



Company: Jay Bee Oil & Gas  
 Well: P8N4U  
 Location: Pleasants Co., WV  
 Rig: Patterson 582  
 API No: 47-073-02570-00-00  
 Start Date: 03/04/22 Start Depth: 9254

Job Number: 69195 Calculation Method: Minimum Curvature  
 Magnetic Declination: -8.296 Proposed Azimuth: 334.11  
 Grid Correction: -1.031 Depth Ref: RKB 1084 ft Plan # 8  
 Total Correction: -7.265 Field: Utica  
 North reference: Grid Location Lat/Long: 39.3928348, -81.1162176  
 End Date: End Depth:

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)	Local Coordinates (+E/-W) (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	RUN #
TIP	9254.60	9254.60	9.40	135.50	S 44.5 E	0	9250.56	-24.15	-15.75	22.86	0	0	0	0	0	0
1st Svy	9435	9383	17.26	121.71	S 58.3 E	128	9375.43	-50.22	-33.27	46.46	57.14	125.61	6.56	6.12	-10.74	4
Velocity	9483	9431	20.43	114.92	S 65.1 E	48	9420.86	-62.73	-40.55	60.12	72.51	124.00	8.02	6.60	-14.15	4
Velocity	9530	9478	23.34	109.70	S 70.3 E	47	9464.47	-75.74	-47.15	76.33	89.71	121.70	7.44	6.19	-11.11	4
Velocity	9577	9525	23.01	99.13	S 80.9 E	47	9507.70	-87.67	-51.74	94.17	107.45	118.79	8.87	-0.70	-22.49	4
Velocity	9624	9572	23.78	88.43	N 88.4 E	47	9550.85	-96.85	-52.94	112.72	124.53	115.16	9.17	1.64	-22.77	4
Velocity	9672	9620	24.69	77.61	N 77.6 E	48	9594.64	-103.18	-50.52	132.20	141.52	110.92	9.43	1.90	-22.54	4
Velocity	9719	9667	25.60	66.79	N 66.8 E	47	9637.21	-105.94	-44.41	151.13	157.52	106.38	9.96	1.94	-23.02	4
Velocity	9767	9715	26.35	56.84	N 56.8 E	48	9680.38	-105.08	-34.49	169.58	173.06	101.50	9.20	1.56	-20.73	4
Velocity	9814	9762	27.07	46.74	N 46.7 E	47	9722.39	-100.57	-21.45	186.11	187.35	96.58	9.77	1.53	-21.49	4
Velocity	9862	9810	28.55	37.40	N 37.4 E	48	9764.87	-92.14	-4.85	201.04	201.10	91.38	9.58	3.08	-19.46	4
Velocity	9909	9857	30.40	28.01	N 28.0 E	47	9805.80	-80.08	14.59	213.46	213.95	86.09	10.58	3.94	-19.98	4
Velocity	9957	9905	32.98	20.36	N 20.4 E	48	9846.66	-63.88	37.57	223.71	226.84	80.47	9.94	5.38	-15.94	4
Velocity	10004	9952	35.64	15.17	N 15.2 E	47	9885.49	-44.70	62.79	231.75	240.10	74.84	8.41	5.66	-11.04	4
Velocity	10051	9999	38.06	9.32	N 9.3 E	47	9923.11	-22.53	90.31	237.68	254.26	69.19	9.06	5.15	-12.45	4
Velocity	10098	10046	41.62	5.63	N 5.6 E	47	9959.19	2.62	120.16	241.56	269.79	63.55	9.09	7.57	-7.85	4
Velocity	10146	10094	45.53	0.98	N 1.0 E	48	9993.97	31.51	153.17	243.42	287.60	57.82	10.53	8.15	-9.69	4
Velocity	10193	10141	49.08	357.43	N 2.6 W	47	10025.84	62.79	187.69	242.91	306.97	52.31	9.37	7.55	-7.55	4
Velocity	10241	10189	51.85	354.54	N 5.5 W	48	10056.40	97.14	224.61	240.30	328.92	46.93	7.41	5.77	-6.02	4
Velocity	10288	10236	54.59	350.41	N 9.6 W	47	10084.54	132.86	261.91	235.35	352.11	41.94	9.14	5.83	-8.79	4
Velocity	10336	10284	57.50	346.81	N 13.2 W	48	10111.36	171.39	300.92	227.47	377.22	37.09	8.69	6.06	-7.50	4
Velocity	10383	10331	60.09	344.97	N 15.0 W	47	10135.71	210.74	339.90	217.66	403.61	32.63	6.45	5.51	-3.91	4
Velocity	10431	10379	63.58	343.28	N 16.7 W	48	10158.36	252.41	380.59	206.08	432.80	28.43	7.91	7.27	-3.52	4
Velocity	10478	10426	66.55	342.07	N 17.9 W	47	10178.17	294.55	421.27	193.38	463.53	24.66	6.74	6.32	-2.57	4
Velocity	10526	10474	70.85	340.60	N 19.4 W	48	10195.61	338.90	463.62	179.06	497.00	21.12	9.40	8.96	-3.06	4
Velocity	10573	10521	74.86	339.20	N 20.8 W	47	10209.46	383.57	505.79	163.63	531.59	17.93	8.99	8.53	-2.98	4
Velocity	10621	10569	78.97	337.92	N 22.1 W	48	10220.32	430.18	549.29	146.54	568.50	14.94	8.95	8.56	-2.67	4
Velocity	10668	10616	83.05	336.24	N 23.8 W	47	10227.42	476.56	592.07	128.45	605.84	12.24	10.57	9.96	-3.57	4
Velocity	10716	10664	88.64	335.25	N 24.8 W	48	10230.65	524.42	635.72	108.78	644.96	9.71	10.60	10.40	-2.06	4
Velocity	10763	10711	93.12	334.48	N 25.5 W	47	10229.93	571.39	678.25	88.82	684.04	7.46	9.67	9.53	-1.64	4
Velocity	10811	10759	95.42	336.85	N 23.2 W	48	10226.35	619.24	721.86	69.10	725.16	5.47	6.87	4.79	4.94	4
Velocity	10858	10806	95.50	332.19	N 27.8 W	47	10221.88	666.01	764.08	48.98	765.65	3.67	9.87	0.17	-9.91	4
Velocity	10905	10853	94.66	331.40	N 28.6 W	47	10217.72	712.79	805.34	26.85	805.79	1.91	2.45	-1.79	-1.68	4
Velocity	11000	10948	95.08	330.52	N 29.5 W	95	10209.65	807.30	888.09	-19.10	888.30	358.77	1.02	0.44	-0.93	4
Velocity	11095	11043	94.99	327.45	N 32.6 W	95	10201.31	901.54	969.19	-67.85	971.56	356.00	3.22	-0.09	-3.23	4
Velocity	11190	11138	94.60	327.15	N 32.9 W	95	10193.37	995.54	1048.85	-118.99	1055.58	353.53	0.52	-0.41	-0.32	4
Velocity	11285	11233	93.00	330.55	N 29.5 W	95	10187.07	1089.92	1129.96	-168.02	1142.39	351.54	3.95	-1.68	3.58	4
Velocity	11381	11329	93.61	330.64	N 29.4 W	96	10181.54	1185.58	1213.46	-215.07	1232.37	349.95	0.64	0.64	0.09	4

Environmental Protection  
 WV Department of  
 Environmental Protection  
 Office of Oil and Gas  
 Raleigh, NC





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Velocity	11475	11423	94.08	326.88	N 33.1 W	94	10175.23	1278.94	1293.63	-263.70	1320.23	348.48	4.02	0.50	-4.00	4
Velocity	11570	11518	93.26	327.27	N 32.7 W	95	10169.15	1373.03	1373.21	-315.23	1408.93	347.07	0.96	-0.86	0.41	4
Velocity	11665	11613	92.92	332.13	N 27.9 W	95	10164.03	1467.58	1455.09	-363.08	1499.70	345.99	5.12	-0.36	5.12	4
Velocity	11760	11708	92.66	334.62	N 25.4 W	95	10159.40	1562.45	1539.91	-405.60	1592.43	345.24	2.63	-0.27	2.62	4
Velocity	11855	11803	93.30	335.45	N 24.6 W	95	10154.47	1657.31	1625.91	-445.64	1685.88	344.67	1.10	0.67	0.87	4
Velocity	11949	11897	88.85	332.89	N 27.1 W	94	10152.70	1751.26	1710.48	-486.58	1778.34	344.12	5.46	-4.73	-2.72	4
Velocity	12044	11992	91.18	332.87	N 27.1 W	95	10152.68	1846.24	1795.03	-529.88	1871.60	343.55	2.45	2.45	-0.02	4
Velocity	12139	12087	94.85	332.56	N 27.4 W	95	10147.68	1941.06	1879.32	-573.36	1964.84	343.03	3.88	3.86	-0.33	4
Velocity	12234	12182	95.79	332.04	N 28.0 W	95	10138.87	2035.60	1963.07	-617.33	2057.85	342.54	1.13	0.99	-0.55	4
Velocity	12328	12276	96.60	331.96	N 28.0 W	94	10128.73	2128.99	2045.58	-661.20	2149.79	342.09	0.87	0.86	-0.09	4
Velocity	12423	12371	94.62	331.76	N 28.2 W	95	10119.44	2223.46	2128.95	-705.79	2242.89	341.66	2.09	-2.08	-0.21	4
Velocity	12518	12466	92.29	332.00	N 28.0 W	95	10113.72	2318.20	2212.58	-750.48	2336.39	341.26	2.47	-2.45	0.25	4
Velocity	12613	12561	90.02	330.87	N 29.1 W	95	10111.80	2413.07	2295.99	-795.89	2430.02	340.88	2.67	-2.39	-1.19	4
Velocity	12708	12656	90.76	331.40	N 28.6 W	95	10111.16	2507.94	2379.18	-841.75	2523.70	340.52	0.96	0.78	0.56	4
Velocity	12802	12750	91.04	330.32	N 29.7 W	94	10109.68	2601.78	2461.28	-887.52	2616.40	340.17	1.19	0.30	-1.15	4
Velocity	12897	12845	91.78	328.98	N 31.0 W	95	10107.34	2696.46	2543.23	-935.51	2709.83	339.80	1.61	0.78	-1.41	4
Velocity	12991	12939	90.76	329.13	N 30.9 W	94	10105.26	2790.07	2623.83	-983.83	2802.21	339.45	1.10	-1.09	0.16	4
Velocity	13086	13034	90.04	330.81	N 29.2 W	95	10104.60	2884.82	2706.07	-1031.37	2895.95	339.14	1.92	-0.76	1.77	4
Velocity	13181	13129	91.35	332.64	N 27.4 W	95	10103.44	2979.72	2789.72	-1076.37	2990.17	338.90	2.37	1.38	1.93	4
Velocity	13276	13224	92.16	330.99	N 29.0 W	95	10100.53	3074.60	2873.42	-1121.21	3084.42	338.68	1.93	0.85	-1.74	4
Velocity	13370	13318	90.28	332.36	N 27.6 W	94	10098.53	3168.48	2956.14	-1165.80	3177.71	338.48	2.47	-2.00	1.46	4
Velocity	13465	13413	91.33	331.42	N 28.6 W	95	10097.20	3263.40	3039.92	-1210.55	3272.09	338.29	1.48	1.11	-0.99	4
Velocity	13558	13506	90.21	334.19	N 25.8 W	93	10095.95	3356.36	3122.62	-1253.05	3364.66	338.14	3.21	-1.20	2.98	4
Velocity	13653	13601	90.12	336.53	N 23.5 W	95	10095.67	3451.33	3208.97	-1292.65	3459.54	338.06	2.46	-0.09	2.46	4
Velocity	13747	13695	90.81	334.43	N 25.6 W	94	10094.91	3545.29	3294.48	-1331.66	3553.44	337.99	2.35	0.73	-2.23	4
Velocity	13842	13790	89.96	332.13	N 27.9 W	95	10094.27	3640.27	3379.33	-1374.37	3648.12	337.87	2.58	-0.89	-2.42	4
Velocity	13937	13885	90.33	331.01	N 29.0 W	95	10094.03	3735.18	3462.87	-1419.60	3742.56	337.71	1.24	0.39	-1.18	4
Velocity	14032	13980	88.53	332.80	N 27.2 W	95	10094.98	3830.09	3546.67	-1464.33	3837.07	337.57	2.67	-1.89	1.88	4
Velocity	14127	14075	88.65	332.54	N 27.5 W	95	10097.31	3925.03	3631.04	-1507.93	3931.70	337.45	0.30	0.13	-0.27	4
Velocity	14222	14170	90.24	332.47	N 27.5 W	95	10098.24	4019.99	3715.30	-1551.79	4026.35	337.33	1.68	1.67	-0.07	4
Velocity	14317	14265	90.13	331.85	N 28.2 W	95	10097.93	4114.93	3799.30	-1596.15	4120.97	337.21	0.66	-0.12	-0.65	4
Velocity	14411	14359	90.33	334.24	N 25.8 W	94	10097.55	4208.91	3883.08	-1638.76	4214.72	337.12	2.55	0.21	2.54	4
Velocity	14506	14454	90.65	335.62	N 24.4 W	95	10096.74	4303.89	3969.13	-1679.01	4309.65	337.07	1.49	0.34	1.45	4
Velocity	14601	14549	89.68	333.01	N 27.0 W	95	10096.46	4398.88	4054.73	-1720.18	4404.53	337.01	2.93	-1.02	-2.75	4
Velocity	14696	14644	88.79	329.87	N 30.1 W	95	10097.73	4493.76	4138.15	-1765.59	4499.07	336.89	3.44	-0.94	-3.31	4
Velocity	14791	14739	92.09	330.85	N 29.2 W	95	10097.00	4588.54	4220.71	-1812.56	4593.45	336.76	3.62	3.47	1.03	4
Velocity	14886	14834	90.82	330.38	N 29.6 W	95	10094.59	4683.33	4303.46	-1859.16	4687.88	336.63	1.43	-1.34	-0.49	4
Velocity	14980	14928	91.41	331.24	N 28.8 W	94	10092.76	4777.15	4385.50	-1905.00	4781.39	336.52	1.11	0.63	0.91	4
Velocity	15075	15023	89.81	328.50	N 31.5 W	95	10091.75	4871.88	4467.65	-1952.67	4875.74	336.39	3.34	-1.68	-2.88	4





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Velocity	15170	15118	90.13	327.84	N 32.2 W	95	10091.80	4966.37	4548.37	-2002.78	4969.78	336.23	0.77	0.34	-0.69	4
Velocity	15265	15213	91.52	328.60	N 31.4 W	95	10090.43	5060.85	4629.11	-2052.80	5063.86	336.08	1.67	1.46	0.80	4
Velocity	15360	15308	92.30	327.97	N 32.0 W	95	10087.27	5155.31	4709.88	-2102.72	5157.94	335.94	1.06	0.82	-0.66	4
Velocity	15455	15403	91.78	330.08	N 29.9 W	95	10083.88	5249.87	4791.28	-2151.57	5252.20	335.82	2.29	-0.55	2.22	4
Velocity	15550	15498	92.80	329.68	N 30.3 W	95	10080.09	5344.53	4873.38	-2199.21	5346.62	335.71	1.15	1.07	-0.42	4
Velocity	15645	15593	90.81	332.10	N 27.9 W	95	10077.10	5439.32	4956.33	-2245.39	5441.23	335.63	3.30	-2.09	2.55	4
Velocity	15739	15687	90.36	334.09	N 25.9 W	94	10076.14	5533.30	5040.15	-2287.93	5535.13	335.58	2.17	-0.48	2.12	4
Velocity	15834	15782	89.07	331.86	N 28.1 W	95	10076.61	5628.27	5124.77	-2331.09	5630.03	335.54	2.71	-1.36	-2.35	4
Velocity	15929	15877	90.02	332.13	N 27.9 W	95	10077.36	5723.20	5208.64	-2375.69	5724.84	335.48	1.04	1.00	0.28	4
Velocity	16024	15972	90.64	331.92	N 28.1 W	95	10076.82	5818.14	5292.54	-2420.25	5819.67	335.43	0.69	0.65	-0.22	4
Velocity	16119	16067	90.41	330.52	N 29.5 W	95	10075.95	5913.01	5375.80	-2465.99	5914.41	335.36	1.49	-0.24	-1.47	4
Velocity	16214	16162	89.75	330.44	N 29.6 W	95	10075.81	6007.82	5458.46	-2512.80	6009.07	335.28	0.70	-0.69	-0.08	4
Velocity	16308	16256	92.30	330.91	N 29.1 W	94	10074.13	6101.63	5540.40	-2558.82	6102.75	335.21	2.76	2.71	0.50	4
Velocity	16403	16351	91.32	332.29	N 27.7 W	95	10071.13	6196.49	5623.92	-2603.98	6197.52	335.15	1.78	-1.03	1.45	4
Velocity	16498	16446	90.52	334.15	N 25.9 W	95	10069.61	6291.46	5708.71	-2646.78	6292.45	335.13	2.13	-0.84	1.96	4
Velocity	16593	16541	91.19	333.66	N 26.3 W	95	10068.19	6386.44	5794.02	-2688.56	6387.41	335.11	0.87	0.71	-0.52	4
Velocity	16687	16635	90.44	334.12	N 25.9 W	94	10066.85	6480.43	5878.42	-2729.93	6481.38	335.09	0.94	-0.80	0.49	4
Velocity	16782	16730	91.52	334.20	N 25.8 W	95	10065.23	6575.42	5963.91	-2771.33	6576.35	335.08	1.14	1.14	0.08	4
Velocity	16876	16824	90.95	333.49	N 26.5 W	94	10063.20	6669.39	6048.26	-2812.75	6670.31	335.06	0.97	-0.61	-0.76	4
Velocity	16971	16919	90.41	333.14	N 26.9 W	95	10062.07	6764.38	6133.14	-2855.41	6765.26	335.03	0.68	-0.57	-0.37	4
Velocity	17066	17014	91.29	331.93	N 28.1 W	95	10060.66	6859.33	6217.42	-2899.22	6860.16	335.00	1.57	0.93	-1.27	4
Velocity	17161	17109	89.58	331.85	N 28.2 W	95	10059.94	6954.25	6301.21	-2943.98	6955.01	334.96	1.80	-1.80	-0.08	4
Velocity	17256	17204	90.96	332.79	N 27.2 W	95	10059.49	7049.20	6385.33	-2988.11	7049.91	334.92	1.76	1.45	0.99	4
Velocity	17351	17299	91.64	332.83	N 27.2 W	95	10057.34	7144.15	6469.81	-3031.50	7144.82	334.89	0.72	0.72	0.04	4
Velocity	17446	17394	90.73	330.84	N 29.2 W	95	10055.37	7239.05	6553.54	-3076.33	7239.66	334.85	2.30	-0.96	-2.09	4
Velocity	17541	17489	89.55	330.05	N 30.0 W	95	10055.14	7333.85	6636.17	-3123.19	7334.38	334.80	1.49	-1.24	-0.83	4
Velocity	17635	17583	91.13	331.57	N 28.4 W	94	10054.58	7427.69	6718.23	-3169.03	7428.15	334.75	2.33	1.68	1.62	4
Velocity	17730	17678	91.13	330.59	N 29.4 W	95	10052.71	7522.54	6801.37	-3214.96	7522.94	334.70	1.03	0.00	-1.03	4
Velocity	17825	17773	90.36	332.98	N 30.0 W	95	10051.48	7617.32	6883.87	-3262.05	7617.65	334.65	1.04	-0.82	-0.64	4
Velocity	17920	17868	91.92	330.66	N 29.3 W	95	10049.60	7712.09	6966.38	-3309.08	7712.36	334.59	1.80	1.65	0.72	4
Velocity	18015	17963	91.15	330.15	N 29.9 W	95	10047.06	7806.85	7048.96	-3355.98	7807.07	334.54	0.97	-0.81	-0.54	4
Velocity	18110	18058	89.76	329.45	N 30.6 W	95	10046.30	7901.58	7131.06	-3403.76	7901.75	334.48	1.64	-1.46	-0.74	4
Velocity	18205	18153	90.84	328.81	N 31.2 W	95	10045.81	7996.22	7212.60	-3452.51	7996.33	334.42	1.32	1.14	-0.67	4
Velocity	18300	18248	91.85	327.57	N 32.4 W	95	10043.58	8090.68	7293.30	-3502.56	8090.75	334.35	1.68	1.06	-1.31	4
Velocity	18395	18343	90.39	328.07	N 31.9 W	95	10041.72	8185.09	7373.69	-3553.15	8185.12	334.27	1.62	-1.54	0.53	4
Velocity	18490	18438	91.81	328.96	N 31.0 W	95	10039.89	8279.62	7454.69	-3602.75	8279.63	334.21	1.76	1.49	0.94	4
Velocity	18585	18533	91.04	328.96	N 31.0 W	95	10037.53	8374.20	7536.06	-3651.72	8374.20	334.15	0.81	-0.81	0.00	4
Velocity	18680	18628	90.93	330.99	N 29.0 W	95	10035.90	8468.94	7618.29	-3699.25	8468.94	334.10	2.14	-0.12	2.14	4
Velocity	18774	18722	90.25	333.61	N 26.4 W	94	10034.93	8562.87	7701.51	-3742.94	8562.88	334.08	2.88	-0.72	2.79	4

Environmental Protection

M.A.C. Office Of Oil and Gas





Company: Jay Bee Oil & Gas  
 Well: P8N4U  
 Location: Pleasants Co., WV  
 Rig: Patterson 582  
 API No: 47-073-02570-00-00  
 Start Date: 03/04/22 Start Depth: 9254

Job Number: 69195 Calculation Method: Minimum Curvature  
 Magnetic Declination: -8.296 Proposed Azimuth: 334.11  
 Grid Correction: -1.031 Depth Ref: RKB 1084 ft Plan # 8  
 Total Correction: -7.265 Field: Utica  
 North reference: Grid Location Lat/Long: 39.3928348, -81.1162176  
 End Date:                    End Depth                   

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)				
Velocity	18868	18816	88.53	333.09	N 26.9 W	94	10035.93	8656.86	7785.52	-3785.10	8656.86	334.07	1.91	-1.83	-0.55	4
Velocity	18963	18911	89.99	332.87	N 27.1 W	95	10037.16	8751.83	7870.14	-3828.25	8751.83	334.06	1.55	1.54	-0.23	4
Velocity	19058	19006	92.76	335.95	N 24.1 W	95	10034.88	8846.78	7955.77	-3869.26	8846.78	334.06	4.36	2.92	3.24	4
Velocity	19152	19100	93.87	335.13	N 24.9 W	94	10029.44	8940.59	8041.19	-3908.12	8940.59	334.08	1.47	1.18	-0.87	4
Velocity	19247	19195	90.96	333.61	N 26.4 W	95	10025.44	9035.49	8126.76	-3949.17	9035.49	334.08	3.46	-3.06	-1.60	4
Last Svy	19338	19286	90.44	334.56	N 25.4 W	91	10024.33	9126.48	8208.60	-3988.94	9126.48	334.08	1.19	-0.57	1.04	4

GAS REQUIRED  
 GAS