



Company: Jay-Bee Oil & Gas
 Well: Doc 7
 Location: Tyler Co., WV
 Rig: Precision 823
 API No: 47-095-02624-00-00
 Start Date: 12/30/21 Start Depth: 350

Job Number: 68753 Calculation Method: Minimum Curvature
 Magnetic Declination: -7.73 Proposed Azimuth: 340.74
 Grid Correction: 0.15 Depth Ref: RKB 1053 ft Plan # 1
 Total Correction: -7.88 Field: Marcellus
 North reference: Grid Location Lat/Long: 39.44914, -80.7682297
 End Date: 01/09/22 End Depth: 13347

Survey Tool Type	Bit Depth (ft)	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Closure Distance (ft)	Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	R/S #
TIP	318.50	318.50	2.45	156.54	S 23.5 E	0	318.41	-2.98	-4.12	-2.75	0	0	0	0	0	0
1st Svy	490	403	2.75	155.40	S 24.6 E	85	402.82	-6.80	-7.62	-1.19	7.71	188.86	0.36	0.36	-1.35	1
Velocity	534	447	2.87	155.13	S 24.9 E	44	446.77	-8.95	-9.58	-0.28	9.58	181.70	0.27	0.27	-0.61	1
Velocity	579	492	2.57	156.74	S 23.3 E	45	491.72	-11.08	-11.53	0.59	11.54	177.08	0.69	-0.67	3.58	1
Velocity	623	536	2.22	163.72	S 16.3 E	44	535.68	-12.91	-13.25	1.22	13.31	174.76	1.03	-0.80	15.86	1
Velocity	668	581	2.31	155.85	S 24.2 E	45	580.65	-14.69	-14.92	1.83	15.03	173.00	0.72	0.20	-17.49	1
Velocity	712	625	1.86	171.04	S 9.0 E	44	624.62	-16.27	-16.43	2.31	16.59	172.01	1.61	-1.02	34.52	1
Velocity	757	670	1.40	185.04	S 5.0 W	45	669.60	-17.49	-17.70	2.37	17.86	172.37	1.34	-1.02	31.11	1
Velocity	801	714	1.45	193.43	S 13.4 W	44	713.59	-18.45	-18.78	2.19	18.90	173.33	0.49	0.11	19.07	1
Velocity	846	759	1.04	188.48	S 8.5 W	45	758.57	-19.29	-19.73	2.00	19.84	174.21	0.94	-0.91	-11.00	1
Velocity	890	803	0.25	268.26	S 88.3 W	44	802.57	-19.61	-20.13	1.85	20.22	174.76	2.33	-1.80	181.32	1
Velocity	935	848	0.48	4.22	N 4.2 E	45	847.57	-19.41	-19.95	1.76	20.03	174.95	1.25	0.51	-586.76	1
Velocity	1024	937	0.56	332.45	N 27.6 W	89	936.57	-18.64	-19.19	1.59	19.26	175.27	0.33	0.09	-35.70	1
Velocity	1113	1026	0.38	334.80	N 25.2 W	89	1025.56	-17.92	-18.54	1.26	18.58	176.10	0.20	-0.20	2.64	1
Velocity	1202	1115	0.44	314.84	N 45.2 W	89	1114.56	-17.32	-18.03	0.89	18.05	177.16	0.17	0.07	-22.43	1
Velocity	1291	1204	0.33	264.69	S 84.7 W	89	1203.56	-16.95	-17.81	0.40	17.82	178.72	0.38	-0.12	-56.35	1
Velocity	1381	1294	0.22	252.68	S 72.7 W	90	1293.56	-16.88	-17.89	-0.03	17.89	180.08	0.14	-0.12	-13.34	1
Velocity	1471	1384	0.35	246.74	S 66.7 W	90	1383.56	-16.89	-18.05	-0.44	18.05	181.41	0.15	0.14	-6.60	1
Velocity	1560	1473	0.24	207.40	S 27.4 W	89	1472.56	-17.04	-18.32	-0.78	18.34	182.44	0.25	-0.12	-44.20	1
Velocity	1650	1563	0.42	236.75	S 56.8 W	90	1562.56	-17.25	-18.67	-1.14	18.70	183.50	0.27	0.20	32.61	1
Velocity	1740	1653	0.45	228.88	S 48.9 W	90	1652.55	-17.46	-19.08	-1.68	19.16	185.04	0.07	0.03	-8.74	1
Velocity	1829	1742	0.49	242.09	S 62.1 W	89	1741.55	-17.65	-19.49	-2.28	19.62	186.68	0.13	0.04	14.84	1
Velocity	1918	1831	0.64	238.78	S 58.8 W	89	1830.55	-17.81	-19.93	-3.04	20.16	188.69	0.17	0.17	-3.72	1
Velocity	2007	1920	1.27	260.05	S 80.1 W	89	1919.53	-17.75	-20.35	-4.44	20.83	192.31	0.80	0.71	23.90	1
Velocity	2097	2010	2.32	279.07	N 80.9 W	90	2009.49	-16.72	-20.24	-7.22	21.49	199.64	1.33	1.17	21.13	1
Velocity	2185	2098	4.07	286.24	N 73.8 W	88	2097.35	-14.06	-19.08	-11.98	22.53	212.12	2.04	1.99	8.15	1
Velocity	2274	2187	6.16	290.34	N 69.7 W	89	2185.99	-9.19	-16.54	-19.49	25.56	229.68	2.38	2.35	4.61	1
Velocity	2300	2213	6.71	291.02	N 69.0 W	26	2211.83	-7.32	-15.51	-22.22	27.10	235.08	2.14	2.12	2.62	1
Velocity	2369	2291	7.48	288.86	N 71.1 W	78	2289.23	-1.23	-12.24	-31.28	33.58	248.63	1.04	0.99	-2.77	2
Velocity	2458	2380	7.62	284.00	N 76.0 W	89	2377.46	5.58	-8.94	-42.48	43.41	258.12	0.73	0.16	-5.46	2
Velocity	2547	2469	7.31	280.63	N 79.4 W	89	2465.70	11.64	-6.46	-53.77	54.16	263.15	0.60	-0.35	-3.79	2
Velocity	2637	2559	7.80	277.62	N 82.4 W	90	2554.09	17.25	-4.60	-65.45	65.62	265.98	0.70	0.54	-3.34	2
Velocity	2727	2649	7.75	272.09	N 87.9 W	90	2642.22	23.22	-3.57	-77.57	77.65	267.37	0.83	-0.06	-6.14	2
Velocity	2817	2739	7.68	275.34	N 84.7 W	90	2730.93	29.93	-2.79	-89.62	89.67	268.22	0.49	-0.08	3.61	2
Velocity	2907	2829	8.69	287.31	N 72.7 W	90	2822.67	38.49	-0.20	-102.10	102.10	269.89	2.20	1.12	13.30	2
Velocity	2997	2919	9.06	286.54	N 73.5 W	90	2914.68	47.16	3.84	-115.39	115.45	271.90	0.43	0.41	-0.86	2
Velocity	3087	3009	8.19	281.55	N 78.5 W	90	3006.27	56.15	7.14	-128.46	128.66	273.18	1.27	-0.97	-5.54	2
Velocity	3176	3098	7.86	282.47	N 77.5 W	89	3098.40	65.56	9.72	-140.61	140.95	273.96	0.40	-0.37	1.03	2
Velocity	3267	3189	7.79	285.09	N 74.9 W	91	3178.56	74.21	12.67	-152.64	153.17	274.75	0.40	-0.08	2.88	2
Velocity	3357	3279	7.61	293.25	N 66.8 W	90	3267.75	83.78	16.61	-164.01	164.85	275.78	1.23	-0.20	9.07	2

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Survey Tool Type	Bit Depth (ft)	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Closure Distance (ft)	Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	RUN #
Velocity	3447	3369	7.27	291.22	N 68.8 W	90	3356.99	77.50	21.03	-174.79	176.05	276.86	0.48	-0.38	-2.26	2
Velocity	3540	3462	6.30	283.76	N 76.2 W	93	3449.34	84.11	24.37	-185.24	186.83	277.49	1.41	-1.04	-8.02	2
Velocity	3630	3552	7.81	289.58	N 70.4 W	90	3538.66	90.63	27.59	-195.79	197.73	278.02	1.85	1.68	6.47	2
Velocity	3720	3642	7.10	284.86	N 75.1 W	90	3627.90	97.59	31.07	-206.93	209.25	278.54	1.04	-0.79	-5.24	2
Velocity	3810	3732	8.51	286.14	N 73.9 W	90	3717.06	104.57	34.35	-218.70	221.39	278.93	1.58	1.57	1.42	2
Velocity	3900	3822	8.71	289.37	N 70.6 W	90	3806.05	112.68	38.46	-231.53	234.70	279.43	0.58	0.22	3.59	2
Velocity	3990	3912	8.12	284.34	N 75.7 W	90	3895.08	120.45	42.29	-244.12	247.75	279.83	1.05	-0.66	-5.59	2
Velocity	4080	4002	8.11	283.33	N 76.7 W	90	3984.18	127.39	45.33	-256.45	260.43	280.02	0.16	-0.01	-1.12	2
Velocity	4170	4092	7.65	288.16	N 71.8 W	90	4073.33	134.45	48.66	-268.32	272.70	280.28	0.90	-0.51	5.37	2
Velocity	4260	4182	7.52	293.34	N 66.7 W	90	4162.54	142.07	52.86	-279.42	284.38	280.71	0.77	-0.14	5.76	2
Velocity	4350	4272	6.78	288.23	N 71.8 W	90	4251.84	149.29	56.86	-289.88	295.40	281.10	1.08	-0.82	-5.68	2
Velocity	4441	4363	7.25	284.89	N 75.1 W	91	4342.16	155.78	60.01	-300.53	306.46	281.29	0.68	0.52	-3.67	2
Velocity	4531	4453	8.03	287.52	N 72.5 W	90	4431.36	162.74	63.36	-312.01	318.38	281.48	0.95	0.87	2.92	2
Velocity	4621	4543	7.48	283.01	N 77.0 W	90	4520.54	169.63	66.58	-323.71	330.49	281.62	0.91	-0.61	-5.01	2
Velocity	4711	4633	7.32	286.45	N 73.6 W	90	4609.79	176.10	69.52	-334.92	342.06	281.73	0.52	-0.18	3.82	2
Velocity	4801	4723	8.08	286.96	N 73.0 W	90	4698.98	183.19	72.99	-346.47	354.07	281.90	0.85	0.84	0.57	2
Velocity	4891	4813	7.40	283.11	N 76.9 W	90	4788.16	190.03	76.15	-358.16	366.17	282.00	0.95	-0.76	-4.28	2
Velocity	4981	4903	7.50	286.43	N 73.6 W	90	4877.40	196.56	79.12	-369.44	377.82	282.09	0.49	0.11	3.69	2
Velocity	5071	4993	6.81	282.90	N 77.1 W	90	4966.70	202.82	81.97	-380.28	389.01	282.16	0.91	-0.77	-3.92	2
Velocity	5161	5083	7.14	292.57	N 67.4 W	90	5056.03	209.39	85.31	-390.64	399.85	282.32	1.35	0.37	10.74	2
Velocity	5251	5173	6.55	289.78	N 70.2 W	90	5145.39	216.36	89.20	-400.64	410.45	282.55	0.75	-0.66	-3.10	2
Velocity	5342	5264	7.19	295.21	N 64.8 W	91	5235.74	223.62	93.38	-410.68	421.16	282.81	1.00	0.70	5.97	2
Velocity	5432	5354	8.32	295.13	N 64.9 W	90	5324.91	232.12	98.54	-421.67	433.03	283.15	1.26	1.26	-0.09	2
Velocity	5522	5444	7.92	293.08	N 66.9 W	90	5414.01	240.85	103.74	-433.27	445.51	283.47	0.55	-0.44	-2.28	2
Velocity	5612	5534	7.02	289.83	N 70.2 W	90	5503.25	248.49	108.04	-444.14	457.09	283.67	1.10	-1.00	-3.61	2
Velocity	5703	5625	7.88	289.59	N 70.4 W	91	5593.48	255.91	112.01	-455.25	468.83	283.82	0.95	0.95	-0.26	2
Velocity	5793	5715	7.42	285.67	N 74.3 W	90	5682.68	263.11	115.65	-466.66	480.78	283.92	0.77	-0.51	-4.36	2
Velocity	5883	5805	7.95	286.39	N 73.6 W	90	5771.87	270.06	118.98	-478.23	492.80	283.97	0.60	0.59	0.80	2
Velocity	5973	5895	7.35	283.13	N 76.9 W	90	5861.07	276.78	122.04	-489.80	504.78	283.99	0.82	-0.67	-3.62	2
Velocity	6063	5985	7.46	284.93	N 75.1 W	90	5950.32	283.14	124.86	-501.06	516.38	283.99	0.29	0.12	2.00	2
Velocity	6153	6075	8.10	290.00	N 70.0 W	90	6039.49	290.44	128.53	-512.66	528.53	284.07	1.04	0.71	5.63	2
Velocity	6243	6165	8.79	292.09	N 67.9 W	90	6128.51	298.99	133.28	-524.99	541.64	284.25	0.84	0.77	2.32	2
Velocity	6334	6256	7.95	291.39	N 68.6 W	91	6218.54	307.69	138.19	-537.29	554.78	284.42	0.93	-0.92	-0.77	2
Velocity	6378	6300	7.63	293.30	N 66.7 W	44	6262.14	311.65	140.46	-542.81	560.69	284.51	0.94	-0.73	4.34	2
Velocity	6424	6346	10.25	310.23	N 49.8 W	46	6307.58	317.24	144.31	-548.74	567.40	284.73	8.01	5.70	36.80	2
Velocity	6469	6391	14.28	320.26	N 39.7 W	45	6351.55	325.89	151.17	-555.35	575.55	285.23	10.10	8.96	22.29	2
Velocity	6514	6436	18.39	325.25	N 34.8 W	45	6394.73	337.94	158.07	-562.95	585.59	285.99	9.64	9.13	11.09	2
Velocity	6559	6481	21.85	329.00	N 31.0 W	45	6436.98	352.98	174.29	-571.31	597.30	286.97	8.20	7.69	8.33	2
Velocity	6571	6504	23.57	329.82	N 30.2 W	23	6458.19	351.69	181.93	-575.82	603.88	287.53	7.60	7.48	3.57	3
Velocity	6615	6548	26.82	333.83	N 26.2 W	44	6498.01	380.19	198.45	-584.63	617.39	288.75	8.34	7.39	9.11	3
Velocity	6660	6593	30.21	334.93	N 25.1 W	45	6537.54	401.53	217.82	-593.90	632.59	290.14	7.62	7.53	2.44	3

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									+N/-S	+E/-W	Distance	Angle (deg)				
Velocity	6705	6638	33.82	336.51	N 23.5 W	45	6575.69	425.29	239.57	-603.70	649.49	291.65	8.23	8.02	3.51	3
Velocity	6750	6683	37.83	339.31	N 20.7 W	45	6612.17	451.59	263.98	-613.57	667.94	293.28	9.62	8.91	6.22	3
Velocity	6794	6727	41.29	342.94	N 17.1 W	44	6646.09	479.60	290.49	-622.60	687.03	295.01	9.45	7.86	8.25	3
Velocity	6840	6773	46.89	344.32	N 15.7 W	46	6679.12	511.55	321.19	-631.60	708.57	296.96	12.35	12.17	3.00	3
Velocity	6884	6817	52.76	345.10	N 14.9 W	44	6707.49	545.07	353.61	-640.45	731.58	298.90	13.41	13.34	1.77	3
Velocity	6929	6862	58.69	346.01	N 14.0 W	45	6732.83	582.11	389.60	-649.71	757.57	300.95	13.28	13.18	2.02	3
Velocity	6974	6907	64.56	347.03	N 13.0 W	45	6754.20	621.48	428.09	-658.93	785.78	303.01	13.20	13.04	2.27	3
Velocity	7018	6951	70.41	347.12	N 12.9 W	44	6771.04	661.86	467.69	-668.01	815.46	305.00	13.30	13.30	0.20	3
Velocity	7063	6996	76.24	347.80	N 12.2 W	45	6783.95	704.65	509.75	-677.36	847.74	306.96	13.04	12.96	1.51	3
Velocity	7107	7040	80.87	347.51	N 12.5 W	44	6792.68	747.45	551.87	-686.58	880.88	308.79	10.54	10.52	-0.66	3
Velocity	7152	7085	85.46	345.73	N 14.3 W	45	6798.03	791.89	595.32	-696.92	916.57	310.50	10.93	10.20	-3.96	3
Velocity	7196	7129	87.20	345.54	N 14.5 W	44	6800.85	835.63	637.86	-707.82	952.82	312.02	3.98	3.95	-0.43	3
Velocity	7285	7218	87.25	346.07	N 13.9 W	89	6805.16	924.18	724.04	-729.62	1027.90	314.78	0.60	0.06	0.60	3
Velocity	7374	7307	87.79	346.46	N 13.5 W	89	6809.01	1012.69	810.41	-750.73	1104.70	317.19	0.75	0.61	0.44	3
Velocity	7463	7396	87.45	344.63	N 15.4 W	89	6812.71	1101.29	896.52	-772.92	1183.70	319.23	2.09	-0.38	-2.06	3
Velocity	7552	7485	87.79	344.80	N 15.2 W	89	6816.40	1190.00	982.29	-796.36	1264.55	320.97	0.43	0.38	0.19	3
Velocity	7641	7574	87.57	343.03	N 17.0 W	89	6820.01	1278.79	1067.74	-821.00	1346.89	322.44	2.00	-0.25	-1.99	3
Velocity	7730	7663	89.08	342.19	N 17.8 W	89	6822.61	1367.70	1152.63	-847.59	1430.72	323.67	1.94	1.70	-0.94	3
Velocity	7820	7753	89.45	341.89	N 18.1 W	90	6823.76	1457.67	1238.24	-875.34	1516.39	324.74	0.53	0.41	-0.33	3
Velocity	7909	7842	91.64	341.41	N 18.6 W	89	6822.92	1546.65	1322.70	-903.35	1601.75	325.67	2.52	2.46	-0.54	3
Velocity	7998	7931	91.95	340.81	N 19.2 W	89	6820.13	1635.60	1406.87	-932.15	1687.66	326.47	0.76	0.35	-0.67	3
Velocity	8087	8020	90.75	342.70	N 17.3 W	89	6818.03	1724.56	1491.36	-960.01	1773.63	327.23	2.51	-1.35	2.12	3
Velocity	8176	8109	90.75	342.86	N 17.1 W	89	6816.87	1813.49	1576.37	-986.35	1859.52	327.97	0.18	0.00	0.18	3
Velocity	8265	8198	89.22	344.17	N 15.8 W	89	6816.89	1902.38	1661.70	-1011.61	1945.41	328.67	2.26	-1.72	1.47	3
Velocity	8354	8287	89.07	343.99	N 16.0 W	89	6818.22	1991.22	1747.28	-1036.02	2031.33	329.33	0.26	-0.17	-0.20	3
Velocity	8443	8376	89.78	345.12	N 14.9 W	89	6819.11	2080.02	1833.06	-1059.72	2117.34	329.97	1.50	0.80	1.27	3
Velocity	8533	8466	90.18	345.75	N 14.3 W	90	6819.14	2169.72	1920.17	-1082.35	2204.21	330.59	0.83	0.44	0.70	3
Velocity	8623	8556	90.78	346.70	N 13.3 W	90	6818.39	2259.30	2007.57	-1103.78	2291.00	331.20	1.25	0.67	1.06	3
Velocity	8712	8645	90.73	346.24	N 13.8 W	89	6817.21	2347.85	2094.10	-1124.60	2376.96	331.76	0.52	-0.06	-0.52	3
Velocity	8801	8734	90.05	344.72	N 15.3 W	89	6816.61	2436.54	2180.25	-1146.91	2463.51	332.25	1.87	-0.76	-1.71	3
Velocity	8890	8823	90.36	345.56	N 14.4 W	89	6816.29	2525.27	2266.27	-1169.74	2550.35	332.70	1.01	0.35	0.94	3
Velocity	8980	8913	90.72	345.94	N 14.1 W	90	6815.44	2614.93	2353.50	-1191.89	2638.10	333.14	0.58	0.40	0.42	3
Velocity	9070	9003	90.27	345.26	N 14.7 W	90	6814.66	2704.60	2440.67	-1214.27	2726.04	333.55	0.91	-0.50	-0.76	3
Velocity	9159	9092	89.93	344.43	N 15.6 W	89	6814.51	2793.37	2526.57	-1237.54	2813.37	333.90	1.01	-0.38	-0.93	3
Velocity	9249	9182	89.84	344.83	N 15.2 W	90	6814.69	2883.16	2613.35	-1261.39	2901.85	334.23	0.46	-0.10	0.44	3
Velocity	9338	9271	89.84	344.85	N 15.2 W	89	6814.94	2971.93	2699.25	-1284.67	2989.37	334.55	0.02	0.00	0.02	3
Velocity	9427	9360	89.76	344.77	N 15.2 W	89	6815.25	3060.71	2785.14	-1307.99	3076.99	334.84	0.13	-0.09	-0.09	3
Velocity	9517	9450	89.90	345.53	N 14.5 W	90	6815.52	3150.44	2872.14	-1331.05	3165.57	335.14	0.86	0.16	0.84	3
Velocity	9607	9540	89.81	345.71	N 14.3 W	90	6815.74	3240.11	2959.32	-1353.40	3254.11	335.42	0.22	-0.10	0.20	3
Velocity	9698	9631	89.85	344.76	N 15.2 W	91	6816.01	3330.83	3047.31	-1376.59	3343.82	335.69	1.04	0.04	-1.04	3
Velocity	9787	9720	89.93	344.85	N 15.2 W	89	6816.18	3419.61	3133.20	-1399.92	3431.72	335.92	0.14	0.09	0.10	3

SM

Magnetic Declination: -7.73
 Grid Correction: 0.15
 Total Correction: -7.88
 North reference: Grid
 End Date: 01/09/22
 End Depth: 13347



Company: Jay-Bee Oil & Gas
 Well: Doc 7
 Location: Tyler Co., WV
 Rig: Precision 823
 API No: 47-095-02624-00-00
 Start Date: 12/30/21 Start Depth: 350

Job Number: 68753 Calculation Method: Minimum Curvature
 Magnetic Declination: -7.73 Proposed Azimuth: 340.74
 Grid Correction: 0.15 Depth Ref: RKB 1053 ft Plan # 1
 Total Correction: -7.88 Field: Marcellus
 North reference: Grid Location Lat/Long: 39.44914, -80.7682297
 End Date: 01/09/22 End Depth: 13347

Survey Tool Type	Bit Depth (ft)	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Local Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	Run #
									+N/-S (ft)	+E/-W (ft)	Distance (ft)	Angle (deg)				

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 WV Department of
 Environmental Protection
 AUG 23 2022