



NATIONAL OILWELL VARCO

FloSurvey - Real Time Survey Tool

1200 Cypress Creek Road

Cedar Park, TX 78613

Phone: (512)340-5000

Fax: (512)340-5441

February 19, 2015

HOBBS OCD

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

JUN 24 2015

RECEIVED

30-025-42352

CLIENT: Matador Resources
WELL: Cimarron 16 19 34 RN State #134H
FIELD: Quail Ridge; Bone Spring
RIG: Patterson 262
COUNTY: Lea
API NO: 30-025-42352

We hereby certify that the enclosed field survey data performed on the referenced well by National Oilwell Varco, contained in this report represents to the best of our knowledge, a true and accurate survey of the surveyed section of the well at the time the survey was run.

Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Jose Olivas Field Service Technician	Cimarron 16 19 34 RN State #134H Original Hole	335.00 Ft to 5822.00 Ft	February 7, 2015 to February 17, 2015	FloSurvey

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Mark Xenakis
Field Service Manager

CC: Matador Resources
Enclosures: [2]
County of Lea
State of New Mexico

Attn: Ava Monroe
5400 LBJ Freeway, STE 1500
Dallas, TX 75240

Attn:

JUN 29 2015



FloSurvey - Real Time Survey Tool

1200 Cypress Creek Road

Cedar Park, TX 78613

Phone: (512) 340-5000

Fax: (512) 340-5441

I, Jose Olivas certify that; I am employed by National Oilwell Varco, L.P.; that the surveys taken on the day(s) of February 07, 2015 through February 17, 2015, from a depth of 335 feet to a depth of 5822 feet; are to the best of my knowledge, the data is true, correct, complete and within the limitations of the tool as set forth by National Oilwell Varco, L.P.; that I am authorized and qualified to make this report; that this survey was conducted at the request of Matador Resources for the Cimarron 16 19 34 RN State #134H Well (Original Hole) API No. 30-025-42352 in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by National Oilwell Varco, L.P.

Signature

A handwritten signature in black ink, appearing to read 'JOOLIVAS', written over a horizontal line.

Jose Olivas

Field Service Technician

Matador Production Company
Lea County
Cimarron 16 19 34 RN State #134H
Surveys: 335`MD - 5822`MD

National Oilwell Varco

Survey Report

19 February 2015

UWI No. 30-025-42352

Surface Coordinates: 607129.00 N, 738164.00 E (32° 40' 00.1613" N, 103° 33' 33.8644" W)
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Foot

Surface Coordinates relative to Map Coordinates: 607129.00 N, 738164.00 E (Grid)
Surface Coordinates relative to Map Coordinates: 607129.00 N, 738164.00 E (Grid)

Kelly Bushing Elevation: 3847.50ft above Mean Sea Level
Kelly Bushing Elevation: 3847.50ft above Mean Sea Level

Kelly Bushing Elevation: 22.50ft above Ground Level
Ground Level: 3825.00ft

Survey Ref: svy304
Date of Survey: 17 February 2015

Matador Production Company

Survey Report for Lea County, Cimarron 16 19 34 RN State #134H, Surveys: 335`MD - 5822`MD

Survey Depth (ft)	Incl. (°)	(Grid) Azim. (°)	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	
335.00	0.55	181.41	334.99	1.61 S	0.04 W	-1.60	0.164
547.00	0.34	189.31	546.99	3.25 S	0.17 W	-3.24	0.103
730.00	0.46	201.39	729.98	4.47 S	0.52 W	-4.50	0.080
911.00	0.54	225.04	910.98	5.74 S	1.39 W	-5.87	0.121
1099.00	0.39	230.75	1098.97	6.78 S	2.51 W	-7.02	0.083
1383.00	0.27	317.76	1382.97	6.89 S	3.71 W	-7.28	0.163
1847.00	0.74	190.52	1846.96	9.03 S	4.99 W	-9.55	0.200
2026.00	1.02	110.30	2025.94	10.72 S	3.71 W	-11.08	0.645
2217.00	0.75	290.09	2216.93	10.88 S	3.29 W	-11.19	0.927
2403.00	0.71	80.17	2402.93	10.26 S	3.30 W	-10.58	0.758
2712.00	1.03	102.16	2711.89	10.52 S	1.30 E	-10.29	0.148
2977.00	0.75	306.94	2976.88	9.98 S	2.25 E	-9.64	0.656
3162.00	0.64	55.83	3161.87	8.67 S	2.13 E	-8.36	0.612
3258.00	0.68	298.61	3257.87	8.10 S	2.08 E	-7.80	1.174
3355.00	0.60	190.73	3354.86	8.32 S	1.48 E	-8.09	1.068
3444.00	0.22	329.82	3443.86	8.63 S	1.30 E	-8.42	0.876
3541.00	0.21	129.69	3540.86	8.58 S	1.35 E	-8.36	0.436
3730.00	0.34	91.09	3729.86	8.82 S	2.17 E	-8.50	0.116
3918.00	0.46	155.62	3917.86	9.51 S	3.04 E	-9.09	0.233
3970.00	0.57	90.50	3969.86	9.71 S	3.39 E	-9.24	1.081
4102.00	0.81	295.53	4101.85	9.31 S	3.20 E	-8.87	1.021
4297.00	0.84	106.90	4296.84	9.13 S	3.33 E	-8.67	0.844
4476.00	0.81	284.58	4475.84	9.19 S	3.36 E	-8.73	0.922
4665.00	0.84	84.33	4664.83	8.72 S	3.44 E	-8.25	0.859
4852.00	0.99	279.61	4851.82	8.32 S	3.22 E	-7.88	0.970
5198.00	1.58	26.24	5197.77	3.54 S	2.38 E	-3.23	0.604
5389.00	1.62	12.19	5388.70	1.46 N	4.11 E	1.94	0.206
5576.00	1.54	333.23	5575.63	6.29 N	3.54 E	6.66	0.565
5822.00	1.41	348.65	5821.55	12.21 N	1.45 E	12.29	0.169

All data is in Feet (US Survey) unless otherwise stated. Directions and coordinates are relative to Grid North.

Vertical depths are relative to Cimarron 16 19 34 RN State #134H. Northings and Eastings are relative to Cimarron 16 19 34 RN State #134H.

The dogleg severity is in Degrees per 100 feet (US Survey).

Vertical Section is from Cimarron 16 19 34 RN State #134H calculated along an azimuth of 6.79° (Grid).

Based upon minimum curvature calculations, at a measured depth of 5822.00ft, the bottom hole displacement is 12.29ft, in the direction of 6.79° (Grid).

The along-hole displacement is 57.48ft. The total accumulated dogleg is 20.491°.

The measured tortuosity is 0.360°/100ft. The directional difficulty index is 2.6.

Survey Tool Program for Cimarron 16 19 34 RN State #134H, Surveys: 335`MD - 5822`MD

From Measured Depth (ft)	To Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Survey Tool Description
0.00	0.00	5822.00	5821.55	FloSurvey TiltOnlyMEM

Matador Production Company

Survey Report for Lea County, Cimarron 16 19 34 RN State #134H, Surveys: 335`MD - 5822`MD

REFERENCE DATA

Ellipsoid	Clarke - 1866	Unit System	Feet (Us Survey)
Coord. System	NAD27 New Mexico State Planes, Eastern Zone, US Foc	North Ref.	Grid North
Mag. Model	IGRF2010	Vertical Ref.	Mean Sea Level
Calc. Date	05 Feb, 2015		

LOCATION DATA

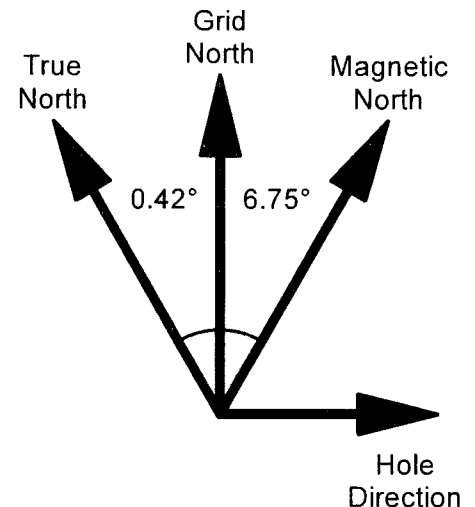
RKB Elevation	3847.50ft above MSL	Total Field	48514.9 nT
Map North	607129.00 N	Magnetic Dip	60.51°
Map East	738164.00 E	Declination	7.16°
Latitude	32° 40' 00.1613" N	Convergence	0.42°
Longitude	103° 33' 33.8644" W		

NORTH REFERENCE DATA

Magnetic Model	IGRF2010
Calculation Date	Thursday, February 05, 2015
Declination	7.16°
Inclination/Dip	60.51°
Horizontal Component	23885.6 nT
Northerly Component	23700.2 nT
Easterly Component	2978.0 nT
Vertical Component	42227.8 nT
Total Field Strength	48514.9 nT

Grid North is 0.42 degrees East of True North (Grid Convergence)
Magnetic North is 7.16 degrees East of True North (Magnetic Declination)
Magnetic North is 6.75 degrees East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Subtract 0.42 degrees.
To convert a Magnetic Direction to a True Direction, Add 7.16 degrees.
To convert a Magnetic Direction to a Grid Direction, Add 6.75 degrees.



Disclaimer Notice

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HOBBS OCD

JUN 24 2015

RECEIVED

30-025-42352

Matador Resources

Lea County, NM (NAD 27)

Cimarron 16-19S-34E

#134H

Wellbore #1 Job #1512985

Design: Surveys (Patterson 262)

Standard Survey Report

09 March, 2015



PHOENIX
TECHNOLOGY SERVICES



Phoenix Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #134H
Project:	Lea County, NM (NAD 27)	TVD Reference:	GL3825+KB22.5 @ 3847.50usft (Patterson 262)
Site:	Cimarron 16-19S-34E	MD Reference:	GL3825+KB22.5 @ 3847.50usft (Patterson 262)
Well:	#134H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1512985	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 262)	Database:	Compass 5000 GCR

Project	Lea County, NM (NAD 27)		
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	Cimarron 16-19S-34E		
Site Position:		Northing:	607,129.00 usft
From:	Map	Easting:	738,164.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 40' 0.16131 N
		Longitude:	103° 33' 33.86441 W
		Grid Convergence:	0.42 °

Well	#134H		
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° 40' 0.16131 N
		Longitude:	103° 33' 33.86441 W
		Ground Level:	3,825.00 usft

Wellbore	Wellbore #1 Job #1512985				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	2/12/2015	7.29	60.49	48,481

Design	Surveys (Patterson 262)				
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	179.49	

Survey Program	Date 3/9/2015				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
141.00	5,793.00	Matador Field MWD (Wellbore #1 Job #15	MWD	MWD - Standard	
5,946.00	15,464.00	Phoenix MWD Surveys (Wellbore #1 Job #	PHX+MWD+BGGM	PHX+MWD+BGGM v3:standard declination	

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)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	141.00	0.40	304.00	141.00	0.28	-0.41	-0.28	0.28	0.28	0.00
	335.00	0.50	183.00	335.00	-0.19	-1.01	0.18	0.40	0.05	-62.37
	547.00	0.20	191.00	546.99	-1.48	-1.13	1.47	0.14	-0.14	3.77
	730.00	0.30	198.00	729.99	-2.25	-1.34	2.24	0.06	0.05	3.83
	911.00	0.40	228.00	910.99	-3.12	-1.96	3.10	0.11	0.06	16.57
	1,099.00	0.20	235.00	1,098.98	-3.75	-2.71	3.72	0.11	-0.11	3.72
	1,279.00	0.30	202.00	1,278.98	-4.37	-3.15	4.34	0.10	0.06	-18.33
	1,383.00	0.20	311.00	1,382.98	-4.50	-3.39	4.47	0.40	-0.10	104.81
	1,716.00	0.20	0.00	1,715.98	-3.54	-3.83	3.50	0.05	0.00	14.71



Phoenix
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #134H
Project:	Lea County, NM (NAD 27)	TVD Reference:	GL3825+KB22.5 @ 3847.50usft (Patterson 262)
Site:	Cimarron 16-19S-34E	MD Reference:	GL3825+KB22.5 @ 3847.50usft (Patterson 262)
Well:	#134H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1512985	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 262)	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)
1,812.00	0.20	0.00	1,811.98	-3.20	-3.83	3.17	0.00	0.00	0.00
1,904.00	0.70	190.00	1,903.98	-3.59	-3.92	3.56	0.98	0.54	-184.78
2,026.00	0.90	111.00	2,025.97	-4.67	-3.16	4.64	0.84	0.16	-64.75
2,217.00	0.70	291.00	2,216.96	-4.79	-2.85	4.77	0.84	-0.10	-94.24
2,403.00	0.60	82.00	2,402.96	-4.25	-2.94	4.22	0.68	-0.05	81.18
2,572.00	0.60	277.00	2,571.95	-4.02	-2.95	3.99	0.70	0.00	-97.63
2,759.00	1.00	103.00	2,758.95	-4.26	-2.33	4.24	0.85	0.21	-93.05
2,948.00	0.60	308.00	2,947.94	-4.03	-1.50	4.01	0.83	-0.21	-82.01
3,133.00	0.60	57.00	3,132.93	-2.90	-1.45	2.89	0.53	0.00	58.92
3,229.00	0.60	299.00	3,228.93	-2.39	-1.47	2.37	1.07	0.00	-122.92
3,415.00	0.10	332.00	3,414.93	-1.77	-2.40	1.75	0.28	-0.27	17.74
3,512.00	0.10	130.00	3,511.93	-1.75	-2.37	1.73	0.20	0.00	162.89
3,701.00	0.30	91.00	3,700.93	-1.86	-1.75	1.85	0.12	0.11	-20.63
3,889.00	0.30	157.00	3,888.92	-2.33	-1.07	2.32	0.17	0.00	35.11
3,941.00	0.40	93.00	3,940.92	-2.46	-0.83	2.45	0.73	0.19	-123.08
4,368.00	0.80	108.00	4,367.90	-3.46	3.49	3.49	0.10	0.09	3.51
4,526.00	0.70	283.00	4,525.89	-3.58	3.60	3.62	0.95	-0.06	110.76
4,636.00	0.80	110.00	4,635.89	-3.69	3.67	3.73	1.36	0.09	-157.27
4,823.00	0.80	279.00	4,822.89	-3.94	3.60	3.97	0.85	0.00	90.37
5,169.00	1.70	13.00	5,168.82	1.44	2.37	-1.42	0.56	0.26	27.17
5,360.00	1.50	6.00	5,359.75	6.69	3.27	-6.66	0.15	-0.10	-3.66
5,547.00	1.50	336.00	5,546.69	11.36	2.53	-11.34	0.42	0.00	-16.04
5,793.00	1.30	355.00	5,792.62	17.08	0.98	-17.07	0.20	-0.08	7.72
5,946.00	1.90	356.20	5,945.56	21.34	0.66	-21.33	0.39	0.39	0.78
First Phoenix MWD Survey									
6,040.00	2.10	70.60	6,039.51	23.47	2.18	-23.45	2.58	0.21	79.15
6,134.00	3.20	75.30	6,133.41	24.71	6.34	-24.65	1.19	1.17	5.00
6,228.00	3.50	90.00	6,227.25	25.37	11.75	-25.27	0.96	0.32	15.64
6,322.00	5.50	88.70	6,320.96	25.47	19.12	-25.30	2.13	2.13	-1.38
6,416.00	6.50	89.10	6,414.44	25.66	28.95	-25.40	1.06	1.06	0.43
6,511.00	8.30	86.70	6,508.65	26.14	41.17	-25.77	1.92	1.89	-2.53
6,605.00	9.70	83.30	6,601.49	27.45	55.81	-26.95	1.59	1.49	-3.62
6,700.00	11.00	81.00	6,694.94	29.80	72.71	-29.16	1.44	1.37	-2.42
6,795.00	12.40	75.90	6,787.97	33.71	91.56	-32.89	1.83	1.47	-5.37
6,889.00	13.30	73.40	6,879.61	39.26	111.71	-38.26	1.13	0.96	-2.66
6,983.00	13.30	75.90	6,971.09	44.98	132.56	-43.80	0.61	0.00	2.66
7,077.00	12.90	77.70	7,062.65	49.85	153.30	-48.48	0.61	-0.43	1.91
7,171.00	12.40	75.80	7,154.36	54.56	173.33	-53.01	0.69	-0.53	-2.02
7,265.00	11.90	72.60	7,246.26	59.93	192.36	-58.22	0.89	-0.53	-3.40
7,359.00	11.20	75.30	7,338.36	65.15	210.44	-63.27	0.94	-0.74	2.87
7,453.00	11.70	70.90	7,430.49	70.58	228.28	-68.55	1.07	0.53	-4.68
7,547.00	11.30	68.20	7,522.60	77.12	245.84	-74.93	0.71	-0.43	-2.87
7,642.00	10.60	69.40	7,615.87	83.65	262.66	-81.31	0.77	-0.74	1.26



Phoenix
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #134H
Project:	Lea County, NM (NAD 27)	TVD Reference:	GL3825+KB22.5 @ 3847.50usft (Patterson 262)
Site:	Cimarron 16-19S-34E	MD Reference:	GL3825+KB22.5 @ 3847.50usft (Patterson 262)
Well:	#134H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1512985	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 262)	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)
7,736.00	11.40	67.30	7,708.14	90.28	279.32	-87.79	0.95	0.85	-2.23
7,830.00	10.30	66.80	7,800.46	97.18	295.62	-94.54	1.17	-1.17	-0.53
7,924.00	10.40	66.30	7,892.93	103.90	311.11	-101.12	0.14	0.11	-0.53
8,019.00	11.50	67.30	7,986.20	111.00	327.70	-108.08	1.17	1.16	1.05
8,113.00	10.40	67.10	8,078.49	117.92	344.16	-114.85	1.17	-1.17	-0.21
8,207.00	8.80	63.80	8,171.17	124.39	358.43	-121.20	1.80	-1.70	-3.51
8,301.00	9.40	59.30	8,263.99	131.49	371.48	-128.17	0.99	0.64	-4.79
8,395.00	11.90	57.20	8,356.36	140.66	386.23	-137.21	2.69	2.66	-2.23
8,489.00	10.40	54.90	8,448.58	150.79	401.32	-147.21	1.66	-1.60	-2.45
8,584.00	8.50	48.10	8,542.29	160.41	413.56	-156.72	2.32	-2.00	-7.16
8,679.00	7.60	42.80	8,636.36	169.70	423.06	-165.93	1.23	-0.95	-5.58
8,773.00	6.50	41.00	8,729.65	178.28	430.77	-174.44	1.19	-1.17	-1.91
8,868.00	4.90	46.60	8,824.17	185.13	437.25	-181.23	1.78	-1.68	5.89
8,957.00	3.80	42.30	8,912.92	189.92	441.99	-185.98	1.29	-1.24	-4.83
9,052.00	3.40	34.20	9,007.73	194.58	445.69	-190.60	0.68	-0.42	-8.53
9,144.00	2.50	30.00	9,099.61	198.57	448.23	-194.58	1.01	-0.98	-4.57
9,239.00	1.90	60.80	9,194.54	201.14	450.64	-197.12	1.37	-0.63	32.42
9,333.00	0.70	76.70	9,288.51	202.03	452.56	-197.99	1.32	-1.28	16.91
9,427.00	0.40	171.00	9,382.51	201.84	453.17	-197.79	0.88	-0.32	100.32
9,521.00	0.10	210.70	9,476.51	201.44	453.18	-197.40	0.35	-0.32	42.23
9,616.00	0.40	285.70	9,571.51	201.46	452.82	-197.42	0.41	0.32	78.95
9,711.00	0.60	307.40	9,666.51	201.85	452.10	-197.82	0.29	0.21	22.84
9,804.00	1.40	303.80	9,759.49	202.78	450.77	-198.76	0.86	0.86	-3.87
9,899.00	2.40	283.50	9,854.44	203.89	447.88	-199.90	1.25	1.05	-21.37
9,993.00	2.50	275.70	9,948.35	204.55	443.92	-200.59	0.37	0.11	-8.30
10,087.00	2.10	256.40	10,042.28	204.35	440.21	-200.43	0.92	-0.43	-20.53
10,118.00	2.40	233.40	10,073.25	203.83	439.13	-199.91	3.04	0.97	-74.19
10,147.00	2.70	213.90	10,102.23	202.90	438.27	-198.99	3.15	1.03	-67.24
10,178.00	3.80	186.10	10,133.18	201.27	437.75	-197.37	6.10	3.55	-89.68
10,210.00	7.20	171.00	10,165.03	198.24	437.95	-194.33	11.46	10.63	-47.19
10,241.00	11.00	169.60	10,195.63	193.41	438.79	-189.50	12.28	12.26	-4.52
10,272.00	14.90	167.90	10,225.84	186.60	440.16	-182.68	12.64	12.58	-5.48
10,304.00	19.30	166.00	10,256.42	177.44	442.30	-173.50	13.86	13.75	-5.94
10,336.00	23.70	166.20	10,286.18	166.06	445.12	-162.09	13.75	13.75	0.63
10,367.00	28.10	168.60	10,314.06	152.85	448.05	-148.85	14.59	14.19	7.74
10,398.00	32.20	170.40	10,340.86	137.54	450.87	-133.52	13.54	13.23	5.81
10,430.00	35.50	169.90	10,367.43	119.98	453.92	-115.93	10.35	10.31	-1.56
10,461.00	37.60	168.70	10,392.34	101.84	457.35	-97.77	7.16	6.77	-3.87
10,492.00	39.70	165.90	10,416.55	82.96	461.62	-78.85	8.81	6.77	-9.03
10,524.00	43.40	164.10	10,440.49	62.47	467.12	-58.31	12.15	11.56	-5.63
10,555.00	46.10	163.00	10,462.51	41.54	473.31	-37.33	9.06	8.71	-3.55
10,587.00	48.30	162.20	10,484.25	19.14	480.33	-14.86	7.12	6.88	-2.50
10,618.00	50.40	161.90	10,504.44	-3.23	487.58	7.57	6.81	6.77	-0.97



Phoenix
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #134H
Project:	Lea County, NM (NAD 27)	TVD Reference:	GL3825+KB22.5 @ 3847.50usft (Patterson 262)
Site:	Cimarron 16-19S-34E	MD Reference:	GL3825+KB22.5 @ 3847.50usft (Patterson 262)
Well:	#134H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1512985	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 262)	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)
10,649.00	52.20	162.30	10,523.82	-26.26	495.01	30.66	5.89	5.81	1.29
10,680.00	54.40	161.70	10,542.35	-49.89	502.70	54.36	7.26	7.10	-1.94
10,711.00	56.10	162.40	10,560.02	-74.12	510.54	78.66	5.79	5.48	2.26
10,743.00	57.70	162.90	10,577.49	-99.71	518.54	104.32	5.17	5.00	1.56
10,774.00	59.50	163.70	10,593.64	-125.05	526.14	129.73	6.21	5.81	2.58
10,805.00	60.90	164.60	10,609.05	-150.93	533.48	155.67	5.17	4.52	2.90
10,837.00	62.30	165.90	10,624.27	-178.15	540.65	182.96	5.65	4.38	4.06
10,868.00	63.30	166.70	10,638.44	-204.94	547.18	209.80	3.96	3.23	2.58
10,899.00	65.30	167.00	10,651.88	-232.14	553.53	237.05	6.51	6.45	0.97
10,931.00	67.30	167.40	10,664.74	-260.71	560.02	265.68	6.35	6.25	1.25
10,962.00	70.60	167.40	10,675.88	-288.94	566.33	293.97	10.65	10.65	0.00
10,994.00	73.10	167.80	10,685.84	-318.64	572.86	323.72	7.90	7.81	1.25
11,025.00	75.40	168.60	10,694.26	-347.84	578.96	352.98	7.82	7.42	2.58
11,057.00	77.60	169.40	10,701.73	-378.38	584.90	383.57	7.29	6.88	2.50
11,088.00	79.70	170.40	10,707.83	-408.30	590.22	413.54	7.48	6.77	3.23
11,119.00	81.60	171.10	10,712.87	-438.49	595.14	443.77	6.52	6.13	2.26
11,151.00	83.80	171.80	10,716.93	-469.88	599.86	475.20	7.21	6.88	2.19
11,182.00	86.20	173.20	10,719.63	-500.49	603.89	505.85	8.95	7.74	4.52
11,241.00	87.10	173.90	10,723.08	-559.02	610.50	564.43	1.93	1.53	1.19
11,308.00	89.90	176.30	10,724.83	-625.74	616.22	631.20	5.50	4.18	3.58
11,402.00	89.80	178.20	10,725.08	-719.62	620.73	725.12	2.02	-0.11	2.02
11,496.00	89.80	179.80	10,725.41	-813.61	622.37	819.11	1.70	0.00	1.70
11,591.00	89.80	180.00	10,725.74	-908.61	622.54	914.11	0.21	0.00	0.21
11,685.00	89.80	179.50	10,726.07	-1,002.60	622.95	1,008.11	0.53	0.00	-0.53
11,779.00	90.50	180.90	10,725.82	-1,096.60	622.62	1,102.10	1.67	0.74	1.49
11,873.00	91.30	180.60	10,724.35	-1,190.58	621.39	1,196.06	0.91	0.85	-0.32
11,966.00	92.00	180.40	10,721.67	-1,283.54	620.58	1,289.01	0.78	0.75	-0.22
12,060.00	92.10	180.40	10,718.31	-1,377.47	619.92	1,382.94	0.11	0.11	0.00
12,155.00	91.30	181.10	10,715.49	-1,472.42	618.68	1,477.87	1.12	-0.84	0.74
12,248.00	91.70	180.70	10,713.05	-1,565.38	617.22	1,570.81	0.61	0.43	-0.43
12,343.00	90.50	181.60	10,711.23	-1,660.34	615.31	1,665.75	1.58	-1.26	0.95
12,437.00	90.10	181.70	10,710.74	-1,754.30	612.61	1,759.68	0.44	-0.43	0.11
12,532.00	89.80	181.20	10,710.82	-1,849.27	610.20	1,854.63	0.61	-0.32	-0.53
12,626.00	90.80	179.70	10,710.33	-1,943.26	609.47	1,948.61	1.92	1.06	-1.60
12,720.00	89.40	179.70	10,710.16	-2,037.26	609.96	2,042.61	1.49	-1.49	0.00
12,815.00	90.50	179.80	10,710.25	-2,132.25	610.37	2,137.60	1.16	1.16	0.11
12,909.00	89.10	180.90	10,710.57	-2,226.25	609.80	2,231.59	1.89	-1.49	1.17
13,004.00	88.10	182.00	10,712.90	-2,321.19	607.39	2,326.50	1.56	-1.05	1.16
13,097.00	89.40	181.90	10,714.92	-2,414.11	604.23	2,419.39	1.40	1.40	-0.11
13,191.00	90.90	181.90	10,714.68	-2,508.05	601.11	2,513.31	1.60	1.60	0.00
13,285.00	89.70	180.40	10,714.19	-2,602.03	599.23	2,607.26	2.04	-1.28	-1.60
13,379.00	87.30	179.50	10,716.65	-2,695.99	599.31	2,701.22	2.73	-2.55	-0.96
13,474.00	88.50	179.40	10,720.13	-2,790.92	600.22	2,796.15	1.27	1.26	-0.11
13,568.00	89.70	178.90	10,721.60	-2,884.90	601.62	2,890.14	1.38	1.28	-0.53



Phoenix Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well #134H
Project:	Lea County, NM (NAD 27)	TVD Reference:	GL3825+KB22.5 @ 3847.50usft (Patterson 262)
Site:	Cimarron 16-19S-34E	MD Reference:	GL3825+KB22.5 @ 3847.50usft (Patterson 262)
Well:	#134H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1512985	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 262)	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)
13,662.00	91.20	178.50	10,720.87	-2,978.87	603.75	2,984.12	1.65	1.60	-0.43
13,757.00	91.00	180.00	10,719.04	-3,073.84	604.99	3,079.10	1.59	-0.21	1.58
13,851.00	89.50	181.10	10,718.63	-3,167.83	604.09	3,173.08	1.98	-1.60	1.17
13,945.00	88.60	181.70	10,720.19	-3,261.79	601.79	3,267.01	1.15	-0.96	0.64
14,040.00	89.20	181.80	10,722.01	-3,356.72	598.89	3,361.92	0.64	0.63	0.11
14,133.00	89.50	181.40	10,723.07	-3,449.68	596.30	3,454.85	0.54	0.32	-0.43
14,227.00	87.00	179.80	10,725.94	-3,543.62	595.31	3,548.78	3.16	-2.66	-1.70
14,322.00	86.20	178.10	10,731.57	-3,638.43	597.05	3,643.60	1.97	-0.84	-1.79
14,416.00	87.50	177.80	10,736.74	-3,732.23	600.41	3,737.43	1.42	1.38	-0.32
14,511.00	88.70	177.40	10,739.89	-3,827.09	604.38	3,832.32	1.33	1.26	-0.42
14,605.00	89.90	177.00	10,741.04	-3,920.97	608.97	3,926.24	1.35	1.28	-0.43
14,698.00	91.20	176.10	10,740.15	-4,013.80	614.57	4,019.11	1.70	1.40	-0.97
14,793.00	90.60	178.90	10,738.65	-4,108.68	618.71	4,114.03	3.01	-0.63	2.95
14,887.00	89.00	179.40	10,738.98	-4,202.67	620.11	4,208.02	1.78	-1.70	0.53
14,982.00	87.40	180.20	10,741.96	-4,297.62	620.44	4,302.97	1.88	-1.68	0.84
15,076.00	88.80	180.00	10,745.08	-4,391.56	620.27	4,396.91	1.50	1.49	-0.21
15,170.00	90.10	179.80	10,745.98	-4,485.56	620.44	4,490.90	1.40	1.38	-0.21
15,265.00	91.40	179.50	10,744.74	-4,580.55	621.02	4,585.89	1.40	1.37	-0.32
15,359.00	92.70	179.10	10,741.38	-4,674.48	622.17	4,679.83	1.45	1.38	-0.43
Final Phoenix MWD Survey									
15,464.00	92.70	179.10	10,736.43	-4,779.35	623.81	4,784.71	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)	
5,946.00	5,945.56	21.34	0.66	First Phoenix MWD Survey
15,359.00	10,741.38	-4,674.48	622.17	Final Phoenix MWD Survey
15,464.00	10,736.43	-4,779.35	623.81	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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