00	89.10	267.70	9,416.47	197.39	-4,051.48	4,049.64	0.38	-0.21	-0.32
13,082.00	92.20	268.00	9,415.40	193.86	-4,145.39	4,143.59	3.31	3.30	0.32
13,177.00	92.30	267.70	9,411.67	190.30	-4,240.25	4,238.47	0.33	0.11	-0.32
13,270.00	92.60	267.30	9,407.70	186.25	-4,333.08	4,331.33	0.54	0.32	-0.43
13,364.00	91.60	266.80	9,404.25	181.41	-4,426.89	4,425.18	1.19	-1.06	-0.53
13,459.00	93.90	267.60	9,399.69	176.78	-4,521.66	4,519.98	2.56	2.42	0.84
13,553.00	94.40	269.00	9,392.89	174.00	-4,615.37	4,613.71	1.58	0.53	1.49
13,647.00	94.10	272.40	9,385.92	175.14	-4,709.09	4,707.42	3.62	-0.32	3.62
13,741.00	91.40	273.50	9,381.41	179.98	-4,802.85	4,801.13	3.10	-2.87	1.17
13,836.00	91.10	272.90	9,379.34	185.28	-4,897.68	4,895.91	0.71	-0.32	-0.63
13,930.00	87.10	271.40	9,380.82	188.80	-4,991.58	4,989.78	4.54	-4.26	-1.60
14,024.00	89.60	269.30	9,383.52	189.38	-5,085.52	5,083.72	3.47	2.66	-2.23
14,118.00	91.80	268.70	9,382.38	187.74	-5,179.50	5,177.70	2.43	2.34	-0.64
14,213.00	92.90	268.80	9,378.48	185.66	-5,274.39	5,272.61	1.16	1.16	0.11
14,307.00	92.70	269.00	9,373.89	183.86	-5,368.26	5,366.50	0.30	-0.21	0.21
14,341.00	92.80	268.90	9,372.26	183.24	-5,402.22	5,400.45	0.42	0.30	-0.30
LTP HL Crossing: 14341' MD, 92.80° Inc, 5400.45' VS									
14,374.00	92.90	268.80	9,370.62	182.58	-5,435.17	5,433.41	0.42	0.30	-0.30
Final Phoenix MWD Survey									
14,440.00	92.90	268.80	9,367.28	181.20	-5,501.07	5,499.32	0.00	0.00	0.00



Phoenix Technology Services
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 208H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3062.50usft (Patterson 809)
Site:	Jimmy Kone 05-24S-28E RB	MD Reference:	RKB @ 3062.50usft (Patterson 809)
Well:	208H	North Reference:	Grid
Wellbore:	OH / Job #1514818	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 809)	Database:	Compass 5000 GCR

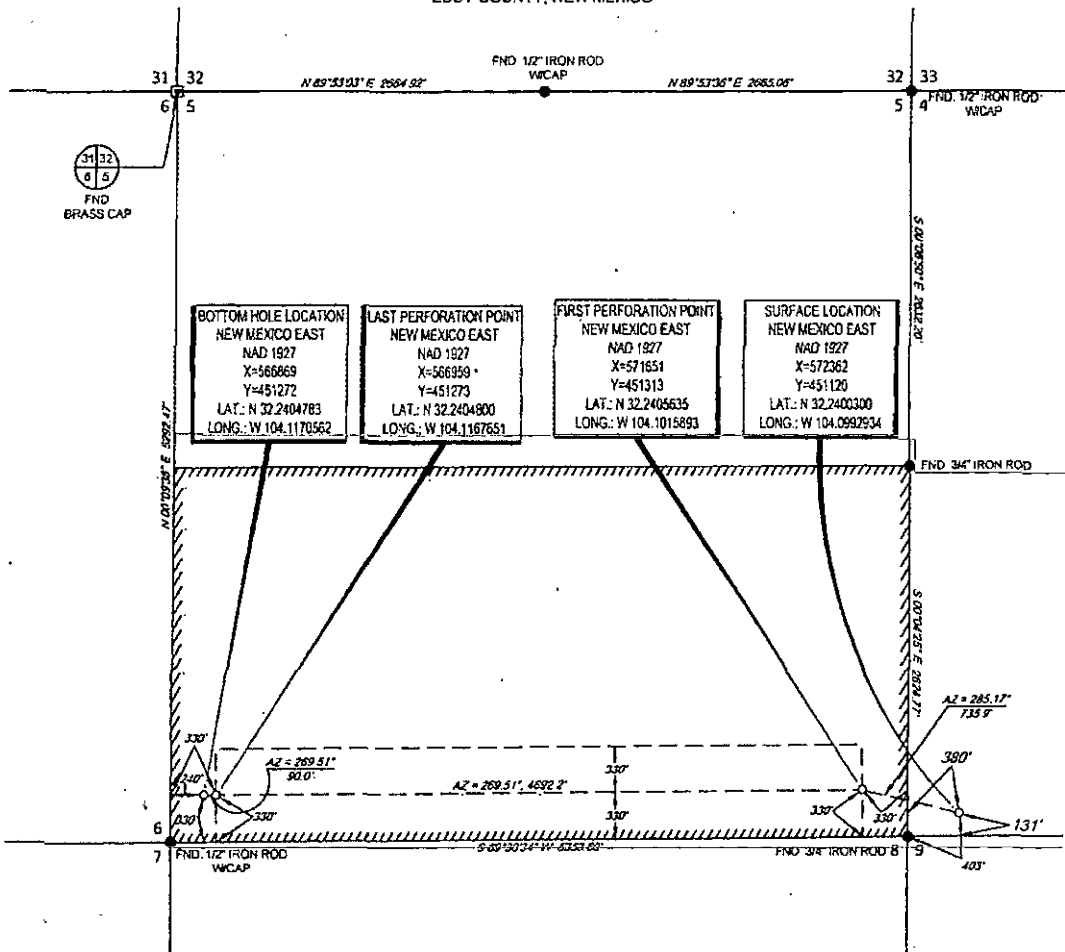
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Projection to TD									

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
557.00	556.92	1.71	-4.29	Tie-in to Gyro Surveys
697.00	696.80	4.93	-8.99	First Phoenix MWD Survey
9,635.00	9,384.51	192.36	-711.07	FTP HL Crossing: 9635' MD, 69.07° Inc, 709.40' VS
9,932.00	9,454.72	190.34	-998.71	HL Crossing (Exited): 9932' MD, 86.48° Inc, 997.05' VS
10,321.00	9,463.42	187.02	-1,387.31	HL Crossing (Entered): 10321' MD, 92.64° Inc, 1385.66' VS
14,341.00	9,372.26	183.24	-5,402.22	LTP HL Crossing: 14341' MD, 92.80° Inc, 5400.45' VS
14,374.00	9,370.62	182.58	-5,435.17	Final Phoenix MWD Survey
14,440.00	9,367.28	181.20	-5,501.07	Projection to TD

Checked By: _____ Approved By: _____ Date: _____



SECTION 4, TOWNSHIP 24-S, RANGE 28-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

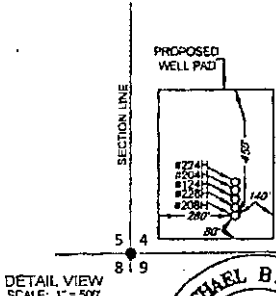


BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1927
X=566669
Y=451272
LAT.: N 32.2404783
LONG.: W 104.1170562

LAST PERFORATION POINT
NEW MEXICO EAST
NAD 1927
X=566959
Y=451273
LAT.: N 32.2404800
LONG.: W 104.1167651

FIRST PERFORATION POINT
NEW MEXICO EAST
NAD 1927
X=571651
Y=451313
LAT.: N 32.2405635
LONG.: W 104.1015893

SURFACE LOCATION
NEW MEXICO EAST
NAD 1927
X=572362
Y=451120
LAT.: N 32.2400300
LONG.: W 104.0992934



LEASE NAME & WELL NO.: JIMMY KONE 05-24S-28E RB #208H

SECTION 4 TWP 24-S RGE 28-E SURVEY N.M.P.M.

COUNTY EDDY STATE NM

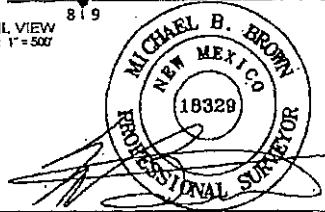
DESCRIPTION 131' FSL & 380' FEL

DISTANCE & DIRECTION

FROM INT. OF US-285 S. & NM-387, GO SOUTH ON US-285 S ±1.0

MILES, THENCE SOUTH-WEST (RIGHT) ON HIGHWAY HOLE RD. ±2.2

MILES TO A POINT ±400 FEET WEST OF THE LOCATION.



Michael Blake Brown, P.S. No. 18329
OCTOBER 19, 2015

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/RIGHT-OF-WAY 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 PLAN AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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