

30-015-45210

SURVEY DATA CERTIFICATION
PHOENIX
 TECHNOLOGY SERVICES

Job #: 63554

Client: Matador

County & State: Eddy County, NM

Well: Jimmy Kone 05-24S-28E RB #241H

API No: 30-015-45210

Proposed Direction: 269.89

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
Data Source Company:						

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
19-Sep-18	169 ft	0.34°	26.12°

Last Survey Date	Last Survey Depth	INC	AZM
8-Oct-18	15,835 ft	91.06°	272.56°

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
8-Oct-18	15,900 ft	91.06°	272.56°

Survey Instrument Type

Phoenix P-360 MWD

CORRECTION INFORMATION

Magnetic Declination Used	7.20 degrees
Grid Convergence Used	0.12 degrees

Corrected to True/Grid North

Grid North

Total Correction	7.08 degrees
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TO THE BEST OF MY KNOWLEDGE, I
 CERTIFY THIS SURVEY DATA TO BE TRUE
 AND CORRECT.

Christopher Marks

10/8/2018

Field Engineer Signature

Date

Well Planner/Supervisor

Date

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 24 2018

RECEIVED

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 24 2018

RECEIVED

Matador Resources

Eddy County, NM (NAD27 NME)
Jimmy Kone 05-24S-28E RB
#241H

OH / 63554

Survey: Phoenix MWD Surveys

Standard Survey Report

08 October, 2018

Survey Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #241H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 3087.50usft (Patterson 297)
Site:	Jimmy Kone 05-24S-28E RB	MD Reference:	RKB @ 3087.50usft (Patterson 297)
Well:	#241H	North Reference:	Grid
Wellbore:	OH / 63554	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 297)	Database:	USA Compass

Project	Eddy County, NM (NAD27 NME)	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
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:	Easting:	572,362.00 usft	Longitude:	104° 5' 57.45146 W
Position Uncertainty:	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 °

Well	#241H	Northing:	455,398.00 usft	Latitude:	32° 15' 6.45443 N	
Well Position	+N/-S	0.00 usft	Easting:	571,750.00 usft	Longitude:	104° 6' 4.46958 W
	+E/-W	0.00 usft			Ground Level:	3,059.00 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:			

Wellbore	OH / 63554				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	9/30/2018	7.20	60.02	47,965.62538064

Design	Surveys (Patterson 297)				
Audit Notes:		Phase:	ACTUAL	Tie On Depth:	0.00
Version:	1.0				
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	269.89	

Survey Program	Date 10/8/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
169.00	15,900.00	Phoenix MWD Surveys (OH / 63554)	MWD+HDGM	OWSG Rev.2 MWD + HDGM

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Builde Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169.00	0.34	26.12	169.00	0.45	0.22	-0.22	0.20	0.20	0.00
First PHX MWD Survey									
228.00	0.31	343.89	228.00	0.76	0.25	-0.25	0.40	-0.05	-71.58
319.00	0.41	331.49	319.00	1.28	0.03	-0.03	0.14	0.11	-13.63
412.00	1.09	348.07	411.99	2.44	-0.31	0.31	0.76	0.73	17.83
504.00	2.10	357.44	503.95	4.98	-0.57	0.56	1.13	1.10	10.18
540.00	2.52	353.52	539.92	6.43	-0.69	0.67	1.25	1.17	-10.89
632.00	2.26	357.17	631.84	10.25	-1.00	0.99	0.33	-0.28	3.97
692.00	2.11	1.86	691.80	12.53	-1.03	1.00	0.39	-0.25	7.82
784.00	2.51	12.11	783.72	16.20	-0.55	0.52	0.62	0.43	11.14

Survey Report

Company: Matador Resources
Project: Eddy County, NM (NAD27 NME)
Site: Jimmy Kone 05-24S-28E RB
Well: #241H
Wellbore: OH / 63554
Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well #241H
TVD Reference: RKB @ 3087.50usft (Patterson 297)
MD Reference: RKB @ 3087.50usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA Compass

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)
876.00	2.85	30.04	875.62	20.15	1.02	-1.06	0.98	0.37	19.49
970.00	3.40	48.39	969.49	24.02	4.27	-4.32	1.21	0.59	19.52
1,064.00	3.70	51.73	1,063.31	27.75	8.74	-8.79	0.39	0.32	3.55
1,157.00	3.62	51.92	1,156.12	31.42	13.40	-13.46	0.09	-0.09	0.20
1,251.00	3.30	55.02	1,249.95	34.80	17.96	-18.02	0.39	-0.34	3.30
1,344.00	3.16	53.66	1,342.80	37.85	22.21	-22.29	0.17	-0.15	-1.46
1,438.00	2.92	53.74	1,436.67	40.80	26.23	-26.31	0.26	-0.26	0.09
1,532.00	3.06	51.01	1,530.54	43.80	30.11	-30.20	0.21	0.15	-2.90
1,625.00	3.98	48.34	1,623.36	47.51	34.45	-34.54	1.00	0.99	-2.87
1,719.00	4.63	48.12	1,717.10	52.21	39.72	-39.81	0.69	0.69	-0.23
1,812.00	4.10	53.18	1,809.83	56.71	45.17	-45.28	0.70	-0.57	5.44
1,906.00	4.76	61.04	1,903.55	60.61	51.27	-51.39	0.95	0.70	8.36
2,000.00	4.86	62.25	1,997.21	64.35	58.21	-58.33	0.15	0.11	1.29
2,093.00	4.81	63.64	2,089.88	67.92	65.19	-65.32	0.14	-0.05	1.49
2,187.00	5.04	69.30	2,183.54	71.13	72.58	-72.72	0.57	0.24	6.02
2,280.00	5.19	70.25	2,276.17	73.99	80.37	-80.50	0.19	0.16	1.02
2,374.00	5.21	60.17	2,369.78	77.55	88.07	-88.22	0.97	0.02	-10.72
2,467.00	5.08	41.30	2,462.41	82.75	94.45	-94.61	1.82	-0.14	-20.29
2,551.00	5.13	32.04	2,546.08	88.72	98.90	-99.06	0.98	0.06	-11.02
2,641.00	4.87	30.99	2,635.74	95.41	103.00	-103.18	0.31	-0.29	-1.17
2,734.00	5.14	47.20	2,728.39	101.62	108.09	-108.28	1.54	0.29	17.43
2,828.00	5.76	55.83	2,821.97	107.13	115.08	-115.28	1.09	0.66	9.18
2,921.00	6.61	53.38	2,914.42	112.95	123.24	-123.45	0.96	0.91	-2.63
3,015.00	6.85	45.01	3,007.78	120.14	131.55	-131.77	1.07	0.26	-8.90
3,109.00	5.95	38.94	3,101.19	127.89	138.57	-138.81	1.20	-0.96	-6.46
3,202.00	6.51	40.74	3,193.64	135.64	145.04	-145.30	0.64	0.60	1.94
3,296.00	5.93	36.75	3,287.09	143.56	151.43	-151.70	0.77	-0.62	-4.24
3,389.00	3.41	17.08	3,379.78	150.06	155.11	-155.40	3.17	-2.71	-21.15
3,483.00	2.76	358.18	3,473.64	154.99	155.86	-156.15	1.28	-0.69	-20.11
3,577.00	3.98	7.03	3,567.48	160.49	156.19	-156.49	1.41	1.30	9.41
3,670.00	5.21	20.56	3,660.18	167.65	158.07	-158.38	1.75	1.32	14.55
3,764.00	5.67	33.46	3,753.76	175.52	162.13	-162.46	1.39	0.49	13.72
3,857.00	4.84	41.13	3,846.37	182.31	167.24	-167.58	1.17	-0.89	8.25
3,951.00	2.80	55.34	3,940.16	186.60	171.74	-172.09	2.38	-2.17	15.12
4,044.00	1.33	67.78	4,033.10	188.30	174.61	-174.96	1.64	-1.58	13.38
4,138.00	0.24	209.52	4,127.09	188.54	175.52	-175.87	1.62	-1.16	150.79
4,231.00	0.29	189.54	4,220.09	188.14	175.38	-175.74	0.11	0.05	-21.48
4,325.00	0.34	236.64	4,314.09	187.75	175.11	-175.47	0.27	0.05	50.11
4,418.00	0.29	203.08	4,407.09	187.38	174.79	-175.14	0.20	-0.05	-36.09
4,512.00	0.37	247.56	4,501.08	187.05	174.42	-174.77	0.28	0.09	47.32
4,605.00	0.32	180.44	4,594.08	186.68	174.14	-174.49	0.41	-0.05	-72.17
4,699.00	0.54	207.39	4,688.08	186.02	173.93	-174.28	0.31	0.23	28.67
4,792.00	0.47	245.57	4,781.08	185.47	173.38	-173.73	0.36	-0.08	41.05

Survey Report

Company: Matador Resources
 Project: Eddy County, NM (NAD27 NME)
 Site: Jimmy Kone 05-24S-28E RB
 Well: #241H
 Wellbore: OH / 63554
 Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well #241H
 TVD Reference: RKB @ 3087.50usft (Patterson 297)
 MD Reference: RKB @ 3087.50usft (Patterson 297)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: USA Compass

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)
4,886.00	0.77	257.11	4,875.07	185.17	172.41	-172.76	0.34	0.32	12.28
4,980.00	1.25	266.90	4,969.06	184.98	170.77	-171.12	0.54	0.51	10.41
5,074.00	0.91	280.86	5,063.04	185.06	169.02	-169.37	0.45	-0.36	14.85
5,167.00	0.40	35.80	5,156.04	185.46	168.48	-168.83	1.22	-0.55	123.59
5,261.00	0.30	183.48	5,250.04	185.48	168.66	-169.01	0.72	-0.11	157.11
5,354.00	0.50	193.81	5,343.03	184.85	168.55	-168.90	0.23	0.22	11.11
5,448.00	0.76	201.00	5,437.03	183.87	168.23	-168.57	0.29	0.28	7.65
5,541.00	0.20	123.80	5,530.02	183.20	168.14	-168.49	0.80	-0.60	-83.01
5,635.00	0.40	75.12	5,624.02	183.19	168.59	-168.94	0.33	0.21	-51.79
5,728.00	0.46	109.51	5,717.02	183.15	169.26	-169.61	0.28	0.06	36.98
5,822.00	0.48	135.52	5,811.02	182.75	169.89	-170.24	0.23	0.02	27.67
5,916.00	0.74	137.52	5,905.01	182.02	170.58	-170.92	0.28	0.28	2.13
6,009.00	0.61	159.26	5,998.01	181.11	171.16	-171.50	0.31	-0.14	23.38
6,103.00	0.60	187.81	6,092.00	180.16	171.27	-171.61	0.32	-0.01	30.37
6,196.00	0.94	231.77	6,184.99	179.20	170.60	-170.94	0.71	0.37	47.27
6,290.00	2.67	306.97	6,278.95	180.04	168.25	-168.59	2.76	1.84	80.00
6,383.00	3.29	319.42	6,371.83	183.37	164.78	-165.13	0.96	0.67	13.39
6,477.00	2.33	320.72	6,465.71	186.90	161.82	-162.17	1.02	-1.02	1.38
6,570.00	0.63	106.68	6,558.69	188.22	161.11	-161.46	3.09	-1.83	156.95
6,664.00	0.41	121.70	6,652.69	187.89	161.89	-162.24	0.27	-0.23	15.98
6,757.00	1.47	253.22	6,745.68	187.37	161.03	-161.38	1.90	1.14	141.42
6,851.00	1.90	260.17	6,839.64	186.76	158.34	-158.69	0.51	0.46	7.39
6,944.00	0.70	259.81	6,932.61	186.39	156.26	-156.61	1.29	-1.29	-0.39
7,037.00	0.99	104.93	7,025.61	186.09	156.48	-156.83	1.78	0.31	-166.54
7,131.00	1.24	102.48	7,119.59	185.66	158.26	-158.61	0.27	0.27	-2.61
7,225.00	1.87	68.35	7,213.56	186.00	160.68	-161.03	1.16	0.67	-36.31
7,318.00	0.91	86.00	7,306.53	186.61	162.82	-163.18	1.12	-1.03	18.98
7,412.00	0.83	32.17	7,400.52	187.24	163.93	-164.28	0.84	-0.09	-57.27
7,506.00	1.33	33.38	7,494.50	188.73	164.89	-165.25	0.53	0.53	1.29
7,599.00	0.46	32.70	7,587.49	189.94	165.69	-166.05	0.94	-0.94	-0.73
7,693.00	1.43	115.06	7,681.48	189.77	166.96	-167.31	1.53	1.03	87.62
7,786.00	1.70	99.47	7,774.44	189.05	169.37	-169.72	0.54	0.29	-16.76
7,880.00	2.30	110.87	7,868.39	188.15	172.50	-172.86	0.76	0.64	12.13
7,973.00	1.17	155.20	7,961.35	186.62	174.65	-175.00	1.80	-1.22	47.67
8,067.00	1.13	236.85	8,055.33	185.24	174.27	-174.62	1.60	-0.04	86.86
8,161.00	1.14	242.43	8,149.31	184.30	172.67	-173.02	0.12	0.01	5.94
8,255.00	1.21	251.35	8,243.29	183.55	170.90	-171.25	0.21	0.07	9.49
8,348.00	1.49	241.74	8,336.27	182.66	168.90	-169.25	0.39	0.30	-10.33
8,442.00	3.02	215.59	8,430.20	180.07	166.39	-166.73	1.92	1.63	-27.82
8,535.00	3.07	215.04	8,523.06	176.04	163.53	-163.86	0.06	0.05	-0.59
8,629.00	1.77	205.27	8,616.98	172.67	161.47	-161.79	1.45	-1.38	-10.39
8,722.00	1.75	162.99	8,709.94	170.01	161.27	-161.59	1.36	-0.02	-45.46
8,816.00	2.06	117.31	8,803.89	167.86	163.19	-163.51	1.60	0.33	-48.60

Survey Report

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Site: Jimmy Kone 05-24S-28E RB
Well: #241H
Wellbore: OH / 63554
Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well #241H
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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)
8,910.00	1.97	135.64	8,897.83	165.93	165.82	-166.13	0.69	-0.10	19.50
9,003.00	1.69	96.41	8,990.79	164.64	168.30	-168.61	1.35	-0.30	-42.18
9,097.00	2.25	95.81	9,084.74	164.29	171.51	-171.82	0.60	0.60	-0.64
9,190.00	1.14	103.66	9,177.69	163.89	174.23	-174.54	1.22	-1.19	8.44
9,284.00	0.60	124.48	9,271.68	163.39	175.54	-175.85	0.66	-0.57	22.15
9,377.00	0.62	28.81	9,364.68	163.56	176.19	-176.50	0.97	0.02	-102.87
9,471.00	1.26	25.21	9,458.67	164.94	176.87	-177.18	0.68	0.68	-3.83
9,565.00	0.40	30.26	9,552.65	166.16	177.48	-177.79	0.92	-0.91	5.37
9,658.00	0.73	257.22	9,645.65	166.31	177.06	-177.38	1.12	0.35	-143.05
9,752.00	0.85	219.22	9,739.64	165.63	176.04	-176.35	0.56	0.13	-40.43
9,846.00	1.78	220.86	9,833.62	163.99	174.64	-174.95	0.99	0.99	1.74
9,939.00	1.22	195.44	9,926.59	161.94	173.43	-173.74	0.92	-0.60	-27.33
10,033.00	1.21	266.83	10,020.57	160.92	172.18	-172.48	1.51	-0.01	75.95
10,126.00	1.17	286.82	10,113.55	161.14	170.29	-170.59	0.45	-0.04	21.49
10,220.00	0.70	264.76	10,207.54	161.37	168.80	-169.10	0.62	-0.50	-23.47
10,289.00	0.49	251.22	10,276.53	161.23	168.10	-168.40	0.36	-0.30	-19.62
10,299.00	0.49	250.17	10,286.53	161.21	168.02	-168.32	0.09	0.00	-10.50
10,439.00	1.83	245.14	10,426.50	160.06	165.43	-165.73	0.96	0.96	-3.59
10,510.00	3.28	257.77	10,497.43	159.16	162.41	-162.71	2.18	2.04	17.79
10,559.00	7.02	270.59	10,546.23	158.89	158.05	-158.35	7.94	7.63	26.16
10,606.00	12.42	273.28	10,592.53	159.21	150.12	-150.42	11.53	11.49	5.72
10,653.00	16.38	271.60	10,638.05	159.68	138.45	-138.75	8.47	8.43	-3.57
10,700.00	19.20	275.47	10,682.80	160.61	124.13	-124.43	6.50	6.00	8.23
10,751.00	22.41	279.44	10,730.47	163.00	106.18	-106.49	6.87	6.29	7.78
10,798.00	27.61	278.66	10,773.05	166.11	86.56	-86.88	11.09	11.06	-1.66
10,845.00	30.95	276.84	10,814.04	169.19	63.79	-64.11	7.35	7.11	-3.87
10,892.00	35.42	278.30	10,853.36	172.60	38.30	-38.63	9.66	9.51	3.11
10,940.00	39.55	277.56	10,891.44	176.62	9.37	-9.71	8.66	8.60	-1.54
10,988.00	45.37	276.33	10,926.84	180.52	-22.78	22.44	12.25	12.13	-2.56
11,035.00	48.42	274.02	10,958.96	183.59	-56.95	56.60	7.41	6.49	-4.91
11,082.00	52.96	270.58	10,988.73	185.02	-93.26	92.91	11.19	9.66	-7.32
11,130.00	58.03	267.27	11,015.92	184.24	-132.79	132.44	11.99	10.56	-6.90
11,177.00	65.17	265.37	11,038.26	181.57	-174.02	173.67	15.60	15.19	-4.04
11,224.00	69.55	266.81	11,056.35	178.62	-217.28	216.95	9.74	9.32	3.06
11,271.00	75.32	269.42	11,070.53	177.16	-262.04	261.71	13.37	12.28	5.55
11,319.00	81.03	269.53	11,080.36	176.73	-309.00	308.67	11.90	11.90	0.23
11,366.00	87.11	268.30	11,085.21	175.84	-355.72	355.39	13.20	12.94	-2.62
11,413.00	89.02	268.49	11,086.80	174.53	-402.67	402.34	4.08	4.06	0.40
11,508.00	89.69	269.22	11,087.87	172.63	-497.65	497.32	1.04	0.71	0.77
11,602.00	89.86	269.51	11,088.24	171.59	-591.64	591.32	0.36	0.18	0.31
11,698.00	91.48	271.26	11,087.12	172.23	-687.63	687.30	2.48	1.69	1.82
11,793.00	92.91	271.63	11,083.48	174.63	-782.52	782.19	1.55	1.51	0.39
11,887.00	91.71	268.54	11,079.69	174.76	-876.43	876.10	3.52	-1.28	-3.29
11,982.00	92.10	267.32	11,076.53	171.33	-971.32	970.99	1.35	0.41	-1.28

Survey Report

Company: Matador Resources
Project: Eddy County, NM (NAD27 NME)
Site: Jimmy Kone 05-24S-28E RB
Well: #241H
Wellbore: OH / 63554
Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well #241H
TVD Reference: RKB @ 3087.50usft (Patterson 297)
MD Reference: RKB @ 3087.50usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA Compass

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)
12,077.00	92.69	267.90	11,072.56	167.38	-1,066.15	1,065.83	0.87	0.62	0.61
12,172.00	90.92	268.96	11,069.57	164.78	-1,161.06	1,160.75	2.17	-1.86	1.12
12,267.00	90.95	268.41	11,068.02	162.60	-1,256.03	1,255.72	0.58	0.03	-0.58
12,361.00	91.12	268.35	11,066.32	159.94	-1,349.97	1,349.67	0.19	0.18	-0.06
12,455.00	91.46	269.17	11,064.20	157.90	-1,443.93	1,443.62	0.94	0.36	0.87
12,550.00	91.85	269.75	11,061.46	157.01	-1,538.88	1,538.58	0.74	0.41	0.61
12,644.00	91.74	269.78	11,058.51	156.62	-1,632.83	1,632.54	0.12	-0.12	0.03
12,738.00	91.62	271.26	11,055.76	157.48	-1,726.79	1,726.49	1.58	-0.13	1.57
12,833.00	91.90	272.23	11,052.84	160.37	-1,821.70	1,821.39	1.06	0.29	1.02
12,927.00	92.02	273.51	11,049.63	165.07	-1,915.52	1,915.21	1.37	0.13	1.36
13,021.00	90.53	274.22	11,047.53	171.41	-2,009.28	2,008.95	1.76	-1.59	0.76
13,115.00	90.45	271.35	11,046.73	175.97	-2,103.16	2,102.82	3.05	-0.09	-3.05
13,209.00	90.03	269.18	11,046.34	176.41	-2,197.15	2,196.81	2.35	-0.45	-2.31
13,304.00	90.62	269.62	11,045.80	175.41	-2,292.14	2,291.81	0.77	0.62	0.46
13,398.00	92.52	267.89	11,043.22	173.37	-2,386.08	2,385.75	2.73	2.02	-1.84
13,493.00	92.44	266.15	11,039.11	168.44	-2,480.86	2,480.53	1.83	-0.08	-1.83
13,588.00	93.08	264.00	11,034.54	160.29	-2,575.39	2,575.08	2.36	0.67	-2.26
13,683.00	91.99	262.65	11,030.33	149.26	-2,669.65	2,669.36	1.83	-1.15	-1.42
13,778.00	92.69	266.07	11,026.45	139.93	-2,764.10	2,763.83	3.67	0.74	3.60
13,872.00	93.39	268.51	11,021.47	135.50	-2,857.85	2,857.59	2.70	0.74	2.60
13,966.00	93.05	270.45	11,016.19	134.64	-2,951.69	2,951.43	2.09	-0.36	2.06
14,061.00	92.21	266.36	11,011.83	132.00	-3,046.54	3,046.28	4.39	-0.88	-4.31
14,156.00	93.19	266.99	11,007.35	126.50	-3,141.27	3,141.03	1.23	1.03	0.66
14,251.00	96.93	270.75	10,998.97	124.62	-3,235.85	3,235.61	5.57	3.94	3.96
14,345.00	95.70	272.78	10,988.63	127.50	-3,329.23	3,328.98	2.51	-1.31	2.16
14,440.00	94.18	273.02	10,980.45	132.29	-3,423.75	3,423.49	1.62	-1.60	0.25
14,535.00	94.91	273.57	10,972.92	137.73	-3,518.29	3,518.03	0.96	0.77	0.58
14,629.00	93.84	272.20	10,965.75	142.45	-3,611.90	3,611.62	1.85	-1.14	-1.46
14,724.00	92.18	272.03	10,960.76	145.95	-3,706.70	3,706.41	1.76	-1.75	-0.18
14,819.00	92.60	273.23	10,956.80	150.31	-3,801.51	3,801.22	1.34	0.44	1.26
14,913.00	91.57	272.51	10,953.38	155.01	-3,895.33	3,895.03	1.34	-1.10	-0.77
15,007.00	90.92	272.67	10,951.34	159.26	-3,989.21	3,988.90	0.71	-0.69	0.17
15,101.00	94.68	276.49	10,946.75	166.75	-4,082.77	4,082.44	5.70	4.00	4.06
15,195.00	92.44	276.37	10,940.91	177.25	-4,175.99	4,175.65	2.39	-2.38	-0.13
15,290.00	94.60	276.50	10,935.08	187.88	-4,270.21	4,269.84	2.28	2.27	0.14
15,385.00	93.73	275.08	10,928.18	197.44	-4,364.47	4,364.09	1.75	-0.92	-1.49
15,479.00	91.15	273.29	10,924.18	204.29	-4,458.12	4,457.73	3.34	-2.74	-1.90
15,574.00	91.51	273.80	10,921.97	210.16	-4,552.91	4,552.51	0.66	0.38	0.54
15,668.00	91.32	271.46	10,919.65	214.47	-4,646.78	4,646.37	2.50	-0.20	-2.49
15,763.00	90.62	272.61	10,918.04	217.84	-4,741.70	4,741.28	1.42	-0.74	1.21
15,835.00	91.06	272.56	10,916.99	221.09	-4,813.62	4,813.20	0.62	0.61	-0.07
Final PHX MWD Survey									
15,900.00	91.06	272.56	10,915.78	223.99	-4,878.55	4,878.11	0.00	0.00	0.00

Survey Report

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Project: Eddy County, NM (NAD27 NME)
Site: Jimmy Kone 05-24S-28E RB
Well: #241H
Wellbore: OH / 63554
Design: Surveys (Patterson 297)

Local Co-ordinate Reference: Well #241H
TVD Reference: RKB @ 3087.50usft (Patterson 297)
MD Reference: RKB @ 3087.50usft (Patterson 297)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA Compass

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)
Projection to TD									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHLV3 - Jimmy Kone	0.00	0.00	10,959.0	175.00	-4,869.00	455,573.00	566,881.00	32° 15' 8.28691 N	104° 7' 1.16474 W
- survey misses target center by 64.83usft at 15887.48usft MD (10916.01 TVD, 223.43 N, -4866.04 E)									
- Point									
LTPV3 - Jimmy Kone I	0.00	0.00	10,959.0	175.00	-4,779.00	455,573.00	566,971.00	32° 15' 8.28511 N	104° 7' 0.11668 W
- survey misses target center by 60.78usft at 15797.72usft MD (10917.60 TVD, 219.42 N, -4776.39 E)									
- Point									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
169.00	169.00	0.45	0.22	First PHX MWD Survey
15,835.00	10,916.99	221.09	-4,813.62	Final PHX MWD Survey
15,900.00	10,915.78	223.99	-4,878.55	Projection to TD