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Matador Resources

DISTRICT II-ARTESIA O.C.D.

Eddy County, NM

Sec 14, T24S, R28E

Janie Conner 13-24S-28E RB #202H

Wellbore #1

30-015-43920

Design: Wellbore #1

QES Survey Certification Report

19 January, 2018



Quintana Energy Services

11390 FM 830
Willis, TX 77318
Phone: (936) 856-4332
Fax: (936) 856-8678



Survey Certification Sheet

Company	Job Number	Date
Matador Resources	WT-171379	1/25/2018

Lease	Well Name	County & State
SEC 14, T-24S, R28E	Janie Conner 13-24S-28E RB #202H	Eddy County, NM

API No.	Survey Depth Range	Survey Type
30-015-43920	199 feet to 1488 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
Click here to enter text.	Jason Dobbs

Certification Statement

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Quintana Energy Services (QES). This report represents a true and correct directional survey of this well based on the original data obtained at the well site. Wellbore coordinates are calculated using minimum curvature.

Christopher Hughes

Digitally signed by Christopher Hughes
DN: cn=Christopher Hughes, o=QES,
ou=compliance, email=chrish@qeslp.com, c=US
Date: 2018.01.29 07:22:38 -06'00'

Christopher Hughes
MWD Compliance Manager

Quintana Energy Services

A large, stylized handwritten signature in black ink, appearing to read 'CHRISTOPHER HUGHES', is written over the printed name and title.



QES Survey Certification Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Janie Conner 13-24S-28E RB #202H
Project:	Eddy County, NM	TVD Reference:	Well @ 2991.5usft (Patterson #282)
Site:	Sec 14, T24S, R28E	MD Reference:	Well @ 2991.5usft (Patterson #282)
Well:	Janie Conner 13-24S-28E RB #202H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Eddy County, NM		
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	Sec 14, T24S, R28E			
Site Position:		Northing:	443,770.00 usft	Latitude: 32° 13' 11.004 N
From:	Map	Easting:	587,603.00 usft	Longitude: 104° 3' 0.220 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence: 0.15 °

Well	Janie Conner 13-24S-28E RB #202H			
Well Position	+N/-S	0.0 usft	Northing:	443,800.00 usft
	+E/-W	0.0 usft	Easting:	587,602.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level: 2,963.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/27/2017	7.12	59.98	47,833.50289709

Design	Wellbore #1			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	89.80

Survey Program	Date 1/19/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
199.0	14,880.0	QES MWD Surveys (Wellbore #1)	MWD default	MWD - Standard

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00
199.0	0.40	299.60	199.0	0.3	-0.6	0.7	299.60
First MWD Survey @ 199.0' MD / 199.0' TVD							
290.0	0.50	263.00	290.0	0.5	-1.3	1.4	289.52
377.0	0.70	242.10	377.0	0.2	-2.1	2.1	274.23
470.0	0.50	243.40	470.0	-0.3	-3.0	3.0	264.44
524.0	0.70	223.00	524.0	-0.6	-3.4	3.5	259.44
653.0	0.50	229.10	653.0	-1.6	-4.4	4.7	250.15
835.0	0.40	213.00	835.0	-2.6	-5.3	5.9	243.69
1,024.0	0.30	267.60	1,024.0	-3.2	-6.2	7.0	242.57
1,212.0	0.40	249.30	1,212.0	-3.5	-7.3	8.1	244.60
1,401.0	0.40	242.40	1,401.0	-4.0	-8.5	9.4	244.77



QES Survey Certification Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Janie Conner 13-24S-28E RB #202H
Project:	Eddy County, NM	TVD Reference:	Well @ 2991.5usft (Patterson #282)
Site:	Sec 14, T24S, R28E	MD Reference:	Well @ 2991.5usft (Patterson #282)
Well:	Janie Conner 13-24S-28E RB #202H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
1,590.0	2.80	317.30	1,589.9	-0.9	-12.2	12.2	265.72	
1,780.0	3.20	327.30	1,779.6	7.0	-18.2	19.5	290.91	
1,969.0	1.80	337.30	1,968.4	14.1	-22.2	26.3	302.47	
2,156.0	3.50	332.10	2,155.2	21.9	-26.0	34.0	310.08	
2,344.0	3.80	353.50	2,342.9	33.2	-29.4	44.3	318.42	
2,533.0	3.60	344.50	2,531.5	45.1	-31.7	55.1	324.89	
2,695.0	5.10	337.80	2,693.0	56.7	-35.8	67.0	327.73	
2,820.0	5.30	339.50	2,817.5	67.2	-39.9	78.2	329.30	
3,008.0	5.10	341.50	3,004.7	83.3	-45.6	94.9	331.30	
3,198.0	4.80	342.20	3,194.0	98.8	-50.7	111.1	332.84	
3,387.0	3.20	344.60	3,382.5	111.5	-54.5	124.1	333.93	
3,575.0	2.70	334.10	3,570.3	120.5	-57.9	133.7	334.35	
3,765.0	1.80	240.40	3,760.2	123.1	-62.4	138.0	333.11	
3,954.0	1.80	233.80	3,949.1	119.8	-67.4	137.5	330.65	
4,141.0	1.70	230.70	4,136.0	116.3	-71.9	136.8	328.29	
4,330.0	1.70	165.80	4,324.9	111.9	-73.4	133.8	326.73	
4,518.0	1.80	156.00	4,512.8	106.5	-71.5	128.2	326.11	
4,708.0	1.70	155.70	4,702.8	101.2	-69.1	122.5	325.66	
4,897.0	1.20	91.10	4,891.7	98.6	-66.0	118.6	326.20	
5,086.0	1.00	97.40	5,080.7	98.3	-62.4	116.4	327.61	
5,274.0	1.10	107.50	5,268.6	97.6	-59.0	114.0	328.83	
5,463.0	0.80	20.40	5,457.6	98.3	-56.8	113.5	329.95	
5,653.0	0.40	22.30	5,647.6	100.1	-56.1	114.8	330.72	
5,842.0	0.70	80.90	5,836.6	100.9	-54.7	114.8	331.52	
6,031.0	0.60	115.10	6,025.6	100.7	-52.7	113.6	332.37	
6,221.0	0.40	346.50	6,215.6	100.9	-51.9	113.5	332.76	
6,409.0	0.40	199.80	6,403.6	100.9	-52.3	113.7	332.59	
6,597.0	1.10	217.30	6,591.6	98.9	-53.6	112.5	331.52	
6,787.0	2.60	189.20	6,781.5	93.2	-55.4	108.4	329.24	
6,975.0	1.70	350.50	6,969.4	91.7	-56.6	107.7	328.32	
7,165.0	2.00	283.30	7,159.3	95.2	-60.3	112.7	327.67	
7,354.0	2.20	283.60	7,348.2	96.8	-67.0	117.8	325.32	
7,544.0	2.00	320.60	7,538.1	100.3	-72.7	123.8	324.07	
7,733.0	3.40	21.10	7,726.9	108.0	-72.7	130.2	326.05	
7,922.0	1.00	230.50	7,915.8	112.2	-72.0	133.3	327.32	
8,111.0	3.70	252.20	8,104.6	109.3	-79.1	134.9	324.12	
8,299.0	0.70	193.90	8,292.5	106.3	-85.1	136.2	321.33	
8,488.0	0.60	206.60	8,481.5	104.3	-85.8	135.1	320.56	
8,676.0	0.90	41.40	8,669.5	104.6	-85.3	134.9	320.79	
8,864.0	1.00	6.80	8,857.5	107.3	-84.1	136.4	321.90	
8,953.0	1.20	328.40	8,946.4	108.9	-84.5	137.8	322.17	
8,995.0	1.20	321.30	8,988.4	109.6	-85.0	138.7	322.19	
9,058.0	4.50	93.50	9,051.4	109.9	-83.0	137.7	322.96	
9,090.0	7.60	98.30	9,083.2	109.6	-79.6	135.4	323.99	



QES Survey Certification Report



Company: Matador Resources
Project: Eddy County, NM
Site: Sec 14, T24S, R28E
Well: Janie Conner 13-24S-28E RB #202H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Janie Conner 13-24S-28E RB #202H
TVD Reference: Well @ 2991.5usft (Patterson #282)
MD Reference: Well @ 2991.5usft (Patterson #282)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
9,121.0	11.90	99.40	9,113.7	108.7	-74.4	131.8	325.61	
9,153.0	14.50	99.30	9,144.9	107.6	-67.2	126.8	327.99	
9,184.0	17.10	96.50	9,174.7	106.4	-58.9	121.6	331.05	
9,216.0	21.20	96.80	9,204.9	105.2	-48.5	115.8	335.27	
9,247.0	23.90	99.40	9,233.6	103.5	-36.7	109.8	340.48	
9,279.0	26.00	95.90	9,262.6	101.7	-23.3	104.4	347.09	
9,311.0	29.10	93.20	9,290.9	100.6	-8.6	100.9	355.13	
9,342.0	31.90	90.80	9,317.7	100.0	7.2	100.3	4.09	
9,374.0	35.20	89.60	9,344.3	100.0	24.8	103.0	13.95	
9,406.0	39.20	88.20	9,369.8	100.4	44.2	109.7	23.76	
9,437.0	41.50	86.80	9,393.4	101.2	64.2	119.9	32.39	
9,468.0	44.90	85.80	9,416.0	102.6	85.4	133.5	39.77	
9,500.0	48.30	83.40	9,438.0	104.8	108.5	150.9	46.00	
9,531.0	50.20	80.70	9,458.2	108.1	131.8	170.4	50.64	
9,562.0	52.70	78.50	9,477.6	112.5	155.6	192.0	54.15	
9,594.0	56.40	76.40	9,496.1	118.1	181.1	216.2	56.88	
9,625.0	60.80	77.30	9,512.3	124.2	206.8	241.2	59.03	
9,656.0	64.40	78.00	9,526.5	130.0	233.7	267.4	60.91	
9,688.0	67.00	79.70	9,539.7	135.7	262.3	295.3	62.65	
9,719.0	68.70	79.80	9,551.4	140.8	290.6	322.9	64.15	
9,751.0	70.20	79.70	9,562.6	146.1	320.1	351.8	65.46	
9,783.0	72.10	79.70	9,573.0	151.5	349.9	381.3	66.58	
9,814.0	72.60	80.30	9,582.4	156.7	378.9	410.0	67.54	
9,845.0	73.80	79.90	9,591.3	161.8	408.2	439.1	68.38	
9,877.0	74.80	79.10	9,600.0	167.4	438.5	469.3	69.11	
9,925.0	77.70	80.40	9,611.4	175.7	484.3	515.2	70.07	
9,960.0	78.80	80.80	9,618.5	181.3	518.1	548.9	70.72	
10,007.0	81.20	84.10	9,626.7	187.3	564.0	594.3	71.63	
10,054.0	82.20	87.00	9,633.5	190.9	610.4	639.6	72.63	
10,101.0	83.50	88.70	9,639.3	192.7	657.0	684.7	73.65	
10,149.0	86.00	88.80	9,643.7	193.7	704.8	730.9	74.63	
10,243.0	89.90	89.20	9,647.1	195.4	798.7	822.2	76.25	
10,337.0	84.80	89.50	9,651.4	196.4	892.5	913.9	77.59	
10,432.0	84.40	90.50	9,660.4	196.4	987.1	1,006.5	78.75	
10,527.0	85.80	88.70	9,668.5	197.1	1,081.8	1,099.6	79.67	
10,621.0	90.20	88.40	9,671.8	199.5	1,175.6	1,192.4	80.37	
10,715.0	90.00	87.70	9,671.6	202.7	1,269.6	1,285.7	80.93	
10,809.0	89.10	87.00	9,672.3	207.0	1,363.5	1,379.1	81.37	
10,904.0	90.80	86.20	9,672.4	212.7	1,458.3	1,473.7	81.70	
10,998.0	90.90	87.40	9,671.0	217.9	1,552.2	1,567.4	82.01	
11,093.0	89.40	90.00	9,670.8	220.1	1,647.1	1,661.8	82.39	
11,188.0	88.00	91.10	9,672.9	219.1	1,742.1	1,755.8	82.83	
11,283.0	88.40	89.90	9,675.9	218.3	1,837.0	1,850.0	83.22	
11,377.0	89.40	88.20	9,677.7	219.9	1,931.0	1,943.5	83.50	
11,471.0	90.00	88.60	9,678.2	222.5	2,025.0	2,037.1	83.73	



QES Survey Certification Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Janie Conner 13-24S-28E RB #202H
Project:	Eddy County, NM	TVD Reference:	Well @ 2991.5usft (Patterson #282)
Site:	Sec 14, T24S, R28E	MD Reference:	Well @ 2991.5usft (Patterson #282)
Well:	Janie Conner 13-24S-28E RB #202H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
11,566.0	87.90	90.30	9,679.9	223.4	2,119.9	2,131.7	83.98
11,660.0	85.80	89.70	9,685.1	223.4	2,213.8	2,225.0	84.24
11,754.0	85.90	88.20	9,691.9	225.1	2,307.5	2,318.5	84.43
11,849.0	89.40	89.20	9,695.8	227.3	2,402.4	2,413.1	84.60
11,943.0	91.30	90.00	9,695.2	227.9	2,496.4	2,506.8	84.78
12,037.0	91.30	89.50	9,693.1	228.3	2,590.4	2,600.4	84.96
12,131.0	89.50	89.50	9,692.4	229.2	2,684.4	2,694.1	85.12
12,154.0	89.20	89.70	9,692.7	229.3	2,707.4	2,717.0	85.16
12,249.0	86.60	91.30	9,696.2	228.5	2,802.3	2,811.6	85.34
12,343.0	87.00	90.70	9,701.4	226.9	2,896.1	2,905.0	85.52
12,437.0	87.80	89.80	9,705.7	226.5	2,990.0	2,998.6	85.67
12,532.0	87.30	91.20	9,709.8	225.6	3,084.9	3,093.2	85.82
12,626.0	85.90	91.30	9,715.3	223.6	3,178.7	3,186.6	85.98
12,720.0	83.10	91.00	9,724.3	221.7	3,272.3	3,279.8	86.12
12,815.0	83.40	90.70	9,735.5	220.3	3,366.6	3,373.8	86.26
12,909.0	86.20	91.80	9,744.0	218.3	3,460.2	3,467.1	86.39
13,004.0	89.10	91.60	9,747.9	215.4	3,555.0	3,561.6	86.53
13,099.0	89.70	91.30	9,748.9	213.0	3,650.0	3,656.2	86.66
13,193.0	90.30	90.00	9,748.9	212.0	3,744.0	3,750.0	86.76
13,287.0	90.80	89.10	9,748.0	212.7	3,838.0	3,843.9	86.83
13,381.0	90.20	87.60	9,747.2	215.4	3,932.0	3,937.8	86.86
13,475.0	88.60	87.80	9,748.2	219.2	4,025.9	4,031.8	86.88
13,570.0	89.80	88.60	9,749.5	222.2	4,120.8	4,126.8	86.91
13,665.0	90.70	89.00	9,749.1	224.2	4,215.8	4,221.7	86.96
13,759.0	90.40	89.20	9,748.2	225.6	4,309.8	4,315.7	87.00
13,853.0	87.70	88.60	9,749.7	227.4	4,403.7	4,409.6	87.04
13,948.0	89.70	90.00	9,751.9	228.6	4,498.7	4,504.5	87.09
14,042.0	89.50	90.60	9,752.6	228.1	4,592.7	4,598.3	87.16
14,137.0	90.70	91.90	9,752.4	226.0	4,687.7	4,693.1	87.24
14,231.0	89.40	91.30	9,752.3	223.4	4,781.6	4,786.8	87.32
14,326.0	89.90	91.40	9,752.9	221.2	4,876.6	4,881.6	87.40
14,419.0	88.40	91.50	9,754.3	218.8	4,969.5	4,974.4	87.48
14,513.0	88.00	90.80	9,757.2	216.9	5,063.5	5,068.1	87.55
14,608.0	89.10	91.30	9,759.6	215.2	5,158.4	5,162.9	87.61
14,703.0	86.90	89.30	9,762.9	214.7	5,253.4	5,257.8	87.66
14,797.0	90.40	91.20	9,765.2	214.3	5,347.3	5,351.6	87.71
14,818.0	90.60	90.90	9,765.0	213.9	5,368.3	5,372.6	87.72
14,880.0	90.60	90.90	9,764.3	212.9	5,430.3	5,434.5	87.75

TD @ 14880.0' MD / 9764.3' TVD



QES Survey Certification Report



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Project:	Eddy County, NM	TVD Reference:	Well @ 2991.5usft (Patterson #282)
Site:	Sec 14, T24S, R28E	MD Reference:	Well @ 2991.5usft (Patterson #282)
Well:	Janie Conner 13-24S-28E RB #202H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
199.0	199.0	0.3	-0.6	First MWD Survey @ 199.0' MD / 199.0' TVD
14,880.0	9,764.3	212.9	5,430.3	TD @ 14880.0' MD / 9764.3' TVD