

Minimum Radius of Curvature

API: 42-389-41199 **Well:** Rev Pepper X State T8-52-12 A 101 Well **Wellhead Location:** Lat: 31.159419
Operator: Chevron **Area:** Delaware **Long:** -103.479316
Rig: Patterson 278 **Type:** U Lateral **Magnetic Declination:** 7.73
TD: 24,022' **Plane of Proposal:** 225.10

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
0.00	0.00	0.00		0.0	0.00	0.00	0.00	0.00	0.00			
200	0.27	230.08	200	200.0	0.47	-0.30	-0.36	0.47	230.08	0.14	0.14	115.04
234	0.51	208.59	34	234.0	0.69	-0.49	-0.50	0.69	225.50	0.81	0.71	-63.21
324	0.41	232.26	90	324.0	1.40	-1.04	-0.94	1.40	222.28	0.24	-0.11	26.30
424	1.22	354.39	100	424.0	1.08	-0.19	-1.33	1.34	261.65	1.48	0.81	122.13
522	3.21	338.82	98	521.9	-0.69	3.40	-2.42	4.18	324.55	2.10	2.03	-15.89
621	5.77	337.40	99	620.6	-3.69	10.58	-5.34	11.85	333.24	2.59	2.59	-1.43
713	7.64	344.35	92	712.0	-8.43	20.74	-8.76	22.52	337.10	2.21	2.03	7.55
803	10.20	353.45	90	800.9	-16.30	34.42	-11.29	36.23	341.85	3.24	2.84	10.11
895	10.52	356.02	92	891.4	-26.86	50.89	-12.80	52.48	345.88	0.61	0.35	2.79
987	10.70	359.02	92	981.8	-38.28	67.81	-13.53	69.15	348.72	0.63	0.20	3.26
1078	10.50	359.29	91	1071.3	-49.92	84.55	-13.78	85.66	350.75	0.23	-0.22	0.30
1172	10.95	352.99	94	1163.6	-61.38	101.98	-14.97	103.07	351.65	1.34	0.48	-6.70
1267	11.19	350.86	95	1256.8	-72.30	120.03	-17.54	121.31	351.69	0.50	0.25	-2.24
1362	11.43	346.34	95	1350.0	-82.57	138.28	-21.22	139.90	351.27	0.97	0.25	-4.76
1457	11.50	340.26	95	1443.1	-91.48	156.34	-26.65	158.60	350.33	1.27	0.07	-6.40
1551	11.77	341.91	94	1535.2	-99.79	174.27	-32.79	177.33	349.35	0.46	0.29	1.76
1645	12.43	342.05	94	1627.1	-108.70	193.01	-38.88	196.89	348.61	0.70	0.70	0.15
1675	12.63	342.89	30	1656.4	-111.69	199.22	-40.84	203.36	348.41	0.90	0.67	2.80
1803	13.83	347.99	128	1781.0	-126.52	227.56	-48.14	232.60	348.05	1.31	0.94	3.98
1898	13.29	345.55	95	1873.3	-138.22	249.24	-53.23	254.86	347.94	0.83	-0.57	-2.57
1993	13.20	342.79	95	1965.8	-148.80	270.17	-59.16	276.58	347.65	0.67	-0.09	-2.91
2088	13.47	341.63	95	2058.2	-158.78	291.04	-65.86	298.39	347.25	0.40	0.28	-1.22
2183	15.64	331.61	95	2150.2	-167.37	312.81	-75.44	321.78	346.44	3.49	2.28	-10.55
2276	17.29	328.57	93	2239.4	-174.15	335.63	-88.61	347.13	345.21	2.00	1.77	-3.27
2370	15.92	329.92	94	2329.5	-180.70	358.71	-102.35	373.02	344.07	1.51	-1.46	1.44
2464	18.15	331.83	94	2419.3	-188.21	382.77	-115.73	399.88	343.18	2.45	2.37	2.03
2557	20.58	333.74	93	2507.1	-197.61	410.20	-129.80	430.25	342.44	2.70	2.61	2.05
2652	21.80	333.30	95	2595.6	-208.45	440.94	-145.12	464.20	341.78	1.30	1.28	-0.46
2746	23.91	331.86	94	2682.3	-219.40	473.33	-161.94	500.27	341.11	2.32	2.24	-1.53
2841	25.57	333.00	95	2768.5	-231.25	508.58	-180.33	539.60	340.48	1.82	1.75	1.20
2936	25.29	336.29	95	2854.3	-244.89	545.43	-197.80	580.19	340.07	1.52	-0.29	3.46
3030	24.43	338.44	94	2939.6	-259.85	581.89	-213.02	619.66	339.89	1.33	-0.91	2.29
3124	23.51	336.00	94	3025.5	-274.24	617.10	-227.79	657.80	339.74	1.44	-0.98	-2.60
3219	23.61	334.68	95	3112.6	-287.38	651.60	-243.63	695.66	339.50	0.57	0.11	-1.39
3313	23.59	330.58	94	3198.8	-298.70	685.01	-260.92	733.02	339.15	1.75	-0.02	-4.36
3407	24.19	328.15	94	3284.7	-308.07	717.75	-280.32	770.55	338.67	1.23	0.64	-2.59
3502	24.54	334.25	95	3371.3	-318.94	752.06	-299.17	809.38	338.31	2.67	0.37	6.42
3598	22.92	332.60	96	3459.1	-331.10	786.61	-316.43	847.87	338.09	1.82	-1.69	-1.72
3693	18.79	323.51	95	3547.9	-338.91	815.36	-334.06	881.14	337.72	5.51	-4.35	-9.57
3787	20.80	329.85	94	3636.4	-345.37	841.97	-351.45	912.37	337.34	3.13	2.14	6.74
3882	21.29	327.90	95	3725.0	-353.49	871.16	-369.08	946.12	337.04	0.90	0.52	-2.05
3977	22.01	333.22	95	3813.3	-362.85	901.67	-386.27	980.92	336.81	2.20	0.76	5.60
4071	21.28	336.16	94	3900.7	-374.46	933.00	-401.10	1015.56	336.74	1.39	-0.78	3.13
4166	20.21	336.34	95	3989.5	-386.60	963.79	-414.66	1049.21	336.72	1.13	-1.13	0.19
4261	22.23	333.98	95	4078.1	-398.36	994.98	-429.13	1083.57	336.67	2.31	2.13	-2.48
4356	21.70	332.76	95	4166.2	-409.50	1026.74	-445.05	1119.05	336.57	0.74	-0.56	-1.28
4451	20.66	333.96	95	4254.8	-420.25	1057.42	-460.45	1153.32	336.47	1.19	-1.09	1.26
4546	22.65	335.11	95	4343.1	-431.93	1089.07	-475.50	1188.35	336.41	2.14	2.09	1.21
4640	22.86	336.01	94	4429.8	-444.64	1122.17	-490.55	1224.70	336.39	0.43	0.22	0.96
4735	19.63	335.00	95	4518.3	-456.66	1153.50	-504.80	1259.12	336.36	3.42	-3.40	-1.06
4830	20.58	331.45	95	4607.5	-466.79	1182.63	-519.52	1291.71	336.28	1.63	1.00	-3.74
4926	23.12	329.95	96	4696.6	-476.37	1213.77	-537.03	1327.27	336.13	2.71	2.65	-1.56
5020	21.99	334.78	94	4783.4	-487.03	1245.67	-553.77	1363.21	336.03	2.31	-1.20	5.14
5115	22.05	338.24	95	4871.5	-500.03	1278.32	-567.96	1398.82	336.04	1.37	0.06	3.64
5210	21.02	337.45	95	4959.9	-513.51	1310.62	-581.10	1433.67	336.09	1.13	-1.08	-0.83
5304	21.20	338.24	94	5047.6	-526.60	1341.98	-593.87	1467.51	336.13	0.36	0.19	0.84
5397	21.99	340.19	93	5134.0	-540.59	1373.98	-606.00	1501.68	336.20	1.15	0.85	2.10

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
5492	21.72	339.68	95	5222.2	-555.45	1407.20	-618.14	1536.97	336.29	0.35	-0.28	-0.54
5587	21.59	339.18	95	5310.5	-569.89	1440.02	-630.45	1571.98	336.36	0.24	-0.14	-0.53
5681	20.89	339.18	94	5398.1	-583.79	1471.85	-642.56	1605.99	336.42	0.74	-0.74	0.00
5776	20.62	338.65	95	5486.9	-597.38	1503.26	-654.67	1639.63	336.47	0.35	-0.28	-0.56
5871	19.32	337.42	95	5576.2	-610.03	1533.35	-666.79	1672.06	336.50	1.44	-1.37	-1.29
5965	17.27	335.56	94	5665.5	-620.82	1560.41	-678.54	1701.56	336.50	2.27	-2.18	-1.98
6059	17.26	334.24	94	5755.2	-630.27	1585.68	-690.37	1729.44	336.47	0.42	-0.01	-1.40
6153	15.72	338.06	94	5845.4	-639.81	1610.05	-701.19	1756.11	336.47	2.00	-1.64	4.06
6247	12.04	342.51	94	5936.6	-649.29	1631.22	-708.90	1778.60	336.51	4.07	-3.91	4.73
6341	10.36	340.45	94	6028.8	-657.42	1648.54	-714.67	1796.78	336.56	1.84	-1.79	-2.19
6436	8.52	337.65	95	6122.5	-663.78	1663.10	-720.21	1812.34	336.58	2.00	-1.94	-2.95
6531	7.86	336.55	95	6216.6	-668.86	1675.56	-725.47	1825.87	336.59	0.71	-0.69	-1.16
6626	7.60	332.80	95	6310.7	-673.14	1687.11	-730.92	1838.64	336.58	0.60	-0.27	-3.95
6720	5.37	334.89	94	6404.1	-676.52	1696.62	-735.63	1849.24	336.56	2.39	-2.37	2.22
6816	4.38	330.32	96	6499.7	-679.00	1703.88	-739.35	1857.37	336.54	1.11	-1.03	-4.76
6911	4.23	325.31	95	6594.5	-680.58	1709.91	-743.14	1864.42	336.51	0.43	-0.16	-5.27
7006	1.77	321.07	95	6689.3	-681.35	1713.93	-746.06	1869.27	336.48	2.60	-2.59	-4.46
7100	0.73	337.45	94	6783.3	-681.73	1715.61	-747.20	1871.27	336.47	1.16	-1.11	17.43
7195	0.71	358.16	95	6878.3	-682.36	1716.76	-747.45	1872.42	336.47	0.27	-0.02	21.80
7289	0.62	356.35	94	6972.3	-683.09	1717.85	-747.51	1873.44	336.48	0.10	-0.10	-1.93
7384	0.80	4.04	95	7067.3	-683.93	1719.03	-747.49	1874.51	336.50	0.21	0.19	-370.85
7479	1.03	347.31	95	7162.3	-684.89	1720.52	-747.63	1875.94	336.51	0.37	0.24	361.34
7574	0.91	340.03	95	7257.3	-685.66	1722.06	-748.08	1877.53	336.52	0.18	-0.13	-7.66
7668	0.56	0.50	94	7351.3	-686.30	1723.22	-748.33	1878.69	336.53	0.46	-0.37	-361.20
7856	0.82	18.82	188	7539.3	-688.16	1725.42	-747.89	1880.53	336.57	0.18	0.14	9.74
8046	1.60	4.30	190	7729.2	-691.39	1729.35	-747.25	1883.88	336.63	0.44	0.41	-7.64
8140	0.62	253.66	94	7823.2	-691.94	1730.51	-747.64	1885.11	336.63	2.03	-1.04	265.28
8235	0.54	243.71	95	7918.2	-691.06	1730.17	-748.53	1885.15	336.60	0.14	-0.08	-10.47
8329	0.34	226.34	94	8012.2	-690.36	1729.78	-749.13	1885.03	336.58	0.25	-0.21	-18.48
8425	0.08	92.79	96	8108.2	-690.12	1729.58	-749.27	1884.90	336.58	0.42	-0.27	-139.11
8519	0.11	162.35	94	8202.2	-690.13	1729.49	-749.18	1884.78	336.58	0.12	0.03	74.00
8613	1.01	105.89	94	8296.2	-690.49	1729.18	-748.35	1884.17	336.60	1.01	0.96	-60.06
8707	0.82	65.70	94	8390.2	-691.52	1729.23	-746.94	1883.66	336.64	0.70	-0.20	-42.76
8800	1.70	67.11	93	8483.1	-693.43	1730.04	-745.07	1883.66	336.70	0.95	0.95	1.52
8894	1.77	40.38	94	8577.1	-696.16	1731.69	-742.84	1884.29	336.78	0.86	0.07	-28.44
8989	1.96	354.25	95	8672.1	-698.65	1734.42	-742.05	1886.50	336.84	1.55	0.20	330.39
9082	0.44	8.20	93	8765.0	-699.94	1736.36	-742.16	1888.32	336.86	1.65	-1.63	-372.10
9177	3.31	203.06	95	8860.0	-697.69	1734.19	-743.18	1886.73	336.80	3.93	3.02	205.12
9198	4.44	207.62	21	8880.9	-696.35	1732.92	-743.80	1885.80	336.77	5.57	5.38	21.71
9305	5.89	191.01	107	8987.5	-687.86	1723.86	-746.77	1878.66	336.58	1.93	1.36	-15.52
9398	16.27	211.08	93	9078.7	-671.21	1707.97	-754.43	1867.17	336.17	11.74	11.16	21.58
9493	25.40	221.33	95	9167.4	-637.89	1681.21	-774.80	1851.15	335.26	10.31	9.61	10.79
9586	35.71	222.50	93	9247.4	-590.75	1646.12	-806.40	1833.03	333.90	11.10	11.09	1.26
9680	44.06	220.34	94	9319.5	-530.66	1600.90	-846.16	1810.77	332.14	9.00	8.88	-2.30
9773	54.45	220.52	93	9380.1	-460.53	1547.35	-891.80	1785.94	330.04	11.17	11.17	0.19
9867	62.04	221.45	94	9429.5	-380.87	1487.07	-944.20	1761.51	327.59	8.12	8.07	0.99
9961	71.78	220.76	94	9466.3	-294.71	1421.98	-1000.97	1738.96	324.86	10.38	10.36	-0.73
10056	82.62	219.23	95	9487.3	-202.59	1351.10	-1060.40	1717.53	321.87	11.52	11.41	-1.61
10150	88.52	218.16	94	9494.6	-109.49	1277.99	-1118.96	1698.62	318.80	6.38	6.28	-1.14
10243	90.20	218.25	93	9495.6	-17.18	1204.92	-1176.47	1684.02	315.68	1.81	1.81	0.10
10336	90.09	218.25	93	9495.4	75.16	1131.88	-1234.05	1674.52	312.53	0.12	-0.12	0.00
10431	90.01	218.26	95	9495.3	169.48	1057.28	-1292.87	1670.13	309.28	0.08	-0.08	0.01
10524	89.95	218.09	93	9495.4	261.80	984.17	-1350.35	1670.94	306.09	0.19	-0.06	-0.18
10617	89.81	219.16	93	9495.5	354.21	911.52	-1408.40	1677.63	302.91	1.16	-0.15	1.15
10711	89.68	219.66	94	9496.0	447.75	838.89	-1468.07	1690.85	299.74	0.55	-0.14	0.53
10806	90.24	220.59	95	9496.0	542.39	766.25	-1529.30	1710.52	296.61	1.14	0.59	0.98
10899	89.90	220.26	93	9495.9	635.08	695.46	-1589.60	1735.08	293.63	0.51	-0.37	-0.35
10994	89.98	220.26	95	9496.0	729.74	622.96	-1651.00	1764.62	290.67	0.08	0.08	0.00

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11088	89.90	220.39	94	9496.1	823.41	551.30	-1711.83	1798.41	287.85	0.16	-0.09	0.14
11183	90.40	220.85	95	9495.9	918.12	479.19	-1773.67	1837.26	285.12	0.72	0.53	0.48
11278	91.10	221.36	95	9494.6	1012.88	407.61	-1836.13	1880.83	282.52	0.91	0.74	0.54
11372	93.46	222.40	94	9490.9	1106.65	337.68	-1898.82	1928.61	280.08	2.74	2.51	1.11
11466	92.05	220.34	94	9486.4	1200.33	267.23	-1960.87	1979.00	277.76	2.65	-1.50	-2.19
11560	90.71	220.80	94	9484.1	1294.01	195.85	-2021.99	2031.45	275.53	1.51	-1.43	0.49
11654	89.93	220.55	94	9483.6	1387.73	124.56	-2083.25	2086.97	273.42	0.87	-0.83	-0.27
11749	89.95	220.63	95	9483.7	1482.43	52.42	-2145.06	2145.70	271.40	0.09	0.02	0.08
11843	89.98	220.53	94	9483.7	1576.14	-18.98	-2206.21	2206.29	269.51	0.11	0.03	-0.11
11937	89.79	220.46	94	9483.9	1669.84	-90.46	-2267.25	2269.06	267.72	0.22	-0.20	-0.07
12031	90.01	220.62	94	9484.1	1763.54	-161.90	-2328.35	2333.97	266.02	0.29	0.23	0.17
12125	90.79	220.58	94	9483.4	1857.25	-233.26	-2389.52	2400.88	264.42	0.83	0.83	-0.04
12219	92.06	221.68	94	9481.1	1950.99	-304.04	-2451.33	2470.11	262.93	1.79	1.35	1.17
12314	89.56	220.71	95	9479.7	2045.75	-375.51	-2513.89	2541.78	261.50	2.82	-2.63	-1.02
12408	90.26	221.13	94	9479.9	2139.50	-446.54	-2575.46	2613.88	260.16	0.87	0.74	0.45
12502	89.70	220.43	94	9479.9	2233.23	-517.72	-2636.85	2687.20	258.89	0.95	-0.60	-0.74
12595	89.23	220.31	93	9480.8	2325.91	-588.57	-2697.09	2760.56	257.69	0.52	-0.51	-0.13
12689	89.73	220.74	94	9481.7	2419.61	-660.02	-2758.16	2836.04	256.54	0.70	0.53	0.46
12783	89.53	222.01	94	9482.3	2513.40	-730.55	-2820.29	2913.38	255.48	1.37	-0.21	1.35
12877	89.81	222.85	94	9482.8	2607.30	-799.93	-2883.71	2992.61	254.50	0.94	0.30	0.89
12971	90.15	222.97	94	9482.8	2701.23	-868.78	-2947.71	3073.08	253.58	0.38	0.36	0.13
13065	89.98	222.30	94	9482.7	2795.14	-937.94	-3011.38	3154.07	252.70	0.74	-0.18	-0.71
13160	89.79	222.56	95	9482.9	2890.04	-1008.06	-3075.48	3236.47	251.85	0.34	-0.20	0.27
13254	89.31	222.63	94	9483.7	2983.95	-1077.25	-3139.09	3318.79	251.06	0.52	-0.51	0.07
13348	89.73	222.90	94	9484.4	3077.87	-1146.26	-3202.92	3401.85	250.31	0.53	0.45	0.29
13443	88.95	222.78	95	9485.5	3172.78	-1215.91	-3267.51	3486.41	249.59	0.83	-0.82	-0.13
13538	88.89	222.50	95	9487.3	3267.68	-1285.78	-3331.85	3571.34	248.90	0.30	-0.06	-0.29
13632	88.97	222.80	94	9489.1	3361.58	-1354.91	-3395.52	3655.87	248.25	0.33	0.09	0.32
13727	89.09	222.76	95	9490.7	3456.49	-1424.63	-3460.04	3741.85	247.62	0.13	0.13	-0.04
13821	90.57	223.32	94	9491.0	3550.42	-1493.33	-3524.19	3827.53	247.04	1.68	1.57	0.60
13916	89.73	223.03	95	9490.7	3645.37	-1562.61	-3589.19	3914.59	246.47	0.94	-0.88	-0.31
14010	90.18	222.98	94	9490.8	3739.30	-1631.35	-3653.31	4000.99	245.94	0.48	0.48	-0.05
14200	89.98	222.74	190	9490.5	3929.16	-1770.62	-3782.55	4176.45	244.92	0.16	-0.11	-0.13
14294	89.59	222.93	94	9490.9	4023.08	-1839.55	-3846.45	4263.70	244.44	0.46	-0.41	0.20
14389	89.76	222.92	95	9491.4	4118.01	-1909.11	-3911.15	4352.22	243.98	0.18	0.18	-0.01
14572	87.10	222.52	183	9496.4	4300.77	-2043.50	-4035.24	4523.17	243.14	1.47	-1.45	-0.22
14664	88.98	222.70	92	9499.6	4392.63	-2111.16	-4097.49	4609.39	242.74	2.05	2.04	0.20
14757	89.37	223.31	93	9500.9	4485.55	-2179.17	-4160.91	4697.02	242.36	0.78	0.42	0.66
14940	90.66	223.83	183	9500.9	4668.48	-2311.75	-4287.04	4870.62	241.66	0.76	0.70	0.28
15126	89.42	222.52	186	9500.7	4854.37	-2447.39	-4414.30	5047.36	241.00	0.97	-0.67	-0.70
15308	88.95	221.59	182	9503.3	5036.09	-2582.51	-4536.20	5219.82	240.35	0.57	-0.26	-0.51
15401	89.28	222.78	93	9504.8	5128.96	-2651.41	-4598.64	5308.25	240.03	1.33	0.35	1.28
15493	89.40	223.63	92	9505.8	5220.90	-2718.47	-4661.62	5396.37	239.75	0.93	0.13	0.92
15586	89.34	225.27	93	9506.9	5313.89	-2784.85	-4726.74	5486.12	239.49	1.76	-0.06	1.76
15677	89.68	227.18	91	9507.6	5404.86	-2847.80	-4792.45	5574.72	239.28	2.13	0.37	2.10
15769	91.02	227.02	92	9507.1	5496.80	-2910.43	-4859.84	5664.68	239.08	1.47	1.46	-0.17
15861	89.20	228.67	92	9506.9	5588.69	-2972.17	-4928.04	5754.94	238.91	2.67	-1.98	1.79
15953	87.32	227.05	92	9509.7	5680.53	-3033.86	-4996.22	5845.21	238.73	2.70	-2.04	-1.76
16045	90.29	227.55	92	9511.6	5772.44	-3096.23	-5063.81	5935.38	238.56	3.27	3.23	0.54
16138	89.51	227.39	93	9511.8	5865.36	-3159.09	-5132.34	6026.67	238.39	0.86	-0.84	-0.17
16230	89.68	226.42	92	9512.4	5957.31	-3221.95	-5199.52	6116.86	238.22	1.07	0.18	-1.05
16325	91.10	226.68	95	9511.8	6052.27	-3287.28	-5268.48	6209.92	238.04	1.52	1.49	0.27
16420	89.34	225.33	95	9511.4	6147.25	-3353.26	-5336.82	6302.86	237.86	2.33	-1.85	-1.42
16515	89.28	225.15	95	9512.5	6242.25	-3420.15	-5404.27	6395.59	237.67	0.20	-0.06	-0.19
16610	89.31	225.59	95	9513.7	6337.24	-3486.88	-5471.87	6488.43	237.49	0.46	0.03	0.46
16704	89.79	225.34	94	9514.5	6431.23	-3552.81	-5538.88	6580.39	237.32	0.58	0.51	-0.27
16798	90.82	226.23	94	9514.0	6525.22	-3618.35	-5606.25	6672.52	237.16	1.45	1.10	0.95
16892	90.74	226.36	94	9512.7	6619.19	-3683.30	-5674.19	6764.85	237.01	0.16	-0.09	0.14

Minimum Radius of Curvature

API: 42-389-41199 **Well:** Rev Pepper X State T8-52-12 A 101 Wellhead Location **Lat:** 31.159419
Operator: Chevron **Area:** Delaware **Long:** -103.479316
Rig: Patterson 278 **Type:** U Lateral **Magnetic Declination:** 7.73
TD: 24,022' **Plane of Proposal:** 225.10

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
16985	90.77	226.63	93	9511.4	6712.16	-3747.31	-5741.64	6856.30	236.87	0.29	0.03	0.29
17078	90.52	226.05	93	9510.4	6805.13	-3811.52	-5808.92	6947.75	236.73	0.68	-0.27	-0.62
17172	90.74	226.33	94	9509.4	6899.11	-3876.58	-5876.75	7040.18	236.59	0.38	0.23	0.30
17265	89.34	225.72	93	9509.3	6992.09	-3941.16	-5943.67	7131.62	236.45	1.64	-1.51	-0.66
17359	89.70	225.54	94	9510.1	7086.08	-4006.89	-6010.87	7223.96	236.31	0.43	0.38	-0.19
17453	90.99	226.91	94	9509.5	7180.06	-4071.92	-6078.73	7316.52	236.18	2.00	1.37	1.46
17547	90.54	226.49	94	9508.3	7274.01	-4136.38	-6147.14	7409.25	236.06	0.65	-0.48	-0.45
17641	89.73	225.56	94	9508.0	7368.00	-4201.64	-6214.78	7501.82	235.94	1.31	-0.86	-0.99
17735	89.34	225.11	94	9508.8	7462.00	-4267.72	-6281.64	7594.23	235.81	0.63	-0.41	-0.48
17828	90.07	225.83	93	9509.3	7554.99	-4332.94	-6347.93	7685.74	235.68	1.10	0.78	0.77
17922	89.68	226.02	94	9509.5	7648.98	-4398.32	-6415.47	7778.40	235.57	0.46	-0.41	0.20
18016	89.34	223.68	94	9510.3	7742.97	-4464.96	-6481.75	7870.77	235.44	2.52	-0.36	-2.49
18110	88.58	219.78	94	9512.0	7836.77	-4535.08	-6544.30	7962.09	235.28	4.23	-0.81	-4.15
18205	90.01	226.04	95	9513.2	7931.65	-4604.62	-6608.94	8054.85	235.13	6.76	1.51	6.59
18300	91.10	233.35	95	9512.3	8026.27	-4666.03	-6681.33	8149.36	235.07	7.78	1.15	7.69
18393	89.76	240.92	93	9511.6	8117.16	-4716.45	-6759.39	8242.23	235.09	8.27	-1.44	8.14
18488	90.91	251.46	95	9511.0	8205.66	-4754.75	-6846.18	8335.34	235.22	11.16	1.21	11.09
18583	90.52	253.63	95	9509.8	8289.96	-4783.24	-6936.79	8426.06	235.41	2.32	-0.41	2.28
18677	87.88	259.71	94	9511.1	8370.00	-4804.90	-7028.20	8513.68	235.64	7.05	-2.81	6.47
18772	88.61	268.12	95	9514.0	8443.92	-4814.96	-7122.53	8597.34	235.94	8.88	0.77	8.85
18867	90.43	275.03	95	9514.8	8509.30	-4812.35	-7217.43	8674.68	236.31	7.52	1.92	7.27
18962	89.59	280.96	95	9514.8	8566.58	-4799.14	-7311.47	8745.82	236.72	6.30	-0.88	6.24
19056	89.20	284.54	94	9515.8	8616.87	-4778.40	-7403.13	8811.32	237.16	3.83	-0.41	3.81
19150	89.87	288.21	94	9516.6	8662.04	-4751.90	-7493.30	8873.00	237.62	3.97	0.71	3.90
19245	90.07	291.80	95	9516.6	8702.32	-4719.41	-7582.55	8931.29	238.10	3.78	0.21	3.78
19339	90.32	295.89	94	9516.3	8736.39	-4681.42	-7668.51	8984.52	238.60	4.36	0.27	4.35
19434	90.21	300.16	95	9515.9	8764.28	-4636.79	-7752.35	9033.20	239.12	4.50	-0.12	4.49
19528	89.84	303.98	94	9515.8	8785.47	-4586.89	-7831.99	9076.32	239.64	4.08	-0.39	4.06
19623	89.56	310.36	95	9516.3	8798.57	-4529.53	-7907.65	9113.04	240.20	6.72	-0.29	6.72
19717	89.11	318.53	94	9517.4	8799.64	-4463.76	-7974.70	9138.98	240.76	8.70	-0.48	8.69
19812	89.03	326.73	95	9519.0	8787.20	-4388.34	-8032.30	9152.89	241.35	8.63	-0.08	8.63
19907	90.15	335.61	95	9519.6	8760.93	-4305.20	-8078.06	9153.68	241.94	9.42	1.18	9.35
20001	90.04	343.83	94	9519.5	8721.81	-4217.10	-8110.62	9141.45	242.53	8.75	-0.12	8.74
20096	89.54	350.31	95	9519.8	8671.53	-4124.56	-8131.86	9118.07	243.11	6.84	-0.53	6.82
20190	90.18	357.25	94	9520.1	8612.82	-4031.17	-8142.04	9085.33	243.66	7.41	0.68	7.38
20285	92.06	4.81	95	9518.2	8544.63	-3936.28	-8140.34	9042.09	244.19	8.20	1.98	-370.99
20380	90.71	8.46	95	9515.9	8470.28	-3841.96	-8129.36	8991.51	244.70	4.10	-1.42	3.84
20475	87.38	10.70	95	9517.5	8392.99	-3748.32	-8113.56	8937.55	245.20	4.22	-3.51	2.36
20570	90.66	19.14	95	9519.1	8310.96	-3656.63	-8089.13	8877.21	245.67	9.53	3.45	8.88
20665	91.44	24.73	95	9517.4	8223.67	-3568.56	-8053.66	8808.86	246.10	5.94	0.82	5.88
20760	90.46	28.06	95	9515.8	8133.72	-3483.49	-8011.44	8736.01	246.50	3.65	-1.03	3.51
20855	89.93	31.77	95	9515.5	8042.05	-3401.16	-7964.07	8659.92	246.87	3.94	-0.56	3.91
20950	88.30	35.39	95	9516.9	7948.99	-3322.04	-7911.54	8580.70	247.22	4.18	-1.72	3.81
21045	87.04	38.66	95	9520.8	7855.03	-3246.27	-7854.39	8498.81	247.54	3.69	-1.33	3.44
21140	88.67	44.34	95	9524.4	7760.32	-3175.20	-7791.51	8413.65	247.83	6.22	1.72	5.98
21235	89.56	46.05	95	9525.8	7665.34	-3108.27	-7724.12	8326.07	248.08	2.03	0.94	1.80
21330	90.77	43.71	95	9525.6	7570.35	-3040.96	-7657.09	8238.84	248.34	2.77	1.27	-2.46
21424	89.23	42.02	94	9525.6	7476.43	-2972.06	-7593.15	8154.09	248.62	2.43	-1.64	-1.80
21517	90.07	43.47	93	9526.1	7383.51	-2903.77	-7530.03	8070.52	248.91	1.80	0.90	1.56
21612	89.73	42.15	95	9526.3	7288.59	-2834.08	-7465.48	7985.32	249.21	1.43	-0.36	-1.39
21707	90.85	45.29	95	9525.8	7193.63	-2765.43	-7399.83	7899.69	249.51	3.51	1.18	3.31
21802	90.32	45.49	95	9524.8	7098.64	-2698.72	-7332.20	7813.08	249.79	0.60	-0.56	0.21
21896	89.70	44.84	94	9524.8	7004.64	-2632.44	-7265.54	7727.73	250.08	0.96	-0.66	-0.69
21991	88.02	43.28	95	9526.7	6909.68	-2564.19	-7199.50	7642.50	250.40	2.41	-1.77	-1.64
22086	88.66	43.87	95	9529.5	6814.75	-2495.40	-7134.04	7557.88	250.72	0.92	0.67	0.62
22181	90.15	45.81	95	9530.5	6719.77	-2428.04	-7067.06	7472.53	251.04	2.57	1.57	2.04
22276	90.91	46.66	95	9529.6	6624.79	-2362.33	-6998.46	7386.41	251.35	1.20	0.80	0.89
22371	89.31	45.12	95	9529.4	6529.81	-2296.21	-6930.25	7300.75	251.67	2.34	-1.68	-1.62

Minimum Radius of Curvature

API: 42-389-41199 **Well:** Rev Pepper X State T8-52-12 A 101 Wellhead Location **Lat:** 31.159419
Operator: Chevron **Area:** Delaware **Long:** -103.479316
Rig: Patterson 278 **Type:** U Lateral **Magnetic Declination:** 7.73
TD: 24,022' **Plane of Proposal:** 225.10

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
22561	90.49	45.03	190	9529.7	6339.81	-2162.04	-6795.73	7131.36	252.35	0.62	0.62	-0.05
22656	91.97	45.51	95	9527.7	6244.84	-2095.20	-6728.26	7046.93	252.70	1.64	1.56	0.51
22751	90.18	44.33	95	9525.9	6149.86	-2027.95	-6661.19	6963.05	253.07	2.26	-1.88	-1.24
22846	87.07	42.79	95	9528.2	6054.93	-1959.14	-6595.75	6880.56	253.46	3.65	-3.27	-1.62
22941	87.72	42.93	95	9532.5	5960.11	-1889.57	-6531.20	6799.05	253.86	0.70	0.68	0.15
23036	89.12	44.58	95	9535.1	5865.17	-1820.99	-6465.53	6717.07	254.27	2.28	1.47	1.74
23131	89.21	44.96	95	9536.5	5770.19	-1753.55	-6398.63	6634.56	254.67	0.41	0.09	0.40
23226	89.99	46.83	95	9537.2	5675.20	-1687.44	-6330.42	6551.46	255.07	2.13	0.82	1.97
23321	90.10	47.13	95	9537.1	5580.25	-1622.62	-6260.96	6467.81	255.47	0.34	0.12	0.32
23415	91.59	46.62	94	9535.7	5486.31	-1558.37	-6192.37	6385.45	255.87	1.68	1.59	-0.54
23509	90.47	47.12	94	9534.0	5392.37	-1494.12	-6123.78	6303.41	256.29	1.30	-1.19	0.53
23603	88.90	45.09	94	9534.5	5298.40	-1428.95	-6056.05	6222.35	256.72	2.73	-1.67	-2.16
23698	89.35	46.44	95	9536.0	5203.42	-1362.69	-5987.99	6141.09	257.18	1.50	0.47	1.42
23887	89.85	46.57	189	9537.3	5014.48	-1232.61	-5850.89	5979.31	258.10	0.27	0.26	0.07
23989	90.41	46.57	102	9537.1	4912.51	-1162.49	-5776.81	5892.62	258.62	0.55	0.55	0.00
24022	90.41	46.57	33	9536.8	4879.52	-1139.80	-5752.85	5864.67	258.79	0.00	0.00	0.00