

Minimum Radius of Curvature

API: 42-389-40508 **Well: Sunnyside State 2 B4HU ST01** **Wellhead Location N+/S- : 31.728492**
Operator: PDC **Area: Orla** **E+/W- : -104.016957**
Rig: Citadel 4 **Type: U-Lateral** **Magnetic Declination: 6.50**
TD: 20,170' **Plane of Proposal: 1.84**

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			
201	1.11	248.47	201	201.0	-29.14	-0.71	-1.81	1.95	248.47	0.55	0.55	123.62
293	1.13	249.18	92	293.0	-29.85	-1.36	-3.49	3.75	248.64	0.03	0.02	0.77
385	0.93	256.02	92	385.0	-30.40	-1.87	-5.06	5.39	249.75	0.25	-0.22	7.43
477	0.71	233.56	92	476.9	-30.96	-2.39	-6.24	6.68	249.09	0.42	-0.24	-24.41
569	1.15	210.95	92	568.9	-32.12	-3.52	-7.18	7.99	243.90	0.61	0.48	-24.58
662	0.94	179.28	93	661.9	-33.69	-5.08	-7.65	9.18	236.41	0.65	-0.23	-34.05
754	1.00	146.45	92	753.9	-35.10	-6.50	-7.19	9.70	227.89	0.60	0.07	-35.68
847	1.14	137.73	93	846.9	-36.43	-7.86	-6.12	9.97	217.91	0.23	0.15	-9.38
941	1.36	128.61	94	940.9	-37.77	-9.25	-4.62	10.34	206.55	0.31	0.23	-9.70
1059	1.62	125.77	118	1058.8	-39.54	-11.10	-2.18	11.31	191.09	0.23	0.22	-2.41
1154	1.10	130.38	95	1153.8	-40.85	-12.48	-0.39	12.48	181.79	0.56	-0.55	4.85
1249	0.66	162.58	95	1248.8	-41.94	-13.59	0.47	13.60	178.03	0.68	-0.46	33.89
1343	1.57	165.00	94	1342.8	-43.68	-15.35	0.96	15.38	176.41	0.97	0.97	2.57
1437	2.34	192.94	94	1436.7	-46.80	-18.46	0.87	18.48	177.31	1.28	0.82	29.72
1531	3.11	214.14	94	1530.6	-50.84	-22.44	-0.99	22.47	182.54	1.34	0.82	22.55
1625	3.05	224.97	94	1624.5	-54.82	-26.32	-4.19	26.66	189.05	0.62	-0.06	11.52
1719	2.92	239.64	94	1718.4	-57.92	-29.30	-8.03	30.38	195.32	0.82	-0.14	15.61
1814	3.41	242.00	95	1813.2	-60.61	-31.85	-12.61	34.26	201.60	0.53	0.52	2.48
1908	3.62	241.86	94	1907.0	-63.49	-34.57	-17.69	38.83	207.11	0.22	0.22	-0.15
2003	4.10	247.38	95	2001.8	-66.39	-37.29	-23.47	44.06	212.19	0.64	0.51	5.81
2097	4.56	246.97	94	2095.5	-69.36	-40.04	-30.01	50.04	216.86	0.49	0.49	-0.44
2191	4.34	233.71	94	2189.3	-73.12	-43.61	-36.32	56.75	219.79	1.12	-0.23	-14.11
2285	4.17	221.45	94	2283.0	-77.95	-48.27	-41.45	63.63	220.65	0.98	-0.18	-13.04
2379	4.04	214.01	94	2376.8	-83.39	-53.58	-45.56	70.33	220.38	0.58	-0.14	-7.91
2473	3.91	205.78	94	2470.5	-89.12	-59.21	-48.81	76.74	219.50	0.62	-0.14	-8.76
2568	3.89	201.72	95	2565.3	-95.11	-65.12	-51.41	82.97	218.29	0.29	-0.02	-4.27
2662	3.62	201.55	94	2659.1	-100.90	-70.84	-53.68	88.89	217.15	0.29	-0.29	-0.18
2756	3.31	203.91	94	2752.9	-106.21	-76.09	-55.87	94.40	216.29	0.36	-0.33	2.51
2851	3.26	203.89	95	2847.8	-111.26	-81.06	-58.08	99.72	215.62	0.05	-0.05	-0.02
2945	3.28	203.80	94	2941.6	-116.23	-85.97	-60.24	104.97	215.02	0.02	0.02	-0.10
3039	3.20	205.24	94	3035.5	-121.13	-90.80	-62.45	110.20	214.52	0.12	-0.09	1.53
3133	3.24	204.60	94	3129.3	-125.99	-95.59	-64.67	115.41	214.08	0.06	0.04	-0.68
3228	3.14	200.64	95	3224.2	-130.93	-100.46	-66.71	120.59	213.58	0.25	-0.11	-4.17
3322	3.23	197.41	94	3318.0	-135.91	-105.40	-68.41	125.65	212.98	0.21	0.10	-3.44
3416	3.20	197.98	94	3411.9	-140.99	-110.42	-70.01	130.75	212.38	0.05	-0.03	0.61
3511	3.21	195.26	95	3506.8	-146.12	-115.51	-71.53	135.86	211.77	0.16	0.01	-2.86
3605	3.01	196.00	94	3600.6	-151.07	-120.42	-72.90	140.77	211.19	0.22	-0.21	0.79
3699	3.04	197.15	94	3694.5	-155.87	-125.18	-74.32	145.57	210.70	0.07	0.03	1.22
3793	2.90	196.95	94	3788.4	-160.57	-129.83	-75.74	150.31	210.26	0.15	-0.15	-0.21
3887	2.72	193.72	94	3882.2	-165.05	-134.27	-76.97	154.77	209.82	0.25	-0.19	-3.44
3982	2.82	193.72	95	3977.1	-169.54	-138.73	-78.06	159.18	209.36	0.11	0.11	0.00
4076	2.86	191.27	94	4071.0	-174.12	-143.28	-79.06	163.65	208.89	0.14	0.04	-2.61
4170	2.85	190.29	94	4164.9	-178.74	-147.88	-79.94	168.10	208.39	0.05	-0.01	-1.04
4264	2.73	189.41	94	4258.8	-183.27	-152.39	-80.72	172.45	207.91	0.14	-0.13	-0.94
4359	3.23	194.99	95	4353.7	-188.12	-157.20	-81.78	177.21	207.49	0.61	0.53	5.87
4453	3.54	196.22	94	4447.5	-193.51	-162.55	-83.28	182.64	207.13	0.34	0.33	1.31
4547	3.38	197.89	94	4541.3	-198.99	-167.97	-84.94	188.23	206.82	0.20	-0.17	1.78
4642	3.18	199.91	95	4636.2	-204.18	-173.11	-86.70	193.61	206.60	0.24	-0.21	2.13
4736	2.91	198.78	94	4730.0	-208.94	-177.83	-88.35	198.57	206.42	0.29	-0.29	-1.20
4831	2.76	196.21	95	4824.9	-213.47	-182.30	-89.77	203.21	206.22	0.21	-0.16	-2.71
4925	2.50	192.77	94	4918.8	-217.67	-186.48	-90.85	207.43	205.98	0.32	-0.28	-3.66
5020	3.23	199.04	95	5013.7	-222.26	-191.03	-92.19	212.11	205.76	0.84	0.77	6.60
5114	3.43	201.36	94	5107.5	-227.44	-196.15	-94.07	217.54	205.62	0.26	0.21	2.47
5208	3.31	205.44	94	5201.4	-232.58	-201.22	-96.26	223.06	205.57	0.29	-0.13	4.34
5302	3.27	205.90	94	5295.2	-237.51	-206.08	-98.60	228.45	205.57	0.05	-0.04	0.49
5396	3.27	207.46	94	5389.1	-242.38	-210.87	-101.01	233.82	205.59	0.09	0.00	1.66
5490	3.23	209.54	94	5482.9	-247.14	-215.56	-103.55	239.14	205.66	0.13	-0.04	2.21

Minimum Radius of Curvature

API: 42-389-40508 **Well: Sunnyside State 2 B4HU ST01** **Wellhead Location N+/S- : 31.728492**
Operator: PDC **Area: Orla** **E+/W- : -104.016957**
Rig: Citadel 4 **Type: U-Lateral** **Magnetic Declination: 6.50**
TD: 20,170' **Plane of Proposal: 1.84**

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			
5584	3.08	207.79	94	5576.8	-251.76	-220.09	-106.03	244.30	205.72	0.19	-0.16	-1.86
5679	2.89	207.00	95	5671.7	-256.22	-224.48	-108.31	249.25	205.76	0.20	-0.20	-0.83
5773	2.77	207.32	94	5765.5	-260.41	-228.61	-110.43	253.89	205.78	0.13	-0.13	0.34
5867	2.53	207.00	94	5859.4	-264.34	-232.48	-112.41	258.23	205.81	0.26	-0.26	-0.34
5962	2.91	205.65	95	5954.3	-268.45	-236.52	-114.41	262.74	205.81	0.41	0.40	-1.42
6056	2.90	205.30	94	6048.2	-272.81	-240.82	-116.46	267.50	205.81	0.02	-0.01	-0.37
6150	2.47	205.40	94	6142.1	-276.85	-244.80	-118.34	271.91	205.80	0.46	-0.46	0.11
6245	2.02	204.52	95	6237.0	-280.27	-248.18	-119.91	275.63	205.79	0.48	-0.47	-0.93
6338	1.68	191.05	93	6330.0	-283.13	-251.00	-120.86	278.59	205.71	0.59	-0.37	-14.48
6432	1.84	193.33	94	6423.9	-285.97	-253.83	-121.47	281.39	205.57	0.19	0.17	2.43
6527	1.56	186.22	95	6518.9	-288.75	-256.60	-121.96	284.10	205.42	0.37	-0.29	-7.48
6621	1.43	189.24	94	6612.9	-291.19	-259.02	-122.29	286.44	205.27	0.16	-0.14	3.21
6715	0.85	179.37	94	6706.8	-293.05	-260.88	-122.47	288.20	205.15	0.65	-0.62	-10.50
6809	1.44	59.20	94	6800.8	-293.11	-260.97	-121.45	287.85	204.96	2.13	0.63	-127.84
6904	1.11	70.39	95	6895.8	-292.13	-260.05	-119.55	286.22	204.69	0.43	-0.35	11.78
6998	0.21	47.16	94	6989.8	-291.68	-259.63	-118.57	285.42	204.55	0.98	-0.96	-24.71
7092	0.73	289.78	94	7083.8	-291.37	-259.31	-119.01	285.31	204.65	0.90	0.55	258.11
7187	0.94	281.49	95	7178.8	-291.05	-258.95	-120.34	285.55	204.93	0.25	0.22	-8.73
7281	1.51	256.53	94	7272.8	-291.25	-259.08	-122.30	286.50	205.27	0.82	0.61	-26.55
7375	1.45	250.08	94	7366.7	-292.02	-259.78	-124.62	288.12	205.63	0.19	-0.06	-6.86
7388	1.49	245.28	13	7379.7	-292.15	-259.91	-124.93	288.37	205.67	1.00	0.31	-36.92
7470	1.41	254.97	82	7461.7	-292.92	-260.61	-126.87	289.85	205.96	0.31	-0.10	11.82
7566	1.31	259.98	96	7557.7	-293.49	-261.11	-129.09	291.28	206.31	0.16	-0.10	5.22
7660	1.25	260.83	94	7651.7	-293.91	-261.46	-131.16	292.52	206.64	0.07	-0.06	0.90
7755	1.30	260.15	95	7746.6	-294.33	-261.81	-133.25	293.77	206.97	0.05	0.05	-0.72
7848	1.19	260.87	93	7839.6	-294.72	-262.14	-135.24	294.97	207.29	0.12	-0.12	0.77
7943	1.33	275.43	95	7934.6	-294.84	-262.20	-137.31	295.98	207.64	0.37	0.15	15.33
8037	1.54	278.49	94	8028.6	-294.63	-261.91	-139.65	296.81	208.07	0.24	0.22	3.26
8132	1.43	278.09	95	8123.5	-294.35	-261.55	-142.09	297.65	208.51	0.12	-0.12	-0.42
8226	1.44	273.52	94	8217.5	-294.19	-261.31	-144.43	298.57	208.93	0.12	0.01	-4.86
8320	1.34	274.83	94	8311.5	-294.10	-261.15	-146.70	299.53	209.33	0.11	-0.11	1.39
8414	1.30	258.84	94	8405.4	-294.28	-261.26	-148.84	300.68	209.67	0.39	-0.04	-17.01
8509	1.05	233.44	95	8500.4	-295.06	-261.99	-150.60	302.19	209.89	0.60	-0.26	-26.74
8603	1.05	217.64	94	8594.4	-296.29	-263.18	-151.82	303.83	209.98	0.31	0.00	-16.81
8697	1.14	210.52	94	8688.4	-297.81	-264.67	-152.82	305.62	210.00	0.17	0.10	-7.57
8791	1.26	200.40	94	8782.4	-299.61	-266.45	-153.65	307.57	209.97	0.26	0.13	-10.77
8885	1.19	204.59	94	8876.4	-301.49	-268.30	-154.42	309.57	209.92	0.12	-0.07	4.46
8979	1.24	204.31	94	8970.3	-303.33	-270.12	-155.24	311.55	209.89	0.05	0.05	-0.30
9073	1.26	211.80	94	9064.3	-305.17	-271.92	-156.21	313.59	209.88	0.17	0.02	7.97
9168	1.24	207.96	95	9159.3	-307.00	-273.72	-157.24	315.67	209.88	0.09	-0.02	-4.04
9201	1.12	206.53	33	9192.3	-307.61	-274.32	-157.55	316.34	209.87	0.37	-0.36	-4.33
9295	1.95	8.55	94	9286.3	-306.86	-273.56	-157.72	315.77	209.97	3.23	0.88	-210.62
9390	8.61	4.17	95	9380.8	-298.14	-264.86	-156.96	307.88	210.65	7.02	7.01	-4.61
9483	16.49	3.91	93	9471.5	-277.96	-244.72	-155.56	289.97	212.44	8.47	8.47	-0.28
9578	25.19	6.33	95	9560.2	-244.26	-211.11	-152.40	260.37	215.83	9.20	9.16	2.55
9672	35.79	5.78	94	9641.1	-196.76	-163.74	-147.41	220.32	222.00	11.28	11.28	-0.59
9766	47.79	5.27	94	9711.1	-134.36	-101.50	-141.43	174.08	234.33	12.77	12.77	-0.54
9860	57.76	4.45	94	9767.9	-59.71	-27.02	-135.13	137.80	258.69	10.63	10.61	-0.87
9954	66.28	3.81	94	9811.9	23.16	55.71	-129.17	140.67	293.33	9.08	9.06	-0.68
10049	75.25	3.40	95	9843.2	112.72	145.13	-123.55	190.60	319.59	9.45	9.44	-0.43
10139	83.45	3.75	90	9859.8	201.05	233.34	-118.03	261.49	333.17	9.12	9.11	0.39
10233	86.47	2.33	94	9868.1	294.66	326.83	-113.07	345.83	340.92	3.55	3.21	-1.51
10327	86.62	359.96	94	9873.7	388.47	420.63	-111.20	435.08	345.19	2.52	0.16	380.46
10422	86.71	0.10	95	9879.2	483.26	515.47	-111.15	527.32	347.83	0.17	0.09	-378.80
10516	86.37	0.16	94	9884.9	577.05	609.30	-110.93	619.31	349.68	0.37	-0.36	0.06
10610	86.92	359.89	94	9890.4	670.84	703.14	-110.89	711.83	351.04	0.65	0.59	382.69
10704	87.06	0.00	94	9895.4	764.66	797.01	-110.98	804.70	352.07	0.19	0.15	-382.86
10798	86.75	359.64	94	9900.4	858.46	890.87	-111.28	897.79	352.88	0.50	-0.33	382.60

Minimum Radius of Curvature

API: 42-389-40508 **Well: Sunnyside State 2 B4HU ST01** **Wellhead Location N+/S- : 31.728492**
Operator: PDC **Area: Orla** **E+/W- : -104.016957**
Rig: Citadel 4 **Type: U-Lateral** **Magnetic Declination: 6.50**
TD: 20,170' **Plane of Proposal: 1.84**

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			
10892	86.76	0.15	94	9905.8	952.26	984.72	-111.45	991.00	353.54	0.54	0.01	-382.44
10986	86.58	359.84	94	9911.2	1046.05	1078.56	-111.46	1084.30	354.10	0.38	-0.19	382.65
11080	86.95	0.20	94	9916.5	1139.85	1172.41	-111.43	1177.69	354.57	0.55	0.39	-382.60
11174	86.63	1.73	94	9921.8	1233.69	1266.24	-109.84	1271.00	355.04	1.66	-0.34	1.63
11268	86.66	2.77	94	9927.3	1327.53	1360.01	-106.16	1364.15	355.54	1.10	0.03	1.11
11362	86.67	2.85	94	9932.8	1421.36	1453.74	-101.56	1457.28	356.00	0.09	0.01	0.09
11456	88.87	1.84	94	9936.4	1515.27	1547.58	-97.72	1550.66	356.39	2.57	2.34	-1.07
11550	88.56	2.64	94	9938.5	1609.25	1641.48	-94.05	1644.18	356.72	0.91	-0.33	0.85
11644	88.64	2.53	94	9940.8	1703.21	1735.36	-89.81	1737.68	357.04	0.14	0.09	-0.12
11738	89.71	2.29	94	9942.2	1797.19	1829.27	-85.85	1831.28	357.31	1.17	1.14	-0.26
11832	89.50	1.64	94	9942.8	1891.19	1923.21	-82.63	1924.98	357.54	0.73	-0.22	-0.69
11926	89.57	1.95	94	9943.6	1985.19	2017.16	-79.69	2018.73	357.74	0.34	0.07	0.33
12020	89.40	2.74	94	9944.4	2079.18	2111.08	-75.84	2112.44	357.94	0.86	-0.18	0.84
12114	89.75	2.26	94	9945.1	2173.17	2204.98	-71.74	2206.15	358.14	0.63	0.37	-0.51
12208	89.73	2.42	94	9945.5	2267.17	2298.90	-67.90	2299.91	358.31	0.17	-0.02	0.17
12302	89.55	1.93	94	9946.1	2361.16	2392.83	-64.34	2393.70	358.46	0.56	-0.19	-0.52
12396	89.76	2.89	94	9946.7	2455.16	2486.75	-60.38	2487.48	358.61	1.05	0.22	1.02
12490	88.53	2.03	94	9948.1	2549.14	2580.65	-56.35	2581.26	358.75	1.60	-1.31	-0.91
12584	89.55	2.33	94	9949.7	2643.12	2674.57	-52.77	2675.09	358.87	1.13	1.09	0.32
12678	89.66	1.71	94	9950.3	2737.12	2768.50	-49.46	2768.95	358.98	0.67	0.12	-0.66
12773	89.64	2.42	95	9950.9	2832.11	2863.44	-46.04	2863.81	359.08	0.75	-0.02	0.75
12867	89.69	2.12	94	9951.5	2926.11	2957.37	-42.31	2957.67	359.18	0.32	0.05	-0.32
12962	89.69	2.25	95	9952.0	3021.11	3052.29	-38.69	3052.54	359.27	0.14	0.00	0.14
13056	89.69	1.84	94	9952.5	3115.10	3146.23	-35.34	3146.43	359.36	0.44	0.00	-0.44
13151	89.58	2.20	95	9953.1	3210.10	3241.17	-31.99	3241.33	359.43	0.40	-0.12	0.38
13245	89.61	2.12	94	9953.8	3304.10	3335.10	-28.45	3335.22	359.51	0.09	0.03	-0.09
13340	89.75	1.89	95	9954.3	3399.10	3430.04	-25.12	3430.14	359.58	0.28	0.15	-0.24
13434	89.61	1.60	94	9954.8	3493.09	3524.00	-22.26	3524.07	359.64	0.34	-0.15	-0.31
13529	89.54	1.73	95	9955.5	3588.09	3618.96	-19.50	3619.01	359.69	0.16	-0.07	0.14
13623	89.50	1.97	94	9956.3	3682.09	3712.90	-16.47	3712.94	359.75	0.26	-0.04	0.26
13717	89.48	2.71	94	9957.1	3776.08	3806.82	-12.63	3806.84	359.81	0.79	-0.02	0.79
13810	90.71	3.66	93	9957.0	3869.05	3899.67	-7.46	3899.68	359.89	1.67	1.32	1.02
13905	89.58	3.34	95	9956.7	3964.01	3994.49	-1.66	3994.49	359.98	1.24	-1.19	-0.34
13936	89.58	3.10	31	9957.0	3995.00	4025.44	0.08	4025.44	0.00	0.77	0.00	-0.77
13961	90.08	3.41	25	9957.0	4019.99	4050.40	1.50	4050.40	0.02	2.35	2.00	1.24
14055	90.91	346.44	94	9956.2	4112.96	4143.69	-6.78	4143.70	359.91	18.07	0.88	364.93
14149	90.97	343.54	94	9954.7	4202.91	4234.46	-31.12	4234.57	359.58	3.09	0.06	-3.09
14244	91.57	332.89	95	9952.6	4289.80	4322.53	-66.32	4323.04	359.12	11.23	0.63	-11.21
14338	89.61	324.85	94	9951.6	4368.59	4402.92	-114.87	4404.41	358.51	8.80	-2.09	-8.55
14432	87.83	317.50	94	9953.7	4439.82	4476.08	-173.75	4479.45	357.78	8.04	-1.89	-7.82
14526	85.74	304.82	94	9959.0	4499.17	4537.73	-244.25	4544.29	356.92	13.65	-2.22	-13.49
14620	92.66	292.43	94	9960.3	4541.41	4582.63	-326.55	4594.25	355.92	15.09	7.36	-13.18
14715	90.92	277.93	95	9957.3	4563.26	4607.42	-417.94	4626.34	354.82	15.36	-1.83	-15.26
14809	90.32	265.60	94	9956.3	4563.13	4610.31	-511.71	4638.62	353.67	13.13	-0.64	-13.12
14903	92.48	260.28	94	9954.0	4548.60	4598.77	-604.93	4638.38	352.51	6.11	2.30	-5.66
14997	88.71	252.64	94	9953.0	4523.69	4576.78	-696.23	4629.43	351.35	9.06	-4.01	-8.13
15091	87.58	248.71	94	9956.1	4489.78	4545.70	-784.86	4612.96	350.20	4.35	-1.20	-4.18
15186	89.05	241.78	95	9958.9	4447.29	4505.96	-871.04	4589.38	349.06	7.45	1.55	-7.29
15271	86.93	240.29	85	9961.9	4403.80	4464.82	-945.36	4563.81	348.05	3.05	-2.49	-1.75
15366	91.08	230.83	95	9963.5	4347.66	4411.17	-1023.59	4528.38	346.94	10.87	4.37	-9.96
15467	91.23	228.48	101	9961.5	4279.86	4345.81	-1100.54	4482.99	345.79	2.33	0.15	-2.33
15561	91.75	219.96	94	9959.0	4210.51	4278.52	-1166.02	4434.57	344.76	9.08	0.55	-9.06
15655	92.83	208.80	94	9955.3	4131.46	4201.13	-1218.97	4374.40	343.82	11.92	1.15	-11.87
15749	91.46	201.56	94	9951.7	4045.27	4116.18	-1258.91	4304.39	342.99	7.83	-1.46	-7.70
15843	90.39	190.90	94	9950.2	3954.36	4026.07	-1285.14	4226.21	342.30	11.40	-1.14	-11.34
15937	93.14	182.16	94	9947.3	3860.82	3932.83	-1295.82	4140.80	341.76	9.74	2.93	-9.30
16032	90.85	178.94	95	9944.0	3765.92	3837.91	-1296.73	4051.05	341.33	4.16	-2.41	-3.39
16125	90.34	176.89	93	9943.0	3673.15	3744.98	-1293.34	3962.02	340.95	2.27	-0.55	-2.20

Minimum Radius of Curvature

API: 42-389-40508 **Well: Sunnyside State 2 B4HU ST01** **Wellhead Location N+/S- : 31.728492**
Operator: PDC **Area: Orla** **E+/W- : -104.016957**
Rig: Citadel 4 **Type: U-Lateral** **Magnetic Declination: 6.50**
TD: 20,170' **Plane of Proposal: 1.84**

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			
16220	90.07	175.16	95	9942.7	3578.64	3650.21	-1286.76	3870.37	340.58	1.84	-0.28	-1.82
16314	92.17	175.75	94	9940.9	3485.25	3556.53	-1279.31	3779.62	340.22	2.32	2.23	0.63
16409	95.03	174.25	95	9934.9	3391.12	3462.09	-1271.05	3688.04	339.84	3.40	3.01	-1.58
16503	95.27	174.27	94	9926.5	3298.32	3368.94	-1261.69	3597.44	339.47	0.26	0.26	0.02
16598	94.50	175.35	95	9918.4	3204.38	3274.68	-1253.12	3506.25	339.06	1.39	-0.81	1.14
16692	94.23	175.33	94	9911.2	3111.25	3181.26	-1245.51	3416.39	338.62	0.29	-0.29	-0.02
16787	94.11	174.58	95	9904.3	3017.19	3086.88	-1237.18	3325.57	338.16	0.80	-0.13	-0.79
16882	94.01	174.29	95	9897.6	2923.22	2992.56	-1227.99	3234.72	337.69	0.32	-0.11	-0.31
16976	94.49	175.00	94	9890.6	2830.22	2899.23	-1219.24	3145.17	337.19	0.91	0.51	0.76
17071	92.35	176.99	95	9884.9	2735.89	2804.64	-1212.62	3055.56	336.62	3.07	-2.25	2.09
17165	92.69	176.44	94	9880.8	2642.35	2710.89	-1207.24	2967.55	336.00	0.69	0.36	-0.59
17258	93.18	179.44	93	9876.1	2549.70	2618.08	-1203.90	2881.62	335.31	3.26	0.53	3.23
17353	90.34	181.16	95	9873.1	2454.80	2523.14	-1204.40	2795.86	334.48	3.49	-2.99	1.81
17446	88.68	179.97	93	9873.9	2361.83	2430.15	-1205.31	2712.64	333.62	2.20	-1.78	-1.28
17541	91.74	180.81	95	9873.6	2266.87	2335.17	-1205.96	2628.18	332.69	3.34	3.22	0.88
17635	92.31	180.58	94	9870.3	2172.95	2241.23	-1207.10	2545.63	331.69	0.65	0.61	-0.24
17730	91.90	180.67	95	9866.8	2078.03	2146.30	-1208.14	2462.97	330.63	0.44	-0.43	0.09
17824	91.05	180.93	94	9864.3	1984.08	2052.35	-1209.45	2382.20	329.49	0.95	-0.90	0.28
17918	88.00	180.07	94	9865.1	1890.12	1958.36	-1210.27	2302.16	328.28	3.37	-3.24	-0.91
18012	85.87	179.68	94	9870.2	1796.32	1864.50	-1210.06	2222.75	327.02	2.30	-2.27	-0.41
18106	88.53	180.14	94	9874.7	1702.49	1770.63	-1209.92	2144.53	325.65	2.87	2.83	0.49
18200	87.72	180.22	94	9877.8	1608.58	1676.68	-1210.21	2067.81	324.18	0.87	-0.86	0.09
18294	87.90	180.41	94	9881.4	1514.68	1582.75	-1210.73	1992.72	322.59	0.28	0.19	0.20
18388	88.91	180.95	94	9884.0	1420.74	1488.79	-1211.84	1919.65	320.86	1.22	1.07	0.57
18482	87.13	178.65	94	9887.3	1326.87	1394.86	-1211.52	1847.54	319.02	3.09	-1.89	-2.45
18577	90.76	179.04	95	9889.0	1232.03	1299.91	-1209.60	1775.64	317.06	3.84	3.82	0.41
18671	91.86	179.91	94	9886.9	1138.14	1205.94	-1208.74	1707.44	314.93	1.49	1.17	0.93
18765	92.17	179.08	94	9883.6	1044.27	1112.00	-1207.91	1641.83	312.63	0.94	0.33	-0.88
18859	91.47	179.15	94	9880.6	950.43	1018.06	-1206.46	1578.61	310.16	0.75	-0.74	0.07
18953	91.06	179.33	94	9878.5	856.55	924.09	-1205.22	1518.71	307.48	0.48	-0.44	0.19
19048	90.73	179.65	95	9877.0	761.64	829.11	-1204.37	1462.17	304.54	0.48	-0.35	0.34
19142	90.00	179.29	94	9876.4	667.72	735.12	-1203.50	1410.25	301.42	0.87	-0.78	-0.38
19236	91.47	180.22	94	9875.2	573.80	641.13	-1203.10	1363.27	298.05	1.85	1.56	0.99
19330	89.69	179.50	94	9874.3	479.86	547.14	-1202.87	1321.46	294.46	2.04	-1.89	-0.77
19425	88.96	180.03	95	9875.4	384.93	452.15	-1202.48	1284.68	290.61	0.95	-0.77	0.56
19519	87.69	180.85	94	9878.1	291.00	358.19	-1203.20	1255.39	286.58	1.61	-1.35	0.87
19613	91.54	181.63	94	9878.8	197.03	264.23	-1205.23	1233.86	282.37	4.18	4.10	0.83
19708	93.42	182.61	95	9874.7	102.12	169.39	-1208.74	1220.56	277.98	2.23	1.98	1.03
19802	93.07	182.68	94	9869.3	8.28	75.64	-1213.08	1215.43	273.57	0.38	-0.37	0.07
19896	94.42	182.82	94	9863.2	-85.50	-18.04	-1217.58	1217.71	269.15	1.44	1.44	0.15
19990	94.19	182.47	94	9856.1	-179.23	-111.68	-1221.90	1226.99	264.78	0.44	-0.24	-0.37
20083	94.74	181.66	93	9848.9	-271.94	-204.34	-1225.24	1242.16	260.53	1.05	0.59	-0.87
20119	94.68	181.47	36	9845.9	-307.82	-240.20	-1226.22	1249.53	258.92	0.55	-0.17	-0.53
20170	94.68	181.47	51	9841.8	-358.65	-291.01	-1227.53	1261.55	256.66	0.00	0.00	0.00