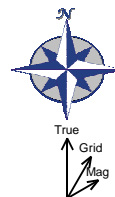
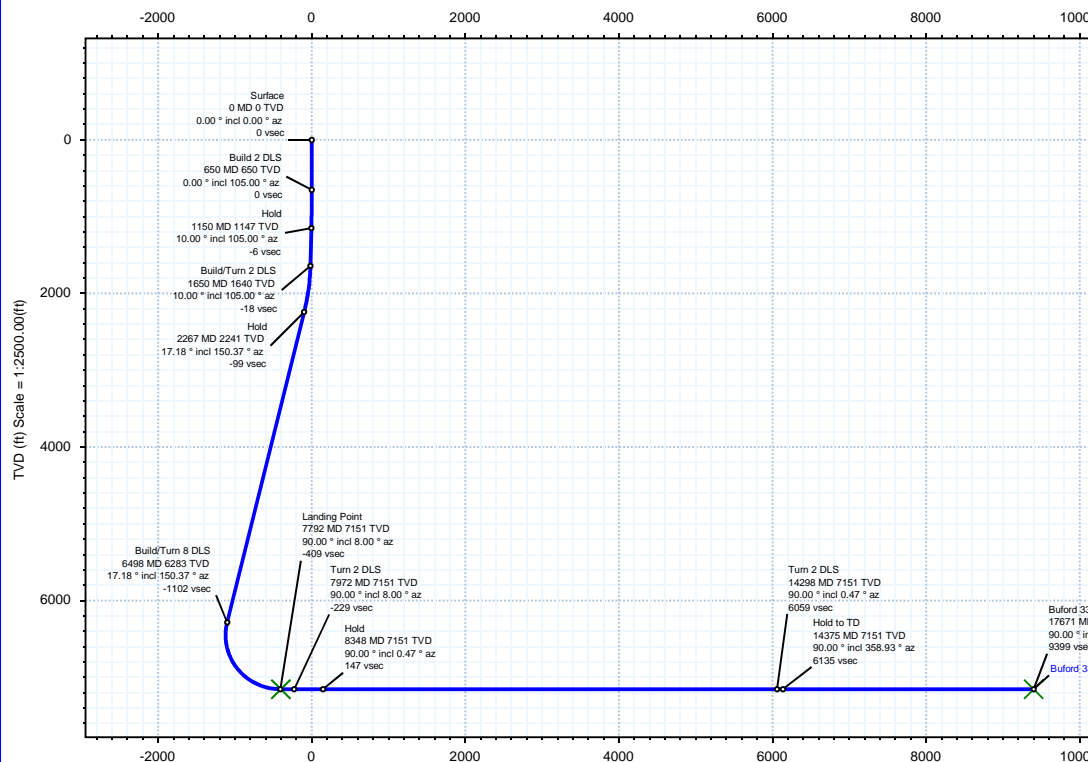


<b>Borehole:</b>	<b>Well:</b>	<b>Field:</b>	<b>Structure:</b>
Original Hole	Buford 33-7-1L	CO, Weld County (NAD 83 NZ) - 2019	Confluence 33-01N-65W (Freedom 33 Pad)

<b>Gravity &amp; Magnetic Parameters</b>	<b>Surface Location</b>	<b>NAD83 Colorado State Plane, Northern Zone, US Feet</b>	<b>Miscellaneous</b>
Model: HDGM 2022 Dip: 66.206° Date: 11-Jul-2022	Lat: N 40 0 10.91 Northing: 1245020.97ftUS Grid Conv: 0.5319°	Slot: Buford 33-7-1L TVD Ref: KB = 23ft(5101ft above MSL)	
MagDec: 7.862° FS: 51573.423nT Gravity FS: 998.983mgn (9.80665 Based)	Lon: W 104 40 36.52 Easting: 3230606.08ftUS Scale Fact: 0.99996614	Plan: Buford 33-7-1L R0 mdv 27Jul22	

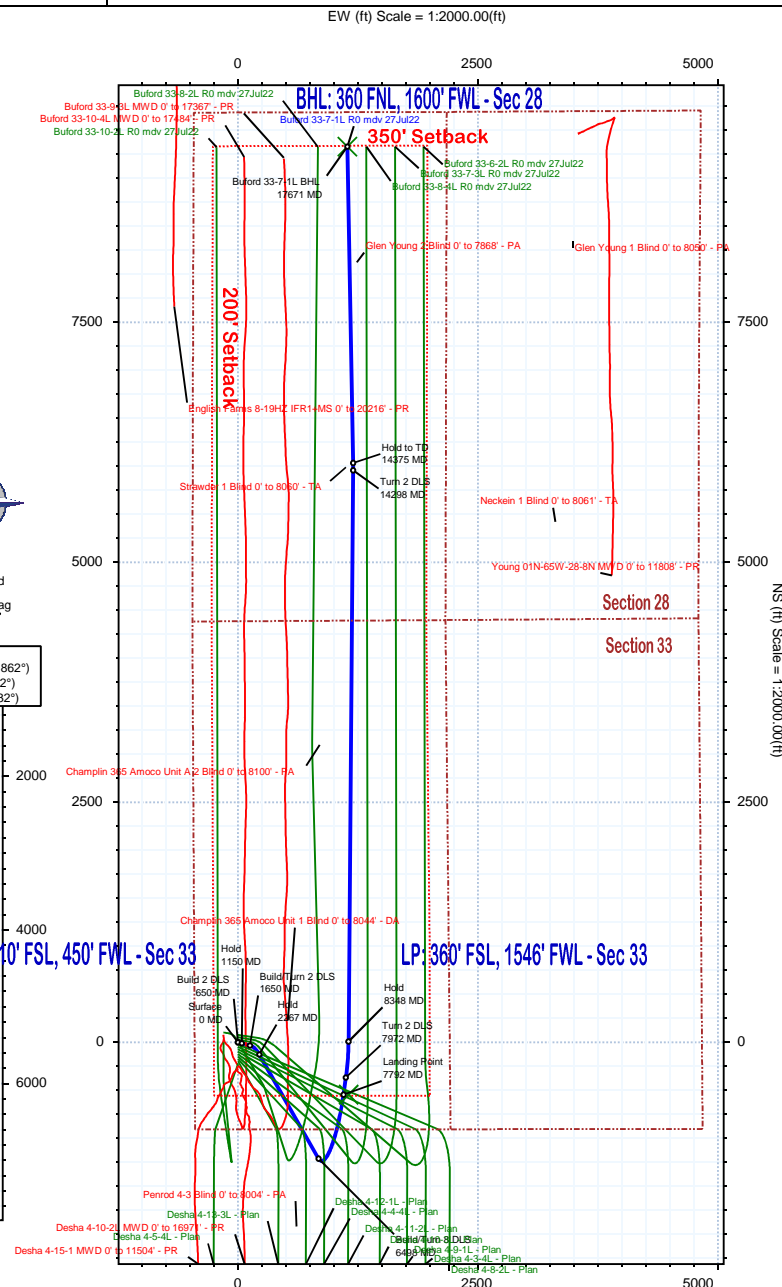
Target Description	Latitude	Longitude	Northing	Easting	TVD	VSec	N(+)/S(-)	E(+)/W(-)
Freedom 33 Pad Sec 33-28 - CL NS	N 40 0 11.66	W 104 40 36.52	1245097.47	3230605.37	5101.00	75.94	76.50	0.00
Freedom 33 Pad Sec 33-28 W2-	N 40 0 11.66	W 104 40 36.52	1245097.47	3230605.37	5101.00	75.94	76.50	0.00
350'NSx200'EW SB	N 40 0 10.91	W 104 40 38.42	1245019.60	3230457.61	5101.00	-18.01	0.00	-148.48
Freedom 33 Pad Sec 33-28 - CL	N 40 0 10.91	W 104 40 38.42	1245019.60	3230457.61	5101.00	-18.01	0.00	-148.48
Buford 33-7-1L BHL	N 40 1 43.10	W 104 40 21.86	1254360.25	3231659.17	7151.00	9398.80	9329.43	1139.79
Buford 33-7-1L LP	N 40 0 5.51	W 104 40 21.68	1244485.33	3231765.30	7151.00	-402.40	-546.40	1154.25

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 2 DLS	650.00	0.00	105.00	650.00	0.00	0.00	0.00	0.00
Hold	1150.00	10.00	105.00	1147.47	-6.08	-11.26	42.04	2.00
Build/Turn 2 DLS	1650.00	10.00	105.00	1639.87	-18.22	-33.74	125.91	0.00
Hold	2266.79	17.18	150.37	2240.55	-99.14	-127.12	223.04	2.00
Build/Turn 8 DLS	6497.58	17.18	150.37	6282.63	-1102.24	-1213.15	840.79	0.00
Landing Point	7792.65	90.00	8.00	7151.00	-408.97	-546.40	1100.00	8.00
Turn 2 DLS	7971.65	90.00	8.00	7151.00	-229.00	-368.16	1125.05	0.00
Hold	8348.15	90.00	0.47	7151.00	146.80	7.05	1152.83	2.00
Turn 2 DLS	14298.15	90.00	0.47	7151.00	6058.60	5956.85	1201.64	0.00
Hold to TD	14375.06	90.00	358.93	7151.00	6134.90	6033.76	1201.24	2.00
Buford 33-7-1L BHL	17671.31	90.00	358.93	7151.00	9398.80	9329.43	1139.79	0.00



SHL: 910' FSL, 450' FWL - Sec 33

LP: 360' FSL, 1546' FWL - Sec 33



## Buford 33-7-1L R0 mdv 27Jul22 Proposal Geodetic Report

(Def Plan)

**Report Date:** August 02, 2022 - 12:12 PM  
**Client:** Confluence DJ  
**Field:** CO, Weld County (NAD 83 NZ) - 2019  
**Structure / Slot:** Confluence 33-01N-65W (Freedom 33 Pad) / Buford 33-7-1L  
**Well:** Buford 33-7-1L  
**Borehole:** Original Hole  
**UWI / API#:** 05-123-45539  
**Survey Name:** Buford 33-7-1L R0 mdv 27Jul22  
**Survey Date:** July 11, 2022  
**Tort / AHD / DDI / ERD Ratio:** 134.930 ° / 12183.963 ft / 6.609 / 1.704  
**Coordinate Reference System:** NAD83 Colorado State Plane, Northern Zone, US Feet  
**Location Lat / Long:** N 40° 0' 10.90800", W 104° 40' 36.51600"  
**Location Grid N/E Y/X:** N 1245020.973 ftUS, E 3230606.076 ftUS  
**CRS Grid Convergence Angle:** 0.5319 °  
**Grid Scale Factor:** 0.99996614  
**Version / Patch:** 2.10.832.2

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 6.965 ° (True North)  
**Vertical Section Origin:** 0.000 ft, 0.000 ft  
**TVD Reference Datum:** KB = 23ft  
**TVD Reference Elevation:** 5101.000 ft above MSL  
**Seabed / Ground Elevation:** 5078.000 ft above MSL  
**Magnetic Declination:** 7.862 °  
**Total Gravity Field Strength:** 998.9830mgn (9.80665 Based)  
**Gravity Model:** GARM  
**Total Magnetic Field Strength:** 51573.423 nT  
**Magnetic Dip Angle:** 66.206 °  
**Declination Date:** July 11, 2022  
**Magnetic Declination Model:** HDGM 2022  
**North Reference:** True North  
**Grid Convergence Used:** 0.0000 °  
**Total Corr Mag North->True North:** 7.8624 °  
**Local Coord Referenced To:** Well Head

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)	
Surface	0.00	0.00	0.00	0.00	-5101.00	0.00	0.00	0.00	N/A	1245020.97	3230606.08	40.003030	-104.676810	
Build 2 DLS	100.00	0.00	105.00	100.00	-5001.00	0.00	0.00	0.00	0.00	1245020.97	3230606.08	40.003030	-104.676810	
	200.00	0.00	105.00	200.00	-4901.00	0.00	0.00	0.00	0.00	1245020.97	3230606.08	40.003030	-104.676810	
	300.00	0.00	105.00	300.00	-4801.00	0.00	0.00	0.00	0.00	1245020.97	3230606.08	40.003030	-104.676810	
	400.00	0.00	105.00	400.00	-4701.00	0.00	0.00	0.00	0.00	1245020.97	3230606.08	40.003030	-104.676810	
	500.00	0.00	105.00	500.00	-4601.00	0.00	0.00	0.00	0.00	1245020.97	3230606.08	40.003030	-104.676810	
	600.00	0.00	105.00	600.00	-4501.00	0.00	0.00	0.00	0.00	1245020.97	3230606.08	40.003030	-104.676810	
	650.00	0.00	105.00	650.00	-4451.00	0.00	0.00	0.00	0.00	1245020.97	3230606.08	40.003030	-104.676810	
	700.00	1.00	105.00	700.00	-4401.00	-0.06	-0.11	0.42	2.00	1245020.86	3230606.50	40.003030	-104.676808	
	800.00	3.00	105.00	799.93	-4301.07	-0.55	-1.02	3.79	2.00	1245019.99	3230609.88	40.003027	-104.676796	
	900.00	5.00	105.00	899.68	-4201.32	-1.52	-2.82	10.53	2.00	1245018.25	3230616.63	40.003022	-104.676772	
Hold	1000.00	7.00	105.00	999.13	-4101.87	-2.98	-5.53	20.63	2.00	1245015.64	3230626.75	40.003015	-104.676736	
	1100.00	9.00	105.00	1098.15	-4002.85	-4.93	-9.13	34.07	2.00	1245012.16	3230640.23	40.003005	-104.676688	
	1150.00	10.00	105.00	1147.47	-3953.53	-6.08	-11.26	42.04	2.00	1245010.10	3230648.22	40.002999	-104.676660	
	1200.00	10.00	105.00	1196.71	-3904.29	-7.30	-13.51	50.43	0.00	1245007.93	3230656.62	40.002993	-104.676630	
	1300.00	10.00	105.00	1295.18	-3805.81	-9.72	-18.01	67.20	0.00	1245003.59	3230673.44	40.002981	-104.676570	
	1400.00	10.00	105.00	1393.67	-3707.33	-12.15	-22.50	83.97	0.00	1244999.25	3230690.25	40.002968	-104.676510	
	1500.00	10.00	105.00	1492.15	-3608.85	-14.58	-26.99	100.75	0.00	1244994.92	3230707.06	40.002956	-104.676450	
	1600.00	10.00	105.00	1590.63	-3510.37	-17.01	-31.49	117.52	0.00	1244990.58	3230723.88	40.002944	-104.676391	
	Build/Turn 2 DLS	1650.00	10.00	105.00	1639.87	-3461.13	-18.22	-33.74	125.91	0.00	1244988.41	3230732.28	40.002937	-104.676361
	Hold	1700.00	10.23	110.55	1689.09	-3411.91	-19.87	-36.42	134.25	2.00	1244985.80	3230740.66	40.002930	-104.676331
1800.00		10.94	120.74	1787.40	-3313.60	-25.78	-44.39	150.73	2.00	1244977.99	3230757.20	40.002908	-104.676272	
1900.00		11.95	129.47	1885.42	-3215.58	-35.17	-55.82	166.87	2.00	1244966.71	3230773.45	40.002877	-104.676214	
2000.00		13.18	136.72	1983.03	-3117.97	-48.02	-70.70	182.68	2.00	1244951.98	3230789.40	40.002836	-104.676158	
2100.00		14.58	142.68	2080.11	-3020.89	-64.32	-89.01	198.13	2.00	1244933.81	3230805.01	40.002786	-104.676103	
2200.00		16.10	147.58	2176.55	-2924.45	-84.06	-110.73	213.20	2.00	1244912.23	3230820.28	40.002726	-104.676049	
2266.79		17.18	150.37	2240.55	-2860.45	-99.14	-127.12	223.04	2.00	1244895.93	3230830.28	40.002681	-104.676014	
2300.00		17.18	150.37	2272.27	-2828.73	-107.01	-136.65	227.89	0.00	1244887.45	3230835.20	40.002658	-104.675997	
2400.00		17.18	150.37	2367.81	-2733.19	-130.72	-161.32	242.49	0.00	1244861.92	3230850.04	40.002587	-104.675944	
2500.00		17.18	150.37	2463.35	-2637.65	-154.43	-186.99	257.09	0.00	1244836.39	3230864.88	40.002517	-104.675892	
Hold	2600.00	17.18	150.37	2558.89	-2542.11	-178.14	-212.66	271.69	0.00	1244810.86	3230879.72	40.002446	-104.675840	
	2700.00	17.18	150.37	2654.43	-2446.57	-201.85	-238.32	286.29	0.00	1244785.32	3230894.56	40.002376	-104.675788	
	2800.00	17.18	150.37	2749.97	-2351.03	-225.56	-263.99	300.89	0.00	1244759.79	3230909.40	40.002305	-104.675736	
	2900.00	17.18	150.37	2845.51	-2255.49	-249.27	-289.66	315.50	0.00	1244734.26	3230924.24	40.002235	-104.675684	
	3000.00	17.18	150.37	2941.05	-2159.95	-272.98	-315.33	330.10	0.00	1244708.73	3230939.07	40.002164	-104.675632	
	3100.00	17.18	150.37	3036.59	-2064.41	-296.69	-341.00	344.70	0.00	1244683.20	3230953.91	40.002094	-104.675580	
	3200.00	17.18	150.37	3132.13	-1968.87	-320.40	-366.67	359.30	0.00	1244657.66	3230968.75	40.002023	-104.675527	
	3300.00	17.18	150.37	3227.67	-1873.33	-344.10	-392.34	373.90	0.00	1244632.13	3230983.59	40.001953	-104.675475	
	3400.00	17.18	150.37	3323.21	-1777.79	-367.81	-418.01	388.50	0.00	1244606.60	3230998.43	40.001883	-104.675423	
	3500.00	17.18	150.37	3418.75	-1682.25	-391.52	-443.68	403.10	0.00	1244581.07	3231013.27	40.001812	-104.675371	
Hold	3600.00	17.18	150.37	3514.29	-1586.71	-415.23	-469.35	417.71	0.00	1244555.54	3231028.10	40.001742	-104.675319	
	3700.00	17.18	150.37	3609.83	-1491.17	-438.94	-495.02	432.31	0.00	1244530.00	3231042.94	40.001671	-104.675267	
	3800.00	17.18	150.37	3705.37	-1395.63	-462.65	-520.69	446.91	0.00	1244504.47	3231057.78	40.001601	-104.675215	
	3900.00	17.18	150.37	3800.91	-1300.09	-486.36	-546.36	461.51	0.00	1244478.94	3231072.62	40.001530	-104.675163	
	4000.00	17.18	150.37	3896.45	-1204.55	-510.07	-572.03	476.11	0.00	1244453.41	3231087.46	40.001460	-104.675111	
	4100.00	17.18	150.37	3991.99	-1109.01	-533.78	-597.70	490.71	0.00	1244427.88	3231102.30	40.001389	-104.675058	
	4200.00	17.18	150.37	4087.53	-1013.47	-557.49	-623.37	505.31	0.00	1244402.34	3231117.14	40.001319	-104.675006	
	4300.00	17.18	150.37	4183.07	-917.93	-581.20	-649.04	519.91	0.00	1244376.81	3231131.97	40.001248	-104.674954	
	4400.00	17.18	150.37	4278.61	-822.39	-604.91	-674.71	534.52	0.00	1244351.28	3231146.81	40.001178	-104.674902	
	4500.00	17.18	150.37	4374.15	-726.85	-628.62	-700.38	549.12	0.00	1244325.75	3231161.65	40.001107	-104.674850	
Build/Turn 8 DLS	4600.00	17.18	150.37	4469.69	-631.31	-652.33	-726.05	563.72	0.00	1244300.21	3231176.49	40.001037	-104.674798	
	4700.00	17.18	150.37	4565.23	-535.77	-676.04	-751.72	578.32	0.00	1244274.68	3231191.33	40.000966	-104.674746	
	4800.00	17.18	150.37	4660.77	-440.23	-699.75	-777.39	592.92	0.00	1244249.15	3231206.17	40.000896	-104.674694	
	4900.00	17.18	150.37	4756.31	-344.69	-723.46	-803.06	607.52	0.00	1244223.62	3231221.01	40.000826	-104.674642	
	5000.00	17.18	150.37	4851.85	-249.15	-747.17	-828.73	622.12	0.00	1244198.09	3231235.84	40.000755	-104.674589	
	5100.00	17.18	150.37	4947.39	-153.61	-770.88	-854.40	636.73	0.00	1244172.55	3231250.68	40.000685	-104.674537	
	5200.00	17.18	150.37	5042.93	-58.07	-794.59	-880.07	651.33	0.00	1244147.02	3231265.52	40.000614	-104.674485	
	5300.00	17.18	150.37	5138.47	37.47	-818.30	-905.74	665.93	0.00	1244121.49	3231280.36	40.000544	-104.674433	
	5400.00	17.18	150.37	5234.01	133.01	-842.01	-931.41	680.53	0.00	1244095.96	3231295.20	40.000473	-104.674381	
	5500.00	17.18	150.37	5329.55	228.55	-865.71	-957.08	695.13	0.00	1244070.43	3231310.04	40.000403	-104.674329	
Build/Turn 8 DLS	5600.00	17.18	150.37	5425.09	324.09	-889.42	-982.75	709.73	0.00	1244044.89	3231324.87	40.000332	-104.674277	
	5700.00	17.18	150.37	5520.63	419.63	-913.13	-1008.42	724.33	0.00	1244019.36	3231339.71	40.000262	-104.674225	
	5800.00	17.18	150.37	5616.17	515.17	-936.84	-1034.09	738.94	0.00	1243993.83	3231354.55	40.000191	-104.674172	
	5900.00	17.18	150.37	5711.71	610.71	-959.55	-1059.76	753.54	0.00	1243968.30	3231369.39	40.000121	-104.674120	
	6000.00	17.18	150.37	5807.25	706.25	-984.26	-1085.42	768.14	0.00	1243942.76	3231384.23	40.000050	-104.674068	
	6100.00	17.18	150.37	5902.79	801.79	-1007.97	-1111.09	782.74	0.00	1243917.23	3231399.07	39.999980	-104.674016	
	6200.00	17.18	150.37	5998.33	897.33	-1031.68	-1136.76	797.34	0.00	1243891.70	3231413.91	39.999909	-104.673964	
	6300.00	17.18	150.37	6093.86	992.86	-1055.39	-1162.43	811.94	0.00	1243866.17	3231428.74	39.999839	-104.673912	
	6400.00	17.18	150.37	6189.40	1088.40	-1079.10	-1188.							

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
Turn 2 DLS	7800.00	90.00	8.00	7151.00	2050.00	-400.62	-538.13	1101.16	0.00	1244493.11	3231712.15	40.001553	-104.672879
	7900.00	90.00	8.00	7151.00	2050.00	-300.64	-439.11	1115.08	0.00	1244592.25	3231725.14	40.001825	-104.672830
	7971.65	90.00	8.00	7151.00	2050.00	-229.00	-368.16	1125.05	0.00	1244663.29	3231734.46	40.002019	-104.672794
	8000.00	90.00	7.43	7151.00	2050.00	-200.65	-340.06	1128.86	2.00	1244691.42	3231738.00	40.002096	-104.672781
	8100.00	90.00	5.43	7151.00	2050.00	-100.66	-240.69	1140.06	2.00	1244790.88	3231748.28	40.002369	-104.672741
Hold	8200.00	90.00	3.43	7151.00	2050.00	-0.77	-141.00	1147.79	2.00	1244890.64	3231755.08	40.002643	-104.672713
	8300.00	90.00	1.43	7151.00	2050.00	98.92	-41.09	1152.04	2.00	1244990.58	3231758.40	40.002917	-104.672698
	8348.15	90.00	0.47	7151.00	2050.00	146.80	7.05	1152.83	2.00	1245038.72	3231758.75	40.003049	-104.672695
	8400.00	90.00	0.47	7151.00	2050.00	198.32	58.90	1153.26	0.00	1245090.57	3231758.70	40.003192	-104.672693
	8500.00	90.00	0.47	7151.00	2050.00	297.68	158.89	1154.08	0.00	1245190.57	3231758.59	40.003466	-104.672690
	8600.00	90.00	0.47	7151.00	2050.00	397.03	258.89	1154.90	0.00	1245290.56	3231758.48	40.003741	-104.672688
	8700.00	90.00	0.47	7151.00	2050.00	496.39	358.89	1155.72	0.00	1245390.56	3231758.37	40.004015	-104.672685
	8800.00	90.00	0.47	7151.00	2050.00	595.75	458.88	1156.54	0.00	1245490.56	3231758.27	40.004290	-104.672682
	8900.00	90.00	0.47	7151.00	2050.00	695.11	558.88	1157.36	0.00	1245590.55	3231758.16	40.004564	-104.672679
	9000.00	90.00	0.47	7151.00	2050.00	794.47	658.88	1158.18	0.00	1245690.55	3231758.05	40.004839	-104.672676
	9100.00	90.00	0.47	7151.00	2050.00	893.83	758.87	1159.00	0.00	1245790.55	3231757.94	40.005113	-104.672673
	9200.00	90.00	0.47	7151.00	2050.00	993.18	858.87	1159.82	0.00	1245890.54	3231757.83	40.005388	-104.672670
	9300.00	90.00	0.47	7151.00	2050.00	1092.54	958.87	1160.64	0.00	1245990.54	3231757.73	40.005662	-104.672667
	9400.00	90.00	0.47	7151.00	2050.00	1191.90	1058.86	1161.46	0.00	1246090.54	3231757.62	40.005937	-104.672664
	9500.00	90.00	0.47	7151.00	2050.00	1291.26	1158.86	1162.28	0.00	1246190.53	3231757.51	40.006211	-104.672661
	9600.00	90.00	0.47	7151.00	2050.00	1390.62	1258.86	1163.10	0.00	1246290.53	3231757.40	40.006486	-104.672658
	9700.00	90.00	0.47	7151.00	2050.00	1489.97	1358.85	1163.92	0.00	1246390.52	3231757.29	40.006760	-104.672655
	9800.00	90.00	0.47	7151.00	2050.00	1589.33	1458.85	1164.74	0.00	1246490.52	3231757.19	40.007035	-104.672652
	9900.00	90.00	0.47	7151.00	2050.00	1688.69	1558.85	1165.56	0.00	1246590.52	3231757.08	40.007309	-104.672649
	10000.00	90.00	0.47	7151.00	2050.00	1788.05	1658.84	1166.38	0.00	1246690.51	3231756.97	40.007584	-104.672646
	10100.00	90.00	0.47	7151.00	2050.00	1887.41	1758.84	1167.21	0.00	1246790.51	3231756.86	40.007858	-104.672643
	10200.00	90.00	0.47	7151.00	2050.00	1986.76	1858.84	1168.03	0.00	1246890.51	3231756.75	40.008133	-104.672640
	10300.00	90.00	0.47	7151.00	2050.00	2086.12	1958.83	1168.85	0.00	1246990.50	3231756.65	40.008407	-104.672637
	10400.00	90.00	0.47	7151.00	2050.00	2185.48	2058.83	1169.67	0.00	1247090.50	3231756.54	40.008682	-104.672635
	10500.00	90.00	0.47	7151.00	2050.00	2284.84	2158.83	1170.49	0.00	1247190.50	3231756.43	40.008956	-104.672632
	10600.00	90.00	0.47	7151.00	2050.00	2384.20	2258.82	1171.31	0.00	1247290.49	3231756.32	40.009231	-104.672629
	10700.00	90.00	0.47	7151.00	2050.00	2483.55	2358.82	1172.13	0.00	1247390.49	3231756.21	40.009505	-104.672626
	10800.00	90.00	0.47	7151.00	2050.00	2582.91	2458.82	1172.95	0.00	1247490.48	3231756.11	40.009780	-104.672623
	10900.00	90.00	0.47	7151.00	2050.00	2682.27	2558.81	1173.77	0.00	1247590.48	3231756.00	40.010054	-104.672620
	11000.00	90.00	0.47	7151.00	2050.00	2781.63	2658.81	1174.59	0.00	1247690.48	3231755.89	40.010329	-104.672617
	11100.00	90.00	0.47	7151.00	2050.00	2880.99	2758.81	1175.41	0.00	1247790.47	3231755.78	40.010603	-104.672614
	11200.00	90.00	0.47	7151.00	2050.00	2980.35	2858.80	1176.23	0.00	1247890.47	3231755.67	40.010878	-104.672611
	11300.00	90.00	0.47	7151.00	2050.00	3079.70	2958.80	1177.05	0.00	1247990.47	3231755.57	40.011152	-104.672608
	11400.00	90.00	0.47	7151.00	2050.00	3179.06	3058.80	1177.87	0.00	1248090.46	3231755.46	40.011427	-104.672605
	11500.00	90.00	0.47	7151.00	2050.00	3278.42	3158.79	1178.69	0.00	1248190.46	3231755.35	40.011701	-104.672602
	11600.00	90.00	0.47	7151.00	2050.00	3377.78	3258.79	1179.51	0.00	1248290.46	3231755.24	40.011976	-104.672599
	11700.00	90.00	0.47	7151.00	2050.00	3477.14	3358.79	1180.33	0.00	1248390.45	3231755.13	40.012250	-104.672596
	11800.00	90.00	0.47	7151.00	2050.00	3576.49	3458.78	1181.15	0.00	1248490.45	3231755.03	40.012525	-104.672593
	11900.00	90.00	0.47	7151.00	2050.00	3675.85	3558.78	1181.97	0.00	1248590.44	3231754.92	40.012799	-104.672590
	12000.00	90.00	0.47	7151.00	2050.00	3775.21	3658.78	1182.79	0.00	1248690.44	3231754.81	40.013074	-104.672587
12100.00	90.00	0.47	7151.00	2050.00	3874.57	3758.77	1183.61	0.00	1248790.44	3231754.70	40.013348	-104.672584	
12200.00	90.00	0.47	7151.00	2050.00	3973.93	3858.77	1184.43	0.00	1248890.43	3231754.59	40.013623	-104.672582	
12300.00	90.00	0.47	7151.00	2050.00	4073.28	3958.77	1185.25	0.00	1248990.43	3231754.49	40.013897	-104.672579	
12400.00	90.00	0.47	7151.00	2050.00	4172.64	4058.76	1186.07	0.00	1249090.43	3231754.38	40.014172	-104.672576	
12500.00	90.00	0.47	7151.00	2050.00	4272.00	4158.76	1186.89	0.00	1249190.42	3231754.27	40.014446	-104.672573	
12600.00	90.00	0.47	7151.00	2050.00	4371.36	4258.76	1187.71	0.00	1249290.42	3231754.16	40.014721	-104.672570	
12700.00	90.00	0.47	7151.00	2050.00	4470.72	4358.75	1188.53	0.00	1249390.42	3231754.05	40.014995	-104.672567	
12800.00	90.00	0.47	7151.00	2050.00	4570.07	4458.75	1189.35	0.00	1249490.41	3231753.95	40.015270	-104.672564	
12900.00	90.00	0.47	7151.00	2050.00	4669.43	4558.75	1190.17	0.00	1249590.41	3231753.84	40.015544	-104.672561	
13000.00	90.00	0.47	7151.00	2050.00	4768.79	4658.74	1190.99	0.00	1249690.40	3231753.73	40.015819	-104.672558	
13100.00	90.00	0.47	7151.00	2050.00	4868.15	4758.74	1191.81	0.00	1249790.40	3231753.62	40.016093	-104.672555	
13200.00	90.00	0.47	7151.00	2050.00	4967.51	4858.74	1192.63	0.00	1249890.40	3231753.51	40.016368	-104.672552	
13300.00	90.00	0.47	7151.00	2050.00	5066.87	4958.73	1193.45	0.00	1249990.39	3231753.41	40.016642	-104.672549	
13400.00	90.00	0.47	7151.00	2050.00	5166.22	5058.73	1194.27	0.00	1250090.39	3231753.30	40.016917	-104.672546	
13500.00	90.00	0.47	7151.00	2050.00	5265.58	5158.73	1195.10	0.00	1250190.39	3231753.19	40.017191	-104.672543	
13600.00	90.00	0.47	7151.00	2050.00	5364.94	5258.72	1195.92	0.00	1250290.38	3231753.08	40.017466	-104.672540	
13700.00	90.00	0.47	7151.00	2050.00	5464.30	5358.72	1196.74	0.00	1250390.38	3231752.97	40.017740	-104.672537	
13800.00	90.00	0.47	7151.00	2050.00	5563.66	5458.72	1197.56	0.00	1250490.38				

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey				
	1	0.000	23.000	1/100.000	13.500	9.625		B001Mb_MWD+HRGM-Depth Only	Original Hole / Buford 33-7-1L R0 mdv 27Jul22				
	1	23.000	1700.000	1/100.000	13.500	9.625		B001Mb_MWD+HRGM	Original Hole / Buford 33-7-1L R0 mdv 27Jul22				
	1	1700.000	17671.306	1/100.000	8.500	5.500		B001Mb_MWD+HRGM	Original Hole / Buford 33-7-1L R0 mdv 27Jul22				

## Buford 33-7-1L R0 mdv 27Jul22 Anti-Collision Summary Report

**Analysis Date-24hr Time:** August 02, 2022 - 12:13  
**Client:** Confluence DJ  
**Field:** CO, Weld County (NAD 83 NZ) - 2019  
**Structure:** Confluence 33-01N-65W (Freedom 33 Pad)  
**Slot:** Buford 33-7-1L  
**Well:** Buford 33-7-1L  
**Borehole:** Original Hole  
**Scan MD Range:** 0.00ft ~ 17671.31ft

**Analysis Method:** 3D Least Distance  
**Reference Trajectory:** Buford 33-7-1L R0 mdv 27Jul22 (Def Plan)  
**Depth Interval:** Every 10.00 Measured Depth (ft)  
**Rule Set:** NAL Procedure: D&M AntiCollision Standard S002  
**Min Pts:** All local minima indicated.  
**Version / Patch:** 2.10.832.2  
**Database \ Project:** us1455vsm3175\drilling-CO, Weld County 2.10\_RESTORE

**Trajectory Error Model:** ISCWSA3 3-D 95.000% Confidence 2.7955 sigma, for subject well. For offset wells, error model version is specified with each well respectively.

**Offset Selection Criteria**

Wellhead distance scan: Not performed!  
Selection filters: Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans  
- All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

**Offset Trajectories Summary**

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		

Results highlighted: Sep-Factor separation <= 1.50 ft

## Desha 4-4-4L - Plan (Def Plan) Fail Major

149.38	32.81	148.39	116.57	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
149.36	32.81	148.37	116.55	N/A	MAS = 10.00 (m)	23.00	23.00					WRP	
149.38	32.81	146.49	116.55	78.81	MAS = 10.00 (m)	250.00	250.00					MinPts	
149.61	32.81	146.25	116.80	62.77	MAS = 10.00 (m)	300.00	300.00					MINPT-O-EOU	
122.67	38.01	97.01	84.66	4.93	OSF1.50	2940.00	2883.73		OSF<5.00			Enter Alert	
48.85	49.19	15.73	-0.34	1.49	OSF1.50	3490.00	3409.19			OSF<1.50		Enter Minor	
35.00	52.27	-0.17	-17.26	1.00	OSF1.50	3640.00	3552.50					Enter Major	
31.94	51.81	-2.93	-19.87	0.91	OSF1.50	3710.00	3619.38					MinPt-O-ADP	
31.75	51.58	-2.96	-19.83	0.91	OSF1.50	3720.00	3628.94					MinPts	
31.58	51.02	-2.76	-19.44	0.92	OSF1.50	3740.00	3648.04					MinPt-CtCt	
32.72	48.86	-0.18	-16.14	0.99	OSF1.50	3800.00	3705.37					Exit Major	
45.10	45.85	14.20	-0.75	1.47	OSF1.50	3960.00	3858.23			OSF>1.50	OSF>1.00	Exit Minor	
219.20	66.49	174.55	152.71	5.00	OSF1.50	5210.00	5052.48		OSF>5.00			Exit Alert	
303.45	92.06	241.75	211.39	4.98	OSF1.50	7050.00	6806.20		OSF>5.00			Enter Alert	
181.01	103.54	111.65	77.46	2.63	OSF1.50	7380.00	7037.92					MinPt-CtCt	
182.05	105.92	111.11	76.13	2.59	OSF1.50	7400.00	7048.37					MinPts	
184.84	108.21	112.37	76.63	2.57	OSF1.50	7420.00	7058.35					MinPt-O-SF	
375.80	115.52	298.45	260.27	4.91	OSF1.50	7720.00	7147.48		OSF>5.00			Exit Alert	
10182.92	113.39	10107.00	10069.53	135.88	OSF1.50	17671.31	7151.00					TD	

## Strawder 1 Blind 0' to 8060' - TA (Def Survey) Fail Major

6093.92	32.81	6092.11	6061.11	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
6093.84	32.81	6092.02	6061.04	723361.94	MAS = 10.00 (m)	20.00	20.00					MinPt-O-SF	
6093.84	32.81	6092.02	6061.03	817711.98	MAS = 10.00 (m)	23.00	23.00					WRP	
6093.83	38.19	6067.76	6055.64	251.18	OSF1.50	650.00	650.00					MinPt-CtCt	
6106.06	100.80	6038.26	6005.26	92.50	OSF1.50	1690.00	1679.25					MINPT-O-EOU	
6106.75	101.79	6038.36	6004.97	91.41	OSF1.50	1710.00	1698.93					MINPT-O-EOU	
6109.67	105.33	6038.91	6004.34	88.33	OSF1.50	1770.00	1757.93					MinPt-O-ADP	
1441.59	433.61	1151.98	1007.98	5.00	OSF1.50	12890.00	7151.00		OSF<5.00			Enter Alert	
436.25	438.61	143.31	-2.36	1.49	OSF1.50	13900.00	7151.00			OSF<1.50		Enter Minor	
289.72	443.85	-6.71	-154.12	0.98	OSF1.50	14050.00	7151.00				OSF<1.00	Enter Major	
75.74	525.82	-275.29	-450.03	0.21	OSF1.50	14330.00	7151.00					MinPts	
288.60	434.98	-1.92	-146.38	0.99	OSF1.50	14610.00	7151.00				OSF>1.00	Exit Major	
425.24	432.91	136.10	-7.67	1.47	OSF1.50	14750.00	7151.00			OSF>1.50		Exit Minor	
1430.40	432.96	1141.22	997.44	4.97	OSF1.50	15760.00	7151.00		OSF>5.00			Exit Alert	
3340.55	434.19	3050.56	2906.36	11.58	OSF1.50	17671.31	7151.00					TD	

## Glen Young 2 Blind 0' to 7868' - PA (Def Survey) Fail Major

8217.57	32.81	8215.76	8184.76	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
8217.40	32.81	8215.56	8184.59	309798.81	MAS = 10.00 (m)	23.00	23.00					WRP	
8217.26	35.97	8192.67	8181.29	360.72	OSF1.50	650.00	650.00					MinPt-CtCt	
8233.80	98.59	8167.47	8135.21	127.59	OSF1.50	1690.00	1679.25					MINPT-O-EOU	
8237.18	102.53	8168.29	8134.65	122.41	OSF1.50	1760.00	1748.11					MinPt-O-ADP	
1425.59	430.55	1138.02	995.03	4.98	OSF1.50	15040.00	7151.00		OSF<5.00			Enter Alert	
430.45	431.74	142.08	-1.30	1.50	OSF1.50	16040.00	7151.00			OSF<1.50		Enter Minor	
284.13	436.20	-7.20	-152.06	0.98	OSF1.50	16190.00	7151.00				OSF<1.00	Enter Major	
77.05	584.46	-313.12	-507.41	0.19	OSF1.50	16460.00	7151.00					MinPt-CtCt	
77.25	587.26	-314.79	-510.01	0.19	OSF1.50	16470.00	7151.00					MinPts	
296.65	453.38	-6.14	-156.73	0.98	OSF1.50	16750.00	7151.00				OSF>1.00	Exit Major	
443.23	444.19	146.56	-0.97	1.50	OSF1.50	16900.00	7151.00			OSF>1.50		Exit Minor	
1210.25	436.06	919.01	774.19	4.17	OSF1.50	17671.31	7151.00					TD	

## Buford 33-8-2L R0 mdv 27Jul22 (Def Plan) Fail Major

182.46	32.81	181.47	149.65	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
182.46	32.81	181.47	149.65	N/A	MAS = 10.00 (m)	23.00	23.00					WRP	
122.70	32.81	105.05	89.90	7.32	MAS = 10.00 (m)	1700.00	1689.09					MinPts	
122.81	32.81	104.98	90.00	7.23	MAS = 10.00 (m)	1730.00	1718.61					MINPT-O-EOU	
124.96	32.81	106.46	92.15	7.08	MAS = 10.00 (m)	1850.00	1836.45					MinPt-O-SF	
148.36	45.27	117.85	103.09	4.99	OSF1.50	3340.00	3265.88		OSF<5.00			Enter Alert	
148.51	45.42	117.90	103.09	4.98	OSF1.50	3350.00	3275.44					MinPt-O-ADP	
156.60	51.03	122.26	105.58	4.66	OSF1.50	3700.00	3609.83					MinPt-O-SF	
339.88	109.40	266.62	230.48	4.69	OSF1.50	6500.00	6284.95					MinPt-O-SF	
353.02	114.14	276.60	238.88	4.67	OSF1.50	6680.00	6460.35					MinPt-O-SF	
378.74	114.50	302.08	264.23	4.99	OSF1.50	7200.00	6924.21		OSF>5.00			Exit Alert	
361.56	109.33	286.34	252.23	4.99	OSF1.50	7770.00	7150.68		OSF<5.00			Enter Alert	
334.20	121.90	252.60	212.30	4.13	OSF1.50	8500.00	7151.00					MinPt-CtCt	
334.69	123.31	252.16	211.38	4.09	OSF1.50	8560.00	7151.00					MINPT-O-EOU	
335.08	123.77	252.24	211.31	4.08	OSF1.50	8580.00	7151.00					MinPt-O-ADP	
422.29	422.58	140.24	-0.30	1.50	OSF1.50	14190.00	7151.00			OSF<1.50		Enter Minor	
366.79	550.64	-0.63	-183.85	1.00	OSF1.50	16390.00	7151.00				OSF<1.00	Enter Major	
333.22	621.55	-81.48	-288.34	0.80	OSF1.50	17660.00	7151.00					MinPt-O-ADP	
333.00	621.24	-81.49	-288.24	0.80	OSF1.50	17670.00	7151.00					MinPts	
332.93	621.08	-81.39	-288.09	0.80	OSF1.50	17671.31	7151.00					MinPt-CtCt	

...Confluence 33-01N-65W (Freedom 33 Pad)\Buford 33-7-1L\Original Hole\Buford 33-7-1L R0 mdv 27Jul22

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
Buford 33-8-4L R0 mdv 27Jul22 (Def Plan)													
	25.50	20.59	24.52	4.91	N/A	MAS = 6.28 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	Fail Minor
	25.50	20.59	24.52	4.91	N/A	MAS = 6.28 (m)	23.00	23.00				WRP	
	25.19	20.59	19.83	4.59	5.54	MAS = 6.28 (m)	500.00	500.00				MinPts	
	25.46	20.59	19.50	4.86	4.92	MAS = 6.28 (m)	560.00	560.00				MINPT-O-EOU	
	27.77	20.59	20.91	7.18	4.56	MAS = 6.28 (m)	650.00	650.00				MinPt-O-SF	
	48.71	20.59	39.13	28.12	5.55	MAS = 6.28 (m)	930.00	929.55	CtCt<=15m>15.00			Exit Alert	
	87.84	25.38	70.59	62.46	5.34	OSF1.50	1680.00	1669.41				MinPt-O-SF	
	156.46	47.63	124.37	108.83	5.00	OSF1.50	3550.00	3466.52	OSF<5.00			Enter Alert	
	275.99	119.14	196.23	156.85	3.49	OSF1.50	6740.00	6519.18				MinPt-O-SF	
	273.49	117.57	194.78	155.92	3.51	OSF1.50	6800.00	6577.51				MinPt-O-ADP	
	272.53	116.40	194.61	156.14	3.53	OSF1.50	6830.00	6606.36				MINPT-O-EOU	
	271.92	114.49	195.26	157.43	3.58	OSF1.50	6870.00	6644.38				MinPt-CtCt	
	318.86	97.00	253.87	221.87	4.97	OSF1.50	7200.00	6924.21	OSF>5.00			Exit Alert	
	404.13	122.20	322.33	281.92	4.99	OSF1.50	9990.00	7151.00	OSF<5.00			Enter Alert	
	386.92	276.82	202.05	110.11	2.10	OSF1.50	14330.00	7151.00				MinPt-CtCt	
	406.45	406.72	134.97	-0.27	1.50	OSF1.50	17080.00	7151.00	OSF<1.50			Enter Minor	
	411.26	437.15	119.50	-25.89	1.41	OSF1.50	17671.31	7151.00				MinPts	
Buford 33-7-3L R0 mdv 27Jul22 (Def Plan)													
	51.00	32.81	50.02	18.19	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Fail Minor
	51.00	32.81	50.02	18.19	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	50.37	32.81	44.92	17.59	11.04	MAS = 10.00 (m)	510.00	510.00				MinPts	
	50.69	32.81	44.53	17.89	9.60	MAS = 10.00 (m)	580.00	580.00				MINPT-O-EOU	
	64.25	32.81	55.28	31.44	7.92	MAS = 10.00 (m)	860.00	859.81				MinPt-O-SF	
	119.66	32.81	101.76	86.86	7.01	MAS = 10.00 (m)	1700.00	1689.09				MinPt-O-SF	
	543.41	118.00	464.41	425.41	6.95	OSF1.50	6590.00	6372.05	OSF<5.00			MinPt-O-SF	
	524.70	158.10	418.97	366.60	5.00	OSF1.50	9770.00	7151.00				Enter Alert	
	484.28	408.34	211.72	75.94	1.78	OSF1.50	14330.00	7151.00				MinPt-CtCt	
	509.90	509.92	169.62	-0.03	1.50	OSF1.50	15980.00	7151.00	OSF<1.50			Enter Minor	
	536.74	615.80	125.87	-79.07	1.31	OSF1.50	17671.31	7151.00				MinPts	
Desha 4-11-2L - Plan (Def Plan)													
	123.88	32.81	122.90	91.07	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Fail Minor
	123.86	32.81	122.87	91.05	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	123.86	32.81	120.96	91.05	65.26	MAS = 10.00 (m)	250.00	250.00				MinPts	
	124.08	32.81	120.73	91.27	51.94	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	115.68	35.43	91.73	80.24	4.99	OSF1.50	3140.00	3074.81	OSF<5.00			Enter Alert	
	91.27	46.50	59.94	44.77	2.98	OSF1.50	3650.00	3562.06				MinPt-CtCt	
	92.76	50.90	58.50	41.86	2.76	OSF1.50	3770.00	3676.71				MINPT-O-EOU	
	94.60	53.11	58.87	41.49	2.69	OSF1.50	3830.00	3734.03				MinPt-O-ADP	
	100.30	57.30	61.77	42.99	2.65	OSF1.50	3950.00	3848.68				MinPt-O-SF	
	312.48	94.57	249.10	217.91	4.99	OSF1.50	5800.00	5616.17	OSF>5.00			Exit Alert	
	373.29	113.47	297.31	259.82	4.96	OSF1.50	6840.00	6615.91	OSF<5.00			Enter Alert	
	115.70	119.71	35.57	-4.00	1.45	OSF1.50	7290.00	6985.31	OSF<1.50			Enter Minor	
	93.38	112.55	18.02	-19.17	1.24	OSF1.50	7340.00	7015.64				MinPts	
	91.35	109.98	17.70	-18.63	1.24	OSF1.50	7350.00	7021.38				MINPT-O-EOU	
	90.33	107.07	18.63	-16.74	1.26	OSF1.50	7360.29	7027.17				MinPt-CtCt	
	96.86	96.95	31.90	-0.09	1.50	OSF1.50	7400.00	7048.37	OSF>1.50			Exit Minor	
	342.97	104.16	273.21	238.81	4.97	OSF1.50	7700.00	7145.25	OSF>5.00			Exit Alert	
	10193.88	118.14	10114.79	10075.73	130.50	OSF1.50	17671.31	7151.00				TD	
Champlin 365 Amoco Unit A 2 Blind 0' to 8100' - PA (Def Survey)													
	3211.41	32.81	3209.32	3178.61	11258.57	MAS = 10.00 (m)	0.00	0.00				Surface	Fail Minor
	3211.41	32.81	3208.72	3178.61	3642.48	MAS = 10.00 (m)	23.00	23.00				WRP	
	3211.34	61.90	3169.47	3149.44	80.12	OSF1.50	1000.00	999.13				MinPt-CtCt	
	3213.72	103.34	3144.23	3110.38	47.46	OSF1.50	1690.00	1679.25				MINPT-O-EOU	
	3215.17	106.09	3143.91	3109.08	46.13	OSF1.50	1740.00	1728.44				MINPT-O-EOU	
	3218.08	109.64	3144.45	3108.44	44.66	OSF1.50	1800.00	1787.40				MinPt-O-ADP	
	1442.45	436.41	1150.97	1006.03	4.97	OSF1.50	10030.00	7151.00	OSF<5.00			Enter Alert	
	446.87	452.44	144.70	-5.57	1.48	OSF1.50	11130.00	7151.00	OSF<1.50			Enter Minor	
	326.65	464.85	16.22	-138.20	1.05	OSF1.50	11430.00	7151.00				MinPts	
	446.89	449.17	146.91	-2.28	1.49	OSF1.50	11740.00	7151.00	OSF>1.50			Exit Minor	
	1442.48	435.31	1151.74	1007.17	4.98	OSF1.50	12840.00	7151.00	OSF>5.00			Exit Alert	
	6239.63	436.04	5948.40	5803.59	21.54	OSF1.50	17671.31	7151.00				TD	
Desha 4-8-2L - Plan (Def Plan)													
	22.00	17.68	21.02	4.32	N/A	MAS = 5.39 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	Warning Alert
	21.86	17.68	20.87	4.18	N/A	MAS = 5.39 (m)	23.00	23.00				WRP	
	21.86	17.68	18.99	4.18	11.09	MAS = 5.39 (m)	250.00	250.00				MinPts	
	22.18	17.68	18.62	4.50	8.24	MAS = 5.39 (m)	320.00	320.00				MINPT-O-EOU	
	28.41	17.68	22.97	10.73	6.16	MAS = 5.39 (m)	510.00	510.00				MinPt-O-SF	
	48.53	17.68	41.12	30.85	7.40	MAS = 5.39 (m)	710.00	710.00	CtCt<=15m>15.00			Exit Alert	
	1088.74	123.98	1005.76	964.76	13.27	OSF1.50	7000.00	6763.10				MinPt-O-SF	
	1040.60	112.09	965.55	928.51	14.04	OSF1.50	7470.00	7081.21				MinPt-O-ADP	
	1040.33	111.76	965.48	928.57	14.07	OSF1.50	7480.00	7085.42				MINPT-O-EOU	
	1039.88	110.52	965.87	929.36	14.23	OSF1.50	7520.00	7100.98				MinPt-CtCt	
	10178.56	143.53	10082.55	10035.03	107.10	OSF1.50	17671.31	7151.00				TD	
Desha 4-3-4L - Plan (Def Plan)													
	47.42	32.81	46.44	14.61	N/A	MAS = 10.00 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	Warning Alert
	47.36	32.81	46.37	14.55	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	47.36	32.81	44.49	14.55	24.63	MAS = 10.00 (m)	250.00	250.00				MinPts	
	47.69	32.81	44.14	14.89	18.17	MAS = 10.00 (m)	320.00	320.00				MINPT-O-EOU	
	49.06	32.81	44.72	16.25	14.33	MAS = 10.00 (m)	400.00	400.00	CtCt<=15m>15.00			Exit Alert	
	65.87	32.81	58.84	33.06	10.74	MAS = 10.00 (m)	670.00	670.00				MinPt-O-SF	
	200.43	32.81	182.79	167.63	11.97	MAS = 10.00 (m)	1700.00	1689.09				MinPt-O-SF	
	244.80	32.81	225.76	211.99	13.51	MAS = 10.00 (m)	2280.00	2253.16				MinPt-O-SF	
	821.54	114.03	745.20	707.52	10.89	OSF1.50	6260.00	6055.65				MinPt-O-SF	
	802.50	119.65	722.40	682.84	10.13	OSF1.50	7230.00	6945.46				MinPt-O-SF	
	767.90	110.32	694.03	657.58	10.52	OSF1.50	7480.00	7085.42				MinPt-O-ADP	
	767.23	109.53	693.88	657.70	10.59	OSF1.50	7500.00	7093.45				MINPT-O-EOU	
	766.97	108.78	694.12	658.19	10.66	OSF1.50	7520.00	7100.98				MinPt-CtCt	
	10155.71	135.45	10065.08	10020.25	113.28	OSF1.50	17671.31	7151.00				TD	
Buford 33-6-2L R0 mdv 27Jul22 (Def Plan)													
													Warning Alert

...Confluence 33-01N-65W (Freedom 33 Pad)\Buford 33-7-1L\Original Hole\Buford 33-7-1L R0 mdv 27Jul22

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	76.50	32.81	75.52	43.69	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	76.50	32.81	75.52	43.69	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	75.56	32.81	70.09	42.75	16.65	MAS = 10.00 (m)	510.00	510.00				MinPts	
	75.89	32.81	69.71	43.08	14.42	MAS = 10.00 (m)	580.00	580.00				MINPT-O-EOU	
	156.93	32.81	138.57	124.12	8.98	MAS = 10.00 (m)	1700.00	1689.09				MinPt-O-SF	
	881.92	117.91	802.98	764.00	11.30	OSF1.50	6520.00	6304.13				MinPt-O-SF	
	779.76	234.81	622.89	544.95	5.00	OSF1.50	10950.00	7151.00	OSF<5.00			Enter Alert	
	747.41	436.99	455.75	310.42	2.57	OSF1.50	14330.00	7151.00				MinPt-CtCt	
	803.60	648.46	370.97	155.15	1.86	OSF1.50	17671.31	7151.00				MinPts	
Desha 4-12-1L - Plan (Def Plan)													Warning Alert
	174.90	32.81	173.91	142.09	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	174.88	32.81	173.90	142.07	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	174.88	32.81	172.01	142.07	92.36	MAS = 10.00 (m)	250.00	250.00				MinPts	
	175.06	32.81	171.80	142.25	76.72	MAS = 10.00 (m)	290.00	290.00				MINPT-O-EOU	
	140.88	43.24	111.72	97.63	4.97	OSF1.50	3180.00	3113.02	OSF<5.00			Enter Alert	
	103.88	53.34	67.99	50.54	2.95	OSF1.50	3810.00	3714.92				MinPt-CtCt	
	103.90	53.47	67.93	50.43	2.94	OSF1.50	3830.00	3734.03				MINPT-O-EOU	
	103.95	53.53	67.93	50.42	2.94	OSF1.50	3840.00	3743.58				MinPt-O-ADP	
	104.10	53.64	68.02	50.47	2.94	OSF1.50	3860.00	3762.69				MinPt-O-SF	
	195.77	59.46	155.81	136.32	5.00	OSF1.50	4920.00	4775.41	OSF>5.00			Exit Alert	
	314.67	95.23	250.85	219.43	4.99	OSF1.50	7080.00	6831.23	OSF<5.00			Enter Alert	
	294.03	104.94	223.74	189.08	4.23	OSF1.50	7190.00	6916.94				MinPt-CtCt	
	294.45	106.45	223.15	188.00	4.17	OSF1.50	7210.00	6931.39				MinPts	
	297.64	108.33	225.09	189.31	4.15	OSF1.50	7240.00	6952.35				MinPt-O-SF	
	365.16	110.78	290.98	254.39	4.98	OSF1.50	7410.00	7053.42	OSF>5.00			Exit Alert	
	10229.18	111.85	10154.28	10117.33	138.38	OSF1.50	17671.31	7151.00				TD	
Buford 33-10-4L MWD 0' to 17484' - PR (Def Survey)													Warning Alert
	150.66	32.81	148.84	117.85	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	150.65	32.81	148.84	117.85	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	147.87	32.81	140.38	115.06	25.73	MAS = 10.00 (m)	670.00	670.00				MinPts	
	147.97	32.81	140.28	115.16	24.89	MAS = 10.00 (m)	690.00	690.00				MINPT-O-EOU	
	195.15	32.81	182.55	162.34	17.92	MAS = 10.00 (m)	1190.00	1186.86				MinPt-O-SF	
	287.16	32.81	269.71	254.35	18.24	MAS = 10.00 (m)	1690.00	1679.25				MinPt-O-SF	
	541.04	51.93	505.89	489.12	16.08	OSF1.50	3650.00	3562.06				MinPt-O-SF	
	728.73	79.94	674.90	648.78	13.92	OSF1.50	5210.00	5052.48				MinPt-O-SF	
	733.29	80.44	679.13	652.85	13.92	OSF1.50	5240.00	5081.14				MinPt-O-SF	
	957.90	118.32	878.48	839.57	12.29	OSF1.50	7320.00	7003.83				MinPt-O-SF	
	1132.92	140.85	1038.49	992.07	12.19	OSF1.50	8990.00	7151.00				MinPt-CtCt	
	1135.73	149.58	1035.48	986.15	11.50	OSF1.50	9230.00	7151.00				MINPT-O-EOU	
	1136.90	150.91	1035.76	985.99	11.41	OSF1.50	9270.00	7151.00				MinPt-O-ADP	
	1139.57	232.93	983.75	906.64	7.38	OSF1.50	10810.00	7151.00				MinPt-CtCt	
	1141.01	237.06	982.44	903.95	7.26	OSF1.50	10910.00	7151.00				MINPT-O-EOU	
	1144.56	241.06	983.32	903.50	7.16	OSF1.50	11000.00	7151.00				MinPt-O-ADP	
	1160.84	290.49	966.65	870.35	6.02	OSF1.50	11770.00	7151.00				MinPt-CtCt	
	1173.01	329.50	952.81	843.51	5.36	OSF1.50	12430.00	7151.00				MINPT-O-EOU	
	1176.85	354.39	940.05	822.46	5.00	OSF1.50	12750.00	7151.00	OSF<5.00			Enter Alert	
	1161.73	375.00	911.20	786.73	4.66	OSF1.50	13120.00	7151.00				MinPt-CtCt	
	1163.65	396.53	898.76	767.12	4.41	OSF1.50	13450.00	7151.00				MinPt-CtCt	
	1168.87	409.43	895.38	759.44	4.29	OSF1.50	13690.00	7151.00				MINPT-O-EOU	
	1178.30	423.30	895.56	755.00	4.19	OSF1.50	13910.00	7151.00				MINPT-O-EOU	
	1178.18	497.44	846.01	680.73	3.56	OSF1.50	15030.00	7151.00				MinPt-CtCt	
	1139.02	563.89	762.55	575.12	3.03	OSF1.50	16070.00	7151.00				MinPt-CtCt	
	1133.86	647.31	701.79	486.56	2.63	OSF1.50	17340.00	7151.00				MinPt-CtCt	
	1134.94	663.13	692.32	471.82	2.57	OSF1.50	17590.00	7151.00				MinPts	
	1138.39	660.73	697.37	477.66	2.59	OSF1.50	17671.31	7151.00				TD	
Buford 33-10-2L R0 mdv 27Jul22 (Def Plan)													Warning Alert
	148.48	32.81	147.50	115.67	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	148.48	32.81	147.50	115.67	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	148.48	32.81	145.61	115.67	78.08	MAS = 10.00 (m)	250.00	250.00				MinPts	
	149.20	32.81	143.47	116.39	31.20	MAS = 10.00 (m)	540.00	540.00				MINPT-O-EOU	
	214.82	32.81	203.00	182.01	19.74	MAS = 10.00 (m)	1120.00	1117.89				MinPt-O-SF	
	346.89	32.81	328.56	314.08	19.94	MAS = 10.00 (m)	1700.00	1689.09				MinPt-O-SF	
	922.03	110.46	848.06	811.57	12.62	OSF1.50	6600.00	6381.83				MinPt-O-SF	
	1421.66	427.55	1136.30	994.12	5.00	OSF1.50	14070.00	7151.00	OSF<5.00			Enter Alert	
	1366.77	655.85	929.21	710.93	3.13	OSF1.50	17671.31	7151.00				MinPts	
Buford 33-9-3L MWD 0' to 17367' - PR (Def Survey)													Warning Alert
	169.53	32.81	167.71	136.72	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	169.52	32.81	167.71	136.72	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	167.15	32.81	159.38	134.34	27.81	MAS = 10.00 (m)	680.00	680.00				MinPts	
	167.28	32.81	159.23	134.47	26.54	MAS = 10.00 (m)	710.00	710.00				MINPT-O-EOU	
	303.20	32.81	285.68	270.39	18.95	MAS = 10.00 (m)	1700.00	1689.09				MinPt-O-SF	
	318.23	32.81	299.90	285.42	18.94	MAS = 10.00 (m)	1800.00	1787.40				MinPt-O-SF	
	339.02	32.81	317.86	306.21	17.26	MAS = 10.00 (m)	2210.00	2186.15				MinPts	
	339.18	32.81	317.71	306.37	16.99	MAS = 10.00 (m)	2250.00	2224.49				MINPT-O-EOU	
	551.04	116.03	473.15	435.01	7.20	OSF1.50	7390.00	7043.20				MinPt-CtCt	
	551.21	116.62	472.93	434.59	7.17	OSF1.50	7420.00	7058.35				MINPT-O-EOU	
	551.55	117.01	473.00	434.54	7.15	OSF1.50	7440.00	7067.86				MinPt-O-ADP	
	556.98	119.01	477.10	437.97	7.10	OSF1.50	7550.00	7111.32				MinPt-O-SF	
	702.67	157.12	597.39	545.55	6.76	OSF1.50	9350.00	7151.00				MinPt-CtCt	
	681.35	190.49	553.82	490.86	5.40	OSF1.50	10040.00	7151.00				MinPt-CtCt	
	681.79	191.81	553.38	489.98	5.36	OSF1.50	10080.00	7151.00				MINPT-O-EOU	
	682.60	192.78	553.55	489.82	5.34	OSF1.50	10110.00	7151.00				MinPt-O-ADP	
	690.17	201.33	555.42	488.84	5.17	OSF1.50	10280.00	7151.00				MinPt-O-ADP	
	697.18	210.37	556.39	486.80	5.00	OSF1.50	10430.00	7151.00				Enter Alert	
	708.16	235.81	550.42	472.35	4.53	OSF1.50	10870.00	7151.00				MINPT-O-EOU	
	698.86	260.10	524.92	438.76									

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Cl-Cl (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
Champlin 365 Amoco Unit 1 Blind 0' to 8044' - DA (Def Survey)	694.20	550.74	326.50	143.46	1.89	OSF1.50	15800.00	7151.00				MinPt-CiCt	
	699.41	563.31	323.33	136.10	1.86	OSF1.50	16030.00	7151.00				MINPT-O-EOU	
	680.46	641.92	251.98	38.54	1.59	OSF1.50	17180.00	7151.00				MinPt-CiCt	
	683.67	658.44	244.17	25.23	1.56	OSF1.50	17460.00	7151.00				MINPT-O-EOU	
	685.08	660.43	244.26	24.65	1.56	OSF1.50	17500.00	7151.00				MINPT-O-EOU	
	688.41	667.83	242.65	20.58	1.55	OSF1.50	17580.00	7151.00				MinPts	
	696.25	656.98	257.73	39.27	1.59	OSF1.50	17671.31	7151.00				TD	
												Warning Alert	
	570.98	32.81	569.17	538.17	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	570.73	32.81	568.89	537.92	18277.55	MAS = 10.00 (m)	10.00	10.00				MinPt-O-SF	
Penrod 4-3 Blind 0' to 8004' - PA (Def Survey)	570.66	32.81	568.77	537.85	6755.57	MAS = 10.00 (m)	23.00	23.00				WRP	
	453.34	119.54	373.12	333.81	5.75	OSF1.50	2020.00	2002.49				MinPt-CiCt	
	455.30	125.46	371.13	329.84	5.49	OSF1.50	2120.00	2099.45				MINPT-O-EOU	
	457.79	128.42	371.65	329.38	5.40	OSF1.50	2170.00	2147.69				MinPt-O-ADP	
	508.33	153.74	405.30	354.59	5.00	OSF1.50	2600.00	2558.89	OSF<5.00			Enter Alert	
	573.96	175.97	456.11	397.99	4.92	OSF1.50	2980.00	2921.94				MinPt-O-SF	
	681.42	205.60	543.82	475.82	5.00	OSF1.50	3490.00	3409.19	OSF>5.00			Exit Alert	
	1382.10	416.87	1103.65	965.23	4.99	OSF1.50	7180.00	6909.58	OSF<5.00			Enter Alert	
	632.18	432.69	343.18	199.48	2.19	OSF1.50	8570.00	7151.00				MinPts	
	1431.70	433.12	1142.42	998.58	4.97	OSF1.50	9850.00	7151.00	OSF>5.00			Exit Alert	
Robin 9-4HZ IFR1+MS 0' to 18437' - PR (Def Survey)	9120.84	434.24	8830.81	8686.59	31.62	OSF1.50	17671.31	7151.00				TD	
												Warning Alert	
	2014.78	32.81	2012.97	1981.97	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	2014.67	32.81	2012.84	1981.87	120849.59	MAS = 10.00 (m)	10.00	10.00				MinPt-O-SF	
	2014.61	32.81	2012.78	1981.80	223294.00	MAS = 10.00 (m)	23.00	23.00				WRP	
	1023.01	308.55	816.78	714.46	4.99	OSF1.50	5270.00	5109.80	OSF<5.00			Enter Alert	
	729.19	389.84	468.76	339.34	2.81	OSF1.50	6640.00	6421.05				MinPt-CiCt	
	729.77	391.46	468.27	338.32	2.80	OSF1.50	6666.65	6447.23				MINPT-O-EOU	
	730.44	392.27	468.40	338.18	2.80	OSF1.50	6680.00	6460.35				MinPt-O-ADP	
	733.94	394.67	470.29	339.27	2.79	OSF1.50	6720.00	6499.61				MinPt-O-SF	
Robin 9-3HZ IFR1+MS 0' to 18437' - PR (Def Survey)	1436.71	432.99	1147.51	1003.72	4.99	OSF1.50	7770.00	7150.68	OSF>5.00			Exit Alert	
	11261.65	433.81	10971.90	10827.83	39.08	OSF1.50	17671.31	7151.00				TD	
												Warning Alert	
	12519.77	171.64	12405.01	12348.13	110.03	OSF1.50	0.00	0.00				MinPt-O-SF	
	12506.43	171.42	12391.82	12335.01	110.06	OSF1.50	23.00	23.00				WRP	
	11253.35	117.02	11175.01	11136.33	145.46	OSF1.50	4400.00	4278.61				MinPt-O-ADP	
	11253.16	116.79	11174.97	11136.37	145.74	OSF1.50	4430.00	4307.27				MINPT-O-EOU	
	11253.02	116.34	11175.13	11136.67	146.31	OSF1.50	4490.00	4364.59				MinPt-CiCt	
	1053.54	319.81	840.00	733.72	4.95	OSF1.50	17610.00	7151.00	OSF<5.00			Enter Alert	
	1000.78	332.91	778.51	667.87	4.52	OSF1.50	17671.31	7151.00				MinPts	
Robin 9-2HZ IFR1+MS 0' to 18623' - PR (Def Survey)												Warning Alert	
	12554.18	179.12	12434.44	12375.06	105.71	OSF1.50	0.00	0.00				MinPt-O-SF	
	12540.69	178.89	12421.10	12361.80	105.73	OSF1.50	23.00	23.00				MinPt-O-SF	
	11265.44	123.90	11182.51	11141.54	137.46	OSF1.50	4460.00	4335.93				MinPt-O-ADP	
	11265.26	123.67	11182.48	11141.59	137.72	OSF1.50	4490.00	4364.59				MINPT-O-EOU	
	11265.12	123.22	11182.65	11141.90	138.22	OSF1.50	4550.00	4421.92				MinPt-CiCt	
	1270.78	384.02	1014.43	886.75	4.97	OSF1.50	17540.00	7151.00	OSF<5.00			Enter Alert	
	1173.23	411.12	898.82	762.10	4.29	OSF1.50	17671.31	7151.00				MinPts	
												Warning Alert	
	12647.89	181.05	12526.86	12466.84	105.35	OSF1.50	0.00	0.00				MinPt-O-SF	
English Farms 8-19HZ IFR1+MS 0' to 20216' - PR (Def Survey)	12634.28	180.83	12513.39	12453.44	105.37	OSF1.50	23.00	23.00				MinPt-O-SF	
	11334.58	127.44	11249.25	11207.14	134.44	OSF1.50	4540.00	4412.36				MinPt-O-ADP	
	11334.40	127.23	11249.25	11207.17	134.66	OSF1.50	4570.00	4441.03				MINPT-O-EOU	
	11334.29	126.89	11249.36	11207.39	135.02	OSF1.50	4620.00	4488.80				MinPt-CiCt	
	1429.70	432.80	1140.84	996.90	4.96	OSF1.50	17610.00	7151.00	OSF<5.00			Enter Alert	
	1390.23	443.74	1094.08	946.50	4.71	OSF1.50	17671.31	7151.00				MinPts	
												Warning Alert	
	10612.48	222.95	10463.52	10389.53	71.71	OSF1.50	0.00	0.00				Surface	
	10596.65	222.69	10447.86	10373.96	71.69	OSF1.50	23.00	23.00				WRP	
	10401.30	218.74	10255.15	10182.58	71.64	OSF1.50	310.00	310.00				MinPt-O-SF	
Desha 4-9-1L - Plan (Def Plan)	8934.16	137.07	8842.45	8797.09	98.47	OSF1.50	4860.00	4718.09				MinPt-O-ADP	
	8933.69	136.50	8842.35	8797.19	98.87	OSF1.50	4900.00	4756.31				MINPT-O-EOU	
	8933.30	135.39	8842.71	8797.90	99.68	OSF1.50	4980.00	4832.74				MinPt-CiCt	
	1839.95	506.19	1502.20	1333.80	5.46	OSF1.50	16040.00	7151.00				MinPt-CiCt	
	1840.12	506.52	1502.11	1333.60	5.46	OSF1.50	16060.00	7151.00				MinPts	
	1841.03	506.99	1502.70	1334.03	5.45	OSF1.50	16100.00	7151.00				MinPt-O-SF	
	1798.09	540.19	1437.63	1257.90	5.00	OSF1.50	17560.00	7151.00	OSF<5.00			Enter Alert	
	1792.76	543.23	1430.28	1249.53	4.96	OSF1.50	17671.31	7151.00				MinPts	
												Warning Alert	
	72.90	32.81	71.92	40.09	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
Desha 4-10-3L - Plan (Def Plan)	72.86	32.81	71.87	40.05	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	72.86	32.81	69.99	40.05	38.17	MAS = 10.00 (m)	250.00	250.00				MinPts	
	73.11	32.81	69.66	40.31	29.18	MAS = 10.00 (m)	310.00	310.00				MINPT-O-EOU	
	217.29	32.81	199.47	184.49	12.85	MAS = 10.00 (m)	1700.00	1689.09				MinPt-O-SF	
	683.66	104.87	613.42	578.80	9.86	OSF1.50	5910.00	5721.26				MinPt-O-SF	
	720.24	119.09	640.51	601.14	9.13	OSF1.50	7200.00	6924.21				MinPt-O-SF	
	695.73	111.06	621.35	584.67	9.47	OSF1.50	7380.00	7037.92				MinPt-O-ADP	
	695.35	110.56	621.32	584.79	9.51	OSF1.50	7390.00	7043.20				MINPT-O-EOU	
	694.95	109.10	621.89	585.85	9.63	OSF1.50	7420.00	7058.35				MinPt-CiCt	
	10199.85	132.98	10110.87	10066.87	115.90	OSF1.50	17671.31	7151.00				TD	
Desha 4-10-3L - Plan (Def Plan)												Pass	
	98.39	32.81	97.40	65.58	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	98.36	32.81	97.37	65.55	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	
	98.36	32.81	95.49	65.55	51.72	MAS = 10.00 (m)	250.00	250.00				MinPts	
	98.64	32.81	95.19	65.83	39.54	MAS = 10.00 (m)	310.00	310.00				MINPT-O-EOU	
	226.55	32.81	207.70	193.74	12.63	MAS = 10.00 (m)	1830.00	1816.84				MinPt-O-SF	
	192.29	33.99	169.22	158.21	8.69	OSF1.50	2950.00	2893.28				MinPt-CiCt	
												Warning Alert	
	98.39	32.81	97.40	65.58	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	98.36	32.81	97.37	65.55	N/A	MAS = 10.00 (m)	23.00	23.00				WRP	

...Confluence 33-01N-65W (Freedom 33 Pad)\Buford 33-7-1L\Original Hole\Buford 33-7-1L R0 mdv 27Jul22



Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Cl-Cl (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
192.75	35.60	168.68	157.15	8.31		OSF1.50	3050.00	2988.82				MINPT-O-EOU	
193.82	36.88	168.90	156.94	8.06		OSF1.50	3120.00	3055.70				MinPt-O-ADP	
276.30	65.74	232.14	210.56	6.38		OSF1.50	4280.00	4163.96				MinPt-O-SF	
384.32	113.79	308.13	270.53	5.10		OSF1.50	7350.00	7021.38				MinPt-O-SF	
374.41	108.88	301.45	265.53	5.19		OSF1.50	7420.00	7058.35				MinPt-O-ADP	
373.82	108.14	301.39	265.67	5.22		OSF1.50	7430.00	7063.17				MINPT-O-EOU	
373.33	106.69	301.87	266.64	5.28		OSF1.50	7450.00	7072.43				MinPt-CiCl	
10177.01	124.56	10093.64	10052.45	123.52		OSF1.50	17671.31	7151.00				TD	
Desha 4-13-3L - Plan (Def Plan)													Pass
196.75	32.81	195.77	163.94	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
196.73	32.81	195.75	163.93	N/A		MAS = 10.00 (m)	23.00	23.00				WRP	
196.73	32.81	193.87	163.93	103.97		MAS = 10.00 (m)	250.00	250.00				MinPts	
196.94	32.81	193.69	164.13	86.47		MAS = 10.00 (m)	290.00	290.00				MINPT-O-EOU	
227.92	43.85	198.36	184.07	7.94		OSF1.50	3270.00	3199.01				MinPt-CiCl	
228.27	44.88	198.02	183.39	7.77		OSF1.50	3340.00	3265.88				MINPT-O-EOU	
228.76	45.46	198.12	183.30	7.68		OSF1.50	3380.00	3304.10				MinPt-O-ADP	
242.38	50.22	208.57	192.16	7.35		OSF1.50	3740.00	3648.04				MinPt-O-SF	
602.40	101.90	534.14	500.50	8.94		OSF1.50	7230.00	6945.46				MinPt-CiCl	
602.70	102.62	533.96	500.09	8.88		OSF1.50	7250.00	6959.15				MINPT-O-EOU	
603.03	102.96	534.06	500.07	8.86		OSF1.50	7260.00	6965.84				MinPt-O-ADP	
610.62	105.46	539.98	505.16	8.75		OSF1.50	7340.00	7015.64				MinPt-O-SF	
10227.86	109.45	10154.56	10118.41	141.43		OSF1.50	17671.31	7151.00				TD	
Desha 4-5-4L - Plan (Def Plan)													Pass
222.25	32.81	221.26	189.44	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
222.23	32.81	221.25	189.42	N/A		MAS = 10.00 (m)	23.00	23.00				WRP	
222.23	32.81	219.37	189.42	117.51		MAS = 10.00 (m)	250.00	250.00				MinPts	
222.35	32.81	219.19	189.54	102.06		MAS = 10.00 (m)	280.00	280.00				MINPT-O-EOU	
372.53	32.81	354.28	339.72	21.52		MAS = 10.00 (m)	1800.00	1787.40				MinPt-O-SF	
575.32	50.61	541.26	524.71	17.38		OSF1.50	3880.00	3781.80				MinPt-O-SF	
580.54	51.06	546.17	529.48	17.36		OSF1.50	3910.00	3810.46				MinPt-O-SF	
1138.31	93.14	1075.89	1045.17	18.51		OSF1.50	6900.00	6381.83				MinPt-O-SF	
1224.38	101.61	1156.31	1122.77	18.24		OSF1.50	7200.00	6924.21				MinPt-O-SF	
10274.62	112.54	10199.26	10162.08	138.14		OSF1.50	17671.31	7151.00				TD	
Desha 4-10-2L MWD 0' to 16971' - PR (Def Survey)													Pass
247.93	32.81	246.12	215.12	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
247.73	32.81	245.92	214.92	N/A		MAS = 10.00 (m)	23.00	23.00				MinPts	
247.34	32.81	242.49	214.53	80.76		MAS = 10.00 (m)	380.00	380.00				MinPts	
237.31	32.81	224.06	204.50	20.58		MAS = 10.00 (m)	1230.00	1226.25				MinPts	
237.57	32.81	223.80	204.76	19.71		MAS = 10.00 (m)	1280.00	1275.49				MINPT-O-EOU	
255.95	32.81	237.98	223.15	15.54		MAS = 10.00 (m)	1710.00	1698.93				MinPt-O-SF	
265.55	32.81	246.91	232.74	15.50		MAS = 10.00 (m)	1800.00	1787.40				MinPt-O-SF	
263.54	36.42	238.73	227.12	11.29		OSF1.50	2550.00	2511.12				MinPt-CiCl	
263.56	36.55	238.65	227.01	11.24		OSF1.50	2560.00	2520.67				MINPT-O-EOU	
263.65	36.68	238.67	226.98	11.21		OSF1.50	2570.00	2530.23				MinPt-O-ADP	
270.00	38.19	244.01	231.81	11.00		OSF1.50	2690.00	2644.88				MinPt-O-SF	
307.18	43.06	277.94	264.12	11.06		OSF1.50	3000.00	2941.05				MinPt-O-SF	
382.26	54.61	345.32	327.65	10.77		OSF1.50	3720.00	3628.94				MinPt-O-SF	
494.42	65.44	450.26	428.98	11.58		OSF1.50	4420.00	4297.72				MinPt-O-SF	
617.55	77.92	565.07	539.63	12.11		OSF1.50	5240.00	5081.14				MinPt-O-SF	
732.71	88.10	673.44	644.61	12.68		OSF1.50	5860.00	5673.49				MinPt-O-SF	
756.73	90.79	695.68	665.95	12.70		OSF1.50	6030.00	5835.91				MinPt-O-SF	
872.88	113.51	796.65	759.35	11.68		OSF1.50	7180.00	6909.58				MinPt-CiCl	
873.01	113.97	796.50	759.05	11.63		OSF1.50	7200.00	6924.21				MinPts	
879.22	115.65	801.58	763.57	11.54		OSF1.50	7290.00	6985.31				MinPt-O-SF	
6388.03	111.43	6313.20	6276.59	87.22		OSF1.50	13780.00	7151.00				MinPt-O-SF	
10208.52	117.02	10129.97	10091.50	132.66		OSF1.50	17671.31	7151.00				TD	
Desha 4-15-1 MWD 0' to 11504' - PR (Def Survey)													Pass
273.32	32.81	271.51	240.51	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
273.23	32.81	271.42	240.42	N/A		MAS = 10.00 (m)	23.00	23.00				WRP	
272.48	32.81	267.36	239.67	82.72		MAS = 10.00 (m)	400.00	400.00				MinPts	
267.12	32.81	255.08	234.31	25.96		MAS = 10.00 (m)	1110.00	1108.03				MinPts	
267.38	32.81	254.84	234.57	24.77		MAS = 10.00 (m)	1160.00	1157.31				MINPT-O-EOU	
286.82	32.81	268.79	254.01	17.36		MAS = 10.00 (m)	1720.00	1708.77				MinPt-O-SF	
296.24	32.81	277.66	263.43	17.35		MAS = 10.00 (m)	1800.00	1787.40				MinPt-O-SF	
398.91	38.47	372.73	360.44	16.16		OSF1.50	2740.00	2692.65				MinPt-O-SF	
552.08	50.42	517.93	501.65	16.91		OSF1.50	3480.00	3399.64				MinPt-O-SF	
613.22	55.06	575.98	558.17	17.16		OSF1.50	3770.00	3676.71				MinPt-O-SF	
770.63	68.04	724.73	702.59	17.36		OSF1.50	4490.00	4364.59				MinPt-O-SF	
1096.97	90.61	1036.03	1006.36	18.46		OSF1.50	5800.00	5616.17				MinPt-O-SF	
1317.32	106.92	1245.51	1210.40	18.74		OSF1.50	6680.00	6460.35				MinPt-O-SF	
1321.01	107.21	1249.00	1213.80	18.74		OSF1.50	6700.00	6479.99				MinPt-O-SF	
1339.11	108.52	1266.22	1230.59	18.76		OSF1.50	6800.00	6577.51				MinPt-O-SF	
1373.86	112.58	1298.27	1261.28	18.55		OSF1.50	7000.00	6763.10				MinPt-O-ADP	
1382.80	113.49	1306.61	1269.32	18.52		OSF1.50	7070.00	6822.96				MinPt-O-SF	
10308.90	123.61	10225.95	10185.28	126.72		OSF1.50	17671.31	7151.00				TD	
Robin 9-6HZ IFR1+MS 0' to 18139' - PR (Def Survey)													Pass
12590.99	171.06	12476.62	12419.93	111.04		OSF1.50	0.00	0.00				MinPt-O-SF	
12577.67	170.84	12463.44	12406.83	111.06		OSF1.50	23.00	23.00				WRP	
11292.76	114.35	11216.19	11178.41	149.41		OSF1.50	4510.00	4383.70				MinPt-O-ADP	
11292.56	114.11	11216.16	11178.45	149.72		OSF1.50	4540.00	4412.36				MINPT-O-EOU	
11292.41	113.64	11216.32	11178.77	150.34		OSF1.50	4600.00	4469.69				MinPt-CiCl	
872.94	140.38	779.06	732.61	9.39		OSF1.50	17671.31	7151.00				MinPts	
Robin 9-5HZ IFR1+MS 0' to 18381' - PR (Def Survey)													Pass
12650.64	174.85	12533.74	12475.79	109.13		OSF1.50	0.00	0.00				MinPt-O-SF	
12637.04	174.64	12520.29	12462.40	109.15		OSF1.50	23.00	23.00				MinPt-O-SF	
11298.27	117.47	11219.63	11180.80	145.47		OSF1.50	4650.00	4517.46				MinPt-O-ADP	
11298.08	117.25	11219.58	11180.83	145.75		OSF1.50	4680.00	4546.12				MINPT-O-EOU	
11297.92	116.81	11219.72	11181.11	146.30		OSF1.50	4740.00	4603.44				MinPt-CiCl	
922.29	246.41	757.68	675.88	5.63		OSF1.50	17671.31	7151.00				MinPts	
Robin 9-7HZ IFR1+MS 0' to 18107' - PR (Def Survey)													Pass
12602.74	169.19	12489.62	12433.55	112.38		OSF1.50	0.00	0.00				MinPt-O-SF	

...Confluence 33-01N-65W (Freedom 33 Pad)\Buford 33-7-1L\Original Hole\Buford 33-7-1L R0 mdv 27Jul22

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Cl-Cl (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	12589.51	166.97	12476.53	12420.54	112.41	OSF1.50	23.00	23.00				WRP	
	11307.20	112.60	11231.81	11194.60	151.95	OSF1.50	4510.00	4383.70				MinPt-O-ADP	
	11306.99	112.36	11231.76	11194.63	152.27	OSF1.50	4540.00	4412.36				MINPT-O-EOU	
	11306.82	111.90	11231.89	11194.92	152.89	OSF1.50	4600.00	4469.69				MinPt-CiCi	
	951.51	231.30	796.92	720.12	6.19	OSF1.50	17671.31	7151.00				MinPts	
Robin 9-8HZ IFR1+MS 0' to 18257' - PR (Def Survey)													Pass
	12768.47	170.67	12654.36	12597.80	112.86	OSF1.50	0.00	0.00				MinPt-O-SF	
	12754.99	170.47	12641.02	12584.53	112.88	OSF1.50	23.00	23.00				MinPt-O-SF	
	11386.28	114.44	11309.65	11271.84	150.53	OSF1.50	4780.00	4641.66				MinPt-O-ADP	
	11386.11	114.24	11309.63	11271.87	150.79	OSF1.50	4810.00	4670.32				MINPT-O-EOU	
	11386.01	113.92	11309.74	11272.09	151.22	OSF1.50	4860.00	4718.09				MinPt-CiCi	
	1114.92	318.53	902.23	796.39	5.26	OSF1.50	17671.31	7151.00				MinPts	
Robin 9-9HZ IFR1+MS 0' to 18068' - PR (Def Survey)													Pass
	12742.24	169.81	12628.70	12572.43	113.20	OSF1.50	0.00	0.00				MinPt-O-SF	
	12729.00	169.62	12615.60	12559.39	113.22	OSF1.50	23.00	23.00				MinPt-O-SF	
	11399.00	115.75	11321.51	11283.25	148.97	OSF1.50	4690.00	4555.67				MinPt-O-ADP	
	11398.83	115.55	11321.47	11283.28	149.23	OSF1.50	4720.00	4584.34				MINPT-O-EOU	
	11398.73	115.23	11321.58	11283.50	149.65	OSF1.50	4770.00	4632.10				MinPt-CiCi	
	1327.39	397.14	1062.30	930.25	5.02	OSF1.50	17671.31	7151.00				MinPts	
Robin 9-10HZ IFR1+MS 0' to 17999' - PR (Def Survey)													Pass
	12735.67	171.12	12621.26	12564.55	112.27	OSF1.50	0.00	0.00				MinPt-O-SF	
	12722.59	170.93	12608.31	12551.66	112.29	OSF1.50	23.00	23.00				MinPt-O-SF	
	11411.84	118.76	11332.34	11293.09	145.33	OSF1.50	4650.00	4517.46				MinPt-O-ADP	
	11411.67	118.56	11332.30	11293.11	145.57	OSF1.50	4680.00	4546.12				MINPT-O-EOU	
	11411.56	118.24	11332.40	11293.32	145.97	OSF1.50	4730.00	4593.89				MinPt-CiCi	
	1555.05	442.69	1259.59	1112.36	5.28	OSF1.50	17671.31	7151.00				MinPts	
Robin 9-1HZ IFR1+MS 0' to 18459' - PR (Def Survey)													Pass
	12529.26	181.98	12407.62	12347.29	103.83	OSF1.50	0.00	0.00				MinPt-O-SF	
	12515.86	181.76	12394.36	12334.11	103.84	OSF1.50	23.00	23.00				MinPt-O-SF	
	11292.71	132.73	11203.86	11159.97	128.56	OSF1.50	4310.00	4192.62				MinPt-O-ADP	
	11292.53	132.59	11203.85	11160.00	128.76	OSF1.50	4340.00	4221.28				MINPT-O-EOU	
	11292.41	132.19	11203.96	11160.22	129.08	OSF1.50	4390.00	4269.05				MinPt-CiCi	
	1646.04	486.95	1321.07	1159.08	5.08	OSF1.50	17671.31	7151.00				MinPts	
Neckline 1 Blind 0' to 8061' - TA (Def Survey)													Pass
	6350.54	32.81	6348.73	6317.74	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6350.42	32.81	6348.59	6317.61	370012.80	MAS = 10.00 (m)	23.00	23.00				WRP	
	6311.56	105.21	6240.89	6206.35	91.36	OSF1.50	1790.00	1777.58				MinPt-CiCi	
	6313.78	112.20	6238.45	6201.59	85.61	OSF1.50	1910.00	1895.20				MINPT-O-EOU	
	6316.64	115.69	6238.98	6200.95	83.03	OSF1.50	1970.00	1953.80				MinPt-O-ADP	
	2110.55	511.11	1769.27	1599.43	6.21	OSF1.50	13780.00	7151.00				MinPt-CiCi	
	2110.94	512.36	1768.83	1598.58	6.19	OSF1.50	13820.00	7151.00				MINPT-O-EOU	
	2111.42	512.96	1768.91	1598.45	6.19	OSF1.50	13840.00	7151.00				MinPt-O-ADP	
	2122.04	517.35	1776.61	1604.69	6.17	OSF1.50	14000.00	7151.00				MinPt-O-SF	
	4469.66	496.83	4137.90	3972.83	13.53	OSF1.50	17671.31	7151.00				TD	
Glen Young 1 Blind 0' to 8050' - PA (Def Survey)													Pass
	9040.85	32.81	9039.04	9008.04	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	9040.78	32.81	9038.96	9007.97	985714.52	MAS = 10.00 (m)	20.00	20.00				MinPt-O-SF	
	9040.78	32.81	9038.95	9007.97	999998.80	MAS = 10.00 (m)	23.00	23.00				WRP	
	9023.50	101.08	8955.57	8922.41	136.04	OSF1.50	1710.00	1698.93				MinPt-CiCi	
	9025.84	108.14	8953.21	8917.70	127.06	OSF1.50	1830.00	1816.84				MINPT-O-EOU	
	9028.25	111.05	8953.66	8917.21	123.72	OSF1.50	1880.00	1865.84				MinPt-O-ADP	
	2335.04	592.86	1939.27	1742.18	5.92	OSF1.50	16640.00	7151.00				MinPt-CiCi	
	2335.90	595.31	1938.50	1740.59	5.90	OSF1.50	16700.00	7151.00				MINPT-O-EOU	
	2336.91	596.46	1938.73	1740.44	5.89	OSF1.50	16730.00	7151.00				MinPt-O-ADP	
	2349.85	602.14	1947.89	1747.71	5.87	OSF1.50	16900.00	7151.00				MinPt-O-SF	
	2554.03	609.36	2147.25	1944.67	6.30	OSF1.50	17671.31	7151.00				TD	
Young 01N-65W-28-8N MWD 0' to 11808' - PR (Def Survey)													Pass
	9544.13	144.42	9447.25	9399.71	100.37	OSF1.50	0.00	0.00				Surface	
	9526.72	144.61	9429.71	9382.11	100.05	OSF1.50	23.00	23.00				WRP	
	6863.45	163.27	6754.07	6700.19	63.67	OSF1.50	6290.00	6084.31				MinPt-CiCi	
	6863.45	163.30	6754.06	6700.16	63.66	OSF1.50	6300.00	6093.86				MINPT-O-EOU	
	6863.49	163.33	6754.06	6700.15	63.64	OSF1.50	6310.00	6103.42				MinPt-O-ADP	
	2704.80	367.57	2459.22	2337.23	11.08	OSF1.50	13230.00	7151.00				MinPt-CiCi	
	2705.15	368.87	2458.71	2336.28	11.04	OSF1.50	13270.00	7151.00				MinPts	
	2707.88	369.27	2461.17	2338.61	11.04	OSF1.50	13420.00	7151.00				MinPt-O-SF	
	2713.23	368.85	2466.80	2344.38	11.08	OSF1.50	13810.00	7151.00				MinPt-O-ADP	
	2714.32	369.71	2467.31	2344.60	11.05	OSF1.50	13880.00	7151.00				MinPt-O-SF	
	2713.08	368.41	2466.94	2344.67	11.09	OSF1.50	14010.00	7151.00				MinPts	
	2703.03	370.90	2455.23	2332.13	10.97	OSF1.50	14320.00	7151.00				MinPt-CiCi	
	2703.24	371.45	2455.07	2331.79	10.96	OSF1.50	14350.00	7151.00				MINPT-O-EOU	
	2703.40	371.63	2455.11	2331.76	10.95	OSF1.50	14360.00	7151.00				MinPt-O-ADP	
	2706.23	373.02	2457.01	2333.21	10.92	OSF1.50	14480.00	7151.00				MinPt-O-SF	
	2706.54	371.44	2458.38	2335.10	10.97	OSF1.50	14620.00	7151.00				MinPts	
	2689.14	382.08	2433.89	2307.06	10.60	OSF1.50	15110.00	7151.00				MinPt-CiCi	
	2690.71	386.68	2432.35	2304.03	10.48	OSF1.50	15240.00	7151.00				MINPT-O-EOU	
	2692.41	388.67	2432.76	2303.74	10.43	OSF1.50	15300.00	7151.00				MinPt-O-ADP	
	2695.52	391.31	2434.11	2304.21	10.37	OSF1.50	15380.00	7151.00				MinPt-O-SF	
	2694.42	391.80	2432.69	2302.63	10.35	OSF1.50	15520.00	7151.00				MinPt-CiCi	
	2696.02	397.16	2430.72	2298.87	10.22	OSF1.50	15690.00	7151.00				MINPT-O-EOU	
	2702.24	412.90	2426.44	2289.34	9.85	OSF1.50	16190.00	7151.00				MINPT-O-EOU	
	2706.01	417.37	2427.22	2288.64	9.76	OSF1.50	16310.00	7151.00				MinPt-O-ADP	
	2712.44	428.00	2426.57	2284.44	9.54	OSF1.50	16640.00	7151.00				MINPT-O-EOU	
	2712.63	428.27	2426.58	2284.36	9.53	OSF1.50	16650.00	7151.00				MinPt-O-ADP	
	2713.93	434.61	2423.66	2279.32	9.40	OSF1.50	16840.00	7151.00				MinPts	
	2701.04	450.36	2400.27	2250.68	9.02	OSF1.50	17240.00	7151.00				MinPt-CiCi	
	2702.77	457.49	2397.25	2245.35	8.89	OSF1.50	17390.00	7151.00				MinPts	
	2701.06	463.30	2391.66	2237.76	8.77	OSF1.50	17540.00	7151.00				MinPt-CiCi	
	2703.07	469.62	2389.45	2233.45	8.66	OSF1.50	17660.00	7151.00				MINPT-O-EOU	
	2703.47	470.19	2389.47	2233.27	8.65	OSF1.50	17671.31	7151.00				MinPts	

...Confluence 33-01N-65W (Freedom 33 Pad)\Buford 33-7-1L\Original Hole\Buford 3