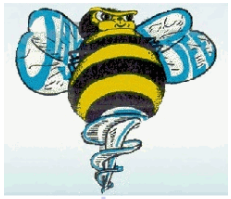

Jay-Bee Oil & Gas

Tyler County
Curly PAD
Curly 1U
Wellbore #1

Design: Wellbore #1

QES Survey Certification Report

11 July, 2018

QES
DIRECTIONAL DRILLING

12/06/2024

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

Survey Certification Sheet

Company	Job Number	Date
Jay-Bee Oil & Gas	AM-180613	7/13/2018

Lease	Well Name	County & State
N/A	Curly 1U	Tyler County, WV

API No.	Survey Depth Range	Survey Type
47-095-02446	514 feet to 18010 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
Click here to enter text.	Adam Ball

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
MWD Compliance Manager
Quintana Energy Services

QES Survey Certification Report

Company:	Jay-Bee Oil & Gas	**Local Co-ordinate Reference:**	Well Curly 1U
Project:	Tyler County	**TVD Reference:**	WELL @ 1144.0usft (Patterson #581)
Site:	Curly PAD	**MD Reference:**	WELL @ 1144.0usft (Patterson #581)
Well:	Curly 1U	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Project Tyler County

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	West Virginia Northern Zone		

Site Curly PAD

Site Position:		**Northing:**	354,137.79 usft	**Latitude:**	39° 27' 49.958 N
From:	Map	**Easting:**	1,574,078.09 usft	**Longitude:**	80° 53' 49.560 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16"	**Grid Convergence:**	-0.89 °

Well Curly 1U

Well Position	**+N/-S**	0.0 usft	**Northing:**	354,132.00 usft	**Latitude:**	39° 27' 49.900 N
	+E/-W	0.0 usft	**Easting:**	1,574,069.94 usft	**Longitude:**	80° 53' 49.663 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	1,123.4 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/5/2018	-8.52	66.65	51,919.65100246

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	156.49

Survey Program **Date** 7/11/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
50.0	514.0	Gyro (Wellbore #1)	GYRO-NS	OWSG Gyrocompass Gyro
557.0	18,010.0	QES MWD Surveys (Wellbore #1)	OWSG MWD - Standard	OWSG MWD - Standard

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
514.0	0.19	225.95	514.0	-1.5	-0.8	1.7	206.58
Gyro Tie-In @ 514.0' MD / 514.0' TVD							
557.0	0.29	178.13	557.0	-1.7	-0.8	1.8	205.71
604.0	0.46	183.24	604.0	-2.0	-0.8	2.1	202.29
651.0	0.95	134.81	651.0	-2.4	-0.5	2.5	192.57
698.0	1.84	123.79	698.0	-3.1	0.4	3.2	173.43
745.0	2.91	123.44	744.9	-4.2	2.0	4.7	154.76
791.0	4.01	124.21	790.9	-5.8	4.3	7.2	143.31
838.0	5.06	122.94	837.7	-7.8	7.4	10.7	136.58
885.0	6.53	125.43	884.5	-10.5	11.3	15.4	132.84
932.0	7.46	122.14	931.1	-13.7	16.1	21.1	130.36

12/06/2024

Company:	Jay-Bee Oil & Gas	**Local Co-ordinate Reference:**	Well Curly 1U
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Site:	Curly PAD	**MD Reference:**	WELL @ 1144.0usft (Patterson #581)
Well:	Curly 1U	**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 (°)
979.0	7.78	125.00	977.7	-17.1	21.3	27.3	128.82
1,073.0	6.60	122.61	1,071.0	-23.7	31.0	39.0	127.34
1,167.0	5.24	116.74	1,164.5	-28.5	39.4	48.6	125.89
1,261.0	4.03	112.29	1,258.1	-31.7	46.3	56.1	124.40
1,355.0	2.64	112.99	1,352.0	-33.8	51.3	61.5	123.35
1,449.0	1.58	132.71	1,445.9	-35.5	54.3	64.9	123.19
1,543.0	1.75	178.90	1,539.9	-37.8	55.3	67.0	124.39
1,637.0	1.96	175.13	1,633.8	-40.9	55.4	68.9	126.40
1,731.0	1.12	191.54	1,727.8	-43.4	55.4	70.3	128.06
1,825.0	1.68	347.81	1,821.8	-42.9	54.9	69.7	128.01
1,919.0	3.22	338.04	1,915.7	-39.1	53.6	66.4	126.11
2,013.0	3.50	327.50	2,009.5	-34.3	51.1	61.5	123.84
2,107.0	1.95	50.45	2,103.5	-30.8	50.8	59.4	121.25
2,201.0	1.50	274.59	2,197.4	-29.7	50.8	58.8	120.31
2,296.0	2.45	236.18	2,292.4	-30.7	47.9	56.9	122.70
2,391.0	2.06	207.50	2,387.3	-33.4	45.4	56.3	126.32
2,486.0	1.86	155.59	2,482.3	-36.3	45.2	58.0	128.73
2,581.0	1.20	110.69	2,577.2	-38.0	46.8	60.3	129.10
2,676.0	1.49	28.63	2,672.2	-37.3	48.3	61.1	127.67
2,771.0	1.93	344.39	2,767.2	-34.7	48.5	59.6	125.58
2,866.0	1.90	270.98	2,862.1	-33.1	46.5	57.1	125.47
2,961.0	3.25	223.76	2,957.0	-35.0	43.1	55.5	129.14
3,056.0	3.10	189.67	3,051.9	-39.5	40.8	56.8	134.11
3,151.0	2.68	143.08	3,146.8	-43.8	41.7	60.5	136.45
3,246.0	2.55	78.18	3,241.7	-45.2	45.1	63.8	135.07
3,341.0	2.27	49.77	3,336.6	-43.5	48.6	65.2	131.86
3,436.0	0.30	239.74	3,431.6	-42.4	49.8	65.4	130.44
3,531.0	1.84	233.33	3,526.6	-43.5	48.4	65.0	131.95
3,625.0	1.66	197.64	3,620.6	-45.7	46.7	65.3	134.34
3,720.0	1.56	149.22	3,715.5	-48.1	47.0	67.2	135.67
3,815.0	0.53	102.18	3,810.5	-49.3	48.1	68.9	135.72
3,910.0	1.51	11.54	3,905.5	-48.2	48.7	68.5	134.65
4,005.0	1.67	355.41	4,000.5	-45.6	48.9	66.8	132.98
4,100.0	0.48	14.30	4,095.4	-43.8	48.9	65.6	131.86
4,194.0	0.79	128.82	4,189.4	-43.8	49.5	66.1	131.53
4,289.0	0.71	147.11	4,284.4	-44.7	50.3	67.3	131.63
4,384.0	0.58	74.06	4,379.4	-45.1	51.1	68.1	131.42
4,479.0	1.54	30.08	4,474.4	-43.8	52.2	68.2	130.03
4,574.0	1.93	359.12	4,569.4	-41.1	52.8	66.9	127.92
4,668.0	1.65	328.13	4,663.3	-38.4	52.1	64.7	126.41
4,763.0	1.63	288.60	4,758.3	-36.8	50.1	62.1	126.33
4,857.0	1.34	258.73	4,852.3	-36.6	47.7	60.1	127.49
4,952.0	0.62	188.57	4,947.2	-37.3	46.6	59.7	128.72
5,047.0	1.72	144.41	5,042.2	-39.0	47.3	61.3	129.50
5,142.0	1.81	126.12	5,137.2	-41.0	49.3	64.2	129.75

12/06/2024

Company:	Jay-Bee Oil & Gas	**Local Co-ordinate Reference:**	Well Curly 1U
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Site:	Curly PAD	**MD Reference:**	WELL @ 1144.0usft (Patterson #581)
Well:	Curly 1U	**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 (°)
5,237.0	1.49	60.37	5,232.2	-41.3	51.6	66.1	128.66
5,331.0	2.31	7.21	5,326.1	-38.8	52.9	65.6	126.26
5,426.0	2.61	337.53	5,421.0	-34.9	52.3	62.9	123.71
5,521.0	2.59	313.49	5,515.9	-31.5	50.0	59.0	122.19
5,616.0	1.23	305.66	5,610.9	-29.4	47.6	55.9	121.70
5,710.0	0.39	260.17	5,704.9	-28.8	46.4	54.7	121.85
5,805.0	0.53	171.37	5,799.9	-29.3	46.2	54.7	122.42
5,899.0	0.64	194.93	5,893.9	-30.3	46.1	55.2	123.28
5,994.0	0.97	160.55	5,988.8	-31.5	46.3	56.0	124.30
6,089.0	0.60	85.51	6,083.8	-32.3	47.0	57.0	124.46
6,183.0	0.77	72.73	6,177.8	-32.0	48.1	57.8	123.66
6,277.0	0.52	349.38	6,271.8	-31.4	48.6	57.9	122.88
6,372.0	0.67	229.02	6,366.8	-31.4	48.1	57.5	123.10
6,467.0	0.96	268.39	6,461.8	-31.8	46.9	56.7	124.09
6,562.0	0.89	299.74	6,556.8	-31.4	45.5	55.3	124.63
6,656.0	1.33	324.05	6,650.8	-30.2	44.2	53.5	124.31
6,751.0	2.92	312.39	6,745.7	-27.6	41.8	50.1	123.50
6,843.0	3.07	312.67	6,837.6	-24.4	38.2	45.4	122.54
6,938.0	1.47	303.19	6,932.5	-22.0	35.3	41.6	121.91
7,033.0	0.81	51.24	7,027.5	-20.9	34.8	40.6	120.98
7,128.0	2.11	87.23	7,122.5	-20.4	37.1	42.4	118.81
7,223.0	3.79	91.20	7,217.3	-20.4	42.0	46.7	115.90
7,318.0	4.20	95.38	7,312.1	-20.8	48.6	52.9	113.16
7,413.0	4.48	87.79	7,406.8	-21.0	55.8	59.6	110.61
7,554.0	4.53	67.62	7,547.4	-18.6	66.4	69.0	105.67
7,602.0	4.76	61.53	7,595.3	-17.0	69.9	72.0	103.64
7,696.0	5.27	58.90	7,688.9	-12.9	77.1	78.1	99.49
7,791.0	5.72	57.82	7,783.5	-8.1	84.8	85.2	95.46
7,886.0	5.52	58.19	7,878.0	-3.2	92.7	92.7	91.96
7,980.0	5.52	56.95	7,971.6	1.7	100.3	100.3	89.04
8,075.0	6.47	53.29	8,066.0	7.4	108.4	108.7	86.11
8,170.0	8.05	56.77	8,160.3	14.2	118.3	119.1	83.15
8,265.0	8.34	56.53	8,254.3	21.7	129.6	131.4	80.51
8,360.0	7.18	51.43	8,348.4	29.2	140.0	143.0	78.23
8,454.0	7.27	43.35	8,441.7	37.1	148.7	153.2	75.97
8,549.0	7.24	46.51	8,535.9	45.6	157.1	163.6	73.81
8,644.0	8.47	57.03	8,630.1	53.6	167.4	175.7	72.25
8,739.0	10.20	62.76	8,723.8	61.2	180.7	190.8	71.28
8,833.0	12.01	69.27	8,816.0	68.5	197.3	208.8	70.85
8,927.0	13.71	74.74	8,907.7	74.9	217.2	229.7	70.97
9,021.0	12.95	78.52	8,999.1	79.9	238.2	251.3	71.45
9,116.0	11.01	81.34	9,092.1	83.4	257.6	270.8	72.06
9,211.0	9.55	76.30	9,185.5	86.6	274.2	287.6	72.47
9,336.0	7.90	70.10	9,309.1	92.0	292.4	306.5	72.53

12/06/2024

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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 (°)
9,431.0	6.30	52.40	9,403.4	97.4	302.7	318.0	72.16
9,525.0	7.90	50.60	9,496.7	104.7	311.8	328.9	71.44
9,620.0	9.30	52.70	9,590.6	113.5	322.9	342.3	70.64
9,715.0	9.60	62.00	9,684.3	121.8	336.0	357.4	70.07
9,810.0	8.50	69.50	9,778.1	128.0	349.6	372.3	69.89
9,905.0	7.00	64.70	9,872.2	132.9	361.4	385.1	69.80
9,999.0	7.20	59.30	9,965.5	138.4	371.6	396.6	69.57
10,094.0	9.20	53.30	10,059.6	146.0	382.8	409.7	69.13
10,189.0	9.10	55.70	10,153.3	154.8	395.1	424.4	68.61
10,284.0	7.20	59.10	10,247.4	162.0	406.4	437.6	68.26
10,378.0	7.30	56.60	10,340.6	168.4	416.5	449.2	67.99
10,473.0	7.80	53.90	10,434.8	175.5	426.7	461.4	67.65
10,568.0	8.30	55.30	10,528.9	183.2	437.6	474.4	67.29
10,620.0	8.60	59.50	10,580.3	187.3	444.0	481.9	67.13
10,668.0	11.10	73.70	10,627.6	190.4	451.5	490.1	67.14
10,715.0	14.20	83.20	10,673.5	192.4	461.6	500.1	67.38
10,763.0	16.30	96.30	10,719.8	192.3	474.2	511.7	67.92
10,810.0	18.20	109.60	10,764.7	189.1	487.6	523.0	68.80
10,858.0	19.70	117.40	10,810.1	182.9	501.9	534.2	69.98
10,905.0	21.70	127.80	10,854.1	173.9	515.8	544.3	71.37
10,953.0	23.30	134.80	10,898.4	161.8	529.5	553.7	73.01
11,000.0	25.50	141.70	10,941.2	147.3	542.4	562.1	74.81
11,048.0	28.80	144.20	10,983.9	129.8	555.6	570.5	76.85
11,095.0	31.40	142.80	11,024.6	110.9	569.6	580.3	78.99
11,143.0	35.30	145.20	11,064.7	89.5	585.1	591.9	81.30
11,190.0	38.90	147.00	11,102.2	66.0	600.9	604.5	83.73
11,238.0	43.10	150.40	11,138.4	39.1	617.2	618.4	86.38
11,285.0	47.50	152.10	11,171.4	9.8	633.3	633.3	89.12
11,333.0	51.80	152.80	11,202.5	-22.7	650.2	650.6	92.00
11,380.0	55.60	153.60	11,230.3	-56.5	667.2	669.6	94.84
11,427.0	58.80	154.70	11,255.8	-92.0	684.4	690.6	97.66
11,474.0	61.50	156.80	11,279.2	-129.2	701.2	713.0	100.44
11,522.0	64.70	155.70	11,300.9	-168.4	718.4	737.9	103.19
11,569.0	66.90	158.70	11,320.2	-207.9	735.0	763.9	105.79
11,617.0	69.50	159.70	11,338.0	-249.5	750.8	791.2	108.38
11,664.0	70.70	160.20	11,354.0	-291.0	766.0	819.4	110.80
11,711.0	73.80	161.60	11,368.3	-333.3	780.6	848.8	113.12
11,758.0	78.50	162.50	11,379.6	-376.7	794.7	879.5	115.36
11,806.0	84.30	161.60	11,386.7	-421.9	809.3	912.7	117.53
11,853.0	89.30	163.70	11,389.4	-466.6	823.3	946.4	119.54
11,901.0	90.50	163.90	11,389.4	-512.7	836.7	981.3	121.50
11,996.0	91.60	164.00	11,387.7	-604.0	863.0	1,053.3	124.99
12,091.0	92.00	164.20	11,384.7	-695.3	889.0	1,128.6	128.03
12,185.0	89.90	160.20	11,383.2	-784.8	917.7	1,207.5	130.54

12/06/2024

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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,280.0	90.30	160.00	11,383.0	-874.1	950.0	1,291.0	132.62
12,375.0	91.00	161.10	11,381.9	-963.7	981.7	1,375.6	134.47
12,470.0	90.60	158.90	11,380.6	-1,053.0	1,014.1	1,461.9	136.08
12,564.0	89.10	158.30	11,380.8	-1,140.5	1,048.4	1,549.2	137.41
12,659.0	89.40	160.90	11,382.1	-1,229.5	1,081.5	1,637.5	138.66
12,753.0	89.60	160.90	11,382.9	-1,318.3	1,112.3	1,724.9	139.84
12,848.0	88.80	159.80	11,384.2	-1,407.8	1,144.2	1,814.2	140.90
12,943.0	89.60	161.90	11,385.6	-1,497.5	1,175.4	1,903.7	141.87
13,037.0	90.60	161.60	11,385.4	-1,586.8	1,204.8	1,992.4	142.79
13,132.0	90.40	163.10	11,384.6	-1,677.3	1,233.6	2,082.1	143.67
13,227.0	90.90	163.30	11,383.5	-1,768.2	1,261.1	2,171.9	144.50
13,321.0	90.10	161.90	11,382.7	-1,857.9	1,289.2	2,261.4	145.24
13,416.0	90.70	162.40	11,382.0	-1,948.4	1,318.3	2,352.5	145.92
13,510.0	90.10	163.40	11,381.3	-2,038.2	1,346.0	2,442.5	146.56
13,605.0	89.10	161.10	11,382.0	-2,128.7	1,374.9	2,534.1	147.14
13,700.0	89.80	162.90	11,382.9	-2,219.0	1,404.3	2,626.0	147.67
13,795.0	89.50	161.80	11,383.5	-2,309.5	1,433.1	2,718.0	148.18
13,889.0	89.80	161.70	11,384.1	-2,398.8	1,462.5	2,809.5	148.63
13,984.0	90.10	161.80	11,384.2	-2,489.0	1,492.3	2,902.1	149.06
14,078.0	90.20	160.30	11,383.9	-2,577.9	1,522.8	2,994.1	149.43
14,173.0	90.30	160.20	11,383.5	-2,667.3	1,554.9	3,087.5	149.76
14,268.0	89.80	159.50	11,383.4	-2,756.5	1,587.6	3,181.0	150.06
14,362.0	89.50	163.20	11,384.0	-2,845.6	1,617.7	3,273.2	150.38
14,457.0	89.60	161.20	11,384.7	-2,936.0	1,646.7	3,366.3	150.71
14,551.0	89.30	159.90	11,385.6	-3,024.6	1,678.0	3,458.9	150.98
14,646.0	89.10	163.10	11,387.0	-3,114.7	1,708.2	3,552.4	151.26
14,740.0	91.00	163.30	11,386.9	-3,204.7	1,735.3	3,644.4	151.56
14,835.0	90.40	162.50	11,385.7	-3,295.5	1,763.3	3,737.6	151.85
14,930.0	90.20	161.30	11,385.2	-3,385.8	1,792.8	3,831.1	152.10
15,025.0	90.80	164.20	11,384.4	-3,476.5	1,820.9	3,924.5	152.36
15,119.0	89.80	163.80	11,383.9	-3,566.9	1,846.8	4,016.6	152.63
15,214.0	91.80	163.10	11,382.6	-3,657.9	1,873.9	4,110.0	152.87
15,309.0	90.40	164.50	11,380.7	-3,749.1	1,900.4	4,203.3	153.12
15,404.0	88.70	163.70	11,381.5	-3,840.5	1,926.4	4,296.5	153.36
15,498.0	89.60	164.20	11,382.9	-3,930.8	1,952.4	4,389.0	153.59
15,592.0	89.20	163.30	11,383.9	-4,021.0	1,978.7	4,481.5	153.80
15,686.0	89.50	164.50	11,384.9	-4,111.3	2,004.8	4,574.1	154.01
15,781.0	88.90	160.40	11,386.3	-4,201.9	2,033.4	4,668.0	154.18
15,876.0	89.70	161.00	11,387.4	-4,291.5	2,064.8	4,762.4	154.31
15,971.0	90.10	161.20	11,387.6	-4,381.4	2,095.6	4,856.8	154.44
16,066.0	90.60	161.40	11,387.0	-4,471.4	2,126.0	4,951.1	154.57
16,161.0	90.60	162.40	11,386.0	-4,561.7	2,155.5	5,045.3	154.71
16,256.0	89.50	160.60	11,385.9	-4,651.8	2,185.7	5,139.7	154.83
16,351.0	88.80	160.30	11,387.3	-4,741.3	2,217.5	5,234.2	154.93

12/06/2024

Company:	Jay-Bee Oil & Gas	**Local Co-ordinate Reference:**	Well Curly 1U
Project:	Tyler County	**TVD Reference:**	WELL @ 1144.0usft (Patterson #581)
Site:	Curly PAD	**MD Reference:**	WELL @ 1144.0usft (Patterson #581)
Well:	Curly 1U	**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 (°)
16,445.0	89.40	159.20	11,388.8	-4,829.5	2,250.0	5,327.9	155.02
16,540.0	89.40	157.50	11,389.8	-4,917.8	2,285.1	5,422.7	155.08
16,635.0	88.80	162.50	11,391.3	-5,007.0	2,317.5	5,517.3	155.16
16,729.0	89.50	160.50	11,392.7	-5,096.1	2,347.4	5,610.7	155.27
16,824.0	89.40	162.40	11,393.6	-5,186.2	2,377.6	5,705.2	155.37
16,919.0	89.50	163.00	11,394.5	-5,276.9	2,405.8	5,799.4	155.49
17,014.0	89.10	161.60	11,395.7	-5,367.4	2,434.7	5,893.8	155.60
17,104.0	90.40	161.50	11,396.1	-5,452.7	2,463.2	5,983.3	155.69
17,203.0	90.20	162.30	11,395.6	-5,546.8	2,493.9	6,081.7	155.79
17,298.0	91.50	163.10	11,394.2	-5,637.5	2,522.2	6,176.0	155.90
17,392.0	90.60	162.30	11,392.4	-5,727.3	2,550.1	6,269.3	156.00
17,487.0	90.40	161.60	11,391.6	-5,817.6	2,579.6	6,363.8	156.09
17,582.0	90.20	161.80	11,391.1	-5,907.8	2,609.4	6,458.4	156.17
17,677.0	91.10	162.20	11,390.0	-5,998.1	2,638.8	6,552.9	156.25
17,771.0	90.60	163.00	11,388.6	-6,087.8	2,666.9	6,646.3	156.34
17,866.0	90.20	161.70	11,388.0	-6,178.3	2,695.7	6,740.8	156.43
17,960.0	90.70	162.90	11,387.2	-6,267.9	2,724.2	6,834.3	156.51
18,010.0	90.70	162.90	11,386.6	-6,315.7	2,738.9	6,884.0	156.55
TD @ 18010.0' MD / 11386.6' TVD							

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
514.0	514.0	-1.5	-0.8	Gyro Tie-In @ 514.0' MD / 514.0' TVD
18,010.0	11,386.6	-6,315.7	2,738.9	TD @ 18010.0' MD / 11386.6' TVD

Checked By: _____ Approved By: _____ Date: _____

12/06/2024