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Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Rec'd 05/07/2020 - NMOC Form C-102

Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-015-46201	² Pool Code 96415	³ Pool Name Willow Lake; Bone Spring, West
⁴ Property Code 325960	Property Name Southern Comfort 36 SB STATE	⁶ Well Number 7H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 2933'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	36	24S	28E		301	SOUTH	1674	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	25	24S	28E		2381	SOUTH	712	EAST	EDDY

¹² Dedicated Acres 240.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 633194.54' / Y: 432426.07' B - X: 634556.82' / Y: 432426.25' C - X: 634500.87' / Y: 424428.61' D - X: 633174.61' / Y: 424423.71'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 592010.60' / Y: 432367.52' B - X: 593372.85' / Y: 432367.69' C - X: 593316.72' / Y: 424370.20' D - X: 591990.48' / Y: 424365.33'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Adrian Covarrubias</i> Date: 5/7/2020 Printed Name: Adrian Covarrubias E-mail Address:	
	LAST TAKE POINT/BOTTOM HOLE LOCATION 15863' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 633837.81' / Y: 432145.48' LAT: 32.18769200N / LON: 104.03432362W NAD 27, SPCS NM EAST X: 592653.85' / Y: 432086.93' LAT: 32.18756938N / LON: 104.03383412W			FIRST TAKE POINT 8288' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 633660.12' / Y: 424665.68' LAT: 32.1671322N / LON: 104.03496504W NAD 27, SPCS NM EAST X: 592475.99' / Y: 424607.28' LAT: 32.16700936N / LON: 104.0344762W
	KICK OFF POINT 7096' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 633635.06' / Y: 424540.00' LAT: 32.16678694N / LON: 104.03504717W NAD 27, SPCS NM EAST X: 592450.93' / Y: 424481.60' LAT: 32.16666407N / LON: 104.034555832W			SURFACE HOLE LOCATION 301' FSL 1674' FEL, SECTION 36 NAD 83, SPCS NM EAST X: 632825.69' / Y: 424723.74' LAT: 32.16729816N / LON: 104.03766122W NAD 27, SPCS NM EAST X: 591641.58' / Y: 424665.35' LAT: 32.16717533N / LON: 104.03717224W
	SHEET 1 OF 1 JOB No. R3746_014 REV 0 BM 2/4/2020			¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global. FEBRUARY 6, 2020 Date of Survey Signature and Seal of Professional Surveyor: <i>Lloyd P. Short</i> Certificate Number: LLOYD P. SHORT 21653

Distances/areas relative to NAD 83 Combined Scale Factor: 0.999918652 Convergence Angle: 00°09'25.95151"



Marathon Oil Permian LLC

Eddy County, New Mexico (NAD 27)

Sec 36, T24S, R28E

Southern Comfort 36 SB State #7H

Wellbore #1

Design: Wellbore #1

QES Survey Certification Report

04 December, 2019



Quintana Energy Services

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



Survey Certification Sheet

Company	Job Number	Date
Marathon Oil Permian, LLC	WT-191714	12/5/2019

Lease	Well Name	County & State
Sec 36, T24S, R28E	Southern Comfort 36 SB State #7H	Lea, New Mexico

API No.	Survey Depth Range	Survey Type
30-015-46201	436.4 feet to 15863 feet MD	MWD

Sidetrack Information	Directional Supervisor/Surveyor
Click here to enter text.	Beau Shelton

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.

Kristopher Ray
Regulatory Compliance Manager
Quintana Energy Services

Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Southern Comfort 36 SB State #7H
Project:	Eddy County, New Mexico (NAD 27)	TVD Reference:	WELL @ 2958.0usft (PD #101)
Site:	Sec 36, T24S, R28E	MD Reference:	WELL @ 2958.0usft (PD #101)
Well:	Southern Comfort 36 SB State #7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Eddy County, New Mexico (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	Sec 36, T24S, R28E				
Site Position:		Northing:	424,665.45 usft	Latitude:	32° 10' 1.834 N
From:	Map	Easting:	591,581.64 usft	Longitude:	104° 2' 14.517 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.16 °

Well	Southern Comfort 36 SB State #7H					
Well Position	+N/-S	0.0 usft	Northing:	424,665.35 usft	Latitude:	32° 10' 1.831 N
	+E/-W	0.0 usft	Easting:	591,641.58 usft	Longitude:	104° 2' 13.820 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,933.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	11/13/2019	6.97	59.87	47,835.50000000

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	7.88	

Survey Program	Date	12/4/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
90.3	436.4	Gyro Surveys (Wellbore #1)	GYRO-MWD	OWSG Gyro MWD	
521.0	15,863.0	QES MWD Surveys (Wellbore #1)	MWD	OWSG MWD - Standard	

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
436.4	0.39	140.07	436.4	0.1	3.5	3.5	88.30	
Gyro Tie-in @ 436.4' MD / 436.4' TVD								
521.0	0.35	154.91	521.0	-0.4	3.8	3.8	95.36	
615.0	0.86	197.62	615.0	-1.3	3.7	3.9	109.33	
709.0	0.48	173.27	709.0	-2.3	3.5	4.2	123.89	
803.0	0.53	180.83	803.0	-3.2	3.5	4.8	131.92	
897.0	0.66	182.06	897.0	-4.1	3.5	5.4	139.78	
992.0	0.48	202.63	992.0	-5.1	3.3	6.1	146.62	
1,086.0	0.53	201.66	1,086.0	-5.8	3.0	6.6	152.58	
1,180.0	0.18	209.57	1,180.0	-6.4	2.8	6.9	156.32	
1,273.0	1.23	12.00	1,272.9	-5.5	2.9	6.2	152.04	

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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 (°)		
1,366.0	2.11	17.09	1,365.9	-2.9	3.6	4.7	128.58		
1,459.0	1.93	10.41	1,458.8	0.3	4.4	4.4	86.44		
1,553.0	2.00	49.50	1,552.8	2.9	6.0	6.6	64.06		
1,642.0	3.82	86.35	1,641.7	4.1	10.1	10.9	67.92		
1,731.0	6.10	97.51	1,730.3	3.7	17.7	18.1	78.33		
1,821.0	8.13	102.61	1,819.7	1.7	28.7	28.7	86.71		
1,911.0	10.11	105.34	1,908.5	-1.8	42.5	42.6	92.46		
2,000.0	11.16	106.92	1,996.0	-6.4	58.3	58.7	96.27		
2,089.0	11.30	107.71	2,083.3	-11.6	74.8	75.7	98.78		
2,179.0	10.64	106.21	2,171.6	-16.6	91.2	92.7	100.29		
2,268.0	10.77	106.92	2,259.1	-21.3	107.1	109.2	101.24		
2,357.0	11.03	107.88	2,346.5	-26.3	123.1	125.9	102.06		
2,446.0	10.96	108.24	2,433.8	-31.6	139.3	142.8	102.77		
2,536.0	9.98	106.30	2,522.3	-36.4	154.9	159.1	103.24		
2,626.0	8.97	107.36	2,611.1	-40.7	169.1	173.9	103.54		
2,798.0	8.84	103.67	2,781.0	-47.8	194.7	200.5	103.81		
2,887.0	11.03	100.94	2,868.7	-51.1	209.7	215.8	103.69		
2,977.0	11.38	100.24	2,957.0	-54.3	226.9	233.3	103.46		
3,067.0	11.47	99.53	3,045.2	-57.4	244.5	251.1	103.20		
3,156.0	11.91	98.13	3,132.4	-60.1	262.3	269.1	102.91		
3,246.0	11.91	98.92	3,220.4	-62.9	280.6	287.6	102.63		
3,335.0	11.87	98.74	3,307.5	-65.7	298.8	305.9	102.40		
3,425.0	11.82	98.83	3,395.6	-68.5	317.0	324.3	102.19		
3,514.0	11.65	98.66	3,482.7	-71.3	334.9	342.4	102.01		
3,604.0	10.46	98.13	3,571.1	-73.8	352.0	359.6	101.84		
3,694.0	9.89	96.99	3,659.6	-75.9	367.7	375.5	101.66		
3,783.0	10.37	107.71	3,747.3	-79.2	383.0	391.1	101.69		
3,873.0	10.64	109.20	3,835.8	-84.4	398.5	407.4	101.96		
3,963.0	10.68	108.32	3,924.2	-89.8	414.3	423.9	102.23		
4,052.0	10.73	107.18	4,011.7	-94.8	430.0	440.4	102.44		
4,142.0	10.24	106.83	4,100.2	-99.6	445.7	456.7	102.60		
4,231.0	9.89	106.92	4,187.8	-104.1	460.6	472.2	102.74		
4,320.0	9.27	107.62	4,275.5	-108.5	474.7	487.0	102.88		
4,410.0	8.92	109.29	4,364.4	-113.0	488.2	501.1	103.04		
4,499.0	8.75	110.08	4,452.4	-117.6	501.1	514.7	103.21		
4,589.0	8.84	111.05	4,541.3	-122.5	514.0	528.4	103.40		
4,679.0	8.62	111.22	4,630.3	-127.4	526.7	541.9	103.60		
4,768.0	8.53	111.58	4,718.3	-132.2	539.1	555.1	103.78		
4,858.0	8.44	111.22	4,807.3	-137.1	551.4	568.2	103.96		
4,947.0	8.22	111.84	4,895.3	-141.8	563.4	581.0	104.13		
5,037.0	9.01	107.36	4,984.3	-146.3	576.1	594.4	104.25		
5,126.0	9.89	104.37	5,072.1	-150.3	590.2	609.0	104.29		
5,216.0	9.14	104.37	5,160.9	-154.0	604.6	623.9	104.29		
5,305.0	8.18	104.63	5,248.9	-157.3	617.6	637.3	104.29		

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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 (°)	
5,394.0	8.92	101.20	5,336.9	-160.3	630.5	650.5	104.26	
5,484.0	10.20	97.60	5,425.6	-162.7	645.2	665.4	104.15	
5,573.0	9.27	97.86	5,513.3	-164.7	660.1	680.4	104.01	
5,663.0	9.01	97.86	5,602.2	-166.7	674.3	694.6	103.88	
5,753.0	8.40	98.48	5,691.2	-168.6	687.8	708.1	103.77	
5,842.0	7.96	98.39	5,779.2	-170.4	700.3	720.7	103.68	
5,932.0	7.47	98.04	5,868.4	-172.2	712.3	732.8	103.59	
6,021.0	7.96	96.99	5,956.6	-173.7	724.1	744.6	103.49	
6,111.0	7.74	97.07	6,045.8	-175.2	736.3	756.9	103.39	
6,200.0	7.16	97.07	6,134.0	-176.7	747.7	768.3	103.29	
6,290.0	6.46	95.40	6,223.4	-177.8	758.4	778.9	103.20	
6,379.0	6.11	95.58	6,311.9	-178.8	768.1	788.6	103.10	
6,469.0	5.58	98.83	6,401.4	-179.9	777.1	797.7	103.03	
6,558.0	4.84	94.44	6,490.0	-180.9	785.2	805.7	102.97	
6,648.0	4.00	92.77	6,579.8	-181.3	792.1	812.6	102.89	
6,738.0	3.25	96.37	6,669.6	-181.7	797.8	818.2	102.83	
6,828.0	2.46	102.70	6,759.5	-182.4	802.2	822.7	102.81	
6,917.0	1.01	90.75	6,848.4	-182.9	804.8	825.3	102.80	
7,007.0	0.92	85.56	6,938.4	-182.8	806.3	826.8	102.77	
7,096.0	3.25	112.37	7,027.3	-183.7	809.4	830.0	102.79	
7,186.0	3.38	115.53	7,117.2	-185.8	814.1	835.1	102.86	
7,276.0	2.59	119.05	7,207.1	-188.0	818.3	839.6	102.94	
7,365.0	2.95	119.93	7,296.0	-190.1	822.0	843.7	103.02	
7,455.0	3.47	118.26	7,385.8	-192.5	826.5	848.6	103.11	
7,545.0	3.34	120.45	7,475.7	-195.2	831.1	853.7	103.21	
7,634.0	3.08	117.73	7,564.5	-197.6	835.5	858.5	103.31	
7,724.0	3.08	112.37	7,654.4	-199.6	839.8	863.2	103.37	
7,778.0	3.08	114.48	7,708.3	-200.8	842.5	866.1	103.40	
7,906.0	0.97	81.96	7,836.2	-202.1	846.7	870.5	103.42	
7,995.0	12.22	350.37	7,924.6	-192.6	845.9	867.5	102.83	
8,085.0	21.32	351.78	8,010.6	-167.0	841.9	858.3	101.22	
8,174.0	31.43	356.61	8,090.3	-127.7	838.2	847.9	98.66	
8,263.0	40.57	357.41	8,162.2	-75.5	835.6	839.0	95.16	
8,353.0	48.40	355.47	8,226.4	-12.6	831.6	831.7	90.87	
8,442.0	55.91	355.38	8,280.9	57.4	826.0	828.0	86.03	
8,531.0	58.86	355.65	8,328.9	132.1	820.1	830.7	80.85	
8,621.0	66.07	358.55	8,370.5	211.7	816.1	843.2	75.46	
8,710.0	71.43	0.75	8,402.7	294.7	815.7	867.2	70.14	
8,800.0	78.86	359.60	8,425.8	381.6	815.9	900.7	64.94	
8,890.0	86.37	358.72	8,437.4	470.8	814.6	940.8	59.98	
8,979.0	90.73	1.01	8,439.6	559.7	814.4	988.2	55.50	
9,069.0	91.47	1.10	8,437.9	649.7	816.0	1,043.1	51.48	
9,159.0	91.87	1.01	8,435.3	739.6	817.7	1,102.6	47.87	
9,248.0	90.59	0.13	8,433.3	828.6	818.6	1,164.7	44.65	

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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 (°)	
9,338.0	90.15	359.69	8,432.8	918.6	818.4	1,230.3	41.70	
9,427.0	89.58	359.43	8,433.0	1,007.6	817.8	1,297.7	39.06	
9,516.0	90.20	1.01	8,433.1	1,096.6	818.1	1,368.1	36.72	
9,606.0	90.15	0.83	8,432.9	1,186.6	819.5	1,442.1	34.63	
9,695.0	89.67	0.48	8,433.0	1,275.6	820.6	1,516.7	32.75	
9,785.0	89.80	0.66	8,433.4	1,365.6	821.5	1,593.6	31.03	
9,874.0	89.89	0.57	8,433.7	1,454.6	822.4	1,671.0	29.48	
9,963.0	89.89	0.39	8,433.8	1,543.5	823.2	1,749.3	28.07	
10,052.0	89.58	0.22	8,434.2	1,632.5	823.6	1,828.5	26.77	
10,141.0	89.89	359.69	8,434.7	1,721.5	823.6	1,908.4	25.57	
10,231.0	89.76	359.69	8,434.9	1,811.5	823.1	1,989.8	24.43	
10,320.0	89.71	359.43	8,435.3	1,900.5	822.4	2,070.8	23.40	
10,410.0	90.20	3.82	8,435.4	1,990.5	824.9	2,154.7	22.51	
10,500.0	91.65	4.70	8,434.0	2,080.2	831.6	2,240.3	21.79	
10,611.0	92.04	6.37	8,430.4	2,190.6	842.3	2,347.0	21.03	
10,700.0	91.74	9.36	8,427.5	2,278.7	854.5	2,433.7	20.56	
10,790.0	91.03	13.49	8,425.3	2,366.9	872.3	2,522.5	20.23	
10,879.0	89.89	17.80	8,424.6	2,452.6	896.3	2,611.2	20.08	
10,969.0	90.11	17.53	8,424.6	2,538.3	923.6	2,701.2	19.99	
11,058.0	89.85	14.63	8,424.6	2,623.9	948.3	2,790.0	19.87	
11,147.0	90.07	11.64	8,424.7	2,710.5	968.5	2,878.3	19.66	
11,236.0	89.32	9.27	8,425.1	2,798.0	984.6	2,966.2	19.39	
11,326.0	89.27	6.81	8,426.2	2,887.1	997.2	3,054.5	19.06	
11,415.0	89.01	5.14	8,427.6	2,975.6	1,006.5	3,141.2	18.69	
11,504.0	90.73	3.56	8,427.8	3,064.4	1,013.2	3,227.5	18.30	
11,594.0	90.07	1.27	8,427.1	3,154.3	1,017.0	3,314.2	17.87	
11,683.0	90.86	0.48	8,426.4	3,243.3	1,018.4	3,399.4	17.43	
11,773.0	91.87	0.66	8,424.3	3,333.2	1,019.3	3,485.6	17.00	
11,862.0	92.18	1.71	8,421.1	3,422.2	1,021.1	3,571.3	16.61	
11,952.0	89.19	0.75	8,420.1	3,512.1	1,023.1	3,658.1	16.24	
12,041.0	90.68	1.01	8,420.2	3,601.1	1,024.4	3,744.0	15.88	
12,131.0	88.31	0.83	8,421.0	3,691.1	1,025.9	3,831.0	15.53	
12,221.0	88.62	0.75	8,423.4	3,781.0	1,027.1	3,918.1	15.20	
12,310.0	89.98	0.83	8,424.5	3,870.0	1,028.3	4,004.3	14.88	
12,400.0	88.18	359.69	8,425.9	3,960.0	1,028.7	4,091.5	14.56	
12,490.0	88.66	358.99	8,428.4	4,050.0	1,027.7	4,178.3	14.24	
12,579.0	89.27	358.28	8,430.0	4,138.9	1,025.6	4,264.1	13.92	
12,668.0	90.37	358.37	8,430.3	4,227.9	1,023.0	4,349.9	13.60	
12,758.0	91.30	358.02	8,429.0	4,317.8	1,020.2	4,436.7	13.29	
12,847.0	90.02	359.34	8,427.9	4,406.8	1,018.1	4,522.9	13.01	
12,937.0	90.81	0.04	8,427.3	4,496.8	1,017.6	4,610.5	12.75	
13,027.0	91.60	0.13	8,425.4	4,586.8	1,017.8	4,698.3	12.51	
13,116.0	91.21	0.22	8,423.2	4,675.8	1,018.0	4,785.3	12.28	
13,206.0	90.68	0.04	8,421.7	4,765.7	1,018.2	4,873.3	12.06	

Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Southern Comfort 36 SB State #7H
Project:	Eddy County, New Mexico (NAD 27)	TVD Reference:	WELL @ 2958.0usft (PD #101)
Site:	Sec 36, T24S, R28E	MD Reference:	WELL @ 2958.0usft (PD #101)
Well:	Southern Comfort 36 SB State #7H	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 (°)	
13,295.0	91.25	359.87	8,420.2	4,854.7	1,018.2	4,960.3	11.84	
13,384.0	90.02	0.66	8,419.2	4,943.7	1,018.6	5,047.6	11.64	
13,474.0	90.29	0.66	8,419.0	5,033.7	1,019.6	5,135.9	11.45	
13,563.0	91.25	0.75	8,417.8	5,122.7	1,020.7	5,223.4	11.27	
13,652.0	89.76	0.39	8,417.0	5,211.7	1,021.6	5,310.9	11.09	
13,742.0	90.51	0.57	8,416.8	5,301.7	1,022.3	5,399.4	10.91	
13,831.0	91.52	0.22	8,415.2	5,390.7	1,023.0	5,486.9	10.74	
13,920.0	89.45	359.69	8,414.5	5,479.7	1,022.9	5,574.3	10.57	
14,010.0	89.36	358.72	8,415.4	5,569.6	1,021.6	5,662.6	10.39	
14,099.0	90.20	358.46	8,415.7	5,658.6	1,019.4	5,749.7	10.21	
14,188.0	91.30	358.46	8,414.6	5,747.6	1,017.1	5,836.9	10.03	
14,278.0	89.85	359.16	8,413.7	5,837.5	1,015.2	5,925.2	9.87	
14,367.0	90.33	359.43	8,413.5	5,926.5	1,014.1	6,012.7	9.71	
14,456.0	90.59	359.25	8,412.8	6,015.5	1,013.1	6,100.2	9.56	
14,546.0	90.02	1.27	8,412.3	6,105.5	1,013.5	6,189.1	9.42	
14,636.0	90.81	1.54	8,411.7	6,195.5	1,015.7	6,278.2	9.31	
14,725.0	88.35	0.13	8,412.3	6,284.5	1,017.0	6,366.2	9.19	
14,815.0	88.22	359.60	8,415.0	6,374.4	1,016.8	6,455.0	9.06	
14,904.0	88.40	358.99	8,417.7	6,463.4	1,015.7	6,542.7	8.93	
14,994.0	88.79	358.72	8,419.9	6,553.3	1,013.9	6,631.3	8.79	
15,084.0	89.27	358.11	8,421.4	6,643.3	1,011.4	6,719.8	8.66	
15,173.0	89.80	357.67	8,422.1	6,732.2	1,008.1	6,807.3	8.52	
15,263.0	90.33	357.23	8,422.0	6,822.1	1,004.1	6,895.6	8.37	
15,353.0	90.33	358.81	8,421.5	6,912.1	1,001.0	6,984.2	8.24	
15,442.0	89.89	1.10	8,421.3	7,001.1	1,000.9	7,072.3	8.14	
15,532.0	90.64	1.45	8,420.9	7,091.0	1,002.9	7,161.6	8.05	
15,621.0	91.43	1.18	8,419.3	7,180.0	1,005.0	7,250.0	7.97	
15,711.0	92.70	1.10	8,416.1	7,269.9	1,006.8	7,339.3	7.88	
15,800.0	91.69	2.50	8,412.6	7,358.8	1,009.6	7,427.7	7.81	
15,808.0	91.74	2.33	8,412.4	7,366.8	1,009.9	7,435.7	7.81	
15,863.0	91.74	2.33	8,410.7	7,421.7	1,012.1	7,490.4	7.77	
TD @ 15863.0' MD / 8410.7' TVD								

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
436.4	436.4	0.1	3.5	Gyro Tie-in @ 436.4' MD / 436.4' TVD
15,863.0	8,410.7	7,421.7	1,012.1	TD @ 15863.0' MD / 8410.7' TVD