



PHOENIX
TECHNOLOGY SERVICES

Jay-Bee Oil & Gas Inc.

Tyler County, WV (NAD83 - UTM 17N)

Grumpy

2

OH / 68141

Survey: Phoenix MWD Surveys

Standard Survey Report

26 August, 2021

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WV Department of
Environmental Protection



03/17/2023



Company:	Jay-Bee Oil & Gas Inc.	Local Co-ordinate Reference:	Well 2
Project:	Tyler County, WV (NAD83 - UTM 17N)	TVD Reference:	RKB @ 1312.70usft (Patterson 823)
Site:	Grumpy	MD Reference:	RKB @ 1312.70usft (Patterson 823)
Well:	2	North Reference:	Grid
Wellbore:	OH / 68141	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 823)	Database:	USA Compass

Project	Tyler County, WV (NAD83 - UTM 17N)		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 17N (84 W to 78 W)		

Site	Grumpy				
Site Position:		Northing:	14,332,970.69 usft	Latitude:	39.467626
From:	Map	Easting:	1,706,976.69 usft	Longitude:	-80.764151
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	2					
Well Position	+N/-S	0.00 usft	Northing:	14,332,979.67 usft	Latitude:	39.467651
	+E/-W	0.00 usft	Easting:	1,706,972.30 usft	Longitude:	-80.764166
Position Uncertainty		1.00 usft	Wellhead Elevation:	usft	Ground Level:	1,299.20 usft

Wellbore	OH / 68141				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	9/8/2021	-7.75	66.44	51,770.611191567

Design	Surveys (Patterson 823)				
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	171.32	

Survey Program	Date	8/26/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
13.50	317.50	Gyrodata Gyro Surveys (OH / 68141)	GYD_CT_C011Ga	Gyrodata continuous	
404.00	13,097.00	Phoenix MWD Surveys (OH / 68141)	MWD+HRGM	OWSG MWD + HRGM	

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)
317.50	0.88	102.68	317.46	-0.79	-2.95	0.33	0.00	0.00	0.00
Tie In									
404.00	0.89	102.87	403.95	-1.09	-1.65	0.82	0.01	0.01	0.22
First Phoenix MWD Survey									
449.00	0.92	98.83	448.94	-1.21	-0.95	1.06	0.16	0.07	0.98
538.00	1.12	101.38	537.93	-1.50	0.61	1.57	0.23	0.22	2.87
627.00	0.83	97.46	626.92	-1.75	2.10	2.05	0.33	-0.33	0.40
716.00	0.73	92.26	715.91	-1.86	3.31	2.33	0.14	-0.11	-5.84
805.00	0.62	94.57	804.90	-1.92	4.35	2.55	0.13	-0.12	2.60

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894.00	0.78	107.85	893.90	-2.14	5.41	2.93	0.25	0.18	14.92
983.00	0.46	102.11	982.89	-2.40	6.34	3.33	0.37	-0.36	-6.45
1,072.00	0.16	320.14	1,071.89	-2.38	6.61	3.35	0.67	-0.34	-159.52
1,161.00	0.19	336.36	1,160.89	-2.15	6.47	3.10	0.06	0.03	18.22
1,250.00	0.16	316.34	1,249.89	-1.93	6.32	2.86	0.08	-0.03	-22.49
1,339.00	0.22	327.25	1,338.89	-1.69	6.14	2.60	0.08	0.07	12.26
1,428.00	0.18	342.43	1,427.89	-1.42	6.01	2.31	0.07	-0.04	17.06
1,517.00	0.40	4.82	1,516.89	-0.97	5.99	1.87	0.27	0.25	25.16
1,606.00	0.74	15.94	1,605.88	-0.11	6.18	1.04	0.40	0.38	12.49
1,695.00	0.98	18.55	1,694.87	1.16	6.58	-0.16	0.27	0.27	2.93
1,784.00	0.89	354.90	1,783.86	2.57	6.76	-1.52	0.44	-0.10	-26.57
1,873.00	1.59	287.69	1,872.84	3.64	5.52	-2.76	1.68	0.79	-75.52
1,962.00	4.01	266.35	1,961.73	3.81	1.24	-3.58	2.91	2.72	-23.98
2,051.00	5.63	253.26	2,050.42	2.36	-6.05	-3.24	2.19	1.82	-14.71
2,140.00	6.81	250.09	2,138.89	-0.70	-15.19	-1.60	1.38	1.33	-3.56
2,229.00	8.06	242.05	2,227.15	-5.42	-25.67	1.48	1.82	1.40	-9.03
2,318.00	9.97	235.04	2,315.04	-12.76	-37.49	6.95	2.47	2.15	-7.88
2,410.00	11.38	235.83	2,405.45	-22.42	-51.53	14.39	1.54	1.53	0.86
2,455.00	11.85	236.55	2,449.53	-27.46	-59.06	18.23	1.09	1.04	1.60
2,544.00	10.70	233.80	2,536.81	-37.38	-73.35	25.88	1.43	-1.29	-3.09
2,633.00	11.35	237.19	2,624.17	-47.00	-87.38	33.28	1.03	0.73	3.81
2,678.00	12.45	241.02	2,668.20	-51.75	-95.34	36.77	3.01	2.44	8.51
2,766.00	11.28	237.53	2,754.32	-60.97	-110.90	43.53	1.56	-1.33	-3.97
2,856.00	10.21	233.04	2,842.74	-70.49	-124.70	50.86	1.51	-1.19	-4.99
2,945.00	9.61	231.08	2,930.41	-79.90	-136.79	58.34	0.77	-0.67	-2.20
3,034.00	9.75	228.42	3,018.15	-89.57	-148.20	66.18	0.53	0.16	-2.99
3,123.00	10.62	228.03	3,105.74	-100.05	-159.94	74.77	0.98	0.98	-0.44
3,212.00	10.33	226.12	3,193.26	-111.07	-171.79	83.87	0.51	-0.33	-2.15
3,301.00	9.55	230.21	3,280.93	-121.33	-183.21	92.29	1.18	-0.88	4.60
3,390.00	8.76	236.73	3,368.79	-129.77	-194.55	98.92	1.46	-0.89	7.33
3,479.00	9.44	233.75	3,456.67	-137.80	-206.11	105.12	0.93	0.76	-3.35
3,568.00	9.57	232.19	3,544.45	-146.65	-217.84	112.10	0.32	0.15	-1.75
3,657.00	8.85	229.75	3,632.30	-155.61	-228.91	119.29	0.92	-0.81	-2.74
3,746.00	9.42	227.24	3,720.18	-164.98	-239.48	126.95	0.78	0.64	-2.82
3,835.00	9.54	225.20	3,807.96	-175.12	-250.06	135.38	0.40	0.13	-2.29
3,924.00	8.93	224.83	3,895.81	-185.22	-260.16	143.84	0.69	-0.69	-0.42
4,015.00	9.86	230.78	3,985.59	-195.16	-271.18	152.00	1.48	1.02	6.54
4,104.00	9.76	232.31	4,073.29	-204.59	-283.05	159.53	0.31	-0.11	1.72
4,193.00	9.01	231.18	4,161.09	-213.57	-294.45	166.68	0.87	-0.84	-1.27
4,282.00	10.19	229.96	4,248.85	-223.00	-305.91	174.28	1.35	1.33	-1.37
4,371.00	10.40	228.99	4,336.41	-233.34	-318.00	182.67	0.31	0.24	0.24
4,460.00	9.58	227.65	4,424.06	-243.60	-329.53	191.08	0.96	-0.92	-0.92
4,548.00	10.67	228.05	4,510.69	-253.98	-341.01	199.60	1.24	1.24	0.45

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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)
4,637.00	11.17	228.08	4,598.08	-265.24	-353.55	208.85	0.56	0.56	0.03
4,726.00	10.20	225.38	4,685.54	-276.54	-365.57	218.20	1.23	-1.09	-3.03
4,815.00	9.64	223.05	4,773.21	-287.52	-376.27	227.44	0.77	-0.63	-2.62
4,905.00	9.67	228.32	4,861.93	-298.05	-387.06	236.23	0.98	0.03	5.86
4,993.00	10.24	234.19	4,948.61	-307.54	-398.92	243.82	1.32	0.65	6.67
5,082.00	10.06	232.59	5,036.22	-316.90	-411.51	251.16	0.38	-0.20	-1.80
5,171.00	9.69	231.04	5,123.90	-326.33	-423.51	258.68	0.51	-0.42	-1.74
5,263.00	8.92	228.18	5,214.69	-335.95	-434.85	266.48	0.98	-0.84	-3.11
5,352.00	10.22	231.57	5,302.45	-345.46	-446.17	274.17	1.59	1.46	3.81
5,441.00	11.76	233.97	5,389.81	-355.70	-459.69	282.25	1.80	1.73	2.70
5,530.00	11.19	231.59	5,477.03	-366.40	-473.80	290.70	0.83	-0.64	-2.67
5,619.00	10.51	229.55	5,564.44	-377.04	-486.74	299.26	0.88	-0.76	-2.29
5,752.00	9.41	227.16	5,695.44	-392.30	-503.94	311.75	0.88	-0.83	-1.80
5,885.00	11.32	237.26	5,826.27	-406.75	-522.90	323.18	1.98	1.44	7.59
6,019.00	10.16	231.55	5,957.93	-421.22	-543.22	334.41	1.17	-0.87	-4.26
6,152.00	9.92	226.03	6,088.89	-436.47	-560.65	346.86	0.75	-0.18	-4.15
6,286.00	9.64	232.90	6,220.95	-451.25	-577.91	358.86	0.90	-0.21	5.13
6,420.00	11.33	231.84	6,352.71	-466.15	-597.21	370.68	1.27	1.26	-0.79
6,523.00	10.56	224.15	6,453.84	-479.17	-611.74	381.36	1.60	-0.75	-7.47
6,582.00	10.94	221.98	6,511.80	-487.21	-619.25	388.18	0.94	0.64	-3.68
6,627.00	12.94	204.63	6,555.84	-494.97	-624.20	395.10	9.08	4.44	-38.56
6,671.00	16.70	194.53	6,598.38	-505.58	-627.85	405.03	10.34	8.55	-22.95
6,716.00	19.97	187.99	6,641.09	-519.45	-630.54	418.34	8.57	7.27	-14.53
6,760.00	22.58	180.73	6,682.10	-535.34	-631.69	433.88	8.42	5.93	-16.50
6,805.00	25.98	174.53	6,723.12	-553.80	-630.86	452.25	9.43	7.56	-13.78
6,850.00	30.41	170.51	6,762.77	-574.86	-628.04	473.49	10.71	9.84	-8.93
6,895.00	34.67	167.88	6,800.70	-598.62	-623.47	497.67	9.97	9.47	-5.84
6,939.00	38.60	168.48	6,836.00	-624.31	-618.10	523.88	8.97	8.93	1.36
6,984.00	42.98	169.59	6,870.06	-653.17	-612.52	553.25	9.87	9.73	2.47
7,029.00	47.79	169.61	6,901.66	-684.66	-606.74	585.26	10.69	10.69	0.04
7,074.00	51.94	169.84	6,930.66	-718.51	-600.61	619.64	9.23	9.22	0.51
7,118.00	55.71	168.93	6,956.63	-753.41	-594.06	655.13	8.73	8.57	-2.07
7,163.00	60.55	167.32	6,980.38	-790.79	-586.19	693.27	11.18	10.76	-3.58
7,208.00	66.63	166.92	7,000.39	-830.06	-577.20	733.45	13.53	13.51	-0.89
7,252.00	69.24	167.93	7,016.91	-869.86	-568.33	774.13	6.30	5.93	2.30
7,297.00	73.28	167.25	7,031.37	-911.47	-559.17	816.64	9.09	8.98	0.51
7,342.00	78.33	167.04	7,042.40	-953.99	-549.47	860.14	11.23	11.22	-0.47
7,386.00	80.07	167.44	7,050.64	-996.14	-539.92	903.25	4.05	3.95	0.90
7,431.00	84.32	166.69	7,056.75	-1,039.58	-529.94	947.70	9.59	9.44	-1.67
7,476.00	89.81	165.59	7,059.06	-1,083.19	-519.18	992.44	12.44	12.20	-2.44
7,520.00	91.72	165.39	7,058.47	-1,125.79	-508.16	1,036.20	4.36	4.34	0.45
7,609.00	90.52	166.27	7,056.73	-1,212.06	-486.38	1,124.77	1.67	-1.35	0.99
7,698.00	90.50	166.73	7,055.94	-1,298.60	-465.60	1,213.46	0.52	-0.02	0.52
7,788.00	89.50	166.55	7,055.94	-1,386.16	-444.80	1,303.16	1.13	-1.11	-0.20

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7,877.00	89.07	167.02	7,057.05	-1,472.80	-424.46	1,391.87	0.72	-0.48	0.53
7,966.00	88.54	164.08	7,058.91	-1,558.95	-402.26	1,480.39	3.36	-0.60	-3.30
8,056.00	88.39	163.33	7,061.32	-1,645.30	-377.02	1,569.56	0.85	-0.17	-0.83
8,145.00	89.18	161.84	7,063.20	-1,730.20	-350.39	1,657.51	1.89	0.89	-1.67
8,234.00	89.35	161.55	7,064.34	-1,814.69	-322.44	1,745.25	0.38	0.19	-0.33
8,324.00	89.38	161.40	7,065.34	-1,900.02	-293.84	1,833.92	0.17	0.03	-0.17
8,413.00	90.69	163.09	7,065.29	-1,984.78	-266.70	1,921.80	2.40	1.47	1.90
8,502.00	90.41	162.59	7,064.43	-2,069.81	-240.45	2,009.82	0.64	-0.31	-0.56
8,591.00	90.85	163.85	7,063.46	-2,155.02	-214.75	2,097.92	1.50	0.49	1.42
8,680.00	90.35	163.57	7,062.52	-2,240.44	-189.79	2,186.14	0.64	-0.56	-0.31
8,769.00	90.08	163.63	7,062.19	-2,325.82	-164.66	2,274.33	0.31	-0.30	0.07
8,858.00	90.79	164.27	7,061.51	-2,411.34	-140.06	2,362.59	1.07	0.80	0.72
8,947.00	90.32	163.67	7,060.65	-2,496.88	-115.48	2,450.85	0.86	-0.53	-0.67
9,036.00	90.55	166.46	7,059.98	-2,582.86	-92.55	2,539.31	3.15	0.26	3.13
9,125.00	90.10	167.01	7,059.47	-2,669.48	-72.13	2,628.03	0.80	-0.51	0.62
9,214.00	89.75	167.24	7,059.59	-2,756.25	-52.30	2,716.79	0.47	-0.39	0.26
9,303.00	89.36	167.82	7,060.28	-2,843.14	-33.08	2,805.59	0.79	-0.44	0.65
9,393.00	88.96	168.22	7,061.60	-2,931.17	-14.40	2,895.43	0.63	-0.44	0.44
9,482.00	89.01	165.28	7,063.17	-3,017.78	5.99	2,984.12	3.30	0.06	-3.30
9,571.00	88.87	166.29	7,064.82	-3,104.04	27.84	3,072.69	1.15	-0.16	1.13
9,660.00	90.73	165.54	7,065.13	-3,190.36	49.50	3,161.29	2.25	2.09	-0.84
9,749.00	90.27	165.28	7,064.36	-3,276.49	71.92	3,249.81	0.59	-0.52	-0.29
9,838.00	90.19	164.20	7,064.00	-3,362.35	95.34	3,338.23	1.22	-0.09	-1.21
9,927.00	90.02	163.06	7,063.83	-3,447.74	120.43	3,426.42	1.30	-0.19	-1.28
10,016.00	89.87	161.41	7,063.92	-3,532.49	147.58	3,514.30	1.86	-0.17	-1.85
10,105.00	91.02	161.97	7,063.23	-3,616.98	175.54	3,602.05	1.44	1.29	0.63
10,194.00	91.33	163.13	7,061.40	-3,701.86	202.22	3,689.98	1.35	0.35	1.30
10,283.00	90.30	162.59	7,060.14	-3,786.90	228.45	3,778.01	1.31	-1.16	-0.61
10,372.00	90.01	162.80	7,059.90	-3,871.87	254.92	3,866.00	0.40	-0.33	0.24
10,462.00	89.95	165.13	7,059.93	-3,958.37	279.78	3,955.25	2.59	-0.07	2.59
10,551.00	89.81	165.59	7,060.12	-4,044.48	302.28	4,043.77	0.54	-0.16	0.52
10,640.00	89.47	165.89	7,060.67	-4,130.73	324.20	4,132.35	0.51	-0.38	0.34
10,730.00	89.36	166.06	7,061.59	-4,218.04	346.01	4,221.95	0.22	-0.12	0.19
10,820.00	89.95	168.04	7,062.14	-4,305.75	366.18	4,311.69	2.30	0.66	2.29
10,910.00	90.59	165.70	7,061.71	-4,393.39	386.62	4,401.42	2.70	0.71	2.69
11,000.00	91.50	162.53	7,060.07	-4,479.92	411.24	4,490.68	3.66	1.01	3.52
11,091.00	91.26	162.17	7,057.88	-4,566.62	438.83	4,580.54	0.48	-0.26	0.40
11,180.00	90.75	162.89	7,056.32	-4,651.50	465.54	4,668.48	0.99	-0.57	0.81
11,270.00	90.67	164.01	7,055.20	-4,737.76	491.18	4,757.62	1.25	-0.09	1.14
11,360.00	90.50	164.85	7,054.28	-4,824.45	515.33	4,846.97	0.95	-0.19	0.88
11,450.00	89.92	163.11	7,053.95	-4,910.95	540.17	4,936.23	2.04	-0.64	1.93
11,540.00	89.95	163.28	7,054.05	-4,997.11	566.19	5,025.32	0.19	0.03	0.19
11,630.00	89.96	161.23	7,054.13	-5,082.82	593.62	5,114.19	2.28	0.01	-2.28

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Company:	Jay-Bee Oil & Gas Inc.	Local Co-ordinate Reference:	Well 2
Project:	Tyler County, WV (NAD83 - UTM 17N)	TVD Reference:	RKB @ 1312.70usft (Patterson 823)
Site:	Grumpy	MD Reference:	RKB @ 1312.70usft (Patterson 823)
Well:	2	North Reference:	Grid
Wellbore:	OH / 68141	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 823)	Database:	USA Compass

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)
11,720.00	90.10	161.63	7,054.08	-5,168.14	622.28	5,202.86	0.47	0.16	0.44
11,810.00	89.84	162.94	7,054.13	-5,253.87	649.66	5,291.74	1.48	-0.29	1.46
11,900.00	90.44	161.46	7,053.91	-5,339.56	677.17	5,380.60	1.77	0.67	-1.64
11,991.00	90.56	162.47	7,053.11	-5,426.08	705.35	5,470.38	1.12	0.13	1.11
12,081.00	90.67	165.97	7,052.14	-5,512.67	729.82	5,559.67	3.89	0.12	3.89
12,171.00	90.33	165.78	7,051.36	-5,599.95	751.78	5,649.26	0.43	-0.38	-0.21
12,261.00	90.59	165.09	7,050.64	-5,687.05	774.41	5,738.78	0.82	0.29	-0.77
12,351.00	92.10	165.23	7,048.52	-5,774.02	797.46	5,828.24	1.68	1.68	0.16
12,441.00	90.35	165.09	7,046.60	-5,861.00	820.50	5,917.69	1.95	-1.94	-0.16
12,531.00	89.76	165.70	7,046.51	-5,948.09	843.19	6,007.21	0.94	-0.66	0.68
12,622.00	90.25	165.93	7,046.51	-6,036.31	865.49	6,097.79	0.59	0.54	0.25
12,712.00	89.93	165.95	7,046.36	-6,123.62	887.36	6,187.40	0.36	-0.36	0.02
12,802.00	90.79	165.60	7,045.80	-6,210.85	909.47	6,276.97	1.03	0.96	-0.39
12,893.00	90.93	165.75	7,044.43	-6,299.01	931.99	6,367.52	0.23	0.15	0.16
12,983.00	90.62	166.13	7,043.22	-6,386.31	953.85	6,457.12	0.54	-0.34	0.42
13,028.00	90.13	166.55	7,042.92	-6,430.04	964.47	6,501.94	1.43	-1.09	0.93
Final Phoenix MWD Survey									
13,097.00	90.13	166.55	7,042.76	-6,497.15	980.52	6,570.70	0.00	0.00	0.00
Projection to TD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
317.50	317.46	-0.79	-2.95	Tie In
404.00	403.95	-1.09	-1.65	First Phoenix MWD Survey
13,028.00	7,042.92	-6,430.04	964.47	Final Phoenix MWD Survey
13,097.00	7,042.76	-6,497.15	980.52	Projection to TD

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