

End of Well Report

FOR

Jay Bee Oil & Gas

RPT 5-2
Tyler County, WV

DR130148

DDDC
Directional Drilling Contractors, LLC.
An Archer Company



Received

APR 27 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

10/07/2016

Section One
Directional Comparison Plot
Actual vs. Proposed

Received

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Office of Oil and Gas
WV Dept. of Environmental Protection

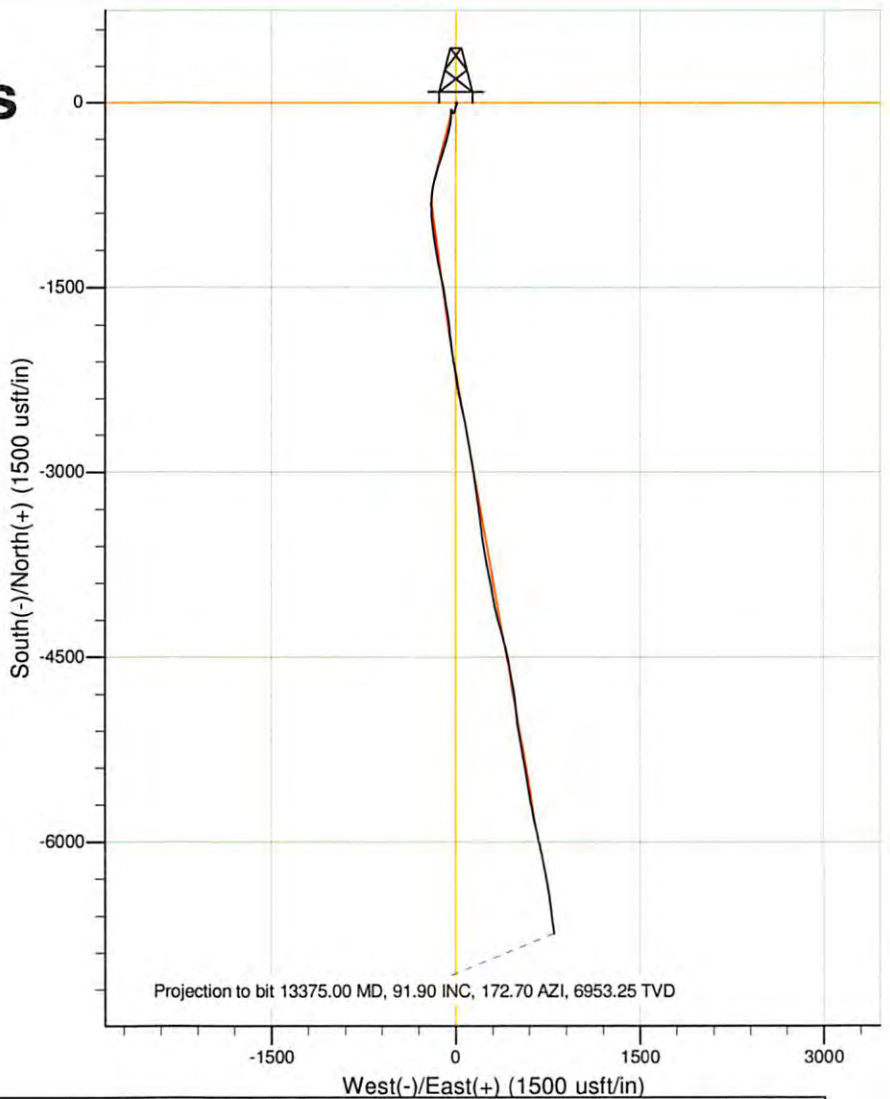
10/07/2016

Jay Bee Oil & Gas

M **G** **T**
 Azimuths to Grid North
 True North: 0.82°
 Magnetic North: -6.72°
 Magnetic Field
 Strength: 52614.0snT
 Dip Angle: 67.12°
 Date: 07/20/2013
 Model: USER DEFINED

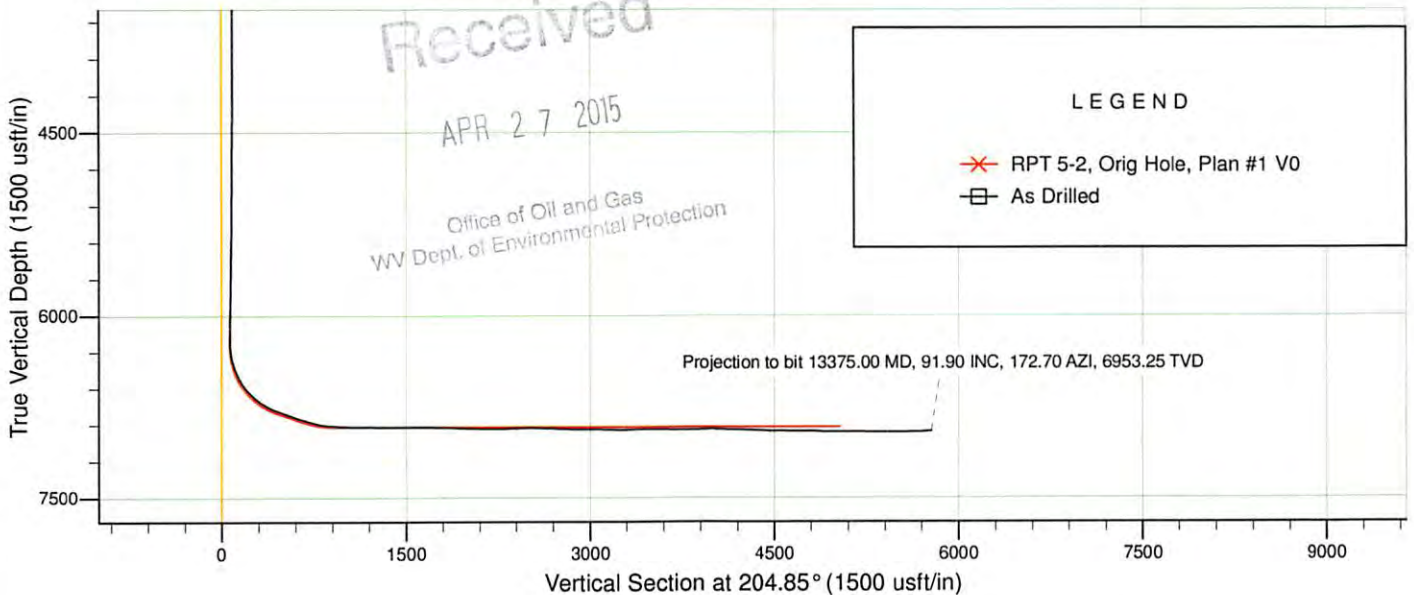
PROJECT DETAILS: Tyler County, WV

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: West Virginia Northern Zone
 System Datum: Mean Sea Level



WELL DETAILS: RPT 5-2

			Ground Level:	1242.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	358448.8238	1603377.1533	39° 28' 36.899 N	80° 47' 36.792 W	



10/07/2016

Jay Bee Oil & Gas

Tyler County, WV

RPT 5 Pad

RPT 5-2

Orig Hole

Design: As Drilled

Survey Report - Geographic

01 August, 2013

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Office of Oil and Gas
WV Dept. of Environmental Protection



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10/07/2016

Directional Drilling Contractors

Survey Report - Geographic



Company: Jay Bee Oil & Gas	Local Co-ordinate Reference: Well RPT 5-2	Received
Project: Tyler County, WV	TVD Reference: RKB=16' @ 1258.00usft (Original Well Elev)	
Site: RPT 5 Pad	MD Reference: RKB=16' @ 1258.00usft (Original Well Elev)	
Well: RPT 5-2	North Reference: Grid	
Wellbore: Orig Hole	Survey Calculation Method: Minimum Curvature	
Design: As Drilled	Database: EDM 5000.1 Single User Db	

APR 27 2015

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

Office of Oil and Gas
West Virginia Dept. of Environmental Protection

Site RPT 5 Pad					
Site Position:		Northing: 358,458.9445 usft	Latitude: 39° 28' 36.998 N		
From: Lat/Long		Easting: 1,603,365.6697 usft	Longitude: 80° 47' 36.940 W		
Position Uncertainty:	0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: -0.83 °		

Well RPT 5-2					
Well Position	+N/-S 0.00 usft	Northing: 358,448.8238 usft	Latitude: 39° 28' 36.899 N		
	+E/-W 0.00 usft	Easting: 1,603,377.1533 usft	Longitude: 80° 47' 36.792 W		
Position Uncertainty	0.00 usft	Wellhead Elevation: usft	Ground Level: 1,242.00 usft		

Wellbore Orig Hole					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	07/20/13	-7.55	67.12	52,614

Design As Drilled					
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	204.85	

Survey Program Date 08/01/13					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	5,350.00	GYRO (Orig Hole)	NS-GYRO-MS	North sensing gyrocompassing m/s	
5,418.00	13,375.00	MWD (Orig Hole)	MWD	MWD - Standard	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	358,448.8238	1,603,377.1533	39° 28' 36.899 N	80° 47' 36.792 W
100.00	1.52	50.29	99.99	0.85	1.02	358,449.6712	1,603,378.1737	39° 28' 36.908 N	80° 47' 36.779 W
200.00	2.69	77.53	199.92	2.20	4.33	358,451.0253	1,603,381.4854	39° 28' 36.922 N	80° 47' 36.737 W
300.00	1.42	154.23	299.87	1.59	7.16	358,450.4161	1,603,384.3159	39° 28' 36.916 N	80° 47' 36.701 W
400.00	1.89	233.13	399.84	-0.51	6.38	358,448.3106	1,603,383.5352	39° 28' 36.895 N	80° 47' 36.710 W
500.00	0.75	304.19	499.82	-1.13	4.52	358,447.6889	1,603,381.6745	39° 28' 36.889 N	80° 47' 36.734 W
600.00	2.01	49.19	599.79	0.38	5.31	358,449.2030	1,603,382.4606	39° 28' 36.904 N	80° 47' 36.724 W
700.00	1.80	86.02	699.74	1.63	8.20	358,450.4582	1,603,385.3548	39° 28' 36.917 N	80° 47' 36.687 W
800.00	1.94	145.57	799.70	0.35	10.73	358,449.1710	1,603,387.8788	39° 28' 36.904 N	80° 47' 36.655 W
900.00	2.72	199.19	899.63	-3.29	10.90	358,445.5335	1,603,388.0559	39° 28' 36.869 N	80° 47' 36.652 W
1,000.00	2.96	206.95	999.50	-7.83	8.95	358,440.9910	1,603,386.1058	39° 28' 36.823 N	80° 47' 36.676 W

Directional Drilling Contractors

Survey Report - Geographic



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Project: Tyler County, WV
Site: RPT 5 Pad
Well: RPT 5-2
Wellbore: Orig Hole
Design: As Drilled

Local Co-ordinate Reference: Well RPT 5-2
TVD Reference: RKB=16' @ 1258.00usft (Original Well Elev)
MD Reference: RKB=16' @ 1258.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Office of Oil and Gas
 WV Dept. of Environmental Protection

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,100.00	2.97	205.51	1,099.37	-12.47	6.67	358,436.3514	1,603,383.8199	39° 28' 36.777 N	80° 47' 36.704 W
1,200.00	3.23	202.52	1,199.22	-17.41	4.47	358,431.4109	1,603,381.6252	39° 28' 36.728 N	80° 47' 36.731 W
1,300.00	3.00	197.25	1,299.08	-22.51	2.62	358,426.3094	1,603,379.7702	39° 28' 36.677 N	80° 47' 36.754 W
1,400.00	3.00	189.41	1,398.94	-27.60	1.41	358,421.2287	1,603,378.5663	39° 28' 36.627 N	80° 47' 36.769 W
1,500.00	3.07	191.30	1,498.80	-32.80	0.46	358,416.0212	1,603,377.6138	39° 28' 36.575 N	80° 47' 36.780 W
1,600.00	3.07	193.09	1,598.65	-38.04	-0.67	358,410.7871	1,603,376.4826	39° 28' 36.523 N	80° 47' 36.793 W
1,700.00	3.02	195.35	1,698.51	-43.19	-1.97	358,405.6386	1,603,375.1788	39° 28' 36.472 N	80° 47' 36.809 W
1,800.00	2.99	196.18	1,798.38	-48.23	-3.40	358,400.5936	1,603,373.7547	39° 28' 36.422 N	80° 47' 36.826 W
1,900.00	2.95	195.08	1,898.24	-53.22	-4.79	358,395.6042	1,603,372.3585	39° 28' 36.373 N	80° 47' 36.843 W
2,000.00	2.84	195.24	1,998.11	-58.09	-6.12	358,390.7293	1,603,371.0378	39° 28' 36.324 N	80° 47' 36.859 W
2,100.00	2.62	193.83	2,098.00	-62.70	-7.31	358,386.1198	1,603,369.8403	39° 28' 36.279 N	80° 47' 36.873 W
2,200.00	2.57	195.49	2,197.90	-67.08	-8.46	358,381.7399	1,603,368.6951	39° 28' 36.235 N	80° 47' 36.887 W
2,300.00	2.47	196.09	2,297.80	-71.31	-9.65	358,377.5089	1,603,367.4992	39° 28' 36.193 N	80° 47' 36.902 W
2,400.00	2.60	200.10	2,397.70	-75.52	-11.03	358,373.3085	1,603,366.1225	39° 28' 36.152 N	80° 47' 36.918 W
2,500.00	2.17	199.73	2,497.62	-79.43	-12.45	358,369.3964	1,603,364.7039	39° 28' 36.113 N	80° 47' 36.936 W
2,600.00	1.70	198.13	2,597.56	-82.62	-13.55	358,366.2046	1,603,363.6032	39° 28' 36.081 N	80° 47' 36.949 W
2,700.00	1.27	206.18	2,697.53	-85.02	-14.50	358,363.8004	1,603,362.6527	39° 28' 36.057 N	80° 47' 36.961 W
2,800.00	0.95	242.38	2,797.51	-86.40	-15.72	358,362.4216	1,603,361.4292	39° 28' 36.043 N	80° 47' 36.976 W
2,900.00	0.48	258.61	2,897.50	-86.87	-16.87	358,361.9545	1,603,360.2841	39° 28' 36.039 N	80° 47' 36.991 W
3,000.00	0.54	276.30	2,997.50	-86.90	-17.75	358,361.9235	1,603,359.4051	39° 28' 36.038 N	80° 47' 37.002 W
3,100.00	0.96	241.83	3,097.49	-87.24	-18.96	358,361.5798	1,603,358.1982	39° 28' 36.035 N	80° 47' 37.017 W
3,200.00	0.48	225.30	3,197.48	-87.93	-19.99	358,360.8896	1,603,357.1619	39° 28' 36.028 N	80° 47' 37.030 W
3,300.00	1.04	283.72	3,297.47	-88.01	-21.17	358,360.8102	1,603,355.9825	39° 28' 36.027 N	80° 47' 37.046 W
3,400.00	0.50	323.94	3,397.46	-87.45	-22.31	358,361.3782	1,603,354.8441	39° 28' 36.032 N	80° 47' 37.060 W
3,500.00	0.72	276.32	3,497.46	-87.02	-23.19	358,361.8001	1,603,353.9627	39° 28' 36.036 N	80° 47' 37.071 W
3,600.00	0.01	336.88	3,597.46	-86.95	-23.82	358,361.8773	1,603,353.3348	39° 28' 36.037 N	80° 47' 37.079 W
3,700.00	0.66	347.58	3,697.45	-86.38	-23.95	358,362.4478	1,603,353.2075	39° 28' 36.042 N	80° 47' 37.081 W
3,800.00	0.88	298.46	3,797.44	-85.45	-24.74	358,363.3762	1,603,352.4085	39° 28' 36.051 N	80° 47' 37.092 W
3,900.00	0.71	316.88	3,897.44	-84.63	-25.84	358,364.1944	1,603,351.3099	39° 28' 36.059 N	80° 47' 37.106 W
4,000.00	0.87	271.73	3,997.43	-84.15	-27.03	358,364.6696	1,603,350.1276	39° 28' 36.064 N	80° 47' 37.121 W
4,100.00	0.77	332.26	4,097.42	-83.54	-28.10	358,365.2872	1,603,349.0559	39° 28' 36.070 N	80° 47' 37.135 W
4,200.00	0.67	342.58	4,197.41	-82.38	-28.59	358,366.4398	1,603,348.5682	39° 28' 36.081 N	80° 47' 37.141 W
4,300.00	0.81	276.16	4,297.40	-81.75	-29.46	358,367.0735	1,603,347.6903	39° 28' 36.087 N	80° 47' 37.152 W
4,400.00	0.80	355.48	4,397.40	-80.98	-30.22	358,367.8453	1,603,346.9326	39° 28' 36.095 N	80° 47' 37.162 W
4,500.00	0.79	293.73	4,497.39	-80.01	-30.91	358,368.8187	1,603,346.2464	39° 28' 36.104 N	80° 47' 37.171 W
4,600.00	0.61	13.69	4,597.38	-79.21	-31.41	358,369.6133	1,603,345.7413	39° 28' 36.112 N	80° 47' 37.178 W
4,700.00	0.77	322.18	4,697.38	-78.16	-31.70	358,370.6613	1,603,345.4553	39° 28' 36.122 N	80° 47' 37.182 W
4,800.00	0.58	16.74	4,797.37	-77.15	-31.96	358,371.6768	1,603,345.1890	39° 28' 36.132 N	80° 47' 37.185 W
4,900.00	1.01	339.38	4,897.36	-75.84	-32.13	358,372.9864	1,603,345.0244	39° 28' 36.145 N	80° 47' 37.187 W
5,000.00	0.49	303.53	4,997.35	-74.78	-32.80	358,374.0475	1,603,344.3576	39° 28' 36.156 N	80° 47' 37.196 W
5,100.00	0.95	10.35	5,097.35	-73.72	-33.00	358,375.0992	1,603,344.1501	39° 28' 36.166 N	80° 47' 37.199 W
5,200.00	0.44	315.53	5,197.34	-72.64	-33.12	358,376.1887	1,603,344.0300	39° 28' 36.177 N	80° 47' 37.201 W
5,300.00	0.38	21.42	5,297.34	-72.05	-33.27	358,376.7714	1,603,343.8822	39° 28' 36.183 N	80° 47' 37.203 W
5,350.00	0.89	13.42	5,347.33	-71.52	-33.12	358,377.3035	1,603,344.0328	39° 28' 36.188 N	80° 47' 37.201 W
5,418.00	0.80	330.90	5,415.33	-70.59	-33.23	358,378.2320	1,603,343.9245	39° 28' 36.197 N	80° 47' 37.202 W
5,463.00	0.90	329.60	5,460.32	-70.01	-33.56	358,378.8113	1,603,343.5929	39° 28' 36.203 N	80° 47' 37.207 W
5,505.00	1.00	341.70	5,502.32	-69.38	-33.84	358,379.4438	1,603,343.3109	39° 28' 36.209 N	80° 47' 37.211 W
5,549.00	0.80	344.20	5,546.31	-68.72	-34.05	358,380.1039	1,603,343.1067	39° 28' 36.215 N	80° 47' 37.213 W
5,594.00	1.00	341.80	5,591.31	-68.04	-34.25	358,380.7792	1,603,342.8985	39° 28' 36.222 N	80° 47' 37.216 W
5,638.00	1.10	349.10	5,635.30	-67.27	-34.45	358,381.5587	1,603,342.6987	39° 28' 36.230 N	80° 47' 37.219 W
5,683.00	1.00	7.00	5,680.29	-66.45	-34.49	358,382.3726	1,603,342.6649	39° 28' 36.238 N	80° 47' 37.219 W
5,727.00	1.20	5.10	5,724.28	-65.61	-34.40	358,383.2126	1,603,342.7527	39° 28' 36.246 N	80° 47' 37.218 W
5,771.00	1.10	357.10	5,768.27	-64.73	-34.38	358,384.0933	1,603,342.7723	39° 28' 36.255 N	80° 47' 37.218 W
5,816.00	1.10	7.20	5,813.27	-63.87	-34.35	358,384.9532	1,603,342.8045	39° 28' 36.263 N	80° 47' 37.218 W
5,860.00	1.10	348.40	5,857.26	-63.04	-34.38	358,385.7860	1,603,342.7726	39° 28' 36.272 N	80° 47' 37.219 W

Directional Drilling Contractors

Survey Report - Geographic



Company:	Jay Bee Oil & Gas	Local Co-ordinate Reference:	Well RPT 5-2
Project:	Tyler County, WV	TVD Reference:	RKB=16' @ 1258.00usft (Original Well Elev)
Site:	RPT 5 Pad	MD Reference:	RKB=16' @ 1258.00usft (Original Well Elev)
Well:	RPT 5-2	North Reference:	Grid
Wellbore:	Orig Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM 5000.1 Single User Db

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Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,905.00	1.00	347.30	5,902.25	-62.23	-34.55	358,386.5922	1,603,342.5994	39° 28' 36.280 N	80° 47' 37.221 W
5,949.00	1.00	333.80	5,946.24	-61.51	-34.81	358,387.3112	1,603,342.3454	39° 28' 36.287 N	80° 47' 37.224 W
5,994.00	1.10	337.50	5,991.24	-60.76	-35.15	358,388.0626	1,603,342.0068	39° 28' 36.294 N	80° 47' 37.229 W
6,039.00	1.00	320.90	6,036.23	-60.06	-35.56	358,388.7664	1,603,341.5938	39° 28' 36.301 N	80° 47' 37.234 W
6,083.00	1.10	317.90	6,080.22	-59.45	-36.08	358,389.3778	1,603,341.0685	39° 28' 36.307 N	80° 47' 37.241 W
6,128.00	1.10	325.90	6,125.21	-58.77	-36.62	358,390.0559	1,603,340.5368	39° 28' 36.313 N	80° 47' 37.248 W
6,172.00	1.00	318.90	6,169.21	-58.13	-37.11	358,390.6950	1,603,340.0476	39° 28' 36.320 N	80° 47' 37.254 W
6,216.00	0.40	275.30	6,213.20	-57.83	-37.51	358,390.9985	1,603,339.6423	39° 28' 36.323 N	80° 47' 37.259 W
6,258.00	2.90	192.10	6,255.18	-58.85	-37.88	358,389.9730	1,603,339.2735	39° 28' 36.312 N	80° 47' 37.264 W
6,303.00	7.10	186.40	6,300.00	-62.73	-38.43	358,386.0945	1,603,338.7246	39° 28' 36.274 N	80° 47' 37.270 W
6,347.00	11.60	183.60	6,343.41	-69.85	-39.01	358,378.9735	1,603,338.1434	39° 28' 36.204 N	80° 47' 37.276 W
6,391.00	16.40	181.70	6,386.09	-80.48	-39.47	358,368.3435	1,603,337.6811	39° 28' 36.098 N	80° 47' 37.280 W
6,436.00	21.00	180.00	6,428.70	-94.90	-39.66	358,353.9224	1,603,337.4926	39° 28' 35.956 N	80° 47' 37.280 W
6,480.00	25.20	182.10	6,469.16	-112.15	-40.00	358,336.6695	1,603,337.1492	39° 28' 35.785 N	80° 47' 37.281 W
6,525.00	28.70	182.10	6,509.27	-132.53	-40.75	358,316.2918	1,603,336.4019	39° 28' 35.584 N	80° 47' 37.287 W
6,569.00	32.30	186.40	6,547.18	-154.78	-42.45	358,294.0415	1,603,334.7036	39° 28' 35.364 N	80° 47' 37.305 W
6,613.00	36.70	189.20	6,583.44	-179.46	-45.86	358,269.3666	1,603,331.2893	39° 28' 35.119 N	80° 47' 37.344 W
6,658.00	41.90	191.90	6,618.25	-207.46	-51.12	358,241.3686	1,603,326.0369	39° 28' 34.842 N	80° 47' 37.405 W
6,702.00	46.70	192.90	6,649.73	-237.46	-57.72	358,211.3672	1,603,319.4289	39° 28' 34.545 N	80° 47' 37.484 W
6,747.00	49.00	193.40	6,679.93	-269.94	-65.32	358,178.8824	1,603,311.8369	39° 28' 34.222 N	80° 47' 37.575 W
6,791.00	53.50	194.70	6,707.46	-303.22	-73.66	358,145.6069	1,603,303.4969	39° 28' 33.892 N	80° 47' 37.675 W
6,830.00	58.11	195.32	6,729.38	-334.36	-82.01	358,114.4593	1,603,295.1401	39° 28' 33.583 N	80° 47' 37.776 W
6,835.00	58.70	195.40	6,731.99	-338.47	-83.14	358,110.3526	1,603,294.0120	39° 28' 33.543 N	80° 47' 37.790 W
6,879.00	63.30	196.80	6,753.32	-375.43	-93.82	358,073.3929	1,603,283.3332	39° 28' 33.176 N	80° 47' 37.919 W
6,924.00	66.70	197.50	6,772.34	-414.39	-105.85	358,034.4295	1,603,271.3057	39° 28' 32.789 N	80° 47' 38.065 W
6,968.00	69.50	197.70	6,788.75	-453.30	-118.19	357,995.5198	1,603,258.9621	39° 28' 32.403 N	80° 47' 38.216 W
7,013.00	70.70	198.00	6,804.06	-493.58	-131.16	357,955.2446	1,603,245.9919	39° 28' 32.003 N	80° 47' 38.374 W
7,057.00	71.30	197.30	6,818.39	-533.22	-143.77	357,915.6005	1,603,233.3785	39° 28' 31.609 N	80° 47' 38.527 W
7,102.00	71.80	195.10	6,832.63	-574.21	-155.68	357,874.6113	1,603,221.4712	39° 28' 31.203 N	80° 47' 38.672 W
7,116.00	71.63	194.77	6,837.02	-587.06	-159.11	357,861.7672	1,603,218.0453	39° 28' 31.075 N	80° 47' 38.713 W
7,146.00	71.30	194.10	6,846.56	-614.60	-166.20	357,834.2216	1,603,210.9546	39° 28' 30.802 N	80° 47' 38.798 W
7,191.00	72.00	194.00	6,860.73	-656.04	-176.57	357,792.7878	1,603,200.5857	39° 28' 30.391 N	80° 47' 38.923 W
7,235.00	73.70	191.10	6,873.70	-697.07	-185.70	357,751.7543	1,603,191.4562	39° 28' 29.984 N	80° 47' 39.032 W
7,280.00	76.20	187.30	6,885.39	-739.96	-192.63	357,708.8678	1,603,184.5187	39° 28' 29.559 N	80° 47' 39.112 W
7,325.00	79.30	183.80	6,894.94	-783.71	-196.88	357,665.1106	1,603,180.2747	39° 28' 29.126 N	80° 47' 39.158 W
7,369.00	83.20	180.30	6,901.64	-827.16	-198.43	357,621.6657	1,603,178.7266	39° 28' 28.697 N	80° 47' 39.170 W
7,414.00	85.40	178.10	6,906.11	-871.93	-197.80	357,576.8981	1,603,179.3534	39° 28' 28.254 N	80° 47' 39.154 W
7,459.00	86.70	176.20	6,909.21	-916.76	-195.57	357,532.0636	1,603,181.5860	39° 28' 27.812 N	80° 47' 39.117 W
7,503.00	87.50	174.60	6,911.43	-960.56	-192.04	357,488.2633	1,603,185.1103	39° 28' 27.379 N	80° 47' 39.064 W
7,548.00	88.10	173.40	6,913.16	-1,005.28	-187.34	357,443.5439	1,603,189.8106	39° 28' 26.938 N	80° 47' 38.996 W
7,592.00	88.80	173.70	6,914.35	-1,048.99	-182.40	357,399.8387	1,603,194.7515	39° 28' 26.507 N	80° 47' 38.925 W
7,637.00	88.70	171.40	6,915.33	-1,093.59	-176.57	357,355.2322	1,603,200.5844	39° 28' 26.067 N	80° 47' 38.842 W
7,681.00	89.10	170.70	6,916.18	-1,137.05	-169.72	357,311.7763	1,603,207.4283	39° 28' 25.638 N	80° 47' 38.747 W
7,725.00	89.30	171.00	6,916.79	-1,180.48	-162.73	357,268.3404	1,603,214.4245	39° 28' 25.210 N	80° 47' 38.650 W
7,770.00	89.40	170.70	6,917.30	-1,224.91	-155.57	357,223.9160	1,603,221.5799	39° 28' 24.772 N	80° 47' 38.551 W
7,814.00	89.60	169.90	6,917.68	-1,268.28	-148.16	357,180.5470	1,603,228.9931	39° 28' 24.344 N	80° 47' 38.448 W
7,859.00	89.30	168.80	6,918.12	-1,312.50	-139.84	357,136.3250	1,603,237.3090	39° 28' 23.908 N	80° 47' 38.334 W
7,903.00	89.50	167.20	6,918.58	-1,355.53	-130.70	357,093.2902	1,603,246.4563	39° 28' 23.484 N	80° 47' 38.209 W
7,945.00	89.20	167.90	6,919.05	-1,396.54	-121.64	357,052.2808	1,603,255.5103	39° 28' 23.080 N	80° 47' 38.086 W
7,989.00	89.20	167.10	6,919.67	-1,439.50	-112.12	357,009.3283	1,603,265.0327	39° 28' 22.657 N	80° 47' 37.957 W
8,034.00	89.60	170.40	6,920.14	-1,483.62	-103.34	356,965.2016	1,603,273.8100	39° 28' 22.222 N	80° 47' 37.837 W
8,078.00	89.50	170.30	6,920.49	-1,527.00	-95.97	356,921.8255	1,603,281.1854	39° 28' 21.795 N	80° 47' 37.735 W
8,123.00	90.10	171.20	6,920.64	-1,571.41	-88.73	356,877.4116	1,603,288.4187	39° 28' 21.357 N	80° 47' 37.635 W
8,167.00	90.00	170.40	6,920.60	-1,614.85	-81.70	356,833.9780	1,603,295.4534	39° 28' 20.929 N	80° 47' 37.537 W
8,209.00	89.50	169.30	6,920.79	-1,656.19	-74.30	356,792.6365	1,603,302.8547	39° 28' 20.521 N	80° 47' 37.435 W

Office of Oil and Gas
WV Dept. of Environmental Protection

Directional Drilling Contractors

Survey Report - Geographic



Company:	Jay Bee Oil & Gas	Local Co-ordinate Reference:	Well RPT 5-2
Project:	Tyler County, WV	TVD Reference:	RKB=16' @ 1258.00usft (Original Well Elev)
Site:	RPT 5 Pad	MD Reference:	RKB=16' @ 1258.00usft (Original Well Elev)
Well:	RPT 5-2	North Reference:	Grid
Wellbore:	Orig Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM 5000.1 Single User Db

received
APR 27 2015

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,253.00	89.80	170.70	6,921.06	-1,699.52	-66.66	356,749.3069	1,603,310.4948	39° 28' 20.094 N	80° 47' 37.330 W
8,298.00	90.30	172.80	6,921.02	-1,744.05	-60.20	356,704.7752	1,603,316.9516	39° 28' 19.655 N	80° 47' 37.239 W
8,342.00	90.90	173.10	6,920.56	-1,787.71	-54.80	356,661.1105	1,603,322.3517	39° 28' 19.224 N	80° 47' 37.162 W
8,387.00	89.20	174.00	6,920.52	-1,832.43	-49.75	356,616.3975	1,603,327.4065	39° 28' 18.783 N	80° 47' 37.090 W
8,431.00	88.90	174.50	6,921.25	-1,876.20	-45.34	356,572.6251	1,603,331.8142	39° 28' 18.351 N	80° 47' 37.025 W
8,476.00	89.30	173.80	6,921.95	-1,920.96	-40.75	356,527.8653	1,603,336.4002	39° 28' 17.909 N	80° 47' 36.959 W
8,520.00	89.40	172.80	6,922.45	-1,964.65	-35.62	356,484.1692	1,603,341.5333	39° 28' 17.478 N	80° 47' 36.885 W
8,565.00	89.20	172.80	6,923.00	-2,009.30	-29.98	356,439.5274	1,603,347.1729	39° 28' 17.038 N	80° 47' 36.805 W
8,609.00	88.60	171.60	6,923.85	-2,052.88	-24.01	356,395.9435	1,603,353.1431	39° 28' 16.608 N	80° 47' 36.721 W
8,654.00	87.80	170.60	6,925.26	-2,097.32	-17.05	356,351.5081	1,603,360.1014	39° 28' 16.170 N	80° 47' 36.624 W
8,698.00	88.00	170.20	6,926.87	-2,140.67	-9.72	356,308.1536	1,603,367.4343	39° 28' 15.742 N	80° 47' 36.523 W
8,743.00	88.50	170.60	6,928.25	-2,185.02	-2.22	356,263.8047	1,603,374.9353	39° 28' 15.305 N	80° 47' 36.419 W
8,787.00	89.10	171.30	6,929.17	-2,228.46	4.70	356,220.3624	1,603,381.8547	39° 28' 14.877 N	80° 47' 36.323 W
8,832.00	88.30	171.60	6,930.19	-2,272.95	11.39	356,175.8744	1,603,388.5432	39° 28' 14.438 N	80° 47' 36.229 W
8,876.00	88.60	171.00	6,931.38	-2,316.43	18.04	356,132.3968	1,603,395.1963	39° 28' 14.009 N	80° 47' 36.136 W
8,921.00	89.50	169.10	6,932.13	-2,360.74	25.82	356,088.0822	1,603,402.9703	39° 28' 13.572 N	80° 47' 36.029 W
8,965.00	89.60	168.30	6,932.47	-2,403.89	34.44	356,044.9369	1,603,411.5916	39° 28' 13.147 N	80° 47' 35.911 W
9,010.00	89.40	167.70	6,932.86	-2,447.90	43.79	356,000.9221	1,603,420.9473	39° 28' 12.714 N	80° 47' 35.784 W
9,054.00	89.80	167.30	6,933.17	-2,490.86	53.32	355,957.9663	1,603,430.4703	39° 28' 12.290 N	80° 47' 35.654 W
9,098.00	90.60	167.40	6,933.02	-2,533.79	62.95	355,915.0350	1,603,440.1060	39° 28' 11.868 N	80° 47' 35.524 W
9,143.00	91.80	169.00	6,932.07	-2,577.83	72.15	355,870.9979	1,603,449.3059	39° 28' 11.434 N	80° 47' 35.398 W
9,187.00	92.20	169.10	6,930.54	-2,621.00	80.51	355,827.8254	1,603,457.6587	39° 28' 11.008 N	80° 47' 35.284 W
9,231.00	91.50	169.90	6,929.12	-2,664.24	88.52	355,784.5853	1,603,465.6727	39° 28' 10.582 N	80° 47' 35.174 W
9,276.00	91.80	169.60	6,927.82	-2,708.50	96.52	355,740.3220	1,603,473.6769	39° 28' 10.146 N	80° 47' 35.064 W
9,320.00	91.90	169.40	6,926.40	-2,751.74	104.54	355,697.0813	1,603,481.6910	39° 28' 9.720 N	80° 47' 34.953 W
9,365.00	90.10	170.70	6,925.62	-2,796.06	112.31	355,652.7677	1,603,489.4647	39° 28' 9.283 N	80° 47' 34.846 W
9,409.00	90.30	170.80	6,925.46	-2,839.48	119.38	355,609.3401	1,603,496.5373	39° 28' 8.854 N	80° 47' 34.748 W
9,454.00	88.00	171.10	6,926.13	-2,883.92	126.46	355,564.9082	1,603,503.6145	39° 28' 8.416 N	80° 47' 34.650 W
9,498.00	87.80	170.80	6,927.74	-2,927.34	133.38	355,521.4852	1,603,510.5308	39° 28' 7.988 N	80° 47' 34.554 W
9,543.00	88.30	170.80	6,929.27	-2,971.73	140.57	355,477.0900	1,603,517.7213	39° 28' 7.551 N	80° 47' 34.454 W
9,588.00	88.60	171.20	6,930.49	-3,016.16	147.60	355,432.6604	1,603,524.7582	39° 28' 7.112 N	80° 47' 34.356 W
9,632.00	87.80	172.00	6,931.87	-3,059.67	154.03	355,389.1546	1,603,531.1827	39° 28' 6.683 N	80° 47' 34.266 W
9,677.00	87.90	172.00	6,933.56	-3,104.20	160.29	355,344.6239	1,603,537.4411	39° 28' 6.244 N	80° 47' 34.178 W
9,722.00	88.00	172.00	6,935.17	-3,148.73	166.55	355,300.0904	1,603,543.6998	39° 28' 5.805 N	80° 47' 34.090 W
9,766.00	88.60	171.30	6,936.48	-3,192.25	172.93	355,256.5764	1,603,550.0867	39° 28' 5.376 N	80° 47' 34.001 W
9,808.00	89.00	171.60	6,937.36	-3,233.77	179.18	355,215.0524	1,603,556.3295	39° 28' 4.966 N	80° 47' 33.913 W
9,853.00	88.90	172.30	6,938.18	-3,278.32	185.48	355,170.5036	1,603,562.6301	39° 28' 4.527 N	80° 47' 33.825 W
9,897.00	89.90	173.40	6,938.64	-3,321.97	190.95	355,126.8494	1,603,568.1062	39° 28' 4.096 N	80° 47' 33.747 W
9,942.00	91.00	173.60	6,938.29	-3,366.68	196.05	355,082.1408	1,603,573.2001	39° 28' 3.655 N	80° 47' 33.674 W
9,986.00	89.10	172.50	6,938.25	-3,410.36	201.37	355,038.4667	1,603,578.5239	39° 28' 3.224 N	80° 47' 33.598 W
10,030.00	89.50	172.40	6,938.79	-3,453.97	207.15	354,994.8515	1,603,584.3047	39° 28' 2.794 N	80° 47' 33.516 W
10,075.00	89.20	171.90	6,939.30	-3,498.55	213.30	354,950.2763	1,603,590.4503	39° 28' 2.354 N	80° 47' 33.430 W
10,119.00	89.30	171.70	6,939.87	-3,542.09	219.57	354,906.7299	1,603,596.7255	39° 28' 1.925 N	80° 47' 33.342 W
10,164.00	89.30	171.10	6,940.42	-3,586.58	226.30	354,862.2394	1,603,603.4540	39° 28' 1.486 N	80° 47' 33.248 W
10,208.00	89.30	170.20	6,940.96	-3,630.00	233.45	354,818.8276	1,603,610.6019	39° 28' 1.058 N	80° 47' 33.149 W
10,252.00	89.90	169.80	6,941.27	-3,673.33	241.09	354,775.4974	1,603,618.2422	39° 28' 0.631 N	80° 47' 33.043 W
10,297.00	90.30	169.10	6,941.19	-3,717.57	249.33	354,731.2586	1,603,626.4813	39° 28' 0.195 N	80° 47' 32.930 W
10,341.00	90.80	169.10	6,940.77	-3,760.77	257.65	354,688.0545	1,603,634.8011	39° 27' 59.769 N	80° 47' 32.816 W
10,386.00	91.40	169.20	6,939.90	-3,804.96	266.12	354,643.8673	1,603,643.2702	39° 27' 59.334 N	80° 47' 32.700 W
10,430.00	90.70	169.90	6,939.10	-3,848.22	274.10	354,600.6049	1,603,651.2494	39° 27' 58.907 N	80° 47' 32.590 W
10,475.00	90.30	169.80	6,938.71	-3,892.51	282.03	354,556.3110	1,603,659.1792	39° 27' 58.471 N	80° 47' 32.481 W
10,519.00	90.40	169.80	6,938.44	-3,935.82	289.82	354,513.0072	1,603,666.9708	39° 27' 58.044 N	80° 47' 32.374 W
10,564.00	89.50	169.40	6,938.48	-3,980.08	297.94	354,468.7470	1,603,675.0940	39° 27' 57.608 N	80° 47' 32.262 W
10,608.00	89.70	168.90	6,938.78	-4,023.29	306.22	354,425.5348	1,603,683.3763	39° 27' 57.182 N	80° 47' 32.149 W
10,653.00	90.00	169.00	6,938.90	-4,067.45	314.85	354,381.3693	1,603,692.0012	39° 27' 56.747 N	80° 47' 32.031 W

Office of Oil and Gas
WV Dept. of Environmental Protection

Directional Drilling Contractors

Survey Report - Geographic



Received
 APR 27 2015
 Office of Oil and Gas
 WV Dept. of Environmental Protection

Company: Jay Bee Oil & Gas
Project: Tyler County, WV
Site: RPT 5 Pad
Well: RPT 5-2
Wellbore: Orig Hole
Design: As Drilled

Local Co-ordinate Reference: Well RPT 5-2
TVD Reference: RKB=16' @ 1258.00usft (Original Well Elev)
MD Reference: RKB=16' @ 1258.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,697.00	90.00	168.40	6,938.90	-4,110.60	323.47	354,338.2224	1,603,700.6228	39° 27' 56.321 N	80° 47' 31.913 W
10,742.00	89.30	166.40	6,939.18	-4,154.51	333.29	354,294.3095	1,603,710.4385	39° 27' 55.889 N	80° 47' 31.779 W
10,786.00	89.30	165.60	6,939.71	-4,197.20	343.93	354,251.6201	1,603,721.0822	39° 27' 55.468 N	80° 47' 31.636 W
10,830.00	89.80	164.50	6,940.06	-4,239.71	355.28	354,209.1116	1,603,732.4326	39° 27' 55.050 N	80° 47' 31.483 W
10,875.00	89.80	163.70	6,940.22	-4,282.99	367.61	354,165.8338	1,603,744.7606	39° 27' 54.624 N	80° 47' 31.318 W
10,919.00	89.40	163.10	6,940.52	-4,325.16	380.18	354,123.6689	1,603,757.3304	39° 27' 54.209 N	80° 47' 31.150 W
10,964.00	90.00	165.20	6,940.76	-4,368.44	392.47	354,080.3830	1,603,769.6199	39° 27' 53.783 N	80° 47' 30.986 W
11,008.00	90.70	165.70	6,940.49	-4,411.03	403.52	354,037.7954	1,603,780.6735	39° 27' 53.364 N	80° 47' 30.837 W
11,053.00	91.50	168.60	6,939.63	-4,454.89	413.53	353,993.9355	1,603,790.6786	39° 27' 52.932 N	80° 47' 30.701 W
11,098.00	91.70	168.30	6,938.37	-4,498.96	422.53	353,949.8640	1,603,799.6851	39° 27' 52.497 N	80° 47' 30.578 W
11,142.00	91.80	167.40	6,937.03	-4,541.95	431.79	353,906.8701	1,603,808.9415	39° 27' 52.074 N	80° 47' 30.453 W
11,186.00	89.80	169.60	6,936.41	-4,585.06	440.56	353,863.7624	1,603,817.7116	39° 27' 51.649 N	80° 47' 30.333 W
11,231.00	90.00	169.30	6,936.49	-4,629.30	448.80	353,819.5233	1,603,825.9508	39° 27' 51.213 N	80° 47' 30.220 W
11,275.00	88.00	169.80	6,937.26	-4,672.56	456.78	353,776.2620	1,603,833.9298	39° 27' 50.787 N	80° 47' 30.110 W
11,320.00	88.30	169.80	6,938.71	-4,716.83	464.74	353,731.9964	1,603,841.8945	39° 27' 50.350 N	80° 47' 30.000 W
11,365.00	88.50	170.10	6,939.97	-4,761.12	472.59	353,687.7042	1,603,849.7442	39° 27' 49.914 N	80° 47' 29.892 W
11,409.00	89.50	170.80	6,940.73	-4,804.50	479.89	353,644.3214	1,603,857.0429	39° 27' 49.486 N	80° 47' 29.791 W
11,454.00	90.70	172.70	6,940.66	-4,849.03	486.35	353,599.7900	1,603,863.4996	39° 27' 49.047 N	80° 47' 29.701 W
11,498.00	89.20	174.00	6,940.69	-4,892.74	491.44	353,556.0882	1,603,868.5948	39° 27' 48.616 N	80° 47' 29.628 W
11,543.00	89.30	176.20	6,941.28	-4,937.56	495.28	353,511.2593	1,603,872.4380	39° 27' 48.173 N	80° 47' 29.570 W
11,587.00	87.20	173.40	6,942.63	-4,981.36	499.27	353,467.4676	1,603,876.4227	39° 27' 47.741 N	80° 47' 29.512 W
11,632.00	87.30	172.90	6,944.79	-5,025.98	504.63	353,422.8404	1,603,881.7837	39° 27' 47.301 N	80° 47' 29.435 W
11,676.00	87.80	170.80	6,946.67	-5,069.50	510.86	353,379.3272	1,603,888.0154	39° 27' 46.871 N	80° 47' 29.348 W
11,720.00	88.50	170.90	6,948.09	-5,112.91	517.86	353,335.9100	1,603,895.0086	39° 27' 46.443 N	80° 47' 29.250 W
11,765.00	88.90	170.60	6,949.11	-5,157.32	525.09	353,291.5067	1,603,902.2401	39° 27' 46.006 N	80° 47' 29.150 W
11,810.00	88.70	169.90	6,950.05	-5,201.66	532.71	353,247.1667	1,603,909.8591	39° 27' 45.568 N	80° 47' 29.045 W
11,855.00	89.30	170.70	6,950.84	-5,246.01	540.29	353,202.8174	1,603,917.4399	39° 27' 45.131 N	80° 47' 28.940 W
11,900.00	89.90	171.00	6,951.15	-5,290.43	547.44	353,158.3913	1,603,924.5955	39° 27' 44.693 N	80° 47' 28.841 W
11,944.00	88.90	169.60	6,951.61	-5,333.80	554.86	353,115.0244	1,603,932.0083	39° 27' 44.266 N	80° 47' 28.738 W
11,985.00	89.50	169.60	6,952.18	-5,374.12	562.26	353,074.7021	1,603,939.4089	39° 27' 43.868 N	80° 47' 28.637 W
12,030.00	90.00	170.50	6,952.38	-5,418.44	570.03	353,030.3799	1,603,947.1842	39° 27' 43.431 N	80° 47' 28.529 W
12,074.00	90.30	170.20	6,952.27	-5,461.82	577.41	352,987.0028	1,603,954.5598	39° 27' 43.004 N	80° 47' 28.427 W
12,119.00	89.30	171.10	6,952.42	-5,506.22	584.72	352,942.6019	1,603,961.8705	39° 27' 42.566 N	80° 47' 28.326 W
12,163.00	89.40	171.30	6,952.92	-5,549.70	591.45	352,899.1227	1,603,968.6015	39° 27' 42.137 N	80° 47' 28.232 W
12,208.00	88.20	170.40	6,953.86	-5,594.12	598.60	352,854.7063	1,603,975.7555	39° 27' 41.699 N	80° 47' 28.133 W
12,252.00	88.30	169.70	6,955.21	-5,637.44	606.20	352,811.3886	1,603,983.3546	39° 27' 41.272 N	80° 47' 28.028 W
12,297.00	88.50	169.10	6,956.46	-5,681.65	614.48	352,767.1740	1,603,991.6292	39° 27' 40.836 N	80° 47' 27.914 W
12,341.00	89.30	169.50	6,957.31	-5,724.88	622.64	352,723.9474	1,603,999.7969	39° 27' 40.410 N	80° 47' 27.802 W
12,386.00	89.90	169.30	6,957.62	-5,769.11	630.92	352,679.7166	1,604,008.0745	39° 27' 39.974 N	80° 47' 27.689 W
12,430.00	90.00	168.50	6,957.66	-5,812.28	639.39	352,636.5401	1,604,016.5454	39° 27' 39.549 N	80° 47' 27.573 W
12,475.00	90.10	167.40	6,957.62	-5,856.29	648.79	352,592.5324	1,604,025.9397	39° 27' 39.115 N	80° 47' 27.445 W
12,519.00	89.70	167.70	6,957.70	-5,899.26	658.27	352,549.5672	1,604,035.4255	39° 27' 38.692 N	80° 47' 27.316 W
12,564.00	90.20	168.00	6,957.74	-5,943.25	667.74	352,505.5754	1,604,044.8966	39° 27' 38.259 N	80° 47' 27.187 W
12,608.00	89.90	167.60	6,957.70	-5,986.25	677.04	352,462.5693	1,604,054.1949	39° 27' 37.835 N	80° 47' 27.061 W
12,653.00	89.30	166.80	6,958.01	-6,030.13	687.01	352,418.6892	1,604,064.1642	39° 27' 37.403 N	80° 47' 26.926 W
12,695.00	89.00	168.20	6,958.64	-6,071.13	696.10	352,377.6904	1,604,073.2535	39° 27' 36.999 N	80° 47' 26.802 W
12,739.00	88.90	168.30	6,959.44	-6,114.20	705.06	352,334.6196	1,604,082.2122	39° 27' 36.574 N	80° 47' 26.680 W
12,784.00	89.50	169.10	6,960.07	-6,158.33	713.88	352,290.4968	1,604,091.0288	39° 27' 36.140 N	80° 47' 26.560 W
12,828.00	89.30	168.40	6,960.53	-6,201.48	722.46	352,247.3449	1,604,099.6122	39° 27' 35.714 N	80° 47' 26.442 W
12,872.00	89.40	168.80	6,961.03	-6,244.61	731.16	352,204.2158	1,604,108.3085	39° 27' 35.289 N	80° 47' 26.324 W
12,917.00	89.90	171.20	6,961.31	-6,288.92	738.97	352,159.9037	1,604,116.1220	39° 27' 34.853 N	80° 47' 26.216 W
12,961.00	90.10	170.60	6,961.31	-6,332.37	745.93	352,116.4577	1,604,123.0809	39° 27' 34.424 N	80° 47' 26.119 W
13,005.00	90.70	170.10	6,961.00	-6,375.74	753.30	352,073.0817	1,604,130.4563	39° 27' 33.997 N	80° 47' 26.017 W
13,050.00	91.00	170.90	6,960.33	-6,420.12	760.73	352,028.7041	1,604,137.8826	39° 27' 33.559 N	80° 47' 25.914 W
13,094.00	90.70	172.90	6,959.68	-6,463.67	766.93	351,985.1501	1,604,144.0812	39° 27' 33.129 N	80° 47' 25.827 W

Directional Drilling Contractors
Survey Report - Geographic



Company:	Jay Bee Oil & Gas	Local Co-ordinate Reference:	Well RPT 5-2
Project:	Tyler County, WV	TVD Reference:	RKB=16' @ 1258.00usft (Original Well Elev)
Site:	RPT 5 Pad	MD Reference:	RKB=16' @ 1258.00usft (Original Well Elev)
Well:	RPT 5-2	North Reference:	Grid
Wellbore:	Orig Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM 5000.1 Single User Db

Received
APR 27 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,139.00	90.50	173.30	6,959.21	-6,508.35	772.33	351,940.4786	1,604,149.4870	39° 27' 32.689 N	80° 47' 25.750 W
13,183.00	90.90	172.70	6,958.67	-6,552.01	777.70	351,896.8101	1,604,154.8488	39° 27' 32.258 N	80° 47' 25.674 W
13,228.00	91.50	172.80	6,957.73	-6,596.64	783.37	351,852.1799	1,604,160.5265	39° 27' 31.818 N	80° 47' 25.593 W
13,272.00	91.60	172.40	6,956.54	-6,640.26	789.04	351,808.5624	1,604,166.1915	39° 27' 31.387 N	80° 47' 25.513 W
13,322.00	91.90	172.70	6,955.01	-6,689.82	795.52	351,759.0077	1,604,172.6715	39° 27' 30.899 N	80° 47' 25.422 W
13,374.00	91.90	172.70	6,953.29	-6,741.37	802.12	351,707.4576	1,604,179.2752	39° 27' 30.390 N	80° 47' 25.328 W
Projection to bit 13375.00 MD, 91.90 INC, 172.70 AZI, 6953.25 TVD									
13,375.00	91.90	172.70	6,953.25	-6,742.36	802.25	351,706.4662	1,604,179.4022	39° 27' 30.380 N	80° 47' 25.326 W

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
13,374.00	6,953.29	-6,741.37	802.12	Projection to bit 13375.00 MD, 91.90 INC, 172.70 AZI, 6953.25 TVD

Checked By: _____ Approved By: _____ Date: _____