



Matador Resources

Eddy County, NM

Sec 14, T24S, R28E

Janie Conner 13-24S-28E RB #222H

Wellbore #1

30-015-43919

Design: Wellbore #1

QES Survey Certification Report

01 February, 2018

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DISTRICT II-ARTESIA O.C.D.



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-180087	2/5/2018

Lease	Well Name	County & State
SEC 14, T-24S, R28E	Janie Conner 13-24S-28E RB #222H	Eddy County, NM

API No.	Survey Depth Range	Survey Type
35-015-43919	197 feet to 15858 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

Christopher Hughes
MWD Compliance Manager

Digitally signed by Christopher Hughes
DN: cn=Christopher Hughes, o=QES,
ou=compliance, email=chrish@qeslp.com,
c=US
Date: 2018.02.05 14:07:40 -06'00'

A large, stylized handwritten signature in black ink, which appears to be 'C. Hughes', is written over the digital signature information.

Quintana Energy Services

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Willis, TX 77318

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Quintana Energy Services



QES Survey Certification Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well Janie Conner 13-24S-28E RB #222H
Project:	Eddy County, NM	TVD Reference:	Well @ 2993.5usft (Patterson #282)
Site:	Sec 14, T24S, R28E	MD Reference:	Well @ 2993.5usft (Patterson #282)
Well:	Janie Conner 13-24S-28E RB #222H	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
From:	Map	Easting:	587,603.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 13' 11.004 N
		Longitude:	104° 3' 0.220 W
		Grid Convergence:	0.15 °

Well	Janie Conner 13-24S-28E RB #222H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 13' 11.300 N
		Longitude:	104° 2' 59.881 W
		Ground Level:	2,965.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	1/18/2018	7.11
			Dip Angle
			(°)
			Field Strength
			(nT)
			47,827.32591041

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			89.79

Survey Program	Date 2/1/2018		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
197.0	15,858.0	QES MWD Surveys (Wellbore #1)	MWD default
			Description
			MWD - Standard

Survey			
MD	Inc	Azi (azimuth)	TVD
(usft)	(°)	(°)	(usft)
0.0	0.00	0.00	0.0
197.0	0.70	131.20	197.0
First MWD Survey @ 197.0' MD / 197.0' TVD			
287.0	1.20	105.20	287.0
377.0	1.80	98.50	377.0
470.0	1.90	105.50	469.9
539.0	1.80	100.90	538.9
653.0	1.60	107.90	652.8
835.0	0.40	72.90	834.8
1,024.0	0.60	265.40	1,023.8
1,212.0	0.70	271.50	1,211.8
1,401.0	0.60	263.00	1,400.8
			N/S
			(usft)
			E/W
			(usft)
			Closure Distance
			(usft)
			Closure Azimuth
			(°)
			0.0
			1.2
			2.6
			4.9
			7.9
			10.1
			13.5
			16.5
			16.2
			14.1
			12.2
			111.45



QES Survey Certification Report



Company: Matador Resources
Project: Eddy County, NM
Site: Sec 14, T24S, R28E
Well: Janie Conner 13-24S-28E RB #222H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Janie Conner 13-24S-28E RB #222H
Well @ 2993.5usft (Patterson #282)
Well @ 2993.5usft (Patterson #282)
Grid
Minimum Curvature
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	0.30	226.90	1,589.8	-4.9	10.0	11.1	116.19	
1,780.0	0.70	332.20	1,779.7	-4.2	9.1	10.0	114.95	
1,969.0	0.40	61.00	1,968.7	-2.9	9.1	9.5	107.53	
2,156.0	1.10	101.00	2,155.7	-2.9	11.4	11.8	104.23	
2,344.0	1.50	141.20	2,343.7	-5.2	14.7	15.6	109.29	
2,533.0	0.90	327.00	2,532.7	-5.8	15.5	16.6	110.68	
2,700.0	1.20	321.60	2,699.6	-3.4	13.7	14.1	103.85	
2,851.0	1.10	330.20	2,850.6	-0.9	12.0	12.0	94.19	
3,040.0	1.10	326.50	3,039.6	2.2	10.1	10.3	77.64	
3,229.0	1.20	332.40	3,228.5	5.5	8.2	9.8	56.15	
3,418.0	1.20	241.00	3,417.5	6.3	5.5	8.4	41.33	
3,607.0	1.00	226.70	3,606.5	4.2	2.6	4.9	31.73	
3,796.0	0.90	235.10	3,795.4	2.2	0.2	2.2	4.33	
3,986.0	1.00	150.70	3,985.4	-0.1	-0.2	0.3	247.85	
4,172.0	0.80	141.10	4,171.4	-2.5	1.4	2.9	151.63	
4,362.0	0.90	162.50	4,361.4	-5.0	2.6	5.6	152.03	
4,550.0	0.90	162.70	4,549.4	-7.8	3.5	8.6	155.66	
4,739.0	0.80	75.50	4,738.3	-8.9	5.2	10.3	149.44	
4,929.0	0.50	140.00	4,928.3	-9.2	7.1	11.6	142.45	
5,117.0	0.90	130.60	5,116.3	-10.8	8.7	13.9	141.05	
5,305.0	0.70	343.90	5,304.3	-10.6	9.5	14.3	138.18	
5,494.0	0.40	334.20	5,493.3	-8.9	8.9	12.6	135.08	
5,683.0	0.30	264.90	5,682.3	-8.4	8.1	11.7	135.88	
5,872.0	0.50	336.90	5,871.3	-7.7	7.3	10.6	136.36	
6,062.0	0.40	302.30	6,061.3	-6.6	6.4	9.2	135.55	
6,252.0	1.50	355.70	6,251.3	-3.7	5.7	6.8	123.20	
6,439.0	1.30	305.40	6,438.2	0.0	3.8	3.8	90.72	
6,628.0	1.10	270.10	6,627.2	1.2	0.2	1.2	9.68	
6,817.0	1.10	102.30	6,816.2	0.8	0.2	0.8	11.30	
7,006.0	0.10	105.60	7,005.2	0.4	2.1	2.1	79.62	
7,196.0	1.00	255.20	7,195.1	-0.1	0.7	0.7	97.39	
7,386.0	1.20	243.50	7,385.1	-1.4	-2.7	3.1	242.94	
7,575.0	1.80	288.80	7,574.1	-1.3	-7.3	7.4	259.75	
7,765.0	0.70	256.70	7,764.0	-0.6	-11.3	11.3	266.81	
7,953.0	1.30	255.40	7,952.0	-1.4	-14.4	14.5	264.35	
8,142.0	0.70	99.20	8,141.0	-2.2	-15.4	15.5	262.03	
8,331.0	1.40	65.00	8,329.9	-1.4	-12.2	12.2	263.60	
8,520.0	1.80	65.20	8,518.9	0.9	-7.4	7.4	276.64	
8,708.0	1.00	177.20	8,706.8	0.5	-4.6	4.6	275.68	
8,895.0	2.90	114.90	8,893.7	-3.2	-0.2	3.2	184.22	
9,084.0	1.80	114.40	9,082.6	-6.4	6.8	9.3	133.25	
9,271.0	1.40	129.90	9,269.5	-9.1	11.2	14.4	128.96	
9,460.0	0.70	127.80	9,458.5	-11.3	13.9	17.9	129.00	
9,650.0	0.40	10.10	9,648.4	-11.3	15.0	18.8	127.15	



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Site:	Sec 14, T24S, R28E	MD Reference:	Well @ 2993.5usft (Patterson #282)
Well:	Janie Conner 13-24S-28E RB #222H	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 (°)	
9,840.0	0.20	256.10	9,838.4	-10.8	14.7	18.3	126.11	
10,015.0	0.40	332.40	10,013.4	-10.3	14.2	17.5	125.99	
10,064.0	0.60	319.40	10,062.4	-9.9	13.9	17.1	125.54	
10,095.0	1.20	60.90	10,093.4	-9.7	14.1	17.1	124.42	
10,127.0	4.40	84.00	10,125.4	-9.4	15.6	18.2	120.97	
10,158.0	7.80	89.90	10,156.2	-9.2	18.9	21.0	116.06	
10,189.0	10.70	89.90	10,186.8	-9.2	23.9	25.6	111.14	
10,221.0	13.80	92.40	10,218.1	-9.4	30.7	32.1	107.02	
10,253.0	17.00	91.40	10,248.9	-9.7	39.2	40.3	103.86	
10,284.0	19.80	91.00	10,278.3	-9.9	48.9	49.9	101.40	
10,316.0	22.30	91.70	10,308.2	-10.1	60.4	61.3	99.52	
10,348.0	25.40	92.00	10,337.5	-10.6	73.4	74.1	98.19	
10,379.0	27.60	90.90	10,365.2	-10.9	87.2	87.9	97.13	
10,411.0	30.70	94.70	10,393.2	-11.7	102.7	103.4	96.49	
10,443.0	33.10	95.70	10,420.3	-13.2	119.6	120.3	96.31	
10,474.0	34.30	98.60	10,446.1	-15.4	136.6	137.5	96.42	
10,506.0	36.00	99.20	10,472.3	-18.2	154.8	155.9	96.71	
10,537.0	38.70	96.60	10,496.9	-20.8	173.5	174.7	96.84	
10,569.0	41.50	94.30	10,521.4	-22.7	194.0	195.3	96.69	
10,601.0	43.70	94.30	10,544.9	-24.4	215.6	217.0	96.45	
10,632.0	47.00	92.30	10,566.7	-25.6	237.6	239.0	96.16	
10,663.0	51.80	91.40	10,586.9	-26.4	261.1	262.4	95.77	
10,682.0	55.40	90.50	10,598.2	-26.6	276.4	277.7	95.50	
10,779.0	68.90	93.90	10,643.4	-30.1	361.9	363.1	94.75	
10,810.0	70.80	94.00	10,654.1	-32.1	390.9	392.2	94.69	
10,842.0	73.30	93.60	10,663.9	-34.1	421.3	422.7	94.63	
10,874.0	74.90	93.00	10,672.7	-35.9	452.0	453.4	94.54	
10,905.0	75.40	92.70	10,680.6	-37.4	481.9	483.4	94.43	
10,936.0	75.60	92.10	10,688.4	-38.6	511.9	513.4	94.31	
10,968.0	76.20	91.00	10,696.2	-39.4	542.9	544.4	94.16	
10,999.0	77.00	90.80	10,703.4	-39.9	573.1	574.5	93.98	
11,031.0	78.50	90.10	10,710.2	-40.2	604.4	605.7	93.80	
11,062.0	79.70	89.60	10,716.0	-40.1	634.8	636.1	93.61	
11,094.0	81.20	89.40	10,721.3	-39.8	666.4	667.6	93.42	
11,125.0	81.40	89.60	10,726.0	-39.5	697.0	698.1	93.25	
11,188.0	84.70	88.30	10,733.7	-38.4	759.5	760.5	92.89	
11,235.0	85.50	88.90	10,737.7	-37.3	806.3	807.2	92.65	
11,283.0	86.10	89.10	10,741.2	-36.4	854.2	855.0	92.44	
11,377.0	89.60	90.50	10,744.7	-36.1	948.1	948.8	92.18	
11,472.0	88.60	92.30	10,746.2	-38.4	1,043.1	1,043.8	92.11	
11,566.0	91.90	93.30	10,745.8	-43.0	1,136.9	1,137.8	92.17	
11,660.0	89.40	91.50	10,744.7	-46.9	1,230.8	1,231.7	92.18	
11,755.0	88.70	91.40	10,746.3	-49.3	1,325.8	1,326.7	92.13	
11,850.0	89.20	90.00	10,748.0	-50.5	1,420.8	1,421.7	92.04	
11,944.0	89.10	88.60	10,749.4	-49.4	1,514.8	1,515.6	91.87	



QES Survey Certification Report



Company: Matador Resources
Project: Eddy County, NM
Site: Sec 14, T24S, R28E
Well: Janie Conner 13-24S-28E RB #222H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Janie Conner 13-24S-28E RB #222H
TVD Reference: Well @ 2993.5usft (Patterson #282)
MD Reference: Well @ 2993.5usft (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 (°)	
12,038.0	88.70	92.70	10,751.2	-50.4	1,608.7	1,609.5	91.80	
12,132.0	85.40	90.00	10,756.1	-52.6	1,702.5	1,703.3	91.77	
12,227.0	85.30	88.90	10,763.8	-51.7	1,797.2	1,798.0	91.65	
12,321.0	82.90	88.40	10,773.4	-49.5	1,890.7	1,891.3	91.50	
12,416.0	84.10	88.30	10,784.2	-46.8	1,985.0	1,985.6	91.35	
12,510.0	88.40	87.70	10,790.3	-43.5	2,078.8	2,079.2	91.20	
12,604.0	88.90	87.50	10,792.6	-39.6	2,172.6	2,173.0	91.04	
12,699.0	89.50	88.00	10,793.9	-35.9	2,267.6	2,267.8	90.91	
12,793.0	88.30	87.50	10,795.7	-32.2	2,361.5	2,361.7	90.78	
12,887.0	89.50	88.20	10,797.5	-28.7	2,455.4	2,455.6	90.67	
12,982.0	91.00	90.00	10,797.1	-27.2	2,550.4	2,550.5	90.61	
13,077.0	87.20	88.00	10,798.6	-25.5	2,645.3	2,645.4	90.55	
13,171.0	90.30	93.60	10,800.6	-26.8	2,739.2	2,739.4	90.56	
13,265.0	86.00	91.40	10,803.7	-30.9	2,833.1	2,833.2	90.63	
13,359.0	86.50	90.50	10,809.8	-32.5	2,926.9	2,927.0	90.64	
13,454.0	86.20	89.30	10,815.9	-32.3	3,021.7	3,021.8	90.61	
13,548.0	91.30	92.30	10,817.9	-33.6	3,115.6	3,115.8	90.62	
13,643.0	91.50	91.40	10,815.6	-36.7	3,210.5	3,210.7	90.65	
13,737.0	88.00	89.50	10,816.0	-37.4	3,304.5	3,304.7	90.65	
13,831.0	89.50	92.70	10,818.0	-39.2	3,398.4	3,398.7	90.66	
13,926.0	89.50	94.90	10,818.9	-45.5	3,493.2	3,493.5	90.75	
14,021.0	90.40	99.40	10,819.0	-57.3	3,587.4	3,587.9	90.92	
14,115.0	89.40	98.40	10,819.1	-71.9	3,680.3	3,681.0	91.12	
14,209.0	89.70	98.50	10,819.9	-85.7	3,773.3	3,774.3	91.30	
14,304.0	88.70	95.50	10,821.2	-97.3	3,867.6	3,868.8	91.44	
14,398.0	88.60	96.10	10,823.4	-106.8	3,961.1	3,962.5	91.54	
14,492.0	88.00	93.30	10,826.2	-114.5	4,054.7	4,056.3	91.62	
14,586.0	89.20	87.20	10,828.5	-114.9	4,148.6	4,150.2	91.59	
14,681.0	90.90	79.30	10,828.4	-103.7	4,242.9	4,244.1	91.40	
14,775.0	89.10	75.50	10,828.4	-83.2	4,334.6	4,335.4	91.10	
14,869.0	85.90	74.90	10,832.5	-59.2	4,425.4	4,425.8	90.77	
14,963.0	91.70	80.50	10,834.5	-39.2	4,517.1	4,517.3	90.50	
15,058.0	89.20	81.80	10,833.7	-24.6	4,611.0	4,611.0	90.31	
15,152.0	87.70	83.80	10,836.3	-12.8	4,704.2	4,704.2	90.16	
15,246.0	87.60	85.10	10,840.1	-3.8	4,797.7	4,797.7	90.04	
15,340.0	86.70	83.80	10,844.8	5.3	4,891.1	4,891.1	89.94	
15,435.0	90.20	87.40	10,847.4	12.6	4,985.8	4,985.8	89.86	
15,529.0	89.60	88.30	10,847.5	16.1	5,079.7	5,079.7	89.82	
15,623.0	89.20	87.90	10,848.5	19.2	5,173.6	5,173.7	89.79	
15,717.0	88.80	88.90	10,850.2	21.9	5,267.6	5,267.6	89.76	
15,791.0	88.50	91.20	10,851.9	21.8	5,341.6	5,341.6	89.77	
15,858.0	88.50	91.20	10,853.7	20.4	5,408.5	5,408.6	89.78	

TD @ 15858.0' MD / 10853.7' TVD



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Well:	Janie Conner 13-24S-28E RB #222H	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)	
197.0	197.0	-0.8	0.9	First MWD Survey @ 197.0' MD / 197.0' TVD
15,858.0	10,853.7	20.4	5,408.5	TD @ 15858.0' MD / 10853.7' TVD