

Minimum Radius of Curvature

API: 42-461-42518 **Well: Allison 7-1280 D 23BL** **Wellhead Location** **Lat: 31.319980**
Operator: Vital Energy **Area: Midland** **Long: -101.869417**
Rig: H&P 462 **Type: U Lateral** **Magnetic Declination: 5.37**
TD: 23,651' **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	0.00	26	26.0	0.00	0.00	0.00	0.00	#DIV/0!	0.00		
145	0.80	93.20	119	145.0	-0.05	-0.05	0.83	0.83	93.20	0.67	0.67	78.32
202	0.90	93.20	57	202.0	-0.09	-0.09	1.67	1.68	93.20	0.18	0.18	0.00
258	0.70	88.20	56	258.0	-0.11	-0.11	2.45	2.46	92.50	0.38	-0.36	-8.93
290	0.70	64.20	32	290.0	-0.02	-0.02	2.83	2.83	90.33	0.91	0.00	-75.00
384	1.00	54.20	94	384.0	0.71	0.71	4.01	4.07	79.91	0.35	0.32	-10.64
447	0.70	67.20	63	447.0	1.18	1.18	4.81	4.95	76.17	0.56	-0.48	20.63
478	0.80	72.20	31	478.0	1.32	1.32	5.19	5.36	75.69	0.39	0.32	16.13
510	0.50	38.20	32	510.0	1.50	1.50	5.49	5.69	74.70	1.49	-0.94	-106.25
626	0.43	57.49	116	626.0	2.13	2.13	6.17	6.53	70.92	0.15	-0.06	16.63
721	0.42	67.04	95	721.0	2.46	2.46	6.79	7.22	70.08	0.08	-0.01	10.05
816	0.31	70.34	95	816.0	2.68	2.68	7.35	7.83	69.95	0.12	-0.12	3.47
910	0.18	51.87	94	910.0	2.86	2.86	7.71	8.22	69.64	0.16	-0.14	-19.65
1005	0.24	1.99	95	1005.0	3.15	3.15	7.83	8.44	68.09	0.20	0.06	-52.51
1100	0.43	356.98	95	1099.9	3.71	3.71	7.82	8.65	64.65	0.20	0.20	373.67
1195	0.54	356.63	95	1194.9	4.51	4.51	7.78	8.99	59.89	0.12	0.12	-0.37
1289	0.64	347.38	94	1288.9	5.46	5.46	7.63	9.39	54.41	0.15	0.11	-9.84
1384	0.60	341.14	95	1383.9	6.45	6.45	7.36	9.79	48.76	0.08	-0.04	-6.57
1479	0.51	326.63	95	1478.9	7.28	7.28	6.96	10.07	43.75	0.17	-0.09	-15.27
1574	0.59	316.50	95	1573.9	7.98	7.98	6.40	10.23	38.70	0.13	0.08	-10.66
1669	0.51	315.93	95	1668.9	8.64	8.64	5.76	10.39	33.71	0.08	-0.08	-0.60
1764	0.48	313.44	95	1763.9	9.22	9.22	5.18	10.58	29.34	0.04	-0.03	-2.62
1859	0.54	316.41	95	1858.9	9.82	9.82	4.58	10.83	25.03	0.07	0.06	3.13
1954	0.51	304.04	95	1953.9	10.38	10.38	3.93	11.10	20.72	0.12	-0.03	-13.02
2049	0.49	314.21	95	2048.9	10.90	10.90	3.28	11.38	16.77	0.10	-0.02	10.71
2143	0.56	310.66	94	2142.9	11.48	11.48	2.65	11.78	12.99	0.08	0.07	-3.78
2239	0.57	310.22	96	2238.9	12.09	12.09	1.93	12.24	9.05	0.01	0.01	-0.46
2333	0.45	320.54	94	2332.9	12.68	12.68	1.33	12.75	6.01	0.16	-0.13	10.98
2428	0.48	311.17	95	2427.9	13.23	13.23	0.80	13.25	3.45	0.09	0.03	-9.86
2523	0.34	317.66	95	2522.9	13.70	13.70	0.31	13.70	1.29	0.16	-0.15	6.83
2618	0.34	344.18	95	2617.9	14.18	14.18	0.04	14.18	0.17	0.16	0.00	27.92
2712	0.40	346.92	94	2711.9	14.77	14.77	-0.11	14.77	359.58	0.07	0.06	2.91
2806	0.34	352.84	94	2805.9	15.36	15.36	-0.22	15.36	359.19	0.08	-0.06	6.30
2901	1.11	114.32	95	2900.9	15.26	15.26	0.59	15.27	2.20	1.39	0.81	-251.07
2996	2.17	131.40	95	2995.8	13.69	13.69	2.77	13.97	11.45	1.22	1.12	17.98
3090	4.26	137.99	94	3089.7	9.92	9.92	6.45	11.83	33.01	2.25	2.22	7.01
3184	6.05	137.57	94	3183.3	3.67	3.67	12.13	12.67	73.15	1.90	1.90	-0.45
3279	6.45	138.44	95	3277.7	-4.02	-4.02	19.04	19.46	101.91	0.43	0.42	0.92
3374	6.48	137.68	95	3372.1	-11.97	-11.97	26.19	28.80	114.56	0.10	0.03	-0.80
3468	6.64	143.68	94	3465.5	-20.27	-20.27	32.98	38.71	121.58	0.75	0.17	6.38
3562	6.70	144.64	94	3558.9	-29.12	-29.12	39.37	48.97	126.49	0.13	0.06	1.02
3657	6.68	144.66	95	3653.2	-38.15	-38.15	45.78	59.59	129.81	0.02	-0.02	0.02
3751	6.48	143.37	94	3746.6	-46.87	-46.87	52.10	70.08	131.97	0.26	-0.21	-1.37
3846	6.27	142.68	95	3841.0	-55.29	-55.29	58.45	80.46	133.41	0.24	-0.22	-0.73
3940	6.14	141.87	94	3934.5	-63.33	-63.33	64.66	90.51	134.40	0.17	-0.14	-0.86
4035	6.10	141.46	95	4028.9	-71.28	-71.28	70.95	100.57	135.13	0.06	-0.04	-0.43
4129	6.16	140.63	94	4122.4	-79.08	-79.08	77.26	110.55	135.67	0.11	0.06	-0.88
4224	6.07	140.54	95	4216.9	-86.90	-86.90	83.68	120.64	136.08	0.10	-0.09	-0.09
4319	5.98	139.86	95	4311.3	-94.56	-94.56	90.06	130.59	136.39	0.12	-0.09	-0.72
4413	5.93	139.50	94	4404.8	-102.00	-102.00	96.37	140.33	136.62	0.07	-0.05	-0.38
4508	5.82	138.17	95	4499.3	-109.32	-109.32	102.77	150.04	136.77	0.18	-0.12	-1.40
4603	6.77	145.93	95	4593.8	-117.54	-117.54	109.12	160.39	137.13	1.34	1.00	8.17
4697	7.16	150.10	94	4687.1	-127.21	-127.21	115.15	171.59	137.85	0.68	0.41	4.44
4791	7.14	149.97	94	4780.3	-137.35	-137.35	120.99	183.04	138.62	0.03	-0.02	-0.14
4886	6.91	149.54	95	4874.6	-147.39	-147.39	126.84	194.45	139.28	0.25	-0.24	-0.45
4980	6.70	149.72	94	4968.0	-156.99	-156.99	132.47	205.42	139.84	0.22	-0.22	0.19
5074	6.59	148.67	94	5061.3	-166.34	-166.34	138.04	216.16	140.31	0.17	-0.12	-1.12

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
5169	6.09	143.37	95	5155.7	-175.04	-175.04	143.89	226.59	140.58	0.81	-0.53	-5.58
5263	5.79	140.93	94	5249.2	-182.72	-182.72	149.85	236.31	140.64	0.42	-0.32	-2.60
5358	5.30	138.14	95	5343.8	-189.71	-189.71	155.80	245.48	140.61	0.59	-0.52	-2.94
5452	4.93	135.02	94	5437.4	-195.80	-195.80	161.55	253.84	140.47	0.49	-0.39	-3.32
5547	4.57	134.04	95	5532.1	-201.32	-201.32	167.16	261.67	140.30	0.39	-0.38	-1.03
5641	4.33	144.57	94	5625.8	-206.81	-206.81	171.90	268.93	140.27	0.90	-0.26	11.20
5735	4.13	148.10	94	5719.6	-212.58	-212.58	175.75	275.82	140.42	0.35	-0.21	3.76
5829	3.78	151.75	94	5813.3	-218.18	-218.18	179.01	282.22	140.63	0.46	-0.37	3.88
5923	2.69	178.93	94	5907.2	-223.12	-223.12	180.51	287.00	141.03	1.97	-1.16	28.91
6018	1.72	210.54	95	6002.1	-226.57	-226.57	179.83	289.27	141.56	1.60	-1.02	33.27
6112	1.18	206.79	94	6096.1	-228.65	-228.65	178.68	290.19	141.99	0.58	-0.57	-3.99
6207	1.00	193.70	95	6191.1	-230.33	-230.33	178.04	291.12	142.30	0.32	-0.19	-13.78
6301	0.64	179.04	94	6285.1	-231.65	-231.65	177.86	292.05	142.48	0.44	-0.38	-15.60
6396	0.88	127.75	95	6380.1	-232.63	-232.63	178.44	293.19	142.51	0.73	0.25	-53.99
6490	0.96	110.82	94	6474.0	-233.35	-233.35	179.75	294.55	142.39	0.30	0.09	-18.01
6585	0.88	104.64	95	6569.0	-233.82	-233.82	181.20	295.81	142.23	0.13	-0.08	-6.51
6679	1.04	91.43	94	6663.0	-234.02	-234.02	182.75	296.92	142.01	0.29	0.17	-14.05
6774	1.05	97.00	95	6758.0	-234.15	-234.15	184.47	298.09	141.77	0.11	0.01	5.86
6868	0.99	96.05	94	6852.0	-234.34	-234.34	186.14	299.27	141.54	0.07	-0.06	-1.01
6963	1.00	97.94	95	6947.0	-234.54	-234.54	187.77	300.45	141.32	0.04	0.01	1.99
7058	1.83	96.53	95	7041.9	-234.83	-234.83	190.10	302.13	141.01	0.87	0.87	-1.48
7153	1.52	107.87	95	7136.9	-235.39	-235.39	192.81	304.27	140.68	0.48	-0.33	11.94
7247	1.39	105.11	94	7230.9	-236.07	-236.07	195.10	306.25	140.43	0.16	-0.14	-2.94
7341	1.57	99.77	94	7324.8	-236.58	-236.58	197.47	308.16	140.15	0.24	0.19	-5.68
7436	1.59	109.24	95	7419.8	-237.24	-237.24	199.99	310.29	139.87	0.28	0.02	9.97
7530	0.82	67.69	94	7513.8	-237.41	-237.41	201.85	311.62	139.63	1.19	-0.82	-44.20
7625	0.66	24.78	95	7608.8	-236.66	-236.66	202.70	311.60	139.42	0.59	-0.17	-45.17
7719	0.59	23.37	94	7702.8	-235.72	-235.72	203.12	311.17	139.25	0.08	-0.07	-1.50
7814	0.56	36.25	95	7797.8	-234.90	-234.90	203.59	310.85	139.08	0.14	-0.03	13.56
7908	0.51	44.54	94	7891.8	-234.23	-234.23	204.16	310.72	138.92	0.10	-0.05	8.82
8002	0.39	41.98	94	7985.8	-233.69	-233.69	204.66	310.65	138.79	0.13	-0.13	-2.72
8097	0.41	39.82	95	8080.8	-233.19	-233.19	205.10	310.55	138.67	0.03	0.02	-2.27
8191	0.39	67.98	94	8174.8	-232.81	-232.81	205.61	310.61	138.55	0.21	-0.02	29.96
8243	0.50	57.93	52	8226.8	-232.63	-232.63	205.97	310.71	138.48	0.26	0.21	-19.33
8276	0.48	31.92	33	8259.8	-232.43	-232.43	206.16	310.69	138.43	0.67	-0.06	-78.82
8324	2.78	332.83	48	8307.7	-231.23	-231.23	205.74	309.51	138.34	5.35	4.79	626.90
8371	7.23	345.49	47	8354.5	-227.35	-227.35	204.47	305.77	138.03	9.70	9.47	26.94
8418	11.21	352.43	47	8400.9	-219.95	-219.95	203.13	299.40	137.28	8.78	8.47	14.77
8465	15.04	354.35	47	8446.7	-209.35	-209.35	201.93	290.87	136.03	8.20	8.15	4.09
8512	18.91	355.76	47	8491.6	-195.68	-195.68	200.76	280.35	134.27	8.28	8.23	3.00
8560	21.81	356.62	48	8536.6	-179.02	-179.02	199.66	268.17	131.88	6.07	6.04	1.79
8607	24.79	358.14	47	8579.8	-160.45	-160.45	198.83	255.50	128.90	6.47	6.34	3.23
8654	27.55	357.72	47	8622.0	-139.74	-139.74	198.08	242.41	125.20	5.89	5.87	-0.89
8664	28.01	357.77	10	8630.8	-135.08	-135.08	197.89	239.60	124.32	4.61	4.60	0.50
8723	30.33	357.61	59	8682.3	-106.35	-106.35	196.73	223.64	118.40	3.93	3.93	-0.27
8767	34.26	356.71	44	8719.5	-82.88	-82.88	195.56	212.39	112.97	9.00	8.93	-2.05
8817	41.47	357.07	50	8759.0	-52.25	-52.25	193.90	200.82	105.08	14.43	14.42	0.72
8864	49.49	355.96	47	8791.9	-18.83	-18.83	191.84	192.77	95.61	17.15	17.06	-2.36
8911	52.98	355.40	47	8821.3	17.70	17.70	189.08	189.91	84.65	7.48	7.43	-1.19
8958	54.71	357.55	47	8849.0	55.57	55.57	186.75	194.85	73.43	5.21	3.68	4.57
9006	56.95	359.46	48	8876.0	95.27	95.27	185.73	208.74	62.84	5.71	4.67	3.98
9100	61.57	358.54	94	8924.0	176.03	176.03	184.30	254.86	46.32	4.99	4.91	-0.98
9147	66.56	357.51	47	8944.6	218.25	218.25	182.84	284.72	39.95	10.80	10.62	-2.19
9195	70.96	356.81	48	8962.0	262.93	262.93	180.62	318.99	34.49	9.27	9.17	-1.46
9240	72.42	356.82	45	8976.1	305.58	305.58	178.24	353.77	30.25	3.24	3.24	0.02
9290	74.20	357.41	50	8990.5	353.41	353.41	175.83	394.74	26.45	3.74	3.56	1.18
9334	76.15	357.01	44	9001.7	395.90	395.90	173.76	432.35	23.70	4.52	4.43	-0.91
9384	79.30	356.66	50	9012.4	444.67	444.67	171.07	476.44	21.04	6.34	6.30	-0.70

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9479	87.94	1.77	95	9022.9	538.95	538.95	169.81	565.07	17.49	10.55	9.09	-373.57
9573	89.90	0.94	94	9024.7	632.90	632.90	172.03	655.87	15.21	2.26	2.09	-0.88
9620	90.49	0.09	47	9024.5	679.90	679.90	172.45	701.43	14.23	2.20	1.26	-1.81
9690	91.30	358.64	70	9023.4	749.89	749.89	171.68	769.29	12.89	2.37	1.16	512.21
9785	89.95	357.90	95	9022.4	844.83	844.83	168.81	861.54	11.30	1.62	-1.42	-0.78
9879	90.99	359.91	94	9021.6	938.81	938.81	167.01	953.55	10.09	2.41	1.11	2.14
9974	90.77	1.60	95	9020.2	1033.79	1033.79	168.27	1047.39	9.24	1.79	-0.23	-377.17
10068	90.52	4.48	94	9019.1	1127.64	1127.64	173.25	1140.87	8.73	3.08	-0.27	3.06
10163	91.39	5.63	95	9017.5	1222.25	1222.25	181.62	1235.67	8.45	1.52	0.92	1.21
10258	90.84	3.73	95	9015.7	1316.91	1316.91	189.37	1330.46	8.18	2.08	-0.58	-2.00
10352	90.29	3.02	94	9014.7	1410.74	1410.74	194.90	1424.14	7.87	0.96	-0.59	-0.76
10446	89.88	3.80	94	9014.6	1504.58	1504.58	200.49	1517.88	7.59	0.94	-0.44	0.83
10541	89.49	1.78	95	9015.1	1599.46	1599.46	205.12	1612.56	7.31	2.17	-0.41	-2.13
10635	89.63	1.82	94	9015.8	1693.41	1693.41	208.07	1706.14	7.00	0.15	0.15	0.04
10730	88.32	1.56	95	9017.5	1788.35	1788.35	210.87	1800.74	6.72	1.41	-1.38	-0.27
10824	88.74	1.44	94	9020.0	1882.29	1882.29	213.33	1894.34	6.47	0.46	0.45	-0.13
10918	88.91	1.89	94	9021.9	1976.23	1976.23	216.06	1988.00	6.24	0.51	0.18	0.48
11012	88.80	1.01	94	9023.8	2070.18	2070.18	218.44	2081.67	6.02	0.94	-0.12	-0.94
11106	89.45	2.03	94	9025.2	2164.13	2164.13	220.93	2175.38	5.83	1.29	0.69	1.09
11201	89.98	2.60	95	9025.7	2259.05	2259.05	224.77	2270.21	5.68	0.82	0.56	0.60
11295	89.85	2.52	94	9025.8	2352.96	2352.96	228.97	2364.07	5.56	0.16	-0.14	-0.09
11389	89.89	2.59	94	9026.0	2446.86	2446.86	233.16	2457.95	5.44	0.09	0.04	0.07
11484	90.15	2.68	95	9026.0	2541.76	2541.76	237.53	2552.84	5.34	0.29	0.27	0.09
11578	89.58	0.87	94	9026.2	2635.71	2635.71	240.44	2646.66	5.21	2.02	-0.61	-1.93
11673	89.92	1.61	95	9026.6	2730.69	2730.69	242.49	2741.44	5.07	0.86	0.36	0.78
11767	89.56	358.25	94	9027.1	2824.68	2824.68	242.38	2835.06	4.90	3.59	-0.38	379.40
11861	89.17	0.24	94	9028.1	2918.66	2918.66	241.14	2928.60	4.72	2.16	-0.41	-380.86
11955	90.14	1.78	94	9028.7	3012.64	3012.64	242.80	3022.40	4.61	1.94	1.03	1.64
12050	90.68	1.73	95	9028.0	3107.59	3107.59	245.71	3117.29	4.52	0.57	0.57	-0.05
12145	90.16	1.04	95	9027.3	3202.56	3202.56	248.00	3212.15	4.43	0.91	-0.55	-0.73
12239	90.04	0.85	94	9027.1	3296.54	3296.54	249.55	3305.98	4.33	0.24	-0.13	-0.20
12334	90.18	0.61	95	9026.9	3391.54	3391.54	250.76	3400.79	4.23	0.29	0.15	-0.25
12428	90.60	1.88	94	9026.3	3485.51	3485.51	252.81	3494.67	4.15	1.42	0.45	1.35
12523	89.95	1.54	95	9025.8	3580.47	3580.47	255.64	3589.58	4.08	0.77	-0.68	-0.36
12617	90.30	1.77	94	9025.6	3674.43	3674.43	258.35	3683.50	4.02	0.45	0.37	0.24
12712	90.09	1.71	95	9025.3	3769.38	3769.38	261.24	3778.42	3.96	0.23	-0.22	-0.06
12806	90.13	1.73	94	9025.1	3863.34	3863.34	264.06	3872.35	3.91	0.05	0.04	0.02
12901	89.05	359.99	95	9025.8	3958.32	3958.32	265.49	3967.21	3.84	2.16	-1.14	377.12
12995	89.81	0.55	94	9026.8	4052.31	4052.31	265.93	4061.03	3.75	1.00	0.81	-382.38
13090	90.39	0.24	95	9026.6	4147.31	4147.31	266.58	4155.87	3.68	0.69	0.61	-0.33
13184	90.31	359.94	94	9026.0	4241.31	4241.31	266.73	4249.69	3.60	0.33	-0.09	382.66
13279	90.22	359.10	95	9025.6	4336.30	4336.30	265.94	4344.45	3.51	0.89	-0.09	-0.88
13373	89.25	358.94	94	9026.0	4430.29	4430.29	264.33	4438.17	3.41	1.05	-1.03	-0.17
13467	90.52	359.26	94	9026.2	4524.27	4524.27	262.85	4531.90	3.33	1.39	1.35	0.34
13562	90.33	359.16	95	9025.5	4619.26	4619.26	261.54	4626.66	3.24	0.23	-0.20	-0.11
13656	90.49	359.87	94	9024.8	4713.26	4713.26	260.75	4720.46	3.17	0.77	0.17	0.76
13750	90.66	359.79	94	9023.9	4807.25	4807.25	260.47	4814.30	3.10	0.20	0.18	-0.09
13845	90.69	359.64	95	9022.8	4902.24	4902.24	260.00	4909.13	3.04	0.16	0.03	-0.16
13939	90.63	0.22	94	9021.7	4996.24	4996.24	259.88	5002.99	2.98	0.62	-0.06	-382.36
14034	91.12	2.83	95	9020.2	5091.18	5091.18	262.41	5097.94	2.95	2.80	0.52	2.75
14128	90.28	1.68	94	9019.1	5185.10	5185.10	266.11	5191.93	2.94	1.51	-0.89	-1.22
14222	90.82	2.36	94	9018.2	5279.04	5279.04	269.42	5285.91	2.92	0.92	0.57	0.72
14317	90.69	1.88	95	9016.9	5373.96	5373.96	272.93	5380.89	2.91	0.52	-0.14	-0.51
14411	90.39	1.72	94	9016.0	5467.91	5467.91	275.89	5474.87	2.89	0.36	-0.32	-0.17
14505	90.56	2.37	94	9015.3	5561.85	5561.85	279.24	5568.86	2.87	0.71	0.18	0.69
14600	90.27	1.43	95	9014.6	5656.79	5656.79	282.39	5663.84	2.86	1.04	-0.31	-0.99
14694	90.64	2.08	94	9013.8	5750.75	5750.75	285.27	5757.82	2.84	0.80	0.39	0.69
14788	90.63	3.05	94	9012.8	5844.65	5844.65	289.47	5851.81	2.84	1.03	-0.01	1.03

Minimum Radius of Curvature

API: 42-461-42518 **Well:** Allison 7-1280 D 23BL **Wellhead Location** **Lat:** 31.319980
Operator: Vital Energy **Area:** Midland **Long:** -101.869417
Rig: H&P 462 **Type:** U Lateral **Magnetic Declination:** 5.37
TD: 23,651' **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			
14835	90.94	7.05	47	9012.1	5891.45	5891.45	293.61	5898.76	2.85	8.54	0.66	8.51
14883	90.08	10.45	48	9011.7	5938.88	5938.88	300.91	5946.50	2.90	7.31	-1.79	7.08
14930	89.10	13.72	47	9012.0	5984.83	5984.83	310.75	5992.89	2.97	7.26	-2.09	6.96
14979	88.31	18.27	49	9013.2	6031.91	6031.91	324.24	6040.62	3.08	9.42	-1.61	9.29
15026	89.78	24.04	47	9013.9	6075.72	6075.72	341.20	6085.29	3.21	12.67	3.13	12.28
15074	87.20	27.16	48	9015.2	6118.98	6118.98	361.92	6129.67	3.38	8.43	-5.38	6.50
15121	88.84	28.98	47	9016.8	6160.42	6160.42	384.03	6172.38	3.57	5.21	3.49	3.87
15168	90.16	31.65	47	9017.2	6200.99	6200.99	407.75	6214.38	3.76	6.34	2.81	5.68
15200	90.20	33.26	32	9017.1	6227.99	6227.99	424.92	6242.47	3.90	5.03	0.13	5.03
15263	90.85	36.68	63	9016.6	6279.61	6279.61	461.02	6296.51	4.20	5.53	1.03	5.43
15358	90.55	39.88	95	9015.4	6354.17	6354.17	519.86	6375.40	4.68	3.38	-0.32	3.37
15405	90.60	42.09	47	9014.9	6389.64	6389.64	550.68	6413.33	4.93	4.70	0.11	4.70
15452	90.66	43.29	47	9014.4	6424.19	6424.19	582.55	6450.54	5.18	2.56	0.13	2.55
15547	90.64	47.15	95	9013.3	6491.09	6491.09	649.96	6523.55	5.72	4.06	-0.02	4.06
15594	90.65	48.89	47	9012.8	6522.52	6522.52	684.90	6558.38	5.99	3.70	0.02	3.70
15642	90.71	50.53	48	9012.2	6553.56	6553.56	721.51	6593.15	6.28	3.42	0.12	3.42
15737	91.58	54.24	95	9010.3	6611.52	6611.52	796.73	6659.35	6.87	4.01	0.92	3.91
15832	93.23	61.45	95	9006.3	6662.00	6662.00	877.03	6719.48	7.50	7.78	1.74	7.59
15926	89.45	66.44	94	9004.1	6703.25	6703.25	961.41	6771.85	8.16	6.66	-4.02	5.31
16021	90.32	74.38	95	9004.3	6735.08	6735.08	1050.84	6816.57	8.87	8.41	0.92	8.36
16116	89.94	82.28	95	9004.1	6754.28	6754.28	1143.80	6850.44	9.61	8.33	-0.40	8.32
16211	92.38	91.45	95	9002.2	6759.47	6759.47	1238.53	6872.00	10.38	9.99	2.57	9.65
16306	90.97	99.69	95	8999.4	6750.26	6750.26	1332.96	6880.61	11.17	8.80	-1.48	8.67
16400	88.58	107.10	94	8999.8	6728.50	6728.50	1424.33	6877.61	11.95	8.28	-2.54	7.88
16495	89.27	115.19	95	9001.6	6694.27	6694.27	1512.85	6863.08	12.73	8.55	0.73	8.52
16590	91.06	125.25	95	9001.3	6646.52	6646.52	1594.83	6835.18	13.49	10.76	1.88	10.59
16685	91.13	131.76	95	8999.5	6587.41	6587.41	1669.12	6795.58	14.22	6.85	0.07	6.85
16780	90.28	137.95	95	8998.3	6520.45	6520.45	1736.42	6747.69	14.91	6.58	-0.89	6.52
16875	88.98	140.04	95	8998.9	6448.76	6448.76	1798.75	6694.92	15.59	2.59	-1.37	2.20
16970	88.81	142.81	95	9000.7	6374.51	6374.51	1857.97	6639.76	16.25	2.92	-0.18	2.92
17065	89.55	146.88	95	9002.1	6296.86	6296.86	1912.65	6580.94	16.90	4.35	0.78	4.28
17160	90.77	151.72	95	9001.8	6215.20	6215.20	1961.13	6517.27	17.51	5.25	1.28	5.09
17254	90.00	154.30	94	9001.2	6131.45	6131.45	2003.79	6450.57	18.10	2.86	-0.82	2.74
17350	87.97	157.16	96	9002.9	6043.96	6043.96	2043.24	6379.99	18.68	3.65	-2.11	2.98
17443	90.39	164.13	93	9004.2	5956.29	5956.29	2074.03	6307.06	19.20	7.93	2.60	7.49
17538	91.64	171.68	95	9002.6	5863.48	5863.48	2093.92	6226.15	19.65	8.05	1.32	7.95
17632	92.21	179.39	94	8999.4	5769.89	5769.89	2101.23	6140.59	20.01	8.22	0.61	8.20
17727	92.50	183.89	95	8995.5	5675.04	5675.04	2098.52	6050.60	20.29	4.74	0.31	4.74
17821	90.84	183.89	94	8992.7	5581.30	5581.30	2092.14	5960.53	20.55	1.77	-1.77	0.00
17917	88.97	183.46	96	8992.9	5485.50	5485.50	2085.99	5868.73	20.82	2.00	-1.95	-0.45
18012	88.76	183.63	95	8994.8	5390.70	5390.70	2080.12	5778.11	21.10	0.28	-0.22	0.18
18106	88.22	182.67	94	8997.3	5296.87	5296.87	2074.95	5688.79	21.39	1.17	-0.57	-1.02
18200	89.98	183.26	94	8998.7	5203.02	5203.02	2070.09	5599.70	21.70	1.97	1.87	0.63
18295	89.63	183.83	95	8999.1	5108.20	5108.20	2064.22	5509.51	22.00	0.70	-0.37	0.60
18389	89.96	183.66	94	8999.4	5014.40	5014.40	2058.08	5420.32	22.31	0.39	0.35	-0.18
18484	87.39	182.54	95	9001.6	4919.57	4919.57	2052.94	5330.74	22.65	2.95	-2.71	-1.18
18578	89.43	184.44	94	9004.2	4825.79	4825.79	2047.22	5242.08	22.99	2.97	2.17	2.02
18673	89.10	184.31	95	9005.4	4731.08	4731.08	2039.98	5152.15	23.33	0.37	-0.35	-0.14
18767	89.63	180.32	94	9006.5	4637.18	4637.18	2036.18	5064.53	23.71	4.28	0.56	-4.24
18862	89.15	180.09	95	9007.5	4542.19	4542.19	2035.84	4977.56	24.14	0.56	-0.51	-0.24
18957	89.08	179.84	95	9008.9	4447.20	4447.20	2035.90	4891.06	24.60	0.27	-0.07	-0.26
19051	89.34	179.64	94	9010.2	4353.21	4353.21	2036.32	4805.94	25.07	0.35	0.28	-0.21
19146	89.72	179.64	95	9011.0	4258.21	4258.21	2036.92	4720.32	25.56	0.40	0.40	0.00
19240	89.77	179.83	94	9011.4	4164.21	4164.21	2037.36	4635.89	26.07	0.21	0.05	0.20
19335	88.49	179.43	95	9012.9	4069.23	4069.23	2037.97	4551.04	26.60	1.41	-1.35	-0.42
19429	89.65	179.90	94	9014.4	3975.25	3975.25	2038.52	4467.45	27.15	1.33	1.23	0.50
19618	89.35	179.30	189	9016.1	3786.26	3786.26	2039.84	4300.78	28.31	0.35	-0.16	-0.32
19807	90.02	180.68	189	9017.1	3597.27	3597.27	2039.87	4135.38	29.56	0.81	0.35	0.73

Minimum Radius of Curvature

API: 42-461-42518 **Well: Allison 7-1280 D 23BL** **Wellhead Location** **Lat: 31.319980**
Operator: Vital Energy **Area: Midland** **Long: -101.869417**
Rig: H&P 462 **Type: U Lateral** **Magnetic Declination: 5.37**
TD: 23,651' **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			
19901	89.78	180.32	94	9017.3	3503.27	3503.27	2039.05	4053.47	30.20	0.46	-0.26	-0.38
19996	89.37	180.97	95	9018.0	3408.28	3408.28	2037.98	3971.11	30.88	0.81	-0.43	0.68
20090	89.76	180.77	94	9018.7	3314.29	3314.29	2036.55	3890.00	31.57	0.47	0.41	-0.21
20184	89.89	180.54	94	9019.0	3220.30	3220.30	2035.48	3809.66	32.30	0.28	0.14	-0.24
20279	89.66	180.51	95	9019.3	3125.31	3125.31	2034.61	3729.23	33.06	0.24	-0.24	-0.03
20373	90.05	180.52	94	9019.6	3031.31	3031.31	2033.76	3650.35	33.86	0.42	0.41	0.01
20467	89.44	180.31	94	9020.0	2937.31	2937.31	2033.08	3572.29	34.69	0.69	-0.65	-0.22
20561	90.05	181.02	94	9020.4	2843.32	2843.32	2031.99	3494.78	35.55	1.00	0.65	0.76
20656	89.71	180.06	95	9020.6	2748.33	2748.33	2031.10	3417.41	36.47	1.07	-0.36	-1.01
20750	90.34	181.36	94	9020.6	2654.34	2654.34	2029.93	3341.58	37.41	1.54	0.67	1.38
20845	90.09	181.12	95	9020.2	2559.36	2559.36	2027.88	3265.37	38.39	0.36	-0.26	-0.25
20939	90.65	181.64	94	9019.6	2465.39	2465.39	2025.61	3190.81	39.41	0.81	0.60	0.55
21033	89.13	180.00	94	9019.8	2371.41	2371.41	2024.27	3117.89	40.48	2.38	-1.62	-1.74
21128	89.61	181.43	95	9020.8	2276.42	2276.42	2023.08	3045.48	41.63	1.59	0.51	1.51
21223	89.77	181.52	95	9021.3	2181.46	2181.46	2020.64	2973.50	42.81	0.19	0.17	0.09
21317	89.74	181.35	94	9021.8	2087.49	2087.49	2018.28	2903.63	44.03	0.18	-0.03	-0.18
21411	89.24	181.98	94	9022.6	1993.53	1993.53	2015.55	2834.89	45.31	0.86	-0.53	0.67
21506	88.86	182.16	95	9024.2	1898.60	1898.60	2012.12	2766.47	46.66	0.44	-0.40	0.19
21601	88.99	182.06	95	9025.9	1803.69	1803.69	2008.62	2699.60	48.08	0.17	0.14	-0.11
21696	91.35	182.95	95	9025.7	1708.78	1708.78	2004.47	2633.98	49.55	2.65	2.48	0.94
21790	89.56	181.66	94	9024.9	1614.87	1614.87	2000.69	2571.10	51.09	2.35	-1.90	-1.37
21885	90.79	182.68	95	9024.6	1519.94	1519.94	1997.10	2509.70	52.73	1.68	1.29	1.07
21979	90.34	182.58	94	9023.7	1426.05	1426.05	1992.78	2450.47	54.41	0.49	-0.48	-0.11
22074	90.09	182.49	95	9023.3	1331.14	1331.14	1988.58	2392.99	56.20	0.28	-0.26	-0.09
22168	89.28	181.85	94	9023.9	1237.21	1237.21	1985.02	2339.02	58.07	1.10	-0.86	-0.68
22263	91.42	183.00	95	9023.3	1142.30	1142.30	1981.00	2286.75	60.03	2.56	2.25	1.21
22357	91.73	182.43	94	9020.7	1048.44	1048.44	1976.55	2237.41	62.06	0.69	0.33	-0.61
22452	90.50	181.47	95	9018.8	953.52	953.52	1973.32	2191.62	64.21	1.64	-1.29	-1.01
22546	90.50	180.84	94	9018.0	859.54	859.54	1971.42	2150.66	66.44	0.67	0.00	-0.67
22640	89.80	180.37	94	9017.8	765.55	765.55	1970.43	2113.92	68.77	0.90	-0.74	-0.50
22735	90.30	180.98	95	9017.7	670.56	670.56	1969.31	2080.35	71.20	0.83	0.53	0.64
22829	90.90	181.63	94	9016.7	576.59	576.59	1967.17	2049.93	73.66	0.94	0.64	0.69
23018	89.85	181.11	189	9015.5	387.65	387.65	1962.65	2000.57	78.83	0.62	-0.56	-0.28
23112	89.43	180.77	94	9016.1	293.66	293.66	1961.11	1982.98	81.48	0.57	-0.45	-0.36
23207	90.35	181.41	95	9016.3	198.68	198.68	1959.30	1969.35	84.21	1.18	0.97	0.67
23301	90.52	182.11	94	9015.5	104.73	104.73	1956.42	1959.22	86.94	0.77	0.18	0.74
23478	89.27	181.18	177	9015.9	-72.19	-72.19	1951.34	1952.67	92.12	0.88	-0.71	-0.53
23584	89.30	181.23	106	9017.2	-178.16	-178.16	1949.11	1957.23	95.22	0.06	0.03	0.05
23651	89.30	181.23	67	9018.0	-245.14	-245.14	1947.67	1963.04	97.17	0.00	0.00	0.00