



Matador Resources

Eddy County, NM (NAD27 NME)

Jimmy Kone 05-24S-28E RB

208H

OH / Job 1514818

Design: Surveys (Patterson 809)

Standard Survey Report

19 May, 2016

NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 29 2016

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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)
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
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	0.89	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



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)	
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	
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	9,365.76	188.06	-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										



Phoenix Technology Services
Survey Report



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Site:	Jimmy Kone 05-24S-28E RB	MD Reference:	RKB @ 3062.50usft (Patterson 809)
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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)
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
Projection to TD									

Design Annotations				
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: _____
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30-015-43389

TELEDRIIFT

P.O.Box 94395 * Oklahoma City, OK 73143-4395 Ph : 405-631-4882

ISSUING AGENCY	CERTIFICATION NUMBER
Teledrift Co.	NM N/A

State of New Mexico

I, Tilden Dial, certify that I am employed by TELEDRIIFT and I did conduct or supervise the taking of survey data started on 09 JAN 16 for the Jimmy Kone#208h well from a depth of 0' to a depth of 617'. This data is true, correct, complete and within the limitations of the tools as set forth by TELEDRIIFT. I am authorized and qualified to make this report and this survey was conducted at the request of Matador, for the Jimmy Kone#208h well in eddy. I have reviewed this report and find that it conforms to the principles and procedures as set forth by TELEDRIIFT.

NAME: Tilden Dial	TITLE: Region Manager Permian Basin
SIGNATURE: 	

NAME:	TITLE:
SIGNATURE:	

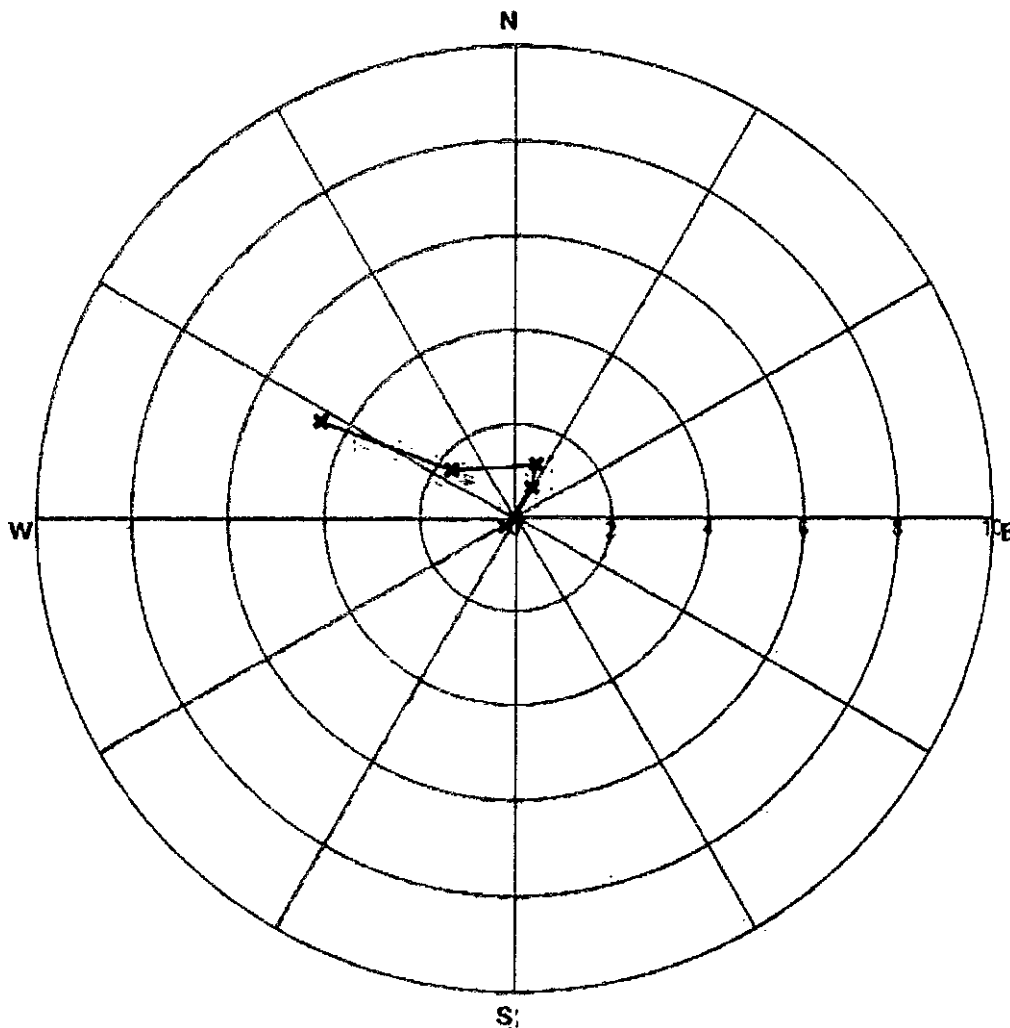
NAME:	TITLE:
SIGNATURE:	



TELEDRIIFT
P.O.Box 94395
Oklahoma City, OK 73143-4395
Ph : 405-631-4882

Survey FileName : 809patterso-09JAN16.psd
Tool Type : PROSHOT-X
Job ID : 809patterso
Well Name : Jimmy Kone#208h
Company : Matador
Contractor : Patterson #809
API Number : ~~30-015-43542~~
Location : eddy
Start Date : 09 JAN 16
North Correction : 7.20

TVD CROSS SECTION LOOKING DOWN

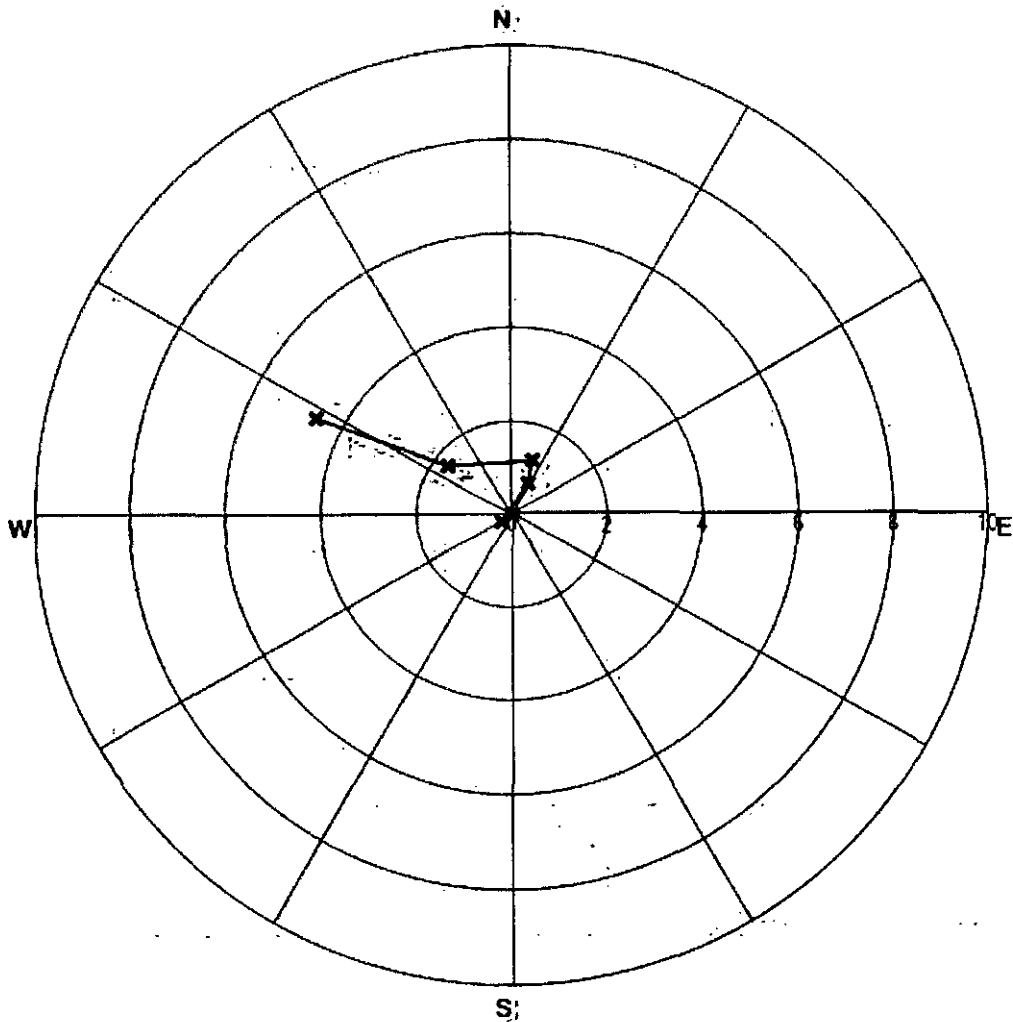




TELEDRIIFT
P.O.Box 94395
Oklahoma City, OK 73143-4395
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Survey FileName : 809patterso-09JAN16.psd
Tool Type : PROSHOT-X
Job ID : 809patterso
Well Name : Jimmy Kone#208h
Company : Matador
Contractor : Patterson #809
API Number : 30-015-43542
Location : eddy
Start Date : 09 JAN 16
North Correction : 7.20

TVD CROSS SECTION LOOKING DOWN



SURVEY REPORT

Company: Matador

Job Name: 809patterso

Calculation Method : Minimum Curvature

Contractor: Patterson #809

Mag Decl: 7.20

Proposed Azimuth: 0

Location: eddy

Dir Driller: N/A

Depth Reference:

Rig:

TeleDrift Emp: N/A

Tie Into: Assumed Vertical

Job Date: 09 JAN 16

Location: Jimmy Kone #208H

[illegible]