



Jay Bee Oil & Gas
 Tyler Co., WV
 Dopey Pad
 Jay Bee Dopey 03
 Dopey 03
 Plan: Design #2 (Jay Bee Dopey 03/Dopey 03)
 rig @ 915.90usft (Normac 81 (911.9+25=936.90))

FORMATION TOPS ALONG WELLPATH

TVDPath	MDPPath	Formation
1942.00	1924.07	Lime
2009.00	1991.07	Injun
2714.00	2896.08	Gordon
4602.00	4594.13	Benson
6062.00	6063.16	Hamilton
6573.00	6671.72	Upper Marcellus
6800.00	6726.64	Parcal Lime
6806.00	6740.28	Parcal Shale
6859.00	6828.05	Lower Marcellus

PROJECT DETAILS: Tyler Co., WV

Geoidic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	West Virginia Northern Zone
North Reference:	Grid
System Datum:	Mean Sea Level
To convert a Magnetic Direction to a Grid Direction: Subtract 6.86°	
To convert a Magnetic Direction to a True Direction: Subtract 7.67°	
To convert a True Direction to a Grid Direction: Add 0.81°	

WELLBORE TARGET DETAILS

Name	TVD	+N/S	+E/W	Northing	Easting	Shape
Jay Bee Dopey 03 - PBHL	6661.00	-4203.06	3526.05	340063.80	1612689.37	Point

CASING DETAILS

TVD	MD	Name	Size
3602.00	3602.00	1 3/4"	5.50
2197.00	2197.00	8 5/8"	5.30

Notice: Casing Depths are Estimates Only

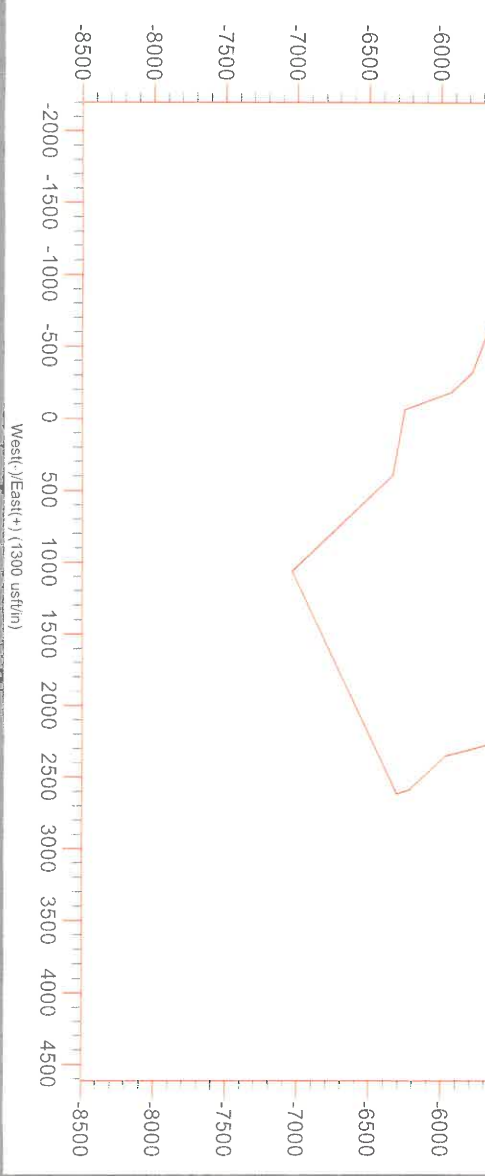
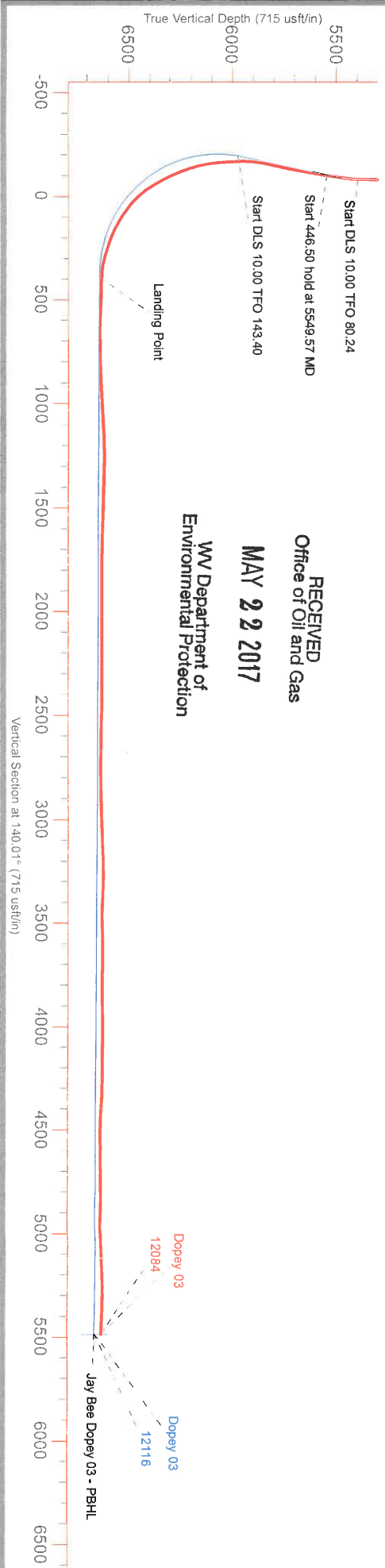
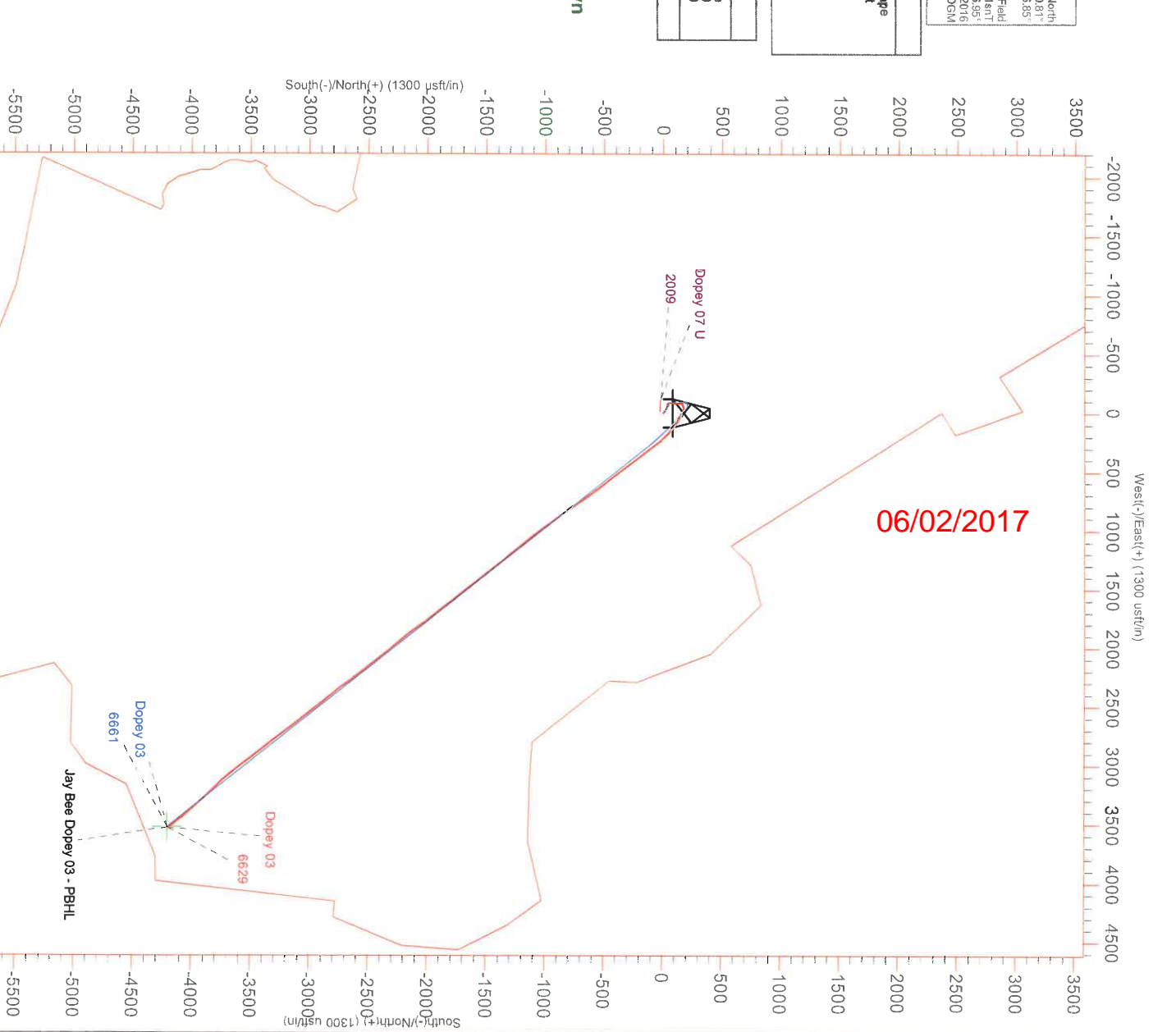
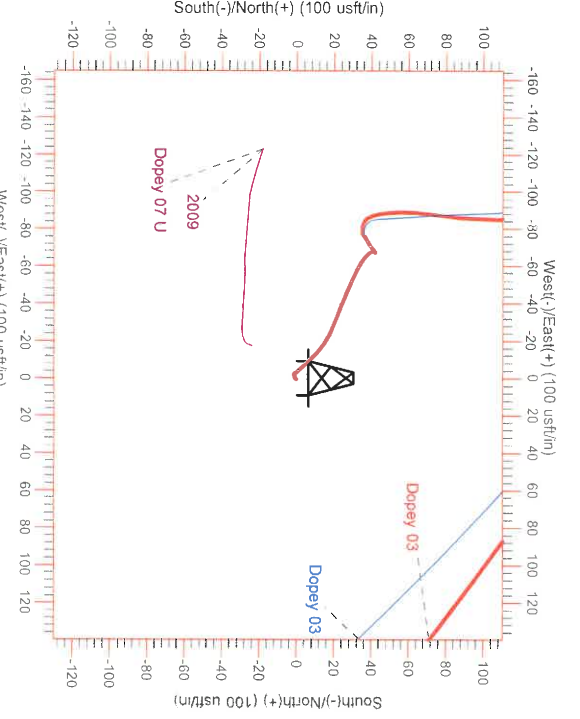
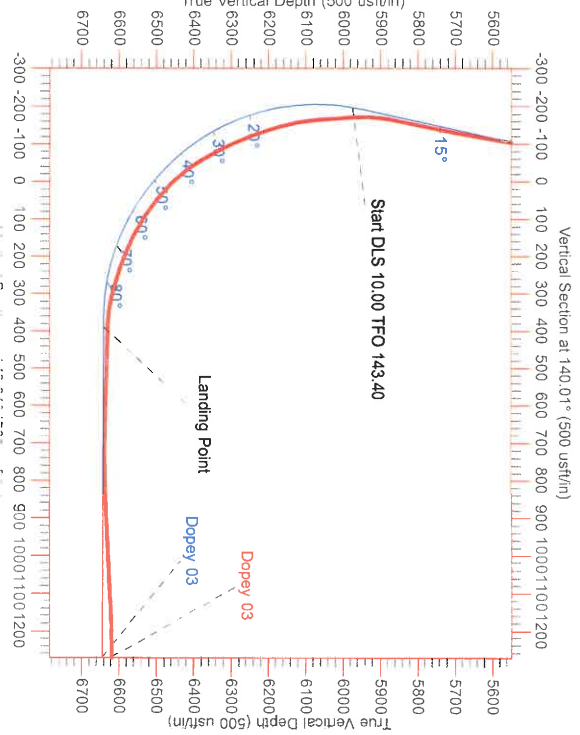
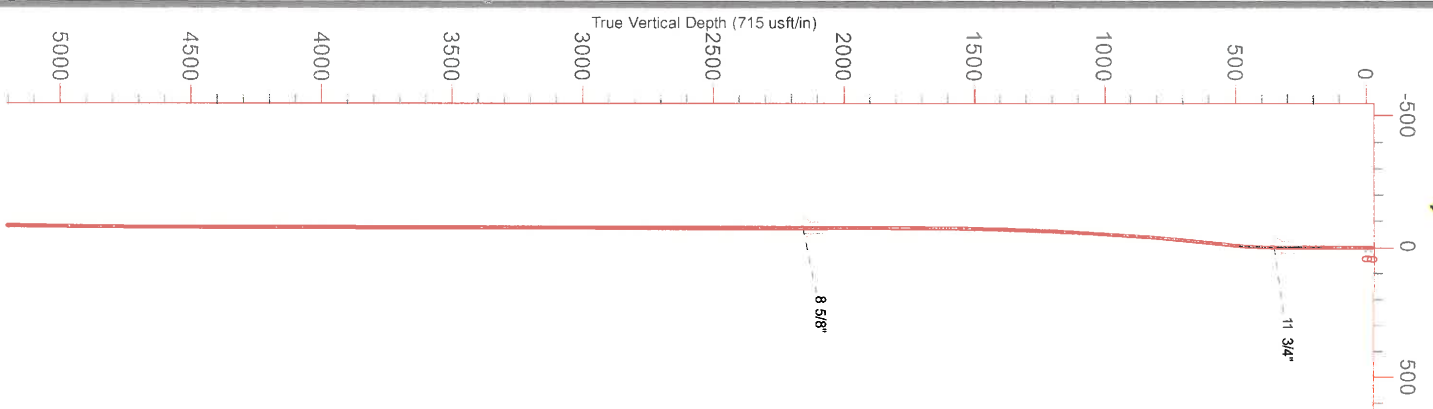
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dip	TFace	Vsect	Target
1	5400.00	2.38	331.98	5396.83	39.28	-84.09	0.00	0.00	-84.13	
2	5529.34	15.05	357.15	5524.43	58.50	-100.22	0.00	29.57	-100.22	
3	5975.84	15.05	357.15	5955.62	174.30	-91.96	0.00	0.00	-92.64	
4	6995.46	89.78	141.50	6841.17	141.50	-195.72	10.00	143.44	367.83	Jay Bee Dopey 03 - PBHL
5	12115.65	89.78	141.50	6661.00	-4203.06	3526.05	0.00	0.00	5486.23	Jay Bee Dopey 03 - PBHL

SECTION DETAILS (Continued)

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dip	TFace	Vsect	Target
1	5400.00	2.38	331.98	5396.83	39.28	-84.09	0.00	0.00	-84.13	
2	5529.34	15.05	357.15	5524.43	58.50	-100.22	0.00	29.57	-100.22	
3	5975.84	15.05	357.15	5955.62	174.30	-91.96	0.00	0.00	-92.64	
4	6995.46	89.78	141.50	6841.17	141.50	-195.72	10.00	143.44	367.83	Jay Bee Dopey 03 - PBHL
5	12115.65	89.78	141.50	6661.00	-4203.06	3526.05	0.00	0.00	5486.23	Jay Bee Dopey 03 - PBHL

Target Window: 15' Up & 15' Down
 Target Window: 50' R & 50' L



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Jay Bee Oil & Gas

Tyler Co., WV
Dopey Pad
Jay Bee Dopey 03

Dopey 03

Design: Dopey 03

Standard Survey Report

02 August, 2016

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Gyrodata Inc.
Survey Report

Company:	Jay Bee Oil & Gas	Local Co-ordinate Reference:	Well Jay Bee Dopey 03
Project:	Tyler Co., WV	TVD Reference:	rig @ 936.90usft (Normac 81 (911.9+25=936.90))
Site:	Dopey Pad	MD Reference:	rig @ 936.90usft (Normac 81 (911.9+25=936.90))
Well:	Jay Bee Dopey 03	North Reference:	Grid
Wellbore:	Dopey 03	Survey Calculation Method:	Minimum Curvature
Design:	Dopey 03	Database:	Gyrodata NWDB

Project	Tyler Co., WV		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	West Virginia Northern Zone		

Site	Dopey Pad				
Site Position:		Northing:	344,194.36 usft	Latitude:	39° 26' 16.832 N
From:	Map	Easting:	1,609,090.31 usft	Longitude:	80° 46' 21.361 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	-0.81 °

Well	Jay Bee Dopey 03					
Well Position	+N/-S	0.00 usft	Northing:	344,266.86 usft	Latitude:	39° 26' 17.556 N
	+E/-W	0.00 usft	Easting:	1,609,143.32 usft	Longitude:	80° 46' 20.698 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft	Ground Level:	911.90 usft

Wellbore	Dopey 03				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/13/2016	-7.67	66.95	52,341

Design	Dopey 03				
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		140.01

Survey Program	Date 8/2/2016				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
16.90	2,921.00	Survey #1 (Dopey 03)	GYD_DP_MS	Gyrodata gyro-compassing and drop	
3,203.00	12,084.00	Survey #2 (Dopey 03)	MWD - OSWG	OWSG MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16.90	0.00	360.00	16.90	0.00	0.00	0.00	0.00	0.00	0.00	
116.90	1.13	221.52	116.89	-0.74	-0.65	0.15	1.13	1.13	0.00	
216.90	1.39	285.97	216.87	-1.14	-2.47	-0.71	1.36	0.26	64.45	
316.90	0.49	114.06	316.87	-0.98	-3.25	-1.33	1.88	-0.90	-171.91	
416.90	0.74	329.22	416.86	-0.60	-3.19	-1.59	1.17	0.25	-144.84	
516.90	5.56	318.89	516.68	3.60	-6.71	-7.07	4.83	4.82	-10.33	
616.90	6.99	312.25	616.08	11.35	-14.40	-17.94	1.60	1.43	-6.64	

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Gyrodatta Inc.
Survey Report

Company: Jay Bee Oil & Gas
Project: Tyler Co., WV
Site: Dopey Pad
Well: Jay Bee Dopey 03
Wellbore: Dopey 03
Design: Dopey 03

Local Co-ordinate Reference: Well Jay Bee Dopey 03
TVD Reference: rig @ 936.90usft (Normac 81 (911.9+25=936.90))
MD Reference: rig @ 936.90usft (Normac 81 (911.9+25=936.90))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Gyrodatta NWDB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
716.90	5.49	294.90	715.50	17.45	-23.24	-28.31	2.39	-1.50	-17.35
816.90	5.25	290.91	815.06	21.10	-31.85	-36.64	0.44	-0.24	-3.99
916.90	4.62	290.85	914.69	24.17	-39.89	-44.15	0.63	-0.63	-0.06
1,016.90	4.10	294.85	1,014.40	27.10	-46.90	-50.90	0.60	-0.52	4.00
1,116.90	3.36	294.10	1,114.18	29.80	-52.82	-56.78	0.74	-0.74	-0.75
1,216.90	2.69	297.75	1,214.04	32.09	-57.57	-61.58	0.70	-0.67	3.65
1,316.90	2.19	301.52	1,313.95	34.18	-61.28	-65.57	0.52	-0.50	3.77
1,416.90	1.76	310.65	1,413.89	36.18	-64.07	-68.89	0.53	-0.43	9.13
1,516.90	1.44	315.27	1,513.86	38.07	-66.12	-71.66	0.34	-0.32	4.62
1,616.90	0.88	331.53	1,613.83	39.64	-67.37	-73.67	0.64	-0.56	16.26
1,716.90	0.33	356.16	1,713.83	40.60	-67.75	-74.65	0.60	-0.55	24.63
1,816.90	0.43	25.61	1,813.83	41.23	-67.61	-75.04	0.22	0.10	29.45
1,916.90	0.18	53.33	1,913.83	41.66	-67.32	-75.18	0.28	-0.25	27.72
2,016.90	0.12	86.90	2,013.83	41.76	-67.09	-75.11	0.10	-0.06	33.57
2,116.90	0.10	54.00	2,113.83	41.82	-66.92	-75.04	0.07	-0.02	-32.90
2,216.90	0.12	199.89	2,213.82	41.77	-66.88	-74.98	0.21	0.02	145.89
2,316.90	0.02	130.35	2,313.82	41.66	-66.90	-74.92	0.11	-0.10	-69.54
2,416.90	0.17	250.79	2,413.82	41.60	-67.03	-74.95	0.18	0.15	120.44
2,516.90	0.26	237.65	2,513.82	41.43	-67.36	-75.03	0.10	0.09	-13.14
2,616.90	0.17	235.61	2,613.82	41.23	-67.68	-75.08	0.09	-0.09	-2.04
2,716.90	0.29	244.75	2,713.82	41.03	-68.03	-75.16	0.13	0.12	9.14
2,816.90	1.01	233.68	2,813.82	40.40	-68.97	-75.28	0.73	0.72	-11.07
2,916.90	1.02	232.67	2,913.80	39.34	-70.39	-75.38	0.02	0.01	-1.01
3,499.00	0.12	279.69	3,495.87	36.30	-75.11	-76.08	0.16	-0.15	8.08
3,784.00	0.21	228.50	3,780.87	36.01	-75.79	-76.29	0.06	0.03	-17.96
4,070.00	0.09	215.21	4,066.86	35.48	-76.31	-76.22	0.04	-0.04	-4.65
4,354.00	0.35	269.04	4,350.86	35.28	-77.31	-76.71	0.11	0.09	18.95
4,639.00	0.40	266.87	4,635.86	35.21	-79.17	-77.86	0.02	0.02	-0.76
4,924.00	0.50	278.74	4,920.85	35.34	-81.40	-79.39	0.05	0.04	4.16
5,240.00	0.68	308.52	5,236.83	36.72	-84.23	-82.26	0.11	0.06	9.42
5,398.00	0.63	316.70	5,394.82	37.94	-85.55	-84.05	0.07	-0.03	5.18
5,443.00	4.08	334.21	5,439.78	39.56	-86.42	-85.85	7.74	7.67	38.91
5,493.00	9.51	349.21	5,489.41	45.22	-87.97	-91.18	11.33	10.86	30.00
5,538.00	10.53	0.34	5,533.73	52.99	-88.64	-97.56	4.85	2.27	24.73
5,588.00	12.49	0.80	5,582.72	62.96	-88.54	-105.14	3.92	3.92	0.92
5,635.00	15.06	9.84	5,628.37	74.07	-87.42	-112.93	7.12	5.47	19.23
5,683.00	13.63	5.66	5,674.87	85.84	-85.80	-120.91	3.68	-2.98	-8.71
5,778.00	14.36	359.65	5,767.06	108.76	-84.77	-137.80	1.71	0.77	-6.33
5,873.00	16.45	357.80	5,858.64	133.98	-85.36	-157.51	2.26	2.20	-1.95
5,968.00	11.21	34.83	5,951.02	155.06	-80.59	-170.59	10.56	-5.52	38.98
6,016.00	10.22	72.84	5,998.24	160.15	-73.84	-170.16	14.59	-2.06	79.19
6,063.00	11.70	71.42	6,044.39	162.90	-65.34	-166.80	3.20	3.15	-3.02

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Gyrodata Inc.
Survey Report

Company:	Jay Bee Oil & Gas	Local Co-ordinate Reference:	Well Jay Bee Dopey 03
Project:	Tyler Co., WV	TVD Reference:	rig @ 936.90usft (Normac 81 (911.9+25=936.90))
Site:	Dopey Pad	MD Reference:	rig @ 936.90usft (Normac 81 (911.9+25=936.90))
Well:	Jay Bee Dopey 03	North Reference:	Grid
Wellbore:	Dopey 03	Survey Calculation Method:	Minimum Curvature
Design:	Dopey 03	Database:	Gyrodata NWDB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,111.00	13.60	67.94	6,091.22	166.57	-55.50	-163.29	4.26	3.96	-7.25	
6,158.00	15.95	87.85	6,136.69	168.89	-43.92	-157.62	11.83	5.00	42.36	
6,206.00	18.44	100.32	6,182.56	167.78	-29.85	-147.73	9.24	5.19	25.98	
6,253.00	20.86	107.37	6,226.82	163.95	-14.55	-134.96	7.20	5.15	15.00	
6,301.00	23.01	111.49	6,271.35	157.96	2.34	-119.51	5.51	4.48	8.58	
6,348.00	26.57	116.76	6,314.02	149.86	20.28	-101.78	8.91	7.57	11.21	
6,396.00	29.27	117.90	6,356.43	139.53	40.24	-81.04	5.73	5.62	2.37	
6,443.00	31.54	119.95	6,396.96	128.01	61.05	-58.84	5.31	4.83	4.36	
6,491.00	37.05	126.45	6,436.61	113.14	83.59	-32.96	13.77	11.48	13.54	
6,538.00	44.01	126.27	6,472.31	95.04	108.17	-3.30	14.81	14.81	-0.38	
6,583.00	49.73	127.17	6,503.07	75.41	134.48	28.65	12.79	12.71	2.00	
6,633.00	53.90	130.52	6,533.98	50.74	165.05	67.19	9.86	8.34	6.70	
6,678.00	58.51	134.94	6,559.01	25.36	192.48	104.27	13.10	10.24	9.82	
6,728.00	63.55	138.98	6,583.23	-6.62	222.28	147.92	12.31	10.08	8.08	
6,776.00	68.06	142.59	6,602.90	-40.54	249.93	191.68	11.63	9.40	7.52	
6,823.00	71.21	142.03	6,619.25	-75.40	276.87	235.70	6.79	6.70	-1.19	
6,871.00	73.69	142.20	6,633.72	-111.52	304.97	281.43	5.18	5.17	0.35	
6,918.00	79.57	142.11	6,644.59	-147.61	333.01	327.11	12.51	12.51	-0.19	
6,966.00	86.73	142.41	6,650.31	-185.28	362.16	374.70	14.93	14.92	0.62	
7,013.00	88.76	143.09	6,652.16	-222.66	390.59	421.61	4.55	4.32	1.45	
7,108.00	88.35	143.44	6,654.55	-298.77	447.39	516.42	0.57	-0.43	0.37	
7,203.00	87.62	142.58	6,657.89	-374.60	504.52	611.23	1.19	-0.77	-0.91	
7,298.00	89.61	141.96	6,660.19	-449.71	562.63	706.12	2.19	2.09	-0.65	
7,393.00	91.78	141.63	6,659.04	-524.35	621.38	801.07	2.31	2.28	-0.35	
7,488.00	92.83	143.19	6,655.22	-599.56	679.28	895.90	1.98	1.11	1.64	
7,583.00	92.29	146.24	6,650.97	-677.03	734.09	990.47	3.26	-0.57	3.21	
7,678.00	93.69	144.86	6,646.02	-755.25	787.76	1,084.90	2.07	1.47	-1.45	
7,773.00	91.65	143.71	6,641.59	-832.30	843.15	1,179.52	2.46	-2.15	-1.21	
7,868.00	89.36	144.38	6,640.76	-909.19	898.92	1,274.28	2.51	-2.41	0.71	
7,913.00	89.69	143.81	6,641.13	-945.64	925.31	1,319.16	1.46	0.73	-1.27	
7,963.00	89.24	143.55	6,641.60	-985.92	954.93	1,369.06	1.04	-0.90	-0.52	
8,008.00	88.53	142.81	6,642.47	-1,021.94	981.89	1,413.98	2.28	-1.58	-1.64	
8,058.00	88.34	142.10	6,643.84	-1,061.57	1,012.35	1,463.91	1.47	-0.38	-1.42	
8,103.00	88.31	142.34	6,645.15	-1,097.12	1,039.90	1,508.86	0.54	-0.07	0.53	
8,153.00	87.82	141.03	6,646.84	-1,136.33	1,070.88	1,558.81	2.80	-0.98	-2.62	
8,198.00	88.49	140.72	6,648.29	-1,171.22	1,099.26	1,603.78	1.64	1.49	-0.69	
8,248.00	89.09	140.58	6,649.34	-1,209.87	1,130.96	1,653.77	1.23	1.20	-0.28	
8,293.00	88.87	140.13	6,650.15	-1,244.52	1,159.67	1,698.76	1.11	-0.49	-1.00	
8,343.00	89.23	140.23	6,650.97	-1,282.92	1,191.68	1,748.75	0.75	0.72	0.20	
8,388.00	89.31	140.66	6,651.55	-1,317.61	1,220.33	1,793.75	0.97	0.18	0.96	
8,438.00	90.52	141.97	6,651.62	-1,356.64	1,251.59	1,843.73	3.57	2.42	2.62	
8,483.00	90.24	142.01	6,651.32	-1,392.09	1,279.30	1,888.70	0.63	-0.62	0.09	

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MAY 22 2017

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Company:	Jay Bee Oil & Gas	Local Co-ordinate Reference:	Well Jay Bee Dopey 03
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Well:	Jay Bee Dopey 03	North Reference:	Grid
Wellbore:	Dopey 03	Survey Calculation Method:	Minimum Curvature
Design:	Dopey 03	Database:	Gyrodata NWDB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,534.00	89.83	141.09	6,651.29	-1,432.03	1,311.01	1,939.69	1.97	-0.80	-1.80	
8,580.00	89.72	141.23	6,651.47	-1,467.86	1,339.86	1,985.68	0.39	-0.24	0.30	
8,629.00	89.85	141.25	6,651.66	-1,506.07	1,370.53	2,034.66	0.27	0.27	0.04	
8,724.00	90.63	141.77	6,651.26	-1,580.43	1,429.66	2,129.63	0.99	0.82	0.55	
8,769.00	90.31	141.36	6,650.89	-1,615.67	1,457.63	2,174.61	1.16	-0.71	-0.91	
8,819.00	89.41	141.58	6,651.01	-1,654.79	1,488.78	2,224.59	1.85	-1.80	0.44	
8,864.00	90.03	142.89	6,651.23	-1,690.36	1,516.33	2,269.56	3.22	1.38	2.91	
8,914.00	90.14	143.17	6,651.16	-1,730.31	1,546.40	2,319.49	0.60	0.22	0.56	
8,959.00	90.29	143.33	6,650.99	-1,766.36	1,573.33	2,364.42	0.49	0.33	0.36	
9,009.00	89.68	142.15	6,651.00	-1,806.16	1,603.60	2,414.36	2.66	-1.22	-2.36	
9,054.00	89.73	141.72	6,651.23	-1,841.59	1,631.34	2,459.33	0.96	0.11	-0.96	
9,105.00	88.62	141.24	6,651.97	-1,881.48	1,663.10	2,510.31	2.37	-2.18	-0.94	
9,153.00	87.79	140.55	6,653.47	-1,918.71	1,693.36	2,558.28	2.25	-1.73	-1.44	
9,200.00	87.75	140.59	6,655.30	-1,954.99	1,723.19	2,605.24	0.12	-0.09	0.09	
9,248.00	89.45	141.37	6,656.47	-1,992.27	1,753.40	2,653.22	3.90	3.54	1.62	
9,295.00	90.76	145.90	6,656.39	-2,030.10	1,781.26	2,700.11	10.03	2.79	9.64	
9,343.00	90.49	144.38	6,655.86	-2,069.49	1,808.69	2,747.91	3.22	-0.56	-3.17	
9,390.00	90.42	143.49	6,655.49	-2,107.48	1,836.36	2,794.80	1.90	-0.15	-1.89	
9,438.00	90.29	142.73	6,655.19	-2,145.87	1,865.18	2,842.73	1.61	-0.27	-1.58	
9,485.00	91.23	140.43	6,654.57	-2,182.68	1,894.38	2,889.71	5.29	2.00	-4.89	
9,533.00	90.98	140.09	6,653.64	-2,219.59	1,925.06	2,937.70	0.88	-0.52	-0.71	
9,580.00	91.27	139.07	6,652.72	-2,255.36	1,955.53	2,984.68	2.26	0.62	-2.17	
9,628.00	92.69	140.48	6,651.06	-2,291.98	1,986.50	3,032.65	4.17	2.96	2.94	
9,675.00	93.36	140.41	6,648.58	-2,328.17	2,016.39	3,079.59	1.43	1.43	-0.15	
9,723.00	92.77	141.07	6,646.02	-2,365.28	2,046.72	3,127.51	1.84	-1.23	1.37	
9,770.00	91.27	140.83	6,644.36	-2,401.76	2,076.32	3,174.48	3.23	-3.19	-0.51	
9,818.00	90.69	140.96	6,643.54	-2,439.00	2,106.59	3,222.46	1.24	-1.21	0.27	
9,865.00	89.80	140.88	6,643.34	-2,475.49	2,136.22	3,269.46	1.90	-1.89	-0.17	
9,913.00	88.41	142.24	6,644.09	-2,513.08	2,166.05	3,317.43	4.05	-2.90	2.83	
9,960.00	88.03	142.47	6,645.55	-2,550.27	2,194.74	3,364.37	0.94	-0.81	0.49	
10,008.00	87.62	142.14	6,647.37	-2,588.23	2,224.07	3,412.30	1.10	-0.85	-0.69	
10,055.00	88.85	142.28	6,648.82	-2,625.35	2,252.86	3,459.24	2.63	2.62	0.30	
10,103.00	91.71	143.77	6,648.58	-2,663.69	2,281.72	3,507.16	6.72	5.96	3.10	
10,151.00	92.03	143.81	6,647.02	-2,702.40	2,310.07	3,555.03	0.67	0.67	0.08	
10,199.00	90.06	142.37	6,646.14	-2,740.77	2,338.89	3,602.95	5.08	-4.10	-3.00	
10,246.00	89.94	141.51	6,646.14	-2,777.78	2,367.86	3,649.93	1.85	-0.26	-1.83	
10,294.00	88.95	139.81	6,646.60	-2,814.90	2,398.29	3,697.92	4.10	-2.06	-3.54	
10,341.00	89.05	139.51	6,647.42	-2,850.71	2,428.70	3,744.91	0.67	0.21	-0.64	
10,389.00	89.71	140.48	6,647.94	-2,887.48	2,459.56	3,792.91	2.44	1.37	2.02	
10,436.00	90.39	142.18	6,647.90	-2,924.17	2,488.93	3,839.89	3.90	1.45	3.62	
10,485.00	90.57	142.31	6,647.49	-2,962.91	2,518.93	3,888.85	0.45	0.37	0.27	
10,531.00	90.95	142.54	6,646.88	-2,999.37	2,546.97	3,934.81	0.97	0.83	0.50	

06/02/2017

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WV Department of
Environmental Protection



Gyrodata Inc.
Survey Report

Company:	Jay Bee Oil & Gas	Local Co-ordinate Reference:	Well Jay Bee Dopey 03
Project:	Tyler Co., WV	TVD Reference:	rig @ 936.90usft (Normac 81 (911.9+25=936.90))
Site:	Dopey Pad	MD Reference:	rig @ 936.90usft (Normac 81 (911.9+25=936.90))
Well:	Jay Bee Dopey 03	North Reference:	Grid
Wellbore:	Dopey 03	Survey Calculation Method:	Minimum Curvature
Design:	Dopey 03	Database:	Gyrodata NWDB

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
10,579.00	91.02	142.28	6,646.06	-3,037.40	2,576.25	3,982.76	0.56	0.15	-0.54	
10,626.00	89.62	141.60	6,645.80	-3,074.40	2,605.22	4,029.73	3.31	-2.98	-1.45	
10,674.00	89.43	140.65	6,646.19	-3,111.77	2,635.35	4,077.72	2.02	-0.40	-1.98	
10,721.00	89.87	141.16	6,646.48	-3,148.24	2,664.99	4,124.71	1.43	0.94	1.09	
10,768.00	90.59	143.06	6,646.29	-3,185.33	2,693.85	4,171.68	4.32	1.53	4.04	
10,816.00	90.31	142.82	6,645.91	-3,223.64	2,722.78	4,219.61	0.77	-0.58	-0.50	
10,864.00	89.87	142.65	6,645.84	-3,261.84	2,751.84	4,267.56	0.98	-0.92	-0.35	
10,912.00	88.07	141.87	6,646.70	-3,299.79	2,781.21	4,315.51	4.09	-3.75	-1.62	
10,960.00	85.53	141.12	6,649.38	-3,337.29	2,811.05	4,363.42	5.52	-5.29	-1.56	
11,007.00	86.63	141.60	6,652.59	-3,373.91	2,840.33	4,410.29	2.55	2.34	1.02	
11,055.00	87.69	140.85	6,654.97	-3,411.29	2,870.35	4,458.22	2.70	2.21	-1.56	
11,102.00	89.33	140.76	6,656.19	-3,447.70	2,900.04	4,505.20	3.49	3.49	-0.19	
11,150.00	90.76	145.01	6,656.16	-3,485.97	2,929.00	4,553.13	9.34	2.98	8.85	
11,197.00	90.67	144.40	6,655.57	-3,524.32	2,956.15	4,599.97	1.31	-0.19	-1.30	
11,245.00	90.35	142.28	6,655.14	-3,562.82	2,984.81	4,647.88	4.47	-0.67	-4.42	
11,292.00	90.22	141.10	6,654.91	-3,599.70	3,013.94	4,694.86	2.53	-0.28	-2.51	
11,340.00	91.13	140.65	6,654.34	-3,636.94	3,044.23	4,742.85	2.11	1.90	-0.94	
11,388.00	90.45	139.11	6,653.68	-3,673.64	3,075.16	4,790.84	3.51	-1.42	-3.21	
11,436.00	90.88	140.02	6,653.12	-3,710.17	3,106.29	4,838.84	2.10	0.90	1.90	
11,483.00	88.42	135.21	6,653.41	-3,744.87	3,137.96	4,885.78	11.49	-5.23	-10.23	
11,531.00	88.49	135.39	6,654.71	-3,778.98	3,171.71	4,933.60	0.40	0.15	0.37	
11,578.00	90.32	137.56	6,655.19	-3,813.05	3,204.07	4,980.50	6.04	3.89	4.62	
11,626.00	89.79	137.07	6,655.15	-3,848.34	3,236.61	5,028.45	1.50	-1.10	-1.02	
11,673.00	93.08	136.34	6,653.97	-3,882.53	3,268.83	5,075.35	7.17	7.00	-1.55	
11,721.00	93.06	135.99	6,651.40	-3,917.10	3,302.02	5,123.17	0.73	-0.04	-0.73	
11,768.00	93.32	135.82	6,648.79	-3,950.80	3,334.68	5,169.98	0.66	0.55	-0.36	
11,816.00	91.90	138.99	6,646.60	-3,986.10	3,367.12	5,217.87	7.23	-2.96	6.60	
11,863.00	91.15	139.95	6,645.35	-4,021.81	3,397.66	5,264.85	2.59	-1.60	2.04	
11,911.00	89.48	140.93	6,645.08	-4,058.81	3,428.22	5,312.85	4.03	-3.48	2.04	
11,958.00	88.59	142.74	6,645.88	-4,095.76	3,457.26	5,359.81	4.29	-1.89	3.85	
12,006.00	88.06	141.54	6,647.28	-4,133.64	3,486.71	5,407.76	2.73	-1.10	-2.50	
12,033.00	87.94	141.30	6,648.22	-4,154.73	3,503.53	5,434.74	0.99	-0.44	-0.89	
12,084.00	87.94	141.30	6,650.05	-4,194.51	3,535.40	5,485.69	0.00	0.00	0.00	

Checked By: _____ Approved By: _____ Date: _____

06/02/2017