

End of Well Report

FOR

Jay Bee Oil & Gas

RPT 5-1

Tyler County, WV

DR130156

DDDC
Directional Drilling Contractors, LLC.
An Archer Company



Received

APR 27 2015

Office of Oil and Gas
Environmental Protection

10/07/2016

Section One
Directional Comparison Plot
Actual vs. Proposed

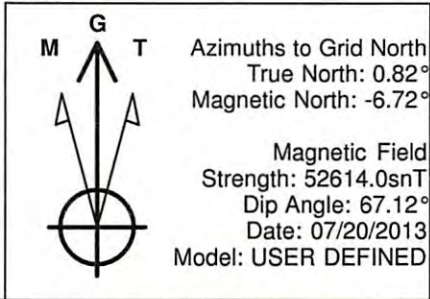
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Department of Environmental Protection

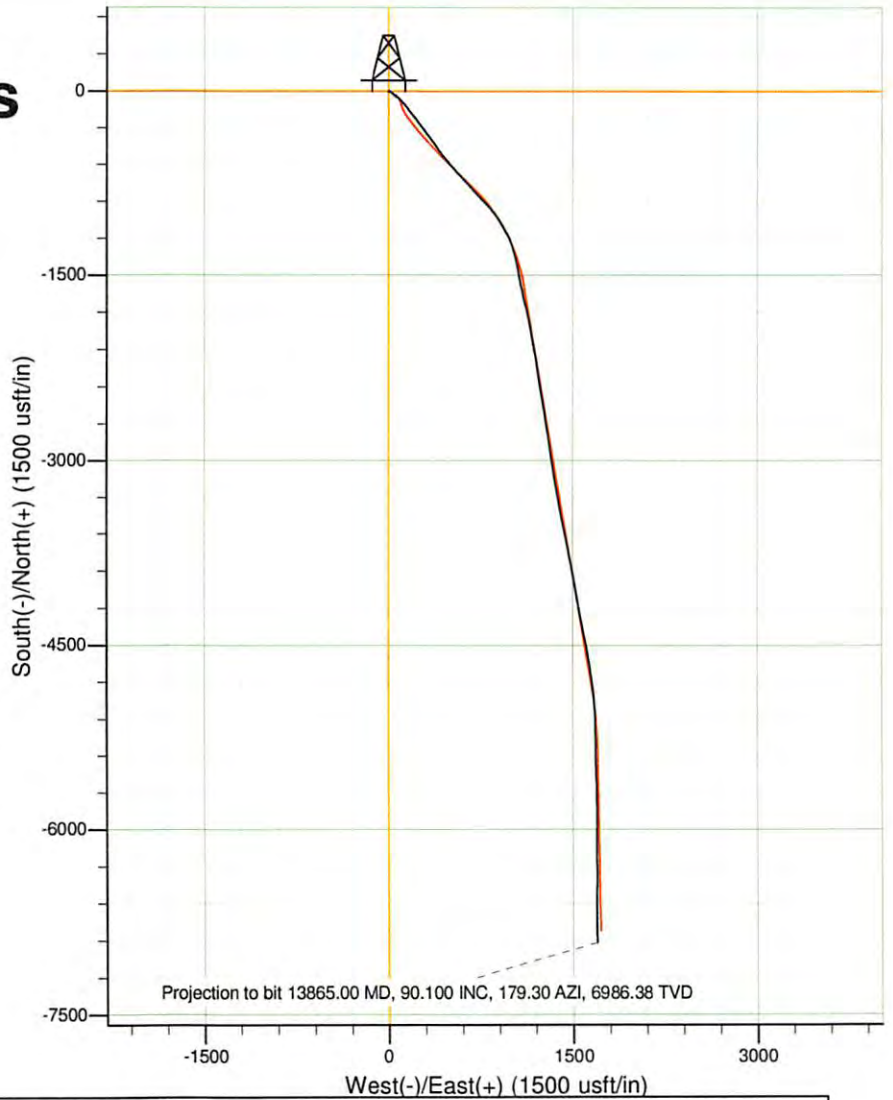
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Jay Bee Oil & Gas



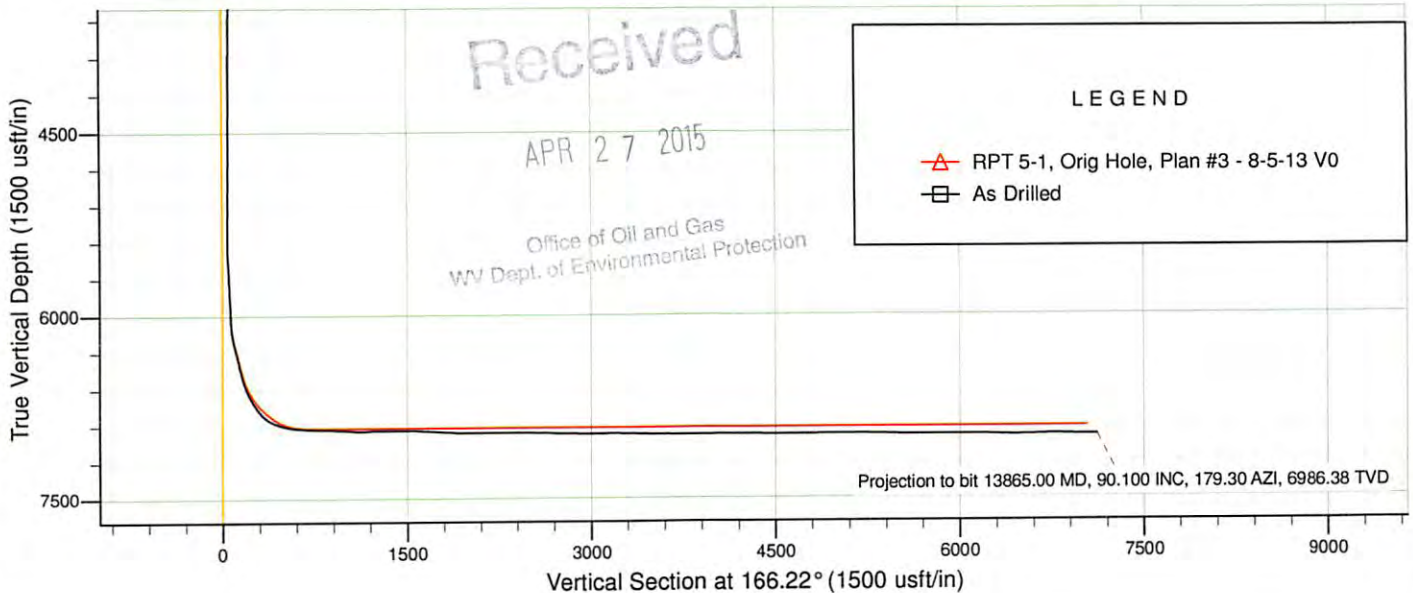
PROJECT DETAILS: Tyler County, WV

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 5-1

+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude
0.00	0.00	358458.9402	1242.00 1603365.6697	39° 28' 36.998 N	80° 47' 36.940 W



10/07/2016

Jay Bee Oil & Gas

Tyler County, WV

RPT 5 Pad

RPT 5-1

Orig Hole

Design: As Drilled

Survey Report - Geographic

23 August, 2013

Received

APR 27 2015

Office of Oil and Gas
WV Dept. of Environmental Protection



Directional Drilling Contractors, LLC.

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10/07/2016

Directional Drilling Contractors

Survey Report - Geographic



Company:	Jay Bee Oil & Gas	Local Co-ordinate Reference:	Well RPT 5-1
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 5-1	North Reference:	Grid
Wellbore:	Orig Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM 5000.1 Single User Db

Project	Tyler County, 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	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 5-1					
Well Position	+N/-S	0.00 usft	Northing:	358,458.9401 usft	Latitude:	39° 28' 36.998 N
	+E/-W	0.00 usft	Easting:	1,603,365.6697 usft	Longitude:	80° 47' 36.940 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	166.22

Survey Program	Date	08/23/13			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	<div style="font-size: 2em; opacity: 0.5;">Received</div> <div style="font-size: 1.2em; color: blue;">APR 27 2015</div>
100.00	5,300.00	GYRO (Orig Hole)	NS-GYRO-MS	North sensing gyrocompassing m/s	
5,330.00	13,865.00	MWD (Orig Hole)	MWD	MWD - Standard	

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
0.00	0.000	0.00	0.00	0.00	0.00	358,458.9401	1,603,365.6697	39° 28' 36.998 N	80° 47' 36.940 W
100.00	0.950	42.24	100.00	0.61	0.56	358,459.5539	1,603,366.2270	39° 28' 37.004 N	80° 47' 36.933 W
200.00	1.570	86.94	199.97	1.30	2.48	358,460.2408	1,603,368.1523	39° 28' 37.011 N	80° 47' 36.909 W
300.00	0.950	200.95	299.96	0.60	3.55	358,459.5396	1,603,369.2239	39° 28' 37.004 N	80° 47' 36.895 W
400.00	0.690	240.30	399.95	-0.47	2.73	358,458.4671	1,603,368.4045	39° 28' 36.994 N	80° 47' 36.905 W
500.00	1.570	20.73	499.94	0.51	2.70	358,459.4501	1,603,368.3664	39° 28' 37.003 N	80° 47' 36.906 W
600.00	1.510	44.22	599.90	2.74	4.10	358,461.6756	1,603,369.7702	39° 28' 37.025 N	80° 47' 36.888 W
700.00	1.470	51.34	699.87	4.48	6.02	358,463.4212	1,603,371.6907	39° 28' 37.043 N	80° 47' 36.864 W
800.00	0.880	83.56	799.85	5.37	7.79	358,464.3086	1,603,373.4554	39° 28' 37.052 N	80° 47' 36.842 W
900.00	0.880	110.12	899.84	5.19	9.27	358,464.1306	1,603,374.9395	39° 28' 37.050 N	80° 47' 36.823 W
1,000.00	1.370	155.41	999.82	3.84	10.49	358,462.7794	1,603,376.1580	39° 28' 37.037 N	80° 47' 36.807 W

Directional Drilling Contractors

Survey Report - Geographic



Company: Jay Bee Oil & Gas
Project: Tyler County, WV
Site: RPT 5 Pad
Well: RPT 5-1
Wellbore: Orig Hole
Design: As Drilled

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well RPT 5-1
 RKB=16' @ 1258.00usft (Original Well Elev)
 RKB=16' @ 1258.00usft (Original Well Elev)
 Grid
 Minimum Curvature
 EDM 5000.1 Single User Db

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 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	2.100	141.83	1,099.77	1.31	12.12	358,460.2519	1,603,377.7878	39° 28' 37.012 N	80° 47' 36.786 W	
1,200.00	2.450	132.79	1,199.70	-1.58	14.82	358,457.3595	1,603,380.4886	39° 28' 36.984 N	80° 47' 36.751 W	
1,300.00	2.610	126.43	1,299.60	-4.38	18.22	358,454.5554	1,603,383.8891	39° 28' 36.957 N	80° 47' 36.707 W	
1,400.00	2.600	128.39	1,399.49	-7.15	21.83	358,451.7948	1,603,387.4988	39° 28' 36.930 N	80° 47' 36.660 W	
1,500.00	2.360	123.78	1,499.40	-9.70	25.32	358,449.2415	1,603,390.9879	39° 28' 36.906 N	80° 47' 36.615 W	
1,600.00	2.640	136.96	1,599.31	-12.53	28.60	358,446.4135	1,603,394.2711	39° 28' 36.878 N	80° 47' 36.573 W	
1,700.00	2.640	131.61	1,699.20	-15.74	31.90	358,443.2009	1,603,397.5648	39° 28' 36.847 N	80° 47' 36.530 W	
1,800.00	2.470	129.83	1,799.10	-18.65	35.27	358,440.2914	1,603,400.9415	39° 28' 36.819 N	80° 47' 36.487 W	
1,900.00	2.740	132.64	1,899.00	-21.65	38.68	358,437.2921	1,603,404.3546	39° 28' 36.789 N	80° 47' 36.443 W	
2,000.00	2.450	129.35	1,998.90	-24.62	42.10	358,434.3178	1,603,407.7657	39° 28' 36.760 N	80° 47' 36.399 W	
2,100.00	2.580	135.00	2,098.80	-27.57	45.34	358,431.3711	1,603,411.0100	39° 28' 36.732 N	80° 47' 36.357 W	
2,200.00	2.670	136.02	2,198.69	-30.84	48.55	358,428.1035	1,603,414.2189	39° 28' 36.700 N	80° 47' 36.315 W	
2,300.00	2.630	123.10	2,298.59	-33.77	52.09	358,425.1745	1,603,417.7583	39° 28' 36.672 N	80° 47' 36.270 W	
2,400.00	2.510	121.18	2,398.49	-36.15	55.88	358,422.7880	1,603,421.5537	39° 28' 36.648 N	80° 47' 36.221 W	
2,500.00	2.460	136.69	2,498.39	-38.85	59.23	358,420.0927	1,603,424.8992	39° 28' 36.622 N	80° 47' 36.178 W	
2,600.00	2.180	142.44	2,598.31	-41.92	61.86	358,417.0233	1,603,427.5307	39° 28' 36.592 N	80° 47' 36.143 W	
2,700.00	1.000	155.70	2,698.27	-44.22	63.38	358,414.7202	1,603,429.0493	39° 28' 36.570 N	80° 47' 36.124 W	
2,800.00	0.210	57.98	2,798.27	-44.92	63.89	358,414.0221	1,603,429.5638	39° 28' 36.563 N	80° 47' 36.117 W	
2,900.00	0.590	128.45	2,898.27	-45.14	64.45	358,413.7991	1,603,430.1224	39° 28' 36.561 N	80° 47' 36.110 W	
3,000.00	0.430	106.08	2,998.26	-45.57	65.22	358,413.3750	1,603,430.8861	39° 28' 36.557 N	80° 47' 36.100 W	
3,100.00	0.420	7.16	3,098.26	-45.31	65.62	358,413.6347	1,603,431.2924	39° 28' 36.559 N	80° 47' 36.095 W	
3,200.00	0.820	290.17	3,198.26	-44.70	65.00	358,414.2451	1,603,430.6664	39° 28' 36.565 N	80° 47' 36.103 W	
3,300.00	0.740	275.45	3,298.25	-44.39	63.68	358,414.5532	1,603,429.3519	39° 28' 36.568 N	80° 47' 36.120 W	
3,400.00	0.580	343.26	3,398.24	-43.84	62.89	358,415.0992	1,603,428.5632	39° 28' 36.573 N	80° 47' 36.130 W	
3,500.00	0.820	302.30	3,498.23	-42.97	62.14	358,415.9662	1,603,427.8126	39° 28' 36.582 N	80° 47' 36.140 W	
3,600.00	0.230	42.16	3,598.23	-42.44	61.67	358,416.4974	1,603,427.3425	39° 28' 36.587 N	80° 47' 36.146 W	
3,700.00	0.910	292.55	3,698.23	-41.99	61.07	358,416.9507	1,603,426.7438	39° 28' 36.592 N	80° 47' 36.153 W	
3,800.00	0.390	246.51	3,798.22	-41.82	60.03	358,417.1196	1,603,425.6983	39° 28' 36.593 N	80° 47' 36.167 W	
3,900.00	0.620	343.91	3,898.22	-41.44	59.57	358,417.5038	1,603,425.2362	39° 28' 36.597 N	80° 47' 36.173 W	
4,000.00	0.590	276.12	3,998.21	-40.86	58.90	358,418.0785	1,603,424.5743	39° 28' 36.602 N	80° 47' 36.181 W	
4,100.00	0.180	263.40	4,098.21	-40.82	58.24	358,418.1154	1,603,423.9064	39° 28' 36.603 N	80° 47' 36.190 W	
4,200.00	0.710	0.43	4,198.21	-40.22	58.09	358,418.7169	1,603,423.7550	39° 28' 36.609 N	80° 47' 36.192 W	
4,300.00	1.040	293.85	4,298.20	-39.24	57.26	358,419.7034	1,603,422.9296	39° 28' 36.618 N	80° 47' 36.203 W	
4,400.00	0.160	271.21	4,398.19	-38.87	56.29	358,420.0733	1,603,421.9599	39° 28' 36.622 N	80° 47' 36.215 W	
4,500.00	0.900	354.41	4,498.19	-38.08	56.07	358,420.8579	1,603,421.7438	39° 28' 36.629 N	80° 47' 36.218 W	
4,600.00	0.320	290.98	4,598.18	-37.20	55.74	358,421.7396	1,603,421.4066	39° 28' 36.638 N	80° 47' 36.222 W	
4,700.00	0.590	35.35	4,698.18	-36.68	55.77	358,422.2595	1,603,421.4437	39° 28' 36.643 N	80° 47' 36.222 W	
4,800.00	0.610	311.61	4,798.18	-35.91	55.67	358,423.0329	1,603,421.3436	39° 28' 36.651 N	80° 47' 36.223 W	
4,900.00	0.390	54.16	4,898.17	-35.35	55.55	358,423.5857	1,603,421.2215	39° 28' 36.656 N	80° 47' 36.225 W	
5,000.00	1.040	10.25	4,998.17	-34.26	55.99	358,424.6780	1,603,421.6589	39° 28' 36.667 N	80° 47' 36.220 W	
5,100.00	1.170	335.96	5,098.15	-32.44	55.73	358,426.5035	1,603,421.4045	39° 28' 36.685 N	80° 47' 36.223 W	
5,200.00	0.320	345.00	5,198.14	-31.23	55.25	358,427.7056	1,603,420.9163	39° 28' 36.697 N	80° 47' 36.230 W	
5,300.00	0.960	28.41	5,298.13	-30.23	55.57	358,428.7122	1,603,421.2426	39° 28' 36.707 N	80° 47' 36.226 W	
5,330.00	0.700	339.30	5,328.13	-29.84	55.63	358,429.1047	1,603,421.2974	39° 28' 36.711 N	80° 47' 36.225 W	
5,375.00	0.900	350.70	5,373.13	-29.23	55.47	358,429.7106	1,603,421.1431	39° 28' 36.717 N	80° 47' 36.227 W	
5,419.00	0.600	336.30	5,417.12	-28.68	55.32	358,430.2626	1,603,420.9946	39° 28' 36.722 N	80° 47' 36.229 W	
5,464.00	1.900	127.30	5,462.12	-28.91	55.82	358,430.0262	1,603,421.4934	39° 28' 36.720 N	80° 47' 36.223 W	
5,508.00	3.600	139.70	5,506.06	-30.41	57.30	358,428.5305	1,603,422.9672	39° 28' 36.705 N	80° 47' 36.204 W	
5,553.00	4.000	137.90	5,550.96	-32.65	59.26	358,426.2885	1,603,424.9333	39° 28' 36.684 N	80° 47' 36.178 W	
5,597.00	3.400	137.60	5,594.87	-34.75	61.17	358,424.1863	1,603,426.8420	39° 28' 36.663 N	80° 47' 36.154 W	
5,641.00	3.100	135.60	5,638.80	-36.57	62.88	358,422.3728	1,603,428.5542	39° 28' 36.645 N	80° 47' 36.131 W	
5,685.00	3.100	133.70	5,682.74	-38.24	64.58	358,420.7008	1,603,430.2467	39° 28' 36.629 N	80° 47' 36.109 W	
5,729.00	2.800	135.30	5,726.68	-39.83	66.19	358,419.1149	1,603,431.8628	39° 28' 36.614 N	80° 47' 36.089 W	
5,774.00	3.300	139.00	5,771.62	-41.58	67.82	358,417.3561	1,603,433.4856	39° 28' 36.596 N	80° 47' 36.068 W	
5,818.00	3.500	131.50	5,815.54	-43.43	69.65	358,415.5104	1,603,435.3224	39° 28' 36.579 N	80° 47' 36.044 W	

Directional Drilling Contractors

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Site: RPT 5 Pad
Well: RPT 5-1
Wellbore: Orig Hole
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,864.00	3.400	130.70	5,861.45	-45.25	71.74	358,413.6905	1,603,437.4081	39° 28' 36.561 N	80° 47' 36.017 W
5,908.00	2.700	131.40	5,905.39	-46.79	73.51	358,412.1544	1,603,439.1747	39° 28' 36.546 N	80° 47' 35.994 W
5,952.00	2.800	123.90	5,949.34	-48.07	75.17	358,410.8696	1,603,440.8441	39° 28' 36.533 N	80° 47' 35.973 W
5,997.00	2.500	122.60	5,994.29	-49.21	76.91	358,409.7278	1,603,442.5832	39° 28' 36.522 N	80° 47' 35.950 W
6,041.00	3.800	139.90	6,038.23	-50.84	78.66	358,408.0954	1,603,444.3309	39° 28' 36.507 N	80° 47' 35.928 W
6,084.00	4.700	139.40	6,081.11	-53.27	80.73	358,405.6678	1,603,446.3952	39° 28' 36.483 N	80° 47' 35.901 W
6,128.00	7.200	135.00	6,124.87	-56.59	83.85	358,402.3489	1,603,449.5185	39° 28' 36.450 N	80° 47' 35.860 W
6,173.00	10.900	137.00	6,169.30	-61.70	88.75	358,397.2414	1,603,454.4160	39° 28' 36.401 N	80° 47' 35.797 W
6,217.00	14.600	137.20	6,212.21	-68.81	95.35	358,390.1275	1,603,461.0233	39° 28' 36.331 N	80° 47' 35.711 W
6,262.00	16.600	138.00	6,255.55	-77.75	103.51	358,381.1882	1,603,469.1788	39° 28' 36.244 N	80° 47' 35.606 W
6,306.00	16.100	136.60	6,297.77	-86.86	111.91	358,372.0846	1,603,477.5763	39° 28' 36.155 N	80° 47' 35.497 W
6,351.00	14.900	133.70	6,341.13	-95.39	120.38	358,363.5535	1,603,486.0466	39° 28' 36.072 N	80° 47' 35.387 W
6,395.00	14.900	138.20	6,383.65	-103.51	128.24	358,355.4279	1,603,493.9072	39° 28' 35.993 N	80° 47' 35.286 W
6,439.00	15.400	143.40	6,426.13	-112.42	135.49	358,346.5201	1,603,501.1614	39° 28' 35.906 N	80° 47' 35.192 W
6,484.00	15.000	143.10	6,469.55	-121.87	142.55	358,337.0663	1,603,508.2204	39° 28' 35.814 N	80° 47' 35.100 W
6,528.00	17.200	141.60	6,511.82	-131.53	150.01	358,327.4133	1,603,515.6810	39° 28' 35.719 N	80° 47' 35.003 W
6,572.00	20.000	145.60	6,553.52	-142.84	158.31	358,316.1037	1,603,523.9750	39° 28' 35.609 N	80° 47' 34.895 W
6,618.00	23.400	144.20	6,596.26	-156.74	168.10	358,302.2002	1,603,533.7655	39° 28' 35.473 N	80° 47' 34.768 W
6,662.00	27.300	140.90	6,636.01	-171.66	179.58	358,287.2767	1,603,545.2451	39° 28' 35.327 N	80° 47' 34.618 W
6,706.00	31.000	141.20	6,674.44	-188.33	193.04	358,270.6098	1,603,558.7135	39° 28' 35.164 N	80° 47' 34.444 W
6,751.00	33.900	141.20	6,712.41	-207.15	208.17	358,251.7944	1,603,573.8414	39° 28' 34.980 N	80° 47' 34.247 W
6,795.00	36.900	143.70	6,748.27	-227.36	223.68	358,231.5803	1,603,589.3545	39° 28' 34.783 N	80° 47' 34.046 W
6,839.00	41.900	143.90	6,782.26	-249.89	240.17	358,209.0490	1,603,605.8417	39° 28' 34.562 N	80° 47' 33.831 W
6,883.00	48.300	143.50	6,813.30	-274.99	258.62	358,183.9475	1,603,624.2881	39° 28' 34.317 N	80° 47' 33.592 W
6,928.00	56.400	143.70	6,840.77	-303.65	279.74	358,155.2917	1,603,645.4108	39° 28' 34.037 N	80° 47' 33.317 W
6,972.00	64.500	142.50	6,862.45	-334.22	302.72	358,124.7184	1,603,668.3860	39° 28' 33.738 N	80° 47' 33.018 W
7,016.00	71.100	142.80	6,879.06	-366.59	327.42	358,092.3501	1,603,693.0855	39° 28' 33.421 N	80° 47' 32.697 W
7,061.00	74.700	143.70	6,892.29	-401.05	353.14	358,057.8918	1,603,718.8127	39° 28' 33.085 N	80° 47' 32.363 W
7,105.00	77.400	145.00	6,902.90	-435.75	378.03	358,023.1946	1,603,743.6958	39° 28' 32.745 N	80° 47' 32.039 W
7,149.00	80.400	145.30	6,911.37	-471.18	402.70	357,987.7652	1,603,768.3650	39° 28' 32.399 N	80° 47' 31.718 W
7,196.00	84.800	143.30	6,917.42	-509.01	429.89	357,949.9289	1,603,795.5582	39° 28' 32.029 N	80° 47' 31.365 W
7,240.00	86.600	141.20	6,920.72	-543.70	456.75	357,915.2404	1,603,822.4180	39° 28' 31.690 N	80° 47' 31.016 W
7,284.00	86.800	141.00	6,923.25	-577.89	484.33	357,881.0545	1,603,850.0026	39° 28' 31.356 N	80° 47' 30.658 W
7,329.00	86.900	139.30	6,925.73	-612.38	513.12	357,846.5604	1,603,878.7931	39° 28' 31.019 N	80° 47' 30.284 W
7,373.00	87.300	139.30	6,927.95	-645.69	541.78	357,813.2453	1,603,907.4486	39° 28' 30.694 N	80° 47' 29.913 W
7,418.00	88.500	137.50	6,929.60	-679.32	571.63	357,779.6192	1,603,937.3036	39° 28' 30.366 N	80° 47' 29.526 W
7,462.00	88.900	137.60	6,930.60	-711.78	601.32	357,747.1615	1,603,966.9936	39° 28' 30.049 N	80° 47' 29.141 W
7,507.00	89.000	137.90	6,931.43	-745.08	631.58	357,713.8573	1,603,997.2450	39° 28' 29.724 N	80° 47' 28.749 W
7,551.00	87.600	137.70	6,932.73	-777.66	661.12	357,681.2770	1,604,026.7869	39° 28' 29.406 N	80° 47' 28.367 W
7,593.00	87.600	137.60	6,934.49	-808.68	689.39	357,650.2644	1,604,055.0557	39° 28' 29.104 N	80° 47' 28.001 W
7,637.00	87.400	137.30	6,936.41	-841.06	719.11	357,617.8811	1,604,084.7816	39° 28' 28.788 N	80° 47' 27.616 W
7,682.00	87.300	137.20	6,938.49	-874.07	749.63	357,584.8719	1,604,115.2949	39° 28' 28.466 N	80° 47' 27.220 W
7,727.00	87.400	137.00	6,940.57	-907.00	780.22	357,551.9428	1,604,145.8946	39° 28' 28.145 N	80° 47' 26.824 W
7,771.00	89.800	138.60	6,941.65	-939.58	809.77	357,519.3603	1,604,175.4381	39° 28' 27.827 N	80° 47' 26.441 W
7,816.00	90.700	140.90	6,941.45	-973.92	838.84	357,485.0179	1,604,204.5112	39° 28' 27.492 N	80° 47' 26.064 W
7,860.00	91.200	143.00	6,940.72	-1,008.56	865.96	357,450.3759	1,604,231.6253	39° 28' 27.153 N	80° 47' 25.712 W
7,904.00	92.500	146.20	6,939.30	-1,044.41	891.43	357,414.5347	1,604,257.0969	39° 28' 26.803 N	80° 47' 25.381 W
7,949.00	92.300	149.60	6,937.41	-1,082.49	915.32	357,376.4532	1,604,280.9852	39° 28' 26.430 N	80° 47' 25.069 W
7,993.00	89.400	149.80	6,936.76	-1,120.47	937.51	357,338.4720	1,604,303.1796	39° 28' 26.058 N	80° 47' 24.779 W
8,038.00	89.500	151.70	6,937.19	-1,159.73	959.50	357,299.2133	1,604,325.1655	39° 28' 25.673 N	80° 47' 24.492 W
8,082.00	89.100	154.50	6,937.73	-1,198.96	979.40	357,259.9811	1,604,345.0692	39° 28' 25.288 N	80° 47' 24.231 W
8,127.00	90.700	158.10	6,937.81	-1,240.16	997.48	357,218.7845	1,604,363.1532	39° 28' 24.883 N	80° 47' 23.993 W
8,171.00	89.500	161.20	6,937.73	-1,281.40	1,012.78	357,177.5366	1,604,378.4522	39° 28' 24.478 N	80° 47' 23.790 W
8,216.00	88.900	164.70	6,938.36	-1,324.41	1,025.97	357,134.5254	1,604,391.6432	39° 28' 24.055 N	80° 47' 23.614 W
8,260.00	88.900	167.40	6,939.21	-1,367.11	1,036.58	357,091.8350	1,604,402.2475	39° 28' 23.634 N	80° 47' 23.471 W

Directional Drilling Contractors

Survey Report - Geographic



Company: Jay Bee Oil & Gas	Local Co-ordinate Reference: Well RPT 5-1
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 5-1	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

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,304.00	87.900	168.40	6,940.43	-1,410.11	1,045.80	357,048.8304	1,604,411.4670	39° 28' 23.211 N	80° 47' 23.345 W
8,349.00	86.500	169.30	6,942.63	-1,454.21	1,054.49	357,004.7341	1,604,420.1585	39° 28' 22.776 N	80° 47' 23.227 W
8,393.00	86.400	169.20	6,945.36	-1,497.35	1,062.68	356,961.5893	1,604,428.3499	39° 28' 22.351 N	80° 47' 23.114 W
8,437.00	86.200	169.10	6,948.20	-1,540.47	1,070.95	356,918.4659	1,604,436.6151	39° 28' 21.926 N	80° 47' 23.001 W
8,482.00	86.300	168.50	6,951.14	-1,584.52	1,079.67	356,874.4177	1,604,445.3369	39° 28' 21.492 N	80° 47' 22.882 W
8,495.85	86.580	168.15	6,952.00	-1,598.06	1,082.46	356,860.8804	1,604,448.1342	39° 28' 21.358 N	80° 47' 22.844 W
8,526.00	87.200	167.40	6,953.64	-1,627.48	1,088.84	356,831.4579	1,604,454.5090	39° 28' 21.069 N	80° 47' 22.757 W
8,570.00	87.400	167.20	6,955.71	-1,670.36	1,098.50	356,788.5820	1,604,464.1715	39° 28' 20.646 N	80° 47' 22.626 W
8,615.00	89.400	166.10	6,956.96	-1,714.12	1,108.89	356,744.8181	1,604,474.5574	39° 28' 20.215 N	80° 47' 22.485 W
8,658.00	89.500	166.30	6,957.38	-1,755.88	1,119.14	356,703.0612	1,604,484.8139	39° 28' 19.804 N	80° 47' 22.347 W
8,703.00	89.200	167.00	6,957.89	-1,799.66	1,129.53	356,659.2804	1,604,495.2036	39° 28' 19.373 N	80° 47' 22.206 W
8,747.00	89.300	167.20	6,958.46	-1,842.55	1,139.36	356,616.3946	1,604,505.0258	39° 28' 18.950 N	80° 47' 22.073 W
8,789.00	90.300	169.80	6,958.61	-1,883.70	1,147.73	356,575.2420	1,604,513.3983	39° 28' 18.545 N	80° 47' 21.959 W
8,834.00	90.500	170.60	6,958.30	-1,928.04	1,155.39	356,530.9002	1,604,521.0575	39° 28' 18.108 N	80° 47' 21.853 W
8,878.00	89.600	170.00	6,958.26	-1,971.41	1,162.80	356,487.5299	1,604,528.4709	39° 28' 17.680 N	80° 47' 21.751 W
8,922.00	89.600	170.10	6,958.56	-2,014.75	1,170.40	356,444.1927	1,604,536.0734	39° 28' 17.253 N	80° 47' 21.646 W
8,966.00	89.800	169.90	6,958.80	-2,058.08	1,178.04	356,400.8618	1,604,543.7138	39° 28' 16.826 N	80° 47' 21.541 W
9,011.00	90.100	169.70	6,958.83	-2,102.37	1,186.01	356,356.5731	1,604,551.6826	39° 28' 16.389 N	80° 47' 21.431 W
9,055.00	90.200	169.90	6,958.72	-2,145.67	1,193.80	356,313.2687	1,604,559.4743	39° 28' 15.962 N	80° 47' 21.324 W
9,100.00	89.700	170.30	6,958.76	-2,190.00	1,201.54	356,268.9390	1,604,567.2111	39° 28' 15.525 N	80° 47' 21.217 W
9,144.00	89.900	171.10	6,958.91	-2,233.42	1,208.65	356,225.5180	1,604,574.3216	39° 28' 15.097 N	80° 47' 21.118 W
9,186.00	90.200	171.70	6,958.88	-2,274.95	1,214.93	356,183.9905	1,604,580.6020	39° 28' 14.688 N	80° 47' 21.030 W
9,231.00	88.500	171.30	6,959.39	-2,319.45	1,221.58	356,139.4893	1,604,587.2527	39° 28' 14.249 N	80° 47' 20.938 W
9,275.00	88.500	171.20	6,960.54	-2,362.92	1,228.27	356,096.0163	1,604,593.9439	39° 28' 13.820 N	80° 47' 20.844 W
9,319.00	88.500	170.70	6,961.69	-2,406.36	1,235.19	356,052.5791	1,604,600.8625	39° 28' 13.392 N	80° 47' 20.748 W
9,364.00	88.600	170.30	6,962.83	-2,450.73	1,242.62	356,008.2106	1,604,608.2873	39° 28' 12.954 N	80° 47' 20.645 W
9,408.00	88.700	170.20	6,963.86	-2,494.08	1,250.07	355,964.8581	1,604,615.7366	39° 28' 12.527 N	80° 47' 20.542 W
9,453.00	88.600	170.30	6,964.92	-2,538.42	1,257.69	355,920.5204	1,604,623.3552	39° 28' 12.090 N	80° 47' 20.437 W
9,497.00	89.200	170.90	6,965.77	-2,581.82	1,264.87	355,877.1197	1,604,630.5401	39° 28' 11.662 N	80° 47' 20.338 W
9,542.00	89.500	170.70	6,966.28	-2,626.24	1,272.06	355,832.7015	1,604,637.7343	39° 28' 11.224 N	80° 47' 20.238 W
9,586.00	89.800	171.20	6,966.55	-2,669.69	1,278.99	355,789.2502	1,604,644.6552	39° 28' 10.796 N	80° 47' 20.142 W
9,630.00	89.900	170.90	6,966.66	-2,713.15	1,285.83	355,745.7861	1,604,651.5003	39° 28' 10.367 N	80° 47' 20.046 W
9,675.00	89.900	171.30	6,966.74	-2,757.61	1,292.79	355,701.3281	1,604,658.4623	39° 28' 9.929 N	80° 47' 19.949 W
9,719.00	90.100	171.60	6,966.74	-2,801.12	1,299.33	355,657.8171	1,604,665.0038	39° 28' 9.500 N	80° 47' 19.858 W
9,763.00	90.000	171.40	6,966.70	-2,844.64	1,305.84	355,614.3005	1,604,671.5074	39° 28' 9.070 N	80° 47' 19.767 W
9,808.00	90.200	171.50	6,966.63	-2,889.14	1,312.53	355,569.8007	1,604,678.1977	39° 28' 8.632 N	80° 47' 19.674 W
9,852.00	90.500	171.90	6,966.36	-2,932.68	1,318.88	355,526.2625	1,604,684.5492	39° 28' 8.202 N	80° 47' 19.585 W
9,896.00	89.300	171.10	6,966.43	-2,976.19	1,325.38	355,482.7470	1,604,691.0527	39° 28' 7.773 N	80° 47' 19.494 W
9,940.00	88.800	170.60	6,967.16	-3,019.63	1,332.38	355,439.3131	1,604,698.0485	39° 28' 7.345 N	80° 47' 19.397 W
9,985.00	89.000	171.10	6,968.03	-3,064.05	1,339.53	355,394.8941	1,604,705.2030	39° 28' 6.907 N	80° 47' 19.297 W
10,030.00	88.900	170.60	6,968.85	-3,108.47	1,346.69	355,350.4743	1,604,712.3577	39° 28' 6.469 N	80° 47' 19.198 W
10,074.00	89.000	170.70	6,969.66	-3,151.87	1,353.84	355,307.0662	1,604,719.5050	39° 28' 6.041 N	80° 47' 19.099 W
10,119.00	88.800	170.30	6,970.52	-3,196.25	1,361.26	355,262.6916	1,604,726.9307	39° 28' 5.603 N	80° 47' 18.996 W
10,164.00	89.000	170.30	6,971.39	-3,240.60	1,368.84	355,218.3432	1,604,734.5113	39° 28' 5.166 N	80° 47' 18.891 W
10,206.00	89.300	170.30	6,972.01	-3,281.99	1,375.92	355,176.9482	1,604,741.5871	39° 28' 4.758 N	80° 47' 18.794 W
10,250.00	89.200	170.10	6,972.58	-3,325.35	1,383.41	355,133.5940	1,604,749.0757	39° 28' 4.331 N	80° 47' 18.690 W
10,295.00	89.300	170.00	6,973.17	-3,369.67	1,391.18	355,089.2747	1,604,756.8505	39° 28' 3.894 N	80° 47' 18.583 W
10,339.00	88.500	169.40	6,974.02	-3,412.95	1,399.05	355,045.9922	1,604,764.7162	39° 28' 3.467 N	80° 47' 18.475 W
10,383.00	88.500	169.80	6,975.17	-3,456.21	1,406.99	355,002.7300	1,604,772.6563	39° 28' 3.041 N	80° 47' 18.366 W
10,427.00	89.700	168.70	6,975.86	-3,499.43	1,415.19	354,959.5090	1,604,780.8621	39° 28' 2.615 N	80° 47' 18.253 W
10,472.00	90.000	168.90	6,975.98	-3,543.57	1,423.93	354,915.3662	1,604,789.6026	39° 28' 2.180 N	80° 47' 18.133 W
10,516.00	90.600	168.80	6,975.75	-3,586.74	1,432.44	354,872.1976	1,604,798.1111	39° 28' 1.754 N	80° 47' 18.017 W
10,560.00	90.200	168.00	6,975.44	-3,629.84	1,441.29	354,829.0977	1,604,806.9583	39° 28' 1.330 N	80° 47' 17.896 W
10,605.00	90.300	168.10	6,975.25	-3,673.87	1,450.61	354,785.0734	1,604,816.2758	39° 28' 0.896 N	80° 47' 17.770 W
10,649.00	90.700	168.50	6,974.86	-3,716.95	1,459.53	354,741.9894	1,604,825.1980	39° 28' 0.471 N	80° 47' 17.648 W

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	Local Co-ordinate Reference:	Well RPT 5-1
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 5-1	North Reference:	Grid
Wellbore:	Orig Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	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
10,694.00	90.800	168.90	6,974.27	-3,761.07	1,468.35	354,697.8656	1,604,834.0149	39° 28' 0.036 N	80° 47' 17.527 W
10,738.00	90.600	168.80	6,973.73	-3,804.24	1,476.85	354,654.6994	1,604,842.5229	39° 27' 59.611 N	80° 47' 17.411 W
10,782.00	90.500	169.00	6,973.31	-3,847.42	1,485.32	354,611.5245	1,604,850.9934	39° 27' 59.186 N	80° 47' 17.295 W
10,827.00	90.400	169.80	6,972.96	-3,891.65	1,493.60	354,567.2942	1,604,859.2709	39° 27' 58.750 N	80° 47' 17.182 W
10,871.00	90.600	170.30	6,972.58	-3,934.98	1,501.20	354,523.9578	1,604,866.8733	39° 27' 58.322 N	80° 47' 17.077 W
10,915.00	90.700	169.50	6,972.08	-3,978.30	1,508.92	354,480.6428	1,604,874.5889	39° 27' 57.895 N	80° 47' 16.970 W
10,960.00	89.100	169.70	6,972.15	-4,022.56	1,517.04	354,436.3836	1,604,882.7120	39° 27' 57.459 N	80° 47' 16.859 W
11,004.00	89.000	169.10	6,972.88	-4,065.80	1,525.13	354,393.1406	1,604,890.8047	39° 27' 57.033 N	80° 47' 16.748 W
11,049.00	89.300	170.00	6,973.55	-4,110.05	1,533.30	354,348.8923	1,604,898.9656	39° 27' 56.597 N	80° 47' 16.635 W
11,093.00	89.400	170.00	6,974.05	-4,153.38	1,540.94	354,305.5636	1,604,906.6057	39° 27' 56.170 N	80° 47' 16.530 W
11,136.00	89.400	170.00	6,974.50	-4,195.72	1,548.40	354,263.2193	1,604,914.0721	39° 27' 55.752 N	80° 47' 16.427 W
11,180.00	89.300	169.80	6,975.00	-4,239.04	1,556.12	354,219.9040	1,604,921.7878	39° 27' 55.325 N	80° 47' 16.321 W
11,225.00	89.500	169.80	6,975.47	-4,283.32	1,564.09	354,175.6176	1,604,929.7561	39° 27' 54.889 N	80° 47' 16.211 W
11,269.00	89.800	169.00	6,975.74	-4,326.57	1,572.18	354,132.3697	1,604,937.8498	39° 27' 54.463 N	80° 47' 16.100 W
11,313.00	89.700	168.50	6,975.93	-4,369.72	1,580.76	354,089.2157	1,604,946.4336	39° 27' 54.037 N	80° 47' 15.983 W
11,355.00	90.000	168.50	6,976.04	-4,410.88	1,589.14	354,048.0590	1,604,954.8071	39° 27' 53.632 N	80° 47' 15.869 W
11,400.00	90.800	169.10	6,975.73	-4,455.02	1,597.88	354,003.9177	1,604,963.5473	39° 27' 53.197 N	80° 47' 15.749 W
11,445.00	90.900	168.70	6,975.06	-4,499.18	1,606.54	353,959.7644	1,604,972.2098	39° 27' 52.762 N	80° 47' 15.630 W
11,489.00	90.100	169.50	6,974.68	-4,542.38	1,614.86	353,916.5606	1,604,980.5295	39° 27' 52.336 N	80° 47' 15.517 W
11,533.00	90.700	169.90	6,974.37	-4,585.67	1,622.73	353,873.2710	1,604,988.3966	39° 27' 51.909 N	80° 47' 15.408 W
11,578.00	90.600	171.10	6,973.86	-4,630.05	1,630.15	353,828.8918	1,604,995.8231	39° 27' 51.472 N	80° 47' 15.306 W
11,622.00	90.900	171.30	6,973.28	-4,673.53	1,636.88	353,785.4136	1,605,002.5539	39° 27' 51.043 N	80° 47' 15.212 W
11,666.00	89.600	171.30	6,973.09	-4,717.02	1,643.54	353,741.9212	1,605,009.2092	39° 27' 50.614 N	80° 47' 15.119 W
11,710.00	89.600	171.40	6,973.40	-4,760.52	1,650.16	353,698.4227	1,605,015.8265	39° 27' 50.185 N	80° 47' 15.027 W
11,755.00	90.000	171.70	6,973.56	-4,805.03	1,656.77	353,653.9116	1,605,022.4391	39° 27' 49.746 N	80° 47' 14.934 W
11,800.00	90.100	172.40	6,973.52	-4,849.60	1,662.99	353,609.3444	1,605,028.6629	39° 27' 49.306 N	80° 47' 14.847 W
11,844.00	89.800	173.90	6,973.55	-4,893.28	1,668.24	353,565.6598	1,605,033.9107	39° 27' 48.875 N	80° 47' 14.772 W
11,888.00	89.900	175.20	6,973.67	-4,937.08	1,672.42	353,521.8598	1,605,038.0895	39° 27' 48.443 N	80° 47' 14.711 W
11,933.00	89.700	175.80	6,973.83	-4,981.94	1,675.95	353,476.9990	1,605,041.6202	39° 27' 48.000 N	80° 47' 14.657 W
11,977.00	88.500	176.80	6,974.52	-5,025.84	1,678.79	353,433.0975	1,605,044.4592	39° 27' 47.567 N	80° 47' 14.613 W
12,021.00	88.600	178.70	6,975.63	-5,069.79	1,680.52	353,389.1476	1,605,046.1860	39° 27' 47.133 N	80° 47' 14.583 W
12,066.00	88.800	178.80	6,976.65	-5,114.77	1,681.50	353,344.1699	1,605,047.1674	39° 27' 46.688 N	80° 47' 14.562 W
12,110.00	88.800	178.00	6,977.57	-5,158.74	1,682.73	353,300.1970	1,605,048.3957	39° 27' 46.254 N	80° 47' 14.539 W
12,155.00	89.300	178.40	6,978.32	-5,203.71	1,684.14	353,255.2256	1,605,049.8089	39° 27' 45.810 N	80° 47' 14.512 W
12,199.00	89.600	178.70	6,978.74	-5,247.70	1,685.25	353,211.2419	1,605,050.9223	39° 27' 45.375 N	80° 47' 14.490 W
12,243.00	90.100	179.40	6,978.86	-5,291.69	1,685.98	353,167.2485	1,605,051.6518	39° 27' 44.941 N	80° 47' 14.473 W
12,288.00	89.300	180.00	6,979.09	-5,336.69	1,686.22	353,122.2503	1,605,051.8874	39° 27' 44.496 N	80° 47' 14.462 W
12,332.00	89.600	180.60	6,979.52	-5,380.69	1,685.99	353,078.2532	1,605,051.6570	39° 27' 44.061 N	80° 47' 14.456 W
12,376.00	89.300	179.20	6,979.94	-5,424.68	1,686.06	353,034.2564	1,605,051.7338	39° 27' 43.626 N	80° 47' 14.447 W
12,421.00	89.700	179.10	6,980.33	-5,469.68	1,686.73	352,989.2632	1,605,052.4014	39° 27' 43.182 N	80° 47' 14.431 W
12,465.00	90.000	178.70	6,980.45	-5,513.67	1,687.58	352,945.2716	1,605,053.2460	39° 27' 42.747 N	80° 47' 14.412 W
12,510.00	90.000	177.20	6,980.45	-5,558.64	1,689.19	352,900.3016	1,605,054.8557	39° 27' 42.303 N	80° 47' 14.383 W
12,554.00	90.300	177.70	6,980.33	-5,602.59	1,691.14	352,856.3455	1,605,056.8133	39° 27' 41.869 N	80° 47' 14.350 W
12,599.00	90.600	178.80	6,979.98	-5,647.57	1,692.52	352,811.3687	1,605,058.1875	39° 27' 41.424 N	80° 47' 14.324 W
12,643.00	91.100	179.70	6,979.32	-5,691.56	1,693.09	352,767.3779	1,605,058.7634	39° 27' 40.990 N	80° 47' 14.309 W
12,687.00	89.400	179.10	6,979.13	-5,735.56	1,693.55	352,723.3825	1,605,059.2241	39° 27' 40.555 N	80° 47' 14.295 W
12,732.00	89.600	179.30	6,979.52	-5,780.55	1,694.18	352,678.3887	1,605,059.8524	39° 27' 40.110 N	80° 47' 14.279 W
12,776.00	89.800	179.20	6,979.76	-5,824.55	1,694.76	352,634.3931	1,605,060.4283	39° 27' 39.676 N	80° 47' 14.264 W
12,821.00	88.600	180.10	6,980.38	-5,869.54	1,695.03	352,589.3996	1,605,060.7032	39° 27' 39.231 N	80° 47' 14.252 W
12,865.00	88.500	180.30	6,981.50	-5,913.53	1,694.88	352,545.4139	1,605,060.5497	39° 27' 38.796 N	80° 47' 14.246 W
12,909.00	88.500	180.00	6,982.65	-5,957.51	1,694.76	352,501.4292	1,605,060.4346	39° 27' 38.362 N	80° 47' 14.239 W
12,954.00	88.600	180.40	6,983.79	-6,002.50	1,694.61	352,456.4440	1,605,060.2775	39° 27' 37.917 N	80° 47' 14.233 W
12,999.00	89.300	181.10	6,984.61	-6,047.48	1,694.02	352,411.4560	1,605,059.6886	39° 27' 37.472 N	80° 47' 14.232 W
13,043.00	88.500	180.00	6,985.46	-6,091.47	1,693.60	352,367.4671	1,605,059.2662	39° 27' 37.038 N	80° 47' 14.230 W
13,087.00	88.000	179.80	6,986.80	-6,135.45	1,693.67	352,323.4879	1,605,059.3430	39° 27' 36.603 N	80° 47' 14.221 W

Directional Drilling Contractors

Survey Report - Geographic

DDC
Directional Drilling Contractors, LLC.
An Archer Company

Received

APR 27 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Company: Jay Bee Oil & Gas	Local Co-ordinate Reference: Well RPT 5-1
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 5-1	North Reference: Grid
Wellbore: Orig Hole	Survey Calculation Method: Minimum Curvature
Design: As Drilled	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
13,132.00	88.600	178.70	6,988.14	-6,180.43	1,694.26	352,278.5125	1,605,059.9318	39° 27' 36.159 N	80° 47' 14.205 W
13,176.00	89.100	180.20	6,989.02	-6,224.42	1,694.68	352,234.5247	1,605,060.3540	39° 27' 35.724 N	80° 47' 14.191 W
13,221.00	91.000	179.90	6,988.98	-6,269.41	1,694.65	352,189.5269	1,605,060.3148	39° 27' 35.279 N	80° 47' 14.184 W
13,265.00	91.300	179.40	6,988.10	-6,313.40	1,694.91	352,145.5368	1,605,060.5835	39° 27' 34.844 N	80° 47' 14.172 W
13,310.00	91.700	179.70	6,986.92	-6,358.39	1,695.27	352,100.5537	1,605,060.9368	39° 27' 34.400 N	80° 47' 14.160 W
13,354.00	91.900	180.00	6,985.54	-6,402.36	1,695.38	352,056.5756	1,605,061.0519	39° 27' 33.965 N	80° 47' 14.150 W
13,398.00	90.700	180.60	6,984.54	-6,446.35	1,695.15	352,012.5886	1,605,060.8216	39° 27' 33.531 N	80° 47' 14.145 W
13,443.00	90.700	181.00	6,983.99	-6,491.34	1,694.52	351,967.5964	1,605,060.1933	39° 27' 33.086 N	80° 47' 14.145 W
13,488.00	90.100	180.10	6,983.67	-6,536.34	1,694.09	351,922.6002	1,605,059.7614	39° 27' 32.641 N	80° 47' 14.142 W
13,532.00	90.600	180.10	6,983.41	-6,580.34	1,694.01	351,878.6013	1,605,059.6846	39° 27' 32.206 N	80° 47' 14.135 W
13,576.00	88.700	180.00	6,983.67	-6,624.34	1,693.98	351,834.6041	1,605,059.6462	39° 27' 31.771 N	80° 47' 14.127 W
13,621.00	88.800	180.70	6,984.66	-6,669.32	1,693.70	351,789.6160	1,605,059.3714	39° 27' 31.327 N	80° 47' 14.123 W
13,666.00	89.100	180.10	6,985.48	-6,714.32	1,693.39	351,744.6249	1,605,059.0573	39° 27' 30.882 N	80° 47' 14.118 W
13,711.00	89.400	179.90	6,986.07	-6,759.31	1,693.39	351,699.6288	1,605,059.0573	39° 27' 30.437 N	80° 47' 14.110 W
13,755.00	89.700	179.30	6,986.41	-6,803.31	1,693.69	351,655.6315	1,605,059.3644	39° 27' 30.003 N	80° 47' 14.098 W
13,800.00	90.100	179.30	6,986.49	-6,848.31	1,694.24	351,610.6350	1,605,059.9142	39° 27' 29.558 N	80° 47' 14.083 W
13,865.00	90.100	179.30	6,986.38	-6,913.30	1,695.04	351,545.6399	1,605,060.7083	39° 27' 28.916 N	80° 47' 14.061 W

Projection to bit 13865.00 MD, 90.100 INC, 179.30 AZI, 6986.38 TVD

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
13,865.00	6,986.38	-6,913.30	1,695.04	Projection to bit 13865.00 MD, 90.100 INC, 179.30 AZI, 6986.38 TVD

Checked By: _____ Approved By: _____ Date: _____