

Minimum Radius of Curvature

API: 42-461-42517 **Well: Allison 7-1280 B 22BU** **Wellhead Location** **Lat: 31.319981**
Operator: Vital Energy **Area: Midland** **Long: -101.869514**
Rig: H&P 462 **Type: U Lateral** **Magnetic Declination: 5.36**
TD: 23,258' **Plane of Proposal: 0.00**

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			
26	0.00	360.00	26	26.0	0.00	0.00	0.00	0.00	#DIV/0!	0.00		
114	0.30	83.20	88	114.0	0.03	0.03	0.23	0.23	83.20	0.34	0.34	-314.55
144	0.20	105.20	30	144.0	0.02	0.02	0.36	0.36	86.34	0.46	-0.33	73.33
172	0.30	167.20	28	172.0	-0.06	-0.06	0.42	0.43	98.31	0.97	0.36	221.43
202	0.60	132.20	30	202.0	-0.24	-0.24	0.55	0.61	113.71	1.31	1.00	-116.67
289	0.70	117.20	87	289.0	-0.79	-0.79	1.36	1.58	120.15	0.23	0.11	-17.24
384	0.60	48.20	95	384.0	-0.73	-0.73	2.25	2.37	107.88	0.78	-0.11	-72.63
415	0.70	77.20	31	415.0	-0.58	-0.58	2.56	2.62	102.69	1.10	0.32	93.55
446	0.40	126.20	31	446.0	-0.60	-0.60	2.83	2.89	101.93	1.71	-0.97	158.06
478	0.50	112.20	32	478.0	-0.72	-0.72	3.05	3.13	103.23	0.46	0.31	-43.75
509	0.70	87.20	31	509.0	-0.76	-0.76	3.36	3.45	102.71	1.05	0.65	-80.65
626	0.53	148.74	117	626.0	-1.19	-1.19	4.36	4.52	105.23	0.55	-0.15	52.60
721	0.48	168.16	95	721.0	-1.95	-1.95	4.67	5.06	112.69	0.19	-0.05	20.44
815	0.30	169.98	94	815.0	-2.58	-2.58	4.79	5.44	118.29	0.19	-0.19	1.94
910	0.31	197.49	95	910.0	-3.07	-3.07	4.76	5.66	122.83	0.15	0.01	28.96
1005	0.33	220.30	95	1005.0	-3.52	-3.52	4.50	5.72	128.04	0.13	0.02	24.01
1100	0.08	217.74	95	1100.0	-3.78	-3.78	4.29	5.72	131.45	0.26	-0.26	-2.69
1195	0.38	311.56	95	1195.0	-3.63	-3.63	4.01	5.41	132.14	0.41	0.32	98.76
1289	0.64	325.39	94	1289.0	-2.99	-2.99	3.48	4.59	130.68	0.30	0.28	14.71
1384	0.64	335.49	95	1384.0	-2.07	-2.07	2.96	3.61	124.99	0.12	0.00	10.63
1479	0.59	317.84	95	1479.0	-1.22	-1.22	2.41	2.70	116.94	0.21	-0.05	-18.58
1574	0.30	2.82	95	1573.9	-0.61	-0.61	2.09	2.18	106.33	0.46	-0.31	-331.60
1668	0.29	345.05	94	1667.9	-0.14	-0.14	2.04	2.05	93.84	0.10	-0.01	364.07
1763	0.29	335.80	95	1762.9	0.31	0.31	1.88	1.91	80.51	0.05	0.00	-9.74
1859	0.25	320.59	96	1858.9	0.70	0.70	1.65	1.79	67.06	0.09	-0.04	-15.84
2048	0.28	305.66	189	2047.9	1.29	1.29	1.01	1.64	38.21	0.04	0.02	-7.90
2143	0.20	257.26	95	2142.9	1.38	1.38	0.66	1.53	25.55	0.22	-0.08	-50.95
2238	0.96	211.88	95	2237.9	0.67	0.67	0.08	0.68	6.76	0.88	0.80	-47.77
2333	1.85	210.49	95	2332.9	-1.33	-1.33	-1.12	1.73	220.17	0.94	0.94	-1.46
2428	2.53	222.90	95	2427.8	-4.18	-4.18	-3.32	5.34	218.48	0.87	0.72	13.06
2523	4.49	226.75	95	2522.7	-8.27	-8.27	-7.46	11.14	222.06	2.08	2.06	4.05
2617	5.04	223.34	94	2616.3	-13.79	-13.79	-12.97	18.93	223.25	0.66	0.59	-3.63
2712	6.52	222.31	95	2710.8	-20.81	-20.81	-19.47	28.50	223.09	1.56	1.56	-1.08
2806	6.54	221.02	94	2804.2	-28.80	-28.80	-26.58	39.19	222.70	0.16	0.02	-1.37
2901	6.23	222.44	95	2898.6	-36.69	-36.69	-33.60	49.75	222.49	0.37	-0.33	1.49
2995	5.70	221.33	94	2992.1	-43.96	-43.96	-40.13	59.52	222.39	0.58	-0.56	-1.18
3090	6.45	225.88	95	3086.6	-51.21	-51.21	-47.08	69.56	222.59	0.94	0.79	4.79
3184	6.50	228.67	94	3180.0	-58.40	-58.40	-54.86	80.13	223.21	0.34	0.05	2.97
3279	6.38	227.99	95	3274.4	-65.49	-65.49	-62.82	90.75	223.81	0.15	-0.13	-0.72
3374	5.90	228.72	95	3368.9	-72.24	-72.24	-70.41	100.88	224.27	0.51	-0.51	0.77
3468	5.90	228.57	94	3462.4	-78.62	-78.62	-77.66	110.52	224.65	0.02	0.00	-0.16
3562	5.52	227.99	94	3555.9	-84.85	-84.85	-84.65	119.85	224.93	0.41	-0.40	-0.62
3657	5.83	229.41	95	3650.4	-91.04	-91.04	-91.71	129.22	225.21	0.36	0.33	1.49
3751	6.45	231.28	94	3743.9	-97.45	-97.45	-99.45	139.24	225.58	0.69	0.66	1.99
3846	6.17	230.48	95	3838.3	-104.04	-104.04	-107.55	149.64	225.95	0.31	-0.29	-0.84
3940	5.78	230.33	94	3931.8	-110.28	-110.28	-115.09	159.40	226.22	0.42	-0.41	-0.16
4035	6.27	228.58	95	4026.3	-116.76	-116.76	-122.66	169.35	226.41	0.55	0.52	-1.84
4129	6.44	229.93	94	4119.7	-123.55	-123.55	-130.55	179.74	226.58	0.24	0.18	1.44
4224	6.12	229.01	95	4214.1	-130.30	-130.30	-138.45	190.12	226.74	0.35	-0.34	-0.97
4319	5.92	226.46	95	4308.6	-137.00	-137.00	-145.82	200.08	226.79	0.35	-0.21	-2.68
4413	6.97	227.29	94	4402.0	-144.21	-144.21	-153.53	210.63	226.79	1.12	1.12	0.88
4508	6.95	227.49	95	4496.3	-152.00	-152.00	-162.00	222.14	226.82	0.03	-0.02	0.21
4602	7.07	227.42	94	4589.6	-159.76	-159.76	-170.45	233.61	226.85	0.13	0.13	-0.07
4697	7.21	229.82	95	4683.9	-167.56	-167.56	-179.31	245.41	226.94	0.35	0.15	2.53
4791	7.06	228.25	94	4777.1	-175.21	-175.21	-188.13	257.08	227.04	0.26	-0.16	-1.67
4886	6.64	227.66	95	4871.5	-182.80	-182.80	-196.54	268.41	227.07	0.45	-0.44	-0.62
4980	5.98	227.75	94	4964.9	-189.75	-189.75	-204.18	278.74	227.10	0.70	-0.70	0.10

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
5074	5.99	221.21	94	5058.4	-196.73	-196.73	-211.04	288.52	227.01	0.73	0.01	-6.96
5169	5.37	225.65	95	5152.9	-203.57	-203.57	-217.48	297.89	226.89	0.80	-0.65	4.67
5263	4.67	225.85	94	5246.6	-209.31	-209.31	-223.38	306.12	226.86	0.74	-0.74	0.21
5357	3.78	223.42	94	5340.3	-214.23	-214.23	-228.25	313.04	226.82	0.97	-0.95	-2.59
5452	3.18	219.63	95	5435.1	-218.53	-218.53	-232.08	318.78	226.72	0.68	-0.63	-3.99
5546	2.86	221.27	94	5529.0	-222.30	-222.30	-235.29	323.70	226.63	0.35	-0.34	1.74
5641	2.35	218.75	95	5623.9	-225.60	-225.60	-238.08	327.99	226.54	0.55	-0.54	-2.65
5735	2.10	213.90	94	5717.8	-228.53	-228.53	-240.24	331.58	226.43	0.33	-0.27	-5.16
5829	1.68	211.51	94	5811.8	-231.14	-231.14	-241.92	334.59	226.31	0.45	-0.45	-2.54
5923	1.55	207.21	94	5905.7	-233.44	-233.44	-243.22	337.13	226.18	0.19	-0.14	-4.57
6018	1.27	211.41	95	6000.7	-235.48	-235.48	-244.36	339.36	226.06	0.31	-0.29	4.42
6112	1.25	184.70	94	6094.7	-237.40	-237.40	-244.99	341.14	225.90	0.62	-0.02	-28.41
6207	0.97	183.59	95	6189.7	-239.23	-239.23	-245.12	342.52	225.70	0.30	-0.29	-1.17
6301	0.81	162.11	94	6283.7	-240.66	-240.66	-244.97	343.40	225.51	0.39	-0.17	-22.85
6395	1.40	101.67	94	6377.6	-241.52	-241.52	-243.64	343.06	225.25	1.30	0.63	-64.30
6490	1.62	96.30	95	6472.6	-241.90	-241.90	-241.17	341.58	224.91	0.28	0.23	-5.65
6577	1.28	89.80	87	6559.6	-242.04	-242.04	-238.97	340.13	224.64	0.43	-0.39	-7.47
6671	1.23	59.62	94	6653.6	-241.52	-241.52	-237.05	338.42	224.47	0.70	-0.05	-32.11
6766	1.44	71.62	95	6748.5	-240.63	-240.63	-235.04	336.37	224.33	0.37	0.22	12.63
6861	1.38	14.10	95	6843.5	-239.14	-239.14	-233.63	334.32	224.33	1.43	-0.06	-60.55
6955	1.63	350.80	94	6937.5	-236.73	-236.73	-233.57	332.56	224.62	0.70	0.27	358.19
7050	1.73	29.20	95	7032.4	-234.14	-234.14	-233.09	330.38	224.87	1.17	0.11	-338.53
7144	2.07	58.93	94	7126.4	-232.03	-232.03	-230.94	327.37	224.87	1.09	0.36	31.63
7238	1.15	112.33	94	7220.4	-231.51	-231.51	-228.61	325.36	224.64	1.77	-0.98	56.81
7333	1.13	107.30	95	7315.3	-232.15	-232.15	-226.84	324.57	224.34	0.11	-0.02	-5.29
7428	2.45	110.84	95	7410.3	-233.15	-233.15	-224.04	323.35	223.86	1.39	1.39	3.73
7522	1.28	102.53	94	7504.2	-234.09	-234.09	-221.14	322.03	223.37	1.27	-1.24	-8.84
7617	0.73	54.92	95	7599.2	-233.97	-233.97	-219.61	320.89	223.19	1.00	-0.58	-50.12
7711	1.02	35.57	94	7693.2	-232.95	-232.95	-218.63	319.48	223.18	0.44	0.31	-20.59
7805	1.06	45.82	94	7787.2	-231.66	-231.66	-217.52	317.78	223.20	0.20	0.04	10.90
7900	1.57	62.95	95	7882.2	-230.46	-230.46	-215.73	315.68	223.11	0.67	0.54	18.03
7994	1.71	71.67	94	7976.1	-229.43	-229.43	-213.26	313.24	222.91	0.30	0.15	9.28
8089	2.33	29.02	95	8071.1	-227.30	-227.30	-210.97	310.12	222.87	1.66	0.65	-44.89
8136	6.65	358.17	47	8117.9	-223.74	-223.74	-210.60	307.26	223.27	10.21	9.19	700.32
8183	12.73	354.16	47	8164.2	-215.86	-215.86	-211.21	302.00	224.38	13.01	12.94	-8.53
8230	18.24	356.66	47	8209.5	-203.36	-203.36	-212.17	293.89	226.21	11.81	11.72	5.32
8277	22.96	357.78	47	8253.5	-186.84	-186.84	-212.95	283.30	228.74	10.08	10.04	2.38
8324	27.25	358.35	47	8296.0	-166.92	-166.92	-213.62	271.10	232.00	9.14	9.13	1.21
8372	30.11	358.66	48	8338.2	-143.89	-143.89	-214.21	258.06	236.11	5.97	5.96	0.65
8418	32.02	358.75	46	8377.6	-120.16	-120.16	-214.75	246.08	240.77	4.15	4.15	0.20
8466	33.60	357.63	48	8417.9	-94.17	-94.17	-215.58	235.25	246.40	3.53	3.29	-2.33
8488	34.76	357.47	22	8436.1	-81.82	-81.82	-216.11	231.08	249.26	5.29	5.27	-0.73
8564	37.16	358.01	76	8497.6	-37.23	-37.23	-217.86	221.02	260.30	3.19	3.16	0.71
8658	41.40	358.71	94	8570.4	22.24	22.24	-219.55	220.67	275.78	4.54	4.51	0.74
8753	47.00	0.46	95	8638.4	88.44	88.44	-219.97	237.09	291.90	6.03	5.89	-377.11
8781	49.05	0.35	28	8657.2	109.25	109.25	-219.83	245.48	296.43	7.33	7.32	-0.39
8839	54.76	359.50	58	8692.9	154.88	154.88	-219.90	268.97	305.16	9.91	9.84	619.22
8886	58.12	358.87	47	8718.9	194.04	194.04	-220.46	293.69	311.35	7.24	7.15	-1.34
8933	63.05	359.42	47	8742.0	234.96	234.96	-221.07	322.61	316.74	10.54	10.49	1.17
8980	69.72	358.98	47	8760.8	278.00	278.00	-221.67	355.56	321.43	14.22	14.19	-0.94
9028	75.42	358.76	48	8775.2	323.76	323.76	-222.58	392.89	325.49	11.88	11.88	-0.46
9074	80.53	359.04	46	8784.8	368.73	368.73	-223.44	431.15	328.79	11.12	11.11	0.61
9123	85.36	359.38	49	8790.8	417.34	417.34	-224.11	473.71	331.76	9.88	9.86	0.69
9168	86.96	359.06	45	8793.8	462.23	462.23	-224.72	513.96	334.07	3.63	3.56	-0.71
9217	88.53	358.91	49	8795.7	511.19	511.19	-225.59	558.75	336.19	3.22	3.20	-0.31
9322	93.01	357.55	105	8794.3	616.10	616.10	-228.83	657.22	339.62	4.46	4.27	-1.30
9417	92.76	354.05	95	8789.5	710.71	710.71	-235.78	748.80	341.65	3.69	-0.26	-3.68
9511	92.56	357.28	94	8785.2	804.33	804.33	-242.87	840.19	343.20	3.44	-0.21	3.44

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9606	92.67	0.56	95	8780.8	899.20	899.20	-244.66	931.89	344.78	3.45	0.12	-375.49
9701	92.39	0.94	95	8776.6	994.10	994.10	-243.42	1023.46	346.24	0.50	-0.29	0.40
9795	91.61	1.22	94	8773.3	1088.02	1088.02	-241.65	1114.53	347.48	0.88	-0.83	0.30
9890	91.94	1.92	95	8770.4	1182.94	1182.94	-239.05	1206.85	348.58	0.81	0.35	0.74
9984	91.72	1.34	94	8767.4	1276.85	1276.85	-236.37	1298.55	349.51	0.66	-0.23	-0.62
10079	91.75	1.17	95	8764.5	1371.79	1371.79	-234.29	1391.65	350.31	0.18	0.03	-0.18
10173	90.63	1.04	94	8762.6	1465.75	1465.75	-232.48	1484.07	350.99	1.20	-1.19	-0.14
10268	90.57	0.99	95	8761.6	1560.73	1560.73	-230.80	1577.70	351.59	0.08	-0.06	-0.05
10362	90.60	0.80	94	8760.6	1654.71	1654.71	-229.33	1670.53	352.11	0.20	0.03	-0.20
10457	90.60	1.65	95	8759.6	1749.68	1749.68	-227.30	1764.39	352.60	0.89	0.00	0.89
10551	90.46	1.00	94	8758.8	1843.65	1843.65	-225.13	1857.35	353.04	0.71	-0.15	-0.69
10645	90.43	0.90	94	8758.0	1937.64	1937.64	-223.57	1950.49	353.42	0.11	-0.03	-0.11
10740	90.55	0.99	95	8757.2	2032.62	2032.62	-222.00	2044.71	353.77	0.16	0.13	0.09
10834	90.04	0.96	94	8756.7	2126.61	2126.61	-220.40	2138.00	354.08	0.54	-0.54	-0.03
10928	89.93	0.75	94	8756.8	2220.59	2220.59	-219.00	2231.37	354.37	0.25	-0.12	-0.22
11022	89.82	0.85	94	8757.0	2314.59	2314.59	-217.69	2324.80	354.63	0.16	-0.12	0.11
11117	90.07	1.31	95	8757.0	2409.57	2409.57	-215.90	2419.22	354.88	0.55	0.26	0.48
11211	90.29	1.64	94	8756.8	2503.54	2503.54	-213.48	2512.62	355.13	0.42	0.23	0.35
11305	89.90	1.28	94	8756.6	2597.51	2597.51	-211.08	2606.07	355.35	0.56	-0.41	-0.38
11400	90.01	2.12	95	8756.7	2692.46	2692.46	-208.26	2700.51	355.58	0.89	0.12	0.88
11494	89.90	1.96	94	8756.7	2786.40	2786.40	-204.92	2793.93	355.79	0.21	-0.12	-0.17
11589	90.04	2.23	95	8756.8	2881.34	2881.34	-201.45	2888.37	356.00	0.32	0.15	0.28
11683	90.32	2.07	94	8756.5	2975.27	2975.27	-197.92	2981.85	356.19	0.34	0.30	-0.17
11777	90.38	1.47	94	8755.9	3069.23	3069.23	-195.02	3075.42	356.36	0.64	0.06	-0.64
11871	90.46	1.60	94	8755.2	3163.19	3163.19	-192.50	3169.04	356.52	0.16	0.09	0.14
11966	90.46	1.82	95	8754.5	3258.14	3258.14	-189.66	3263.66	356.67	0.23	0.00	0.23
12060	90.32	1.67	94	8753.8	3352.10	3352.10	-186.80	3357.30	356.81	0.22	-0.15	-0.16
12155	90.32	1.57	95	8753.3	3447.06	3447.06	-184.11	3451.97	356.94	0.11	0.00	-0.11
12250	90.35	1.51	95	8752.7	3542.02	3542.02	-181.56	3546.67	357.07	0.07	0.03	-0.06
12344	90.29	1.69	94	8752.2	3635.98	3635.98	-178.94	3640.38	357.18	0.20	-0.06	0.19
12439	90.43	1.74	95	8751.6	3730.94	3730.94	-176.09	3735.09	357.30	0.16	0.15	0.05
12533	90.41	2.00	94	8750.9	3824.89	3824.89	-173.03	3828.80	357.41	0.28	-0.02	0.28
12628	90.43	1.66	95	8750.2	3919.84	3919.84	-169.99	3923.52	357.52	0.36	0.02	-0.36
12722	90.38	1.36	94	8749.6	4013.80	4013.80	-167.52	4017.30	357.61	0.32	-0.05	-0.32
12817	90.35	1.47	95	8749.0	4108.77	4108.77	-165.17	4112.09	357.70	0.12	-0.03	0.12
12911	90.52	1.40	94	8748.3	4202.74	4202.74	-162.82	4205.89	357.78	0.20	0.18	-0.07
13006	90.49	1.90	95	8747.4	4297.69	4297.69	-160.08	4300.68	357.87	0.53	-0.03	0.53
13100	90.10	1.35	94	8746.9	4391.66	4391.66	-157.42	4394.48	357.95	0.72	-0.41	-0.59
13195	90.43	1.87	95	8746.5	4486.62	4486.62	-154.75	4489.28	358.02	0.65	0.35	0.55
13289	90.21	1.75	94	8746.0	4580.57	4580.57	-151.78	4583.08	358.10	0.27	-0.23	-0.13
13383	90.29	3.71	94	8745.6	4674.46	4674.46	-147.30	4676.78	358.20	2.09	0.09	2.09
13478	90.63	1.83	95	8744.8	4769.34	4769.34	-142.71	4771.47	358.29	2.01	0.36	-1.98
13572	90.71	1.52	94	8743.7	4863.29	4863.29	-139.96	4865.30	358.35	0.34	0.09	-0.33
13666	90.63	0.89	94	8742.6	4957.26	4957.26	-137.99	4959.18	358.41	0.68	-0.09	-0.67
13761	90.91	0.81	95	8741.3	5052.24	5052.24	-136.58	5054.09	358.45	0.31	0.29	-0.08
13855	90.83	0.42	94	8739.9	5146.23	5146.23	-135.57	5148.01	358.49	0.42	-0.09	-0.41
13950	90.60	0.53	95	8738.7	5241.22	5241.22	-134.78	5242.95	358.53	0.27	-0.24	0.12
14044	90.18	0.84	94	8738.1	5335.21	5335.21	-133.66	5336.88	358.56	0.56	-0.45	0.33
14138	89.96	0.81	94	8738.0	5429.20	5429.20	-132.30	5430.81	358.60	0.24	-0.23	-0.03
14233	90.01	0.49	95	8738.0	5524.19	5524.19	-131.22	5525.75	358.64	0.34	0.05	-0.34
14327	90.21	0.92	94	8737.8	5618.18	5618.18	-130.07	5619.69	358.67	0.50	0.21	0.46
14421	90.27	1.25	94	8737.4	5712.17	5712.17	-128.29	5713.61	358.71	0.36	0.06	0.35
14468	90.52	3.72	47	8737.1	5759.12	5759.12	-126.25	5760.50	358.74	5.28	0.53	5.26
14516	89.12	2.62	48	8737.2	5807.04	5807.04	-123.60	5808.36	358.78	3.71	-2.92	-2.29
14563	89.26	9.89	47	8737.9	5853.73	5853.73	-118.48	5854.92	358.84	15.47	0.30	15.47
14610	89.93	12.67	47	8738.2	5899.81	5899.81	-109.29	5900.82	358.94	6.08	1.43	5.91
14657	91.44	16.01	47	8737.7	5945.34	5945.34	-97.65	5946.14	359.06	7.80	3.21	7.11
14704	92.40	19.18	47	8736.1	5990.11	5990.11	-83.45	5990.69	359.20	7.04	2.04	6.74

Minimum Radius of Curvature

API: 42-461-42517 **Well: Allison 7-1280 B 22BU** **Wellhead Location** **Lat: 31.319981**
Operator: Vital Energy **Area: Midland** **Long: -101.869514**
Rig: H&P 462 **Type: U Lateral** **Magnetic Declination: 5.36**
TD: 23,258' **Plane of Proposal: 0.00**

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			
14799	90.97	24.33	95	8733.3	6078.27	6078.27	-48.27	6078.46	359.55	5.62	-1.51	5.42
14897	89.23	28.12	98	8733.1	6166.16	6166.16	-4.97	6166.16	359.95	4.26	-1.78	3.87
14995	89.01	35.50	98	8734.6	6249.38	6249.38	46.64	6249.55	0.43	7.53	-0.22	7.53
15090	90.10	41.08	95	8735.4	6323.91	6323.91	105.48	6324.79	0.96	5.98	1.15	5.87
15184	91.28	47.12	94	8734.2	6391.37	6391.37	170.86	6393.66	1.53	6.55	1.26	6.43
15279	91.89	53.18	95	8731.6	6452.20	6452.20	243.73	6456.80	2.16	6.41	0.64	6.38
15374	92.79	59.18	95	8727.7	6505.00	6505.00	322.55	6513.00	2.84	6.38	0.95	6.32
15464	94.17	65.26	90	8722.3	6546.86	6546.86	401.99	6559.19	3.51	6.92	1.53	6.76
15559	93.18	71.13	95	8716.2	6582.05	6582.05	489.98	6600.26	4.26	6.25	-1.04	6.18
15653	89.31	75.70	94	8714.1	6608.86	6608.86	580.00	6634.26	5.02	6.37	-4.12	4.86
15748	90.13	82.44	95	8714.6	6626.86	6626.86	673.22	6660.97	5.80	7.15	0.86	7.09
15843	89.29	88.56	95	8715.1	6634.31	6634.31	767.88	6678.61	6.60	6.50	-0.88	6.44
15937	88.56	94.81	94	8716.8	6631.55	6631.55	861.78	6687.31	7.40	6.69	-0.78	6.65
16032	88.50	101.20	95	8719.3	6618.33	6618.33	955.78	6686.99	8.22	6.72	-0.06	6.73
16127	88.42	107.42	95	8721.8	6594.87	6594.87	1047.75	6677.58	9.03	6.55	-0.08	6.55
16222	88.61	113.92	95	8724.3	6561.37	6561.37	1136.56	6659.08	9.83	6.84	0.20	6.84
16317	89.34	120.27	95	8726.0	6518.13	6518.13	1221.07	6631.52	10.61	6.73	0.77	6.68
16411	92.20	127.22	94	8724.7	6465.96	6465.96	1299.17	6595.18	11.36	7.99	3.04	7.39
16506	91.78	131.47	95	8721.4	6405.78	6405.78	1372.58	6551.18	12.09	4.49	-0.44	4.47
16601	88.42	133.59	95	8721.3	6341.57	6341.57	1442.57	6503.58	12.82	4.18	-3.54	2.23
16696	88.64	139.81	95	8723.7	6272.49	6272.49	1507.67	6451.14	13.52	6.55	0.23	6.55
16790	89.31	146.29	94	8725.4	6197.42	6197.42	1564.14	6391.76	14.16	6.93	0.71	6.89
16885	90.01	152.65	95	8726.0	6115.64	6115.64	1612.37	6324.61	14.77	6.74	0.74	6.69
16980	88.67	158.02	95	8727.0	6029.34	6029.34	1652.00	6251.56	15.32	5.83	-1.41	5.65
17075	88.98	163.88	95	8729.0	5939.60	5939.60	1682.98	6173.44	15.82	6.18	0.33	6.17
17170	90.04	170.20	95	8729.8	5847.07	5847.07	1704.28	6090.39	16.25	6.75	1.12	6.65
17265	90.07	176.16	95	8729.7	5752.79	5752.79	1715.55	6003.14	16.61	6.27	0.03	6.27
17360	89.79	181.55	95	8729.8	5657.84	5657.84	1717.45	5912.77	16.89	5.68	-0.29	5.67
17455	90.07	186.29	95	8730.0	5563.09	5563.09	1710.96	5820.26	17.10	5.00	0.29	4.99
17550	91.22	188.60	95	8728.9	5468.91	5468.91	1698.65	5726.64	17.25	2.72	1.21	2.43
17597	91.39	186.74	47	8727.8	5422.34	5422.34	1692.38	5680.31	17.33	3.97	0.36	-3.96
17644	91.70	183.83	47	8726.5	5375.56	5375.56	1688.05	5634.38	17.43	6.22	0.66	-6.19
17739	91.25	180.93	95	8724.1	5280.69	5280.69	1684.11	5542.73	17.69	3.09	-0.47	-3.05
17833	90.15	180.67	94	8722.9	5186.71	5186.71	1682.80	5452.86	17.98	1.20	-1.17	-0.28
17928	90.21	181.17	95	8722.7	5091.72	5091.72	1681.27	5362.11	18.27	0.53	0.06	0.53
18023	89.59	180.48	95	8722.8	4996.73	4996.73	1679.90	5271.56	18.58	0.98	-0.65	-0.73
18117	90.38	181.03	94	8722.8	4902.74	4902.74	1678.67	5182.16	18.90	1.02	0.84	0.59
18211	90.27	182.26	94	8722.3	4808.78	4808.78	1675.97	5092.47	19.21	1.31	-0.12	1.31
18306	90.04	181.60	95	8722.1	4713.84	4713.84	1672.77	5001.84	19.54	0.74	-0.24	-0.69
18400	90.04	181.47	94	8722.0	4619.87	4619.87	1670.25	4912.53	19.88	0.14	0.00	-0.14
18496	90.15	181.73	96	8721.8	4523.91	4523.91	1667.57	4821.47	20.23	0.29	0.11	0.27
18591	90.18	181.93	95	8721.6	4428.96	4428.96	1664.54	4731.42	20.60	0.21	0.03	0.21
18685	90.01	180.88	94	8721.4	4334.99	4334.99	1662.23	4642.75	20.98	1.13	-0.18	-1.12
18779	90.10	180.57	94	8721.3	4240.99	4240.99	1661.04	4554.68	21.39	0.34	0.10	-0.33
18874	90.21	180.99	95	8721.1	4146.00	4146.00	1659.75	4465.88	21.82	0.46	0.12	0.44
18968	89.48	180.31	94	8721.3	4052.01	4052.01	1658.68	4378.36	22.26	1.06	-0.78	-0.72
19063	89.59	180.72	95	8722.1	3957.02	3957.02	1657.83	4290.27	22.73	0.45	0.12	0.43
19157	89.43	180.35	94	8722.9	3863.03	3863.03	1656.95	4203.39	23.22	0.43	-0.17	-0.39
19252	89.85	181.81	95	8723.5	3768.05	3768.05	1655.16	4115.55	23.71	1.60	0.44	1.54
19346	89.79	180.62	94	8723.8	3674.07	3674.07	1653.17	4028.87	24.23	1.27	-0.06	-1.27
19441	89.51	180.02	95	8724.4	3579.07	3579.07	1652.64	3942.20	24.79	0.70	-0.29	-0.63
19536	89.79	179.25	95	8724.9	3484.08	3484.08	1653.24	3856.42	25.38	0.86	0.29	-0.81
19630	89.99	179.96	94	8725.1	3390.08	3390.08	1653.89	3772.00	26.01	0.78	0.21	0.76
19725	89.59	180.42	95	8725.5	3295.08	3295.08	1653.57	3686.72	26.65	0.64	-0.42	0.48
19819	89.87	180.89	94	8725.9	3201.09	3201.09	1652.50	3602.46	27.30	0.58	0.30	0.50
19914	89.79	179.73	95	8726.2	3106.09	3106.09	1651.99	3518.08	28.01	1.22	-0.08	-1.22
20008	89.68	178.36	94	8726.6	3012.11	3012.11	1653.55	3436.14	28.77	1.46	-0.12	-1.46
20102	89.57	178.51	94	8727.2	2918.15	2918.15	1656.12	3355.34	29.58	0.20	-0.12	0.16

Minimum Radius of Curvature

API: 42-461-42517 **Well: Allison 7-1280 B 22BU** **Wellhead Location** **Lat: 31.319981**
Operator: Vital Energy **Area: Midland** **Long: -101.869514**
Rig: H&P 462 **Type: U Lateral** **Magnetic Declination: 5.36**
TD: 23,258' **Plane of Proposal: 0.00**

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			
20197	89.54	177.82	95	8728.0	2823.20	2823.20	1659.16	3274.64	30.44	0.73	-0.03	-0.73
20291	89.82	177.83	94	8728.5	2729.27	2729.27	1662.73	3195.87	31.35	0.30	0.30	0.01
20386	90.01	177.42	95	8728.6	2634.35	2634.35	1666.67	3117.30	32.32	0.48	0.20	-0.43
20480	90.21	177.96	94	8728.5	2540.43	2540.43	1670.45	3040.43	33.33	0.61	0.21	0.57
20575	90.01	179.87	95	8728.3	2445.45	2445.45	1672.25	2962.54	34.37	2.02	-0.21	2.01
20669	90.04	180.53	94	8728.2	2351.45	2351.45	1671.92	2885.25	35.41	0.70	0.03	0.70
20763	90.04	181.79	94	8728.2	2257.47	2257.47	1670.02	2808.05	36.49	1.34	0.00	1.34
20857	90.18	183.18	94	8728.0	2163.56	2163.56	1665.95	2730.64	37.60	1.49	0.15	1.48
20952	90.15	182.69	95	8727.7	2068.69	2068.69	1661.08	2653.05	38.76	0.52	-0.03	-0.52
21046	89.96	181.96	94	8727.6	1974.77	1974.77	1657.27	2578.03	40.00	0.80	-0.20	-0.78
21140	90.13	181.12	94	8727.6	1880.80	1880.80	1654.74	2505.11	41.34	0.91	0.18	-0.89
21235	90.10	180.16	95	8727.4	1785.81	1785.81	1653.68	2433.88	42.80	1.01	-0.03	-1.01
21325	90.27	180.59	90	8727.1	1695.81	1695.81	1653.09	2368.23	44.27	0.51	0.19	0.48
21420	89.79	180.49	95	8727.0	1600.82	1600.82	1652.20	2300.51	45.90	0.52	-0.51	-0.11
21514	89.68	180.47	94	8727.5	1506.82	1506.82	1651.41	2235.54	47.62	0.12	-0.12	-0.02
21608	89.51	181.01	94	8728.1	1412.83	1412.83	1650.20	2172.38	49.43	0.60	-0.18	0.57
21703	89.71	180.90	95	8728.8	1317.85	1317.85	1648.61	2110.60	51.36	0.24	0.21	-0.12
21798	89.65	181.23	95	8729.3	1222.86	1222.86	1646.85	2051.22	53.40	0.35	-0.06	0.35
21892	89.54	181.39	94	8730.0	1128.89	1128.89	1644.70	1994.85	55.53	0.21	-0.12	0.17
21987	89.65	181.39	95	8730.6	1033.92	1033.92	1642.39	1940.73	57.81	0.12	0.12	0.00
22082	89.31	180.55	95	8731.5	938.94	938.94	1640.79	1890.45	60.22	0.95	-0.36	-0.88
22176	89.51	180.69	94	8732.5	844.95	844.95	1639.77	1844.66	62.74	0.26	0.21	0.15
22271	89.54	181.22	95	8733.3	749.97	749.97	1638.18	1801.69	65.40	0.56	0.03	0.56
22365	90.07	181.01	94	8733.6	655.99	655.99	1636.36	1762.95	68.16	0.61	0.56	-0.22
22460	90.24	181.58	95	8733.3	561.01	561.01	1634.21	1727.82	71.05	0.63	0.18	0.60
22554	90.10	181.34	94	8733.0	467.04	467.04	1631.81	1697.33	74.03	0.30	-0.15	-0.26
22649	90.21	181.30	95	8732.8	372.07	372.07	1629.63	1671.56	77.14	0.12	0.12	-0.04
22743	90.24	182.24	94	8732.4	278.11	278.11	1626.72	1650.32	80.30	1.00	0.03	1.00
22838	89.85	180.88	95	8732.3	183.15	183.15	1624.14	1634.43	83.57	1.49	-0.41	-1.43
22932	90.18	182.08	94	8732.3	89.19	89.19	1621.71	1624.16	86.85	1.32	0.35	1.28
23026	90.38	183.50	94	8731.9	-4.70	-4.70	1617.13	1617.14	90.17	1.53	0.21	1.51
23121	90.01	183.80	95	8731.5	-99.51	-99.51	1611.08	1614.15	93.53	0.50	-0.39	0.32
23215	90.32	183.46	94	8731.3	-193.32	-193.32	1605.13	1616.73	96.87	0.49	0.33	-0.36
23227	90.13	183.62	12	8731.2	-205.29	-205.29	1604.39	1617.47	97.29	2.07	-1.58	1.33
23258	90.13	183.62	31	8731.1	-236.23	-236.23	1602.43	1619.75	98.39	#NUM!	0.00	0.00