

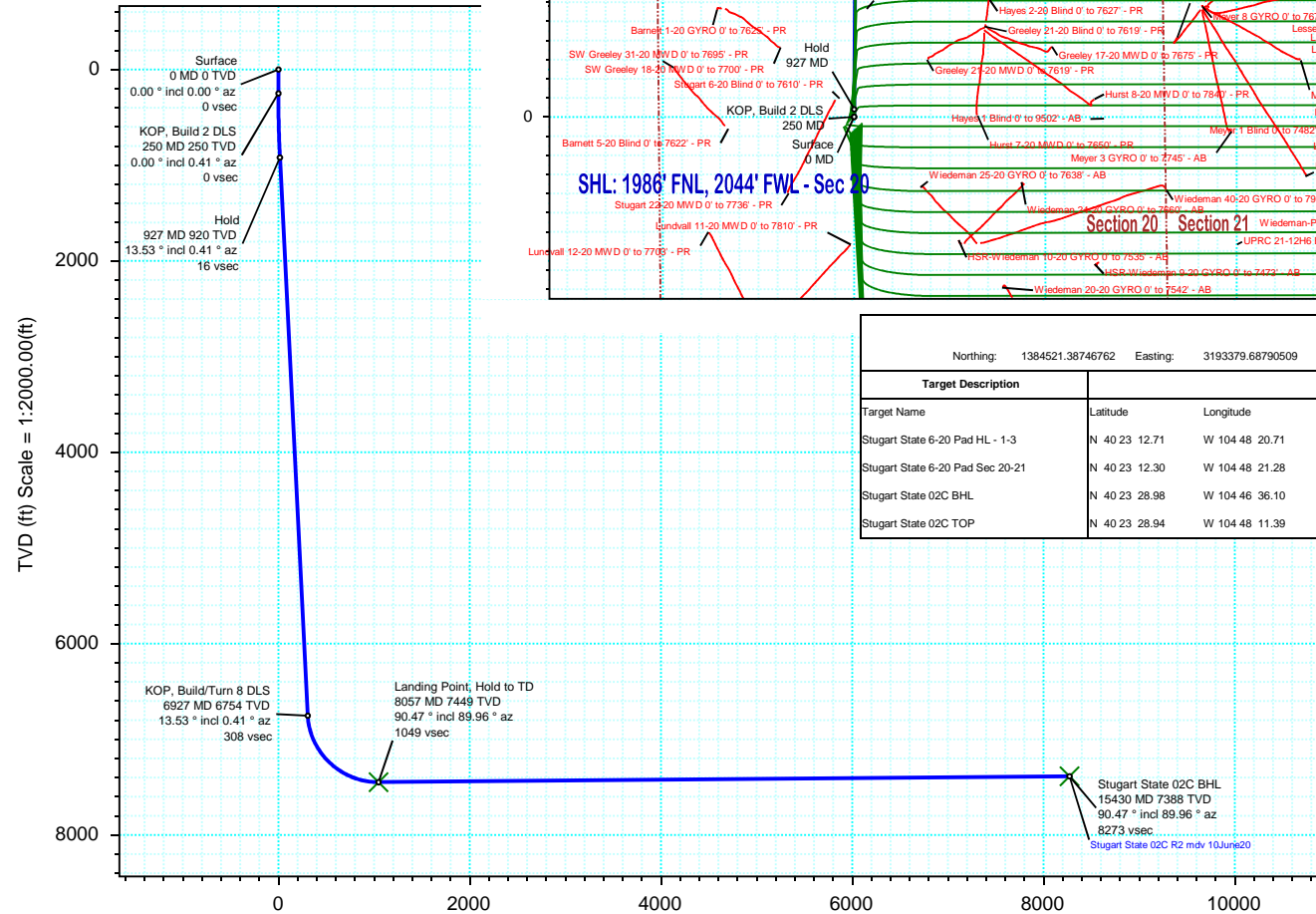
<b>Borehole:</b> Original Hole	<b>Well:</b> Stugart State 02C	<b>Field:</b> CO, Weld County (NAD 83 NZ) - SRC	<b>Structure:</b> PDC Energy 20-05N-66W (Stugart State 6-20 Pad)
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<b>Gravity &amp; Magnetic Parameters</b>		<b>Surface Location</b> NAD83 Colorado State Plane, Northern Zone, US Feet			<b>Miscellaneous</b>		
Model: HDGM 2020	Dip: 66.728°	Date: 17-Jun-2020	Lat: N 40 23 12.61	Northing: 1384521.39ftUS	Grid Conv: 0.4486°	Slot: Stugart State 02C	TVD Ref: KB 4ft(4948ft above MSL)
MagDec: 8.129°	Fs: 52099.692nT	Gravity FS: 999.013mgn (9.80665 Based)	Lon: W 104 48 20.85	Easting: 3193379.69ftUS	Scale Fact: 0.99995966	Plan: Stugart State 02C R2 mdv 10June20	

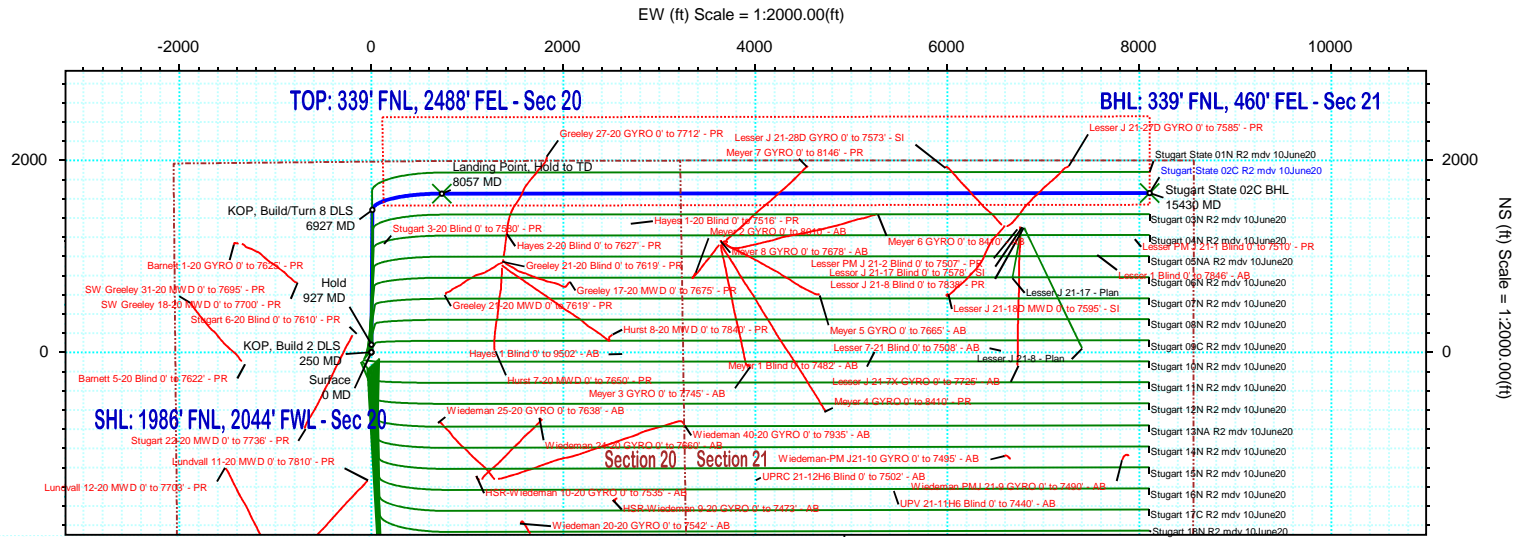
### Proposal



True North  
Tot Corr (M->T 8.129°)  
Mag Dec (8.129°)  
Grid Conv (0.449°)



Vertical Section (ft) Azim = 78.44° Scale = 1:2000.00(ft) Origin = 0N/-S, 0E/-W



Surface Location							
Northing:	1384521.38746762	Easting:	3193379.68790509	Latitude:	N 40 23 12.61	Longitude:	W 104 48 20.85
				VSec Azimuth:	78.44		
Target Description	Grid Coord		Local Coord				
Target Name	Latitude	Longitude	Northing	Easting	TVD	VSec	N(+)/S(-) E(+)/W(-)
Stugart State 6-20 Pad HL - 1-3	N 40 23 12.71	W 104 48 20.71	1384531.67	3193390.47	4948.00	12.69	10.20 10.86
Stugart State 6-20 Pad Sec 20-21	N 40 23 12.30	W 104 48 21.28	1384490.53	3193346.78	4948.00	-38.61	-30.60 -33.15
Stugart State 02C BHL	N 40 23 28.98	W 104 46 36.10	1386242.78	3201471.26	7388.00	8272.99	1658.06 8105.14
Stugart State 02C TOP	N 40 23 28.94	W 104 48 11.39	1386179.51	3194099.13	7449.00	1048.77	1652.51 732.44

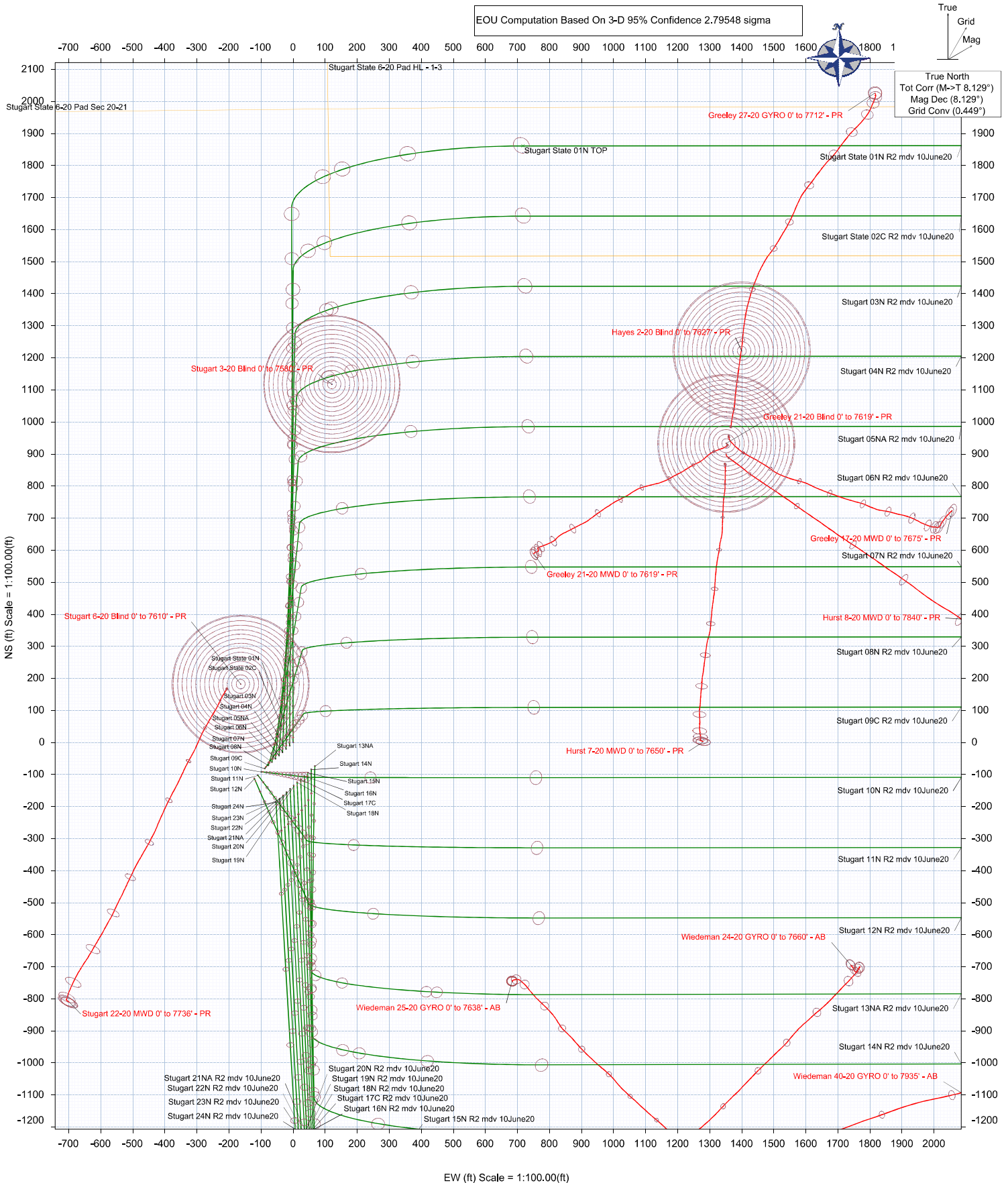
Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
KOP, Build 2 DLS	250.00	0.00	0.41	250.00	0.00	0.00	0.00	0.00
Hold	927.51	13.53	0.41	920.24	16.49	79.51	0.57	2.00
KOP, Build/Turn 8 DLS	6927.12	13.53	0.41	6754.32	307.69	1483.37	10.61	0.00
Landing Point, Hold to TD	8056.56	90.47	89.96	7449.00	1048.77	1652.51	732.44	8.00
Stugart State 02C BHL	15429.52	90.47	89.96	7388.00	8272.99	1658.06	8105.14	0.00



<b>Borehole:</b> Original Hole	<b>Well:</b> Stugart State 01N	<b>Field:</b> CO, Weld County (NAD 83 NZ) - SRC	<b>Structure:</b> PDC Energy 20-05N-66W (Stugart State 6-20 Pad)
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<b>Gravity &amp; Magnetic Parameters</b> Model: HDGM 2020 Dip: 66.728° Date: 17-Jun-2020 MagDec: 8.129° FS: 52099.711nT Gravity FS: 999.013mgn (9.80665 Based)	<b>Surface Location</b> NAD83 Colorado State Plane, Northern Zone, US Feet Lat: N 40 23 12.71 Northing: 1384531.67HUS Grid Conv: 0.4486° Lon: W 104 48 20.71 Easting: 3193390.47HUS Scale Fact: 0.99995966	<b>Miscellaneous</b> Stugart State Slot: 01N TVD Ref: KB 4ft(4948ft above MSL) Plan: Stugart State 01N R2 mdv 10June20
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EOU Computation Based On 3-D 95% Confidence 2.79548 sigma





# PDC Energy

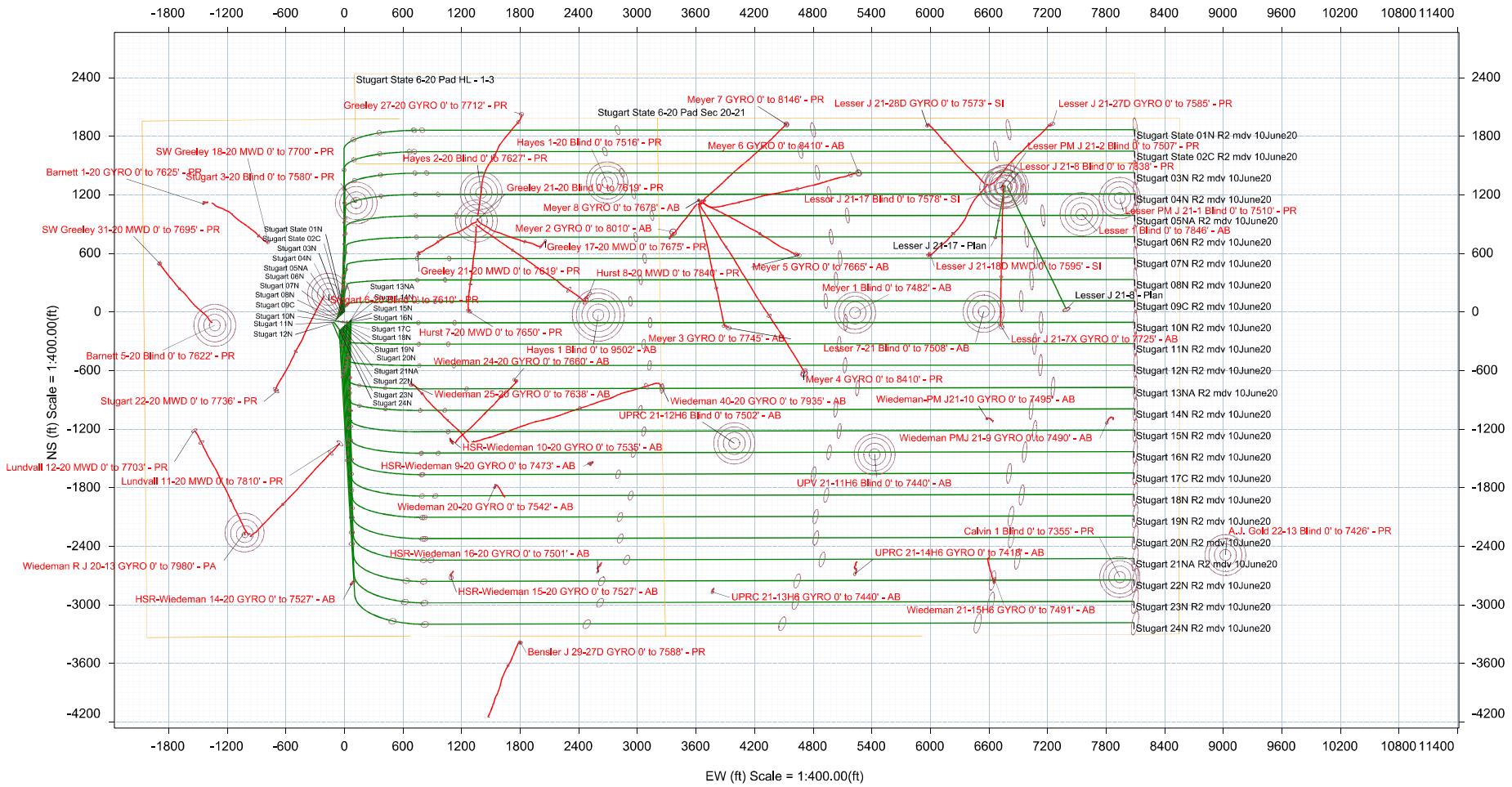


True North  
 Tot Corr (M->T 8.129°)  
 Mag Dec (8.129°)  
 Grid Conv (0.449")

<b>Borehole:</b>	<b>Well:</b>	<b>Field:</b>	<b>Structure:</b>
Original Hole	Stugart State 01N	CO, Weld County (NAD 83 NZ) - SRC	PDC Energy 20-05N-66W (Stugart State 6-20 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 2020	Dip: 66.728°	Date: 17-Jun-2020	Lat: N 40 23 12.71	Northing: 1384531.67RUS	Grid Conv: 0.4486"	Slot: Stugart State 01N	TVD Ref: KB 4ft(4948ft above MSL)
MagDec: 8.129°	FS: 52099.711nT	Gravity FS: 999.013mgn (8.80665 Based)	Lon: W 104 48 20.71	Easting: 3193390.47RUS	Scale Fact: 0.99995966	Plan: Stugart State 01N R2 mdv 10June20	

EOU Computation Based On 3-D 95% Confidence 2.79548 sigma



## Stugart State 02C R2 mdv 10June20 Proposal Geodetic Report

(Def Plan)

**Report Date:** June 18, 2020 - 11:12 AM  
**Client:** PDC Energy  
**Field:** CO, Weld County (NAD 83 NZ) - SRC  
**Structure / Slot:** PDC Energy 20-05N-66W (Stugart State 6-20 Pad) / Stugart State 02C  
**Well:** Stugart State 02C  
**Borehole:** Original Hole  
**UWI / API#:** Unknown / Unknown  
**Survey Name:** Stugart State 02C R2 mdv 10June20  
**Survey Date:** September 25, 2019  
**Tort / AHD / DDI / ERD Ratio:** 103.885 ° / 9624.586 ft / 6.316 / 1.292  
**Coordinate Reference System:** NAD83 Colorado State Plane, Northern Zone, US Feet  
**Location Lat / Long:** N 40° 23' 12.60600", W 104° 48' 20.85120"  
**Location Grid N/E Y/X:** N 1384521.387 ftUS, E 3193379.688 ftUS  
**CRS Grid Convergence Angle:** 0.4486 °  
**Grid Scale Factor:** 0.99995966  
**Version / Patch:** 2.10.811.0

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 78.439 ° (True North)  
**Vertical Section Origin:** 0.000 ft, 0.000 ft  
**TVD Reference Datum:** KB 4ft  
**TVD Reference Elevation:** 4948.000 ft above MSL  
**Seabed / Ground Elevation:** 4944.000 ft above MSL  
**Magnetic Declination:** 8.129 °  
**Total Gravity Field Strength:** 999.0133mgn (9.80665 Based)  
**Gravity Model:** GARM  
**Total Magnetic Field Strength:** 52099.692 nT  
**Magnetic Dip Angle:** 66.728 °  
**Declination Date:** June 17, 2020  
**Magnetic Declination Model:** HDGM 2020  
**North Reference:** True North  
**Grid Convergence Used:** 0.0000 °  
**Total Corr Mag North->True North:** 8.1293 °  
**Local Coord Referenced To:** Well Head

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	1384521.39	3193379.69	40.386835	-104.805792
	100.00	0.00	0.41	100.00	0.00	0.00	0.00	0.00	1384521.39	3193379.69	40.386835	-104.805792
	200.00	0.00	0.41	200.00	0.00	0.00	0.00	0.00	1384521.39	3193379.69	40.386835	-104.805792
KOP, Build 2 DLS	250.00	0.00	0.41	250.00	0.00	0.00	0.00	0.00	1384521.39	3193379.69	40.386835	-104.805792
	300.00	1.00	0.41	300.00	0.09	0.44	0.00	2.00	1384521.82	3193379.69	40.386836	-104.805792
	400.00	3.00	0.41	399.93	0.81	3.93	0.03	2.00	1384525.31	3193379.69	40.386846	-104.805792
	500.00	5.00	0.41	499.68	2.26	10.90	0.08	2.00	1384532.29	3193379.68	40.386865	-104.805792
	600.00	7.00	0.41	599.13	4.43	21.35	0.15	2.00	1384542.74	3193379.67	40.386894	-104.805791
	700.00	9.00	0.41	698.15	7.32	35.27	0.25	2.00	1384556.66	3193379.66	40.386932	-104.805791
	800.00	11.00	0.41	796.63	10.92	52.63	0.38	2.00	1384574.02	3193379.65	40.386979	-104.805791
	900.00	13.00	0.41	894.44	15.23	73.42	0.53	2.00	1384594.81	3193379.64	40.387037	-104.805790
Hold	926.51	13.53	0.41	920.24	16.49	79.51	0.57	2.00	1384600.89	3193379.63	40.387053	-104.805790
	1000.00	13.53	0.41	991.69	20.06	96.70	0.69	0.00	1384618.08	3193379.62	40.387100	-104.805790
	1100.00	13.53	0.41	1088.91	24.91	120.09	0.86	0.00	1384641.48	3193379.61	40.387165	-104.805789
	1200.00	13.53	0.41	1186.14	29.76	143.49	1.03	0.00	1384664.87	3193379.59	40.387229	-104.805788
	1300.00	13.53	0.41	1283.36	34.62	166.88	1.19	0.00	1384688.27	3193379.57	40.387293	-104.805788
	1400.00	13.53	0.41	1380.59	39.47	190.28	1.36	0.00	1384711.66	3193379.56	40.387357	-104.805787
	1500.00	13.53	0.41	1477.81	44.32	213.67	1.53	0.00	1384735.06	3193379.54	40.387422	-104.805787
	1600.00	13.53	0.41	1575.04	49.17	237.07	1.70	0.00	1384758.45	3193379.53	40.387486	-104.805786
	1700.00	13.53	0.41	1672.26	54.03	260.47	1.86	0.00	1384781.85	3193379.51	40.387550	-104.805785
	1800.00	13.53	0.41	1769.49	58.88	283.86	2.03	0.00	1384805.24	3193379.50	40.387614	-104.805785
	1900.00	13.53	0.41	1866.71	63.73	307.26	2.20	0.00	1384828.64	3193379.48	40.387678	-104.805784
	2000.00	13.53	0.41	1963.94	68.59	330.65	2.36	0.00	1384852.03	3193379.46	40.387743	-104.805784
	2100.00	13.53	0.41	2061.16	73.44	354.05	2.53	0.00	1384875.43	3193379.45	40.387807	-104.805783
	2200.00	13.53	0.41	2158.39	78.29	377.44	2.70	0.00	1384898.82	3193379.43	40.387871	-104.805782
	2300.00	13.53	0.41	2255.61	83.14	400.84	2.87	0.00	1384922.22	3193379.42	40.387935	-104.805782
	2400.00	13.53	0.41	2352.84	88.00	424.23	3.03	0.00	1384945.61	3193379.40	40.387999	-104.805781
	2500.00	13.53	0.41	2450.06	92.85	447.63	3.20	0.00	1384969.01	3193379.38	40.388064	-104.805781
	2600.00	13.53	0.41	2547.28	97.70	471.02	3.37	0.00	1384992.40	3193379.37	40.388128	-104.805780
	2700.00	13.53	0.41	2644.51	102.55	494.42	3.54	0.00	1385015.80	3193379.35	40.388192	-104.805779
	2800.00	13.53	0.41	2741.73	107.41	517.81	3.70	0.00	1385039.19	3193379.34	40.388256	-104.805779
	2900.00	13.53	0.41	2838.96	112.26	541.21	3.87	0.00	1385062.59	3193379.32	40.388321	-104.805778
	3000.00	13.53	0.41	2936.18	117.11	564.60	4.04	0.00	1385085.98	3193379.31	40.388385	-104.805778
	3100.00	13.53	0.41	3033.41	121.97	588.00	4.20	0.00	1385109.38	3193379.29	40.388449	-104.805777
	3200.00	13.53	0.41	3130.63	126.82	611.40	4.37	0.00	1385132.77	3193379.27	40.388513	-104.805776
	3300.00	13.53	0.41	3227.86	131.67	634.79	4.54	0.00	1385156.17	3193379.26	40.388577	-104.805776
	3400.00	13.53	0.41	3325.08	136.52	658.19	4.71	0.00	1385179.56	3193379.24	40.388642	-104.805775
	3500.00	13.53	0.41	3422.31	141.38	681.58	4.87	0.00	1385202.96	3193379.23	40.388706	-104.805775
	3600.00	13.53	0.41	3519.53	146.23	704.98	5.04	0.00	1385226.35	3193379.21	40.388770	-104.805774
	3700.00	13.53	0.41	3616.76	151.08	728.37	5.21	0.00	1385249.75	3193379.19	40.388834	-104.805773
	3800.00	13.53	0.41	3713.98	155.93	751.77	5.38	0.00	1385273.14	3193379.18	40.388899	-104.805773
	3900.00	13.53	0.41	3811.20	160.79	775.16	5.54	0.00	1385296.54	3193379.16	40.388963	-104.805772
	4000.00	13.53	0.41	3908.43	165.64	798.56	5.71	0.00	1385319.93	3193379.15	40.389027	-104.805772
	4100.00	13.53	0.41	4005.65	170.49	821.95	5.88	0.00	1385343.33	3193379.13	40.389091	-104.805771
	4200.00	13.53	0.41	4102.88	175.35	845.35	6.05	0.00	1385366.72	3193379.11	40.389155	-104.805770
	4300.00	13.53	0.41	4200.10	180.20	868.74	6.21	0.00	1385390.12	3193379.10	40.389220	-104.805770
	4400.00	13.53	0.41	4297.33	185.05	892.14	6.38	0.00	1385413.51	3193379.08	40.389284	-104.805769
	4500.00	13.53	0.41	4394.55	189.90	915.53	6.55	0.00	1385436.91	3193379.07	40.389348	-104.805768
	4600.00	13.53	0.41	4491.78	194.76	938.93	6.71	0.00	1385460.30	3193379.05	40.389412	-104.805768
	4700.00	13.53	0.41	4589.00	199.61	962.33	6.88	0.00	1385483.70	3193379.04	40.389476	-104.805767
	4800.00	13.53	0.41	4686.23	204.46	985.72	7.05	0.00	1385507.09	3193379.02	40.389541	-104.805767
	4900.00	13.53	0.41	4783.45	209.32	1009.12	7.22	0.00	1385530.49	3193379.00	40.389605	-104.805766
	5000.00	13.53	0.41	4880.68	214.17	1032.51	7.38	0.00	1385553.88	3193378.99	40.389669	-104.805765
	5100.00	13.53	0.41	4977.90	219.02	1055.91	7.55	0.00	1385577.28	3193378.97	40.389733	-104.805765
	5200.00	13.53	0.41	5075.13	223.87	1079.30	7.72	0.00	1385600.67	3193378.96	40.389798	-104.805764
	5300.00	13.53	0.41	5172.35	228.73	1102.70	7.89	0.00	1385624.07	3193378.94	40.389862	-104.805764
	5400.00	13.53	0.41	5269.57	233.58	1126.09	8.05	0.00	1385647.46	3193378.92	40.389926	-104.805763
	5500.00	13.53	0.41	5366.80	238.43	1149.49	8.22	0.00	1385670.86	3193378.91	40.389990	-104.805762
	5600.00	13.53	0.41	5464.02	243.28	1172.88	8.39	0.00	1385694.25	3193378.89	40.390054	-104.805762
	5700.00	13.53	0.41	5561.25	248.14	1196.28	8.55	0.00	1385717.65	3193378.88	40.390119	-104.805761
	5800.00	13.53	0.41	5658.47	252.99	1219.67	8.72	0.00	1385741.04	3193378.86	40.390183	-104.805761
	5900.00	13.53	0.41	5755.70	257.84	1243.07	8.89	0.00	1385764.44	3193378.85	40.390247	-104.805760
	6000.00	13.53	0.41	5852.92	262.70	1266.46	9.06	0.00	1385787.83	3193378.83	40.390311	-104.805759
	6100.00	13.53	0.41	5950.15	267.55	1289.86	9.22	0.00	1385811.23	3193378.81	40.390376	-104.805759
	6200.00	13.53	0.41	6047.37	272.40	1313.25	9.39	0.00	1385834.62	3193378.80	40.390440	-104.805758
	6300.00	13.53	0.41	6144.60	277.25	1336.65	9.56	0.00	1385858.01	3193378.78	40.390504	-104.805758
	6400.00	13.53	0.41	6241.82	282.11	1360.05	9.73	0.00	1385881.41	3193378.77	40.390568	-104.805757
	6500.00	13.53	0.41	6339.05	286.96	1383.44	9.89	0.00	1385904.80	3193378.75	40.390632	-104.805756
	6600.00	13.53	0.41	6436.27	291.81	1406.84	10.06	0.00	1385928.20	3193378.73	40.390697	-104.805756
	6700.00	13.53	0.41	6533.49	296.67	1430.23	10.23	0.00	1385951.59	3193378.72	40.390761	-104.805755
	6800.00	13.53	0.41	6630.72	301.52	1453.63	10.39	0.00	1385974.99	3193378.70	40.390825	-104.805755
	6900.00	13.53	0.41	6727.94	306.37	1477.02	10.56	0.00	1385998.38	3193378.69	40.390889	-104.805754
KOP, Build/Turn 8 DLS	6927.12	13.53	0.41	6754.32	307.69	1483.37	10.61	0.00	1386004.73	3193378.68	40.390907	-104.805754
	7000.00	14.76	23.90	6825.04	314.85	1500.40	14.43	8.00	1386021.79	3193382.37	40.390953	-104.805740
	7100.00</											

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	7200.00	25.62	59.72	7013.13	370.95	1545.79	62.41	8.00	1386067.55	3193429.99	40.391078	-104.805568
	7300.00	32.62	67.75	7100.47	417.98	1566.92	106.10	8.00	1386089.03	3193473.51	40.391136	-104.805411
	7400.00	39.96	73.15	7181.04	476.54	1586.47	161.86	8.00	1386109.00	3193529.12	40.391190	-104.805211
	7500.00	47.48	77.10	7253.28	545.46	1604.03	228.63	8.00	1386127.09	3193595.74	40.391238	-104.804971
	7600.00	55.11	80.18	7315.77	623.43	1619.28	305.08	8.00	1386142.94	3193672.07	40.391280	-104.804697
	7700.00	62.81	82.74	7367.31	708.91	1631.91	389.75	8.00	1386156.23	3193756.64	40.391314	-104.804393
	7800.00	70.54	84.97	7406.88	800.24	1641.68	480.98	8.00	1386166.72	3193847.78	40.391341	-104.804065
	7900.00	78.30	86.99	7433.71	895.65	1648.40	576.99	8.00	1386174.19	3193943.73	40.391360	-104.803721
	8000.00	86.07	88.90	7447.30	993.28	1651.94	675.92	8.00	1386178.50	3194042.63	40.391369	-104.803366
Landing Point, Hold to TD	8056.56	90.47	89.96	7449.00	1048.77	1652.51	732.44	8.00	1386179.51	3194099.13	40.391371	-104.803163
	8100.00	90.47	89.96	7448.64	1091.33	1652.54	775.87	0.00	1386179.88	3194142.57	40.391371	-104.803007
	8200.00	90.47	89.96	7447.81	1189.31	1652.62	875.87	0.00	1386180.74	3194242.56	40.391371	-104.802848
	8300.00	90.47	89.96	7446.99	1287.30	1652.69	975.87	0.00	1386181.60	3194342.55	40.391371	-104.802689
	8400.00	90.47	89.96	7446.16	1385.28	1652.77	1075.86	0.00	1386182.46	3194442.53	40.391372	-104.801930
	8500.00	90.47	89.96	7445.33	1483.26	1652.84	1175.86	0.00	1386183.31	3194542.52	40.391372	-104.801571
	8600.00	90.47	89.96	7444.50	1581.25	1652.92	1275.86	0.00	1386184.17	3194642.51	40.391372	-104.801212
	8700.00	90.47	89.96	7443.68	1679.23	1652.99	1375.85	0.00	1386185.03	3194742.50	40.391372	-104.800853
	8800.00	90.47	89.96	7442.85	1777.21	1653.07	1475.85	0.00	1386185.89	3194842.49	40.391372	-104.800494
	8900.00	90.47	89.96	7442.02	1875.19	1653.14	1575.85	0.00	1386186.75	3194942.48	40.391373	-104.800135
	9000.00	90.47	89.96	7441.19	1973.18	1653.22	1675.84	0.00	1386187.60	3195042.47	40.391373	-104.799776
	9100.00	90.47	89.96	7440.37	2071.16	1653.29	1775.84	0.00	1386188.46	3195142.46	40.391373	-104.799417
	9200.00	90.47	89.96	7439.54	2169.14	1653.37	1875.84	0.00	1386189.32	3195242.44	40.391373	-104.799058
	9300.00	90.47	89.96	7438.71	2267.13	1653.45	1975.83	0.00	1386190.18	3195342.43	40.391373	-104.798699
	9400.00	90.47	89.96	7437.89	2365.11	1653.52	2075.83	0.00	1386191.04	3195442.42	40.391374	-104.798340
	9500.00	90.47	89.96	7437.06	2463.09	1653.60	2175.83	0.00	1386191.90	3195542.41	40.391374	-104.797981
	9600.00	90.47	89.96	7436.23	2561.07	1653.67	2275.82	0.00	1386192.75	3195642.40	40.391374	-104.797622
	9700.00	90.47	89.96	7435.40	2659.06	1653.75	2375.82	0.00	1386193.61	3195742.39	40.391374	-104.797263
	9800.00	90.47	89.96	7434.58	2757.04	1653.82	2475.82	0.00	1386194.47	3195842.38	40.391374	-104.796904
	9900.00	90.47	89.96	7433.75	2855.02	1653.90	2575.81	0.00	1386195.33	3195942.36	40.391374	-104.796545
	10000.00	90.47	89.96	7432.92	2953.00	1653.97	2675.81	0.00	1386196.19	3196042.35	40.391375	-104.796186
	10100.00	90.47	89.96	7432.09	3050.99	1654.05	2775.81	0.00	1386197.04	3196142.34	40.391375	-104.795827
	10200.00	90.47	89.96	7431.27	3148.97	1654.12	2875.80	0.00	1386197.90	3196242.33	40.391375	-104.795468
	10300.00	90.47	89.96	7430.44	3246.95	1654.20	2975.80	0.00	1386198.76	3196342.32	40.391375	-104.795109
	10400.00	90.47	89.96	7429.61	3344.94	1654.27	3075.79	0.00	1386199.62	3196442.31	40.391375	-104.794750
	10500.00	90.47	89.96	7428.78	3442.92	1654.35	3175.79	0.00	1386200.48	3196542.30	40.391375	-104.794391
	10600.00	90.47	89.96	7427.96	3540.90	1654.42	3275.79	0.00	1386201.34	3196642.29	40.391376	-104.794032
	10700.00	90.47	89.96	7427.13	3638.88	1654.50	3375.78	0.00	1386202.19	3196742.27	40.391376	-104.793673
	10800.00	90.47	89.96	7426.30	3736.87	1654.58	3475.78	0.00	1386203.05	3196842.26	40.391376	-104.793314
	10900.00	90.47	89.96	7425.47	3834.85	1654.65	3575.78	0.00	1386203.91	3196942.25	40.391376	-104.792955
	11000.00	90.47	89.96	7424.65	3932.83	1654.73	3675.77	0.00	1386204.77	3197042.24	40.391376	-104.792596
	11100.00	90.47	89.96	7423.82	4030.81	1654.80	3775.77	0.00	1386205.63	3197142.23	40.391376	-104.792237
	11200.00	90.47	89.96	7422.99	4128.80	1654.88	3875.77	0.00	1386206.48	3197242.22	40.391377	-104.791878
	11300.00	90.47	89.96	7422.17	4226.78	1654.95	3975.76	0.00	1386207.34	3197342.21	40.391377	-104.791519
	11400.00	90.47	89.96	7421.34	4324.76	1655.03	4075.76	0.00	1386208.20	3197442.19	40.391377	-104.791160
	11500.00	90.47	89.96	7420.51	4422.75	1655.10	4175.76	0.00	1386209.06	3197542.18	40.391377	-104.790801
	11600.00	90.47	89.96	7419.68	4520.73	1655.18	4275.75	0.00	1386209.92	3197642.17	40.391377	-104.790442
	11700.00	90.47	89.96	7418.86	4618.71	1655.25	4375.75	0.00	1386210.77	3197742.16	40.391377	-104.790083
	11800.00	90.47	89.96	7418.03	4716.69	1655.33	4475.75	0.00	1386211.63	3197842.15	40.391378	-104.789724
	11900.00	90.47	89.96	7417.20	4814.68	1655.40	4575.74	0.00	1386212.49	3197942.14	40.391378	-104.789365
	12000.00	90.47	89.96	7416.37	4912.66	1655.48	4675.74	0.00	1386213.35	3198042.13	40.391378	-104.789006
	12100.00	90.47	89.96	7415.55	5010.64	1655.55	4775.74	0.00	1386214.21	3198142.12	40.391378	-104.788647
	12200.00	90.47	89.96	7414.72	5108.62	1655.63	4875.73	0.00	1386215.07	3198242.10	40.391378	-104.788288
	12300.00	90.47	89.96	7413.89	5206.61	1655.71	4975.73	0.00	1386215.92	3198342.09	40.391378	-104.787929
	12400.00	90.47	89.96	7413.06	5304.59	1655.78	5075.73	0.00	1386216.78	3198442.08	40.391379	-104.787570
	12500.00	90.47	89.96	7412.24	5402.57	1655.86	5175.72	0.00	1386217.64	3198542.07	40.391379	-104.787211
	12600.00	90.47	89.96	7411.41	5500.56	1655.93	5275.72	0.00	1386218.50	3198642.06	40.391379	-104.786852
	12700.00	90.47	89.96	7410.58	5598.54	1656.01	5375.72	0.00	1386219.36	3198742.05	40.391379	-104.786493
	12800.00	90.47	89.96	7409.76	5696.52	1656.08	5475.71	0.00	1386220.21	3198842.04	40.391379	-104.786134
	12900.00	90.47	89.96	7408.93	5794.50	1656.16	5575.71	0.00	1386221.07	3198942.02	40.391379	-104.785775
	13000.00	90.47	89.96	7408.10	5892.49	1656.23	5675.70	0.00	1386221.93	3199042.01	40.391379	-104.785416
	13100.00	90.47	89.96	7407.27	5990.47	1656.31	5775.70	0.00	1386222.79	3199142.00	40.391380	-104.785057
	13200.00	90.47	89.96	7406.45	6088.45	1656.38	5875.70	0.00	1386223.65	3199242.00	40.391380	-104.784698
	13300.00	90.47	89.96	7405.62	6186.44	1656.46	5975.69	0.00	1386224.50	3199341.98	40.391380	-104.784339
	13400.00	90.47	89.96	7404.79	6284.42	1656.53	6075.69	0.00	1386225.36	3199441.97	40.391380	-104.783980
	13500.00	90.47	89.96	7403.96	6382.40	1656.61	6175.69	0.00	1386226.22	3199541.96	40.391380	-104.783621
	13600.00	90.47	89.96	7403.13	6480.38	1656.68	6275.68	0.00	1386227.08	3199641.95	40.391380	-104.783262
	13700.00	90.47	89.96	7402.31	6578.37	1656.76	6375.68	0.00	1386227.94	3199741.93	40.391380	-104.782903
	13800.00	90.47	89.96	7401.48	6676.35	1656.84	6475.68	0.00	1386228.80	3199841.92	40.391381	-104.782544
	13900.00	90.47	89.96	7400.65	6774.33	1656.91	6575.67	0.00	1386229.65	3199941.91	40.391381	-104.782185
	14000.00	90.47	89.96	7399.83	6872.31	1656.99	6675.67	0.00	1386230.51	3200041.90	40.391381	-104.781826
	14100.00	90.47	89.96	7399.00	6970.30	1657.06	6775.67	0.00	1386231.37	3200141.89	40.391381	-104.781467
	14200.00	90.47	89.96	7398.17	7068.28	1657.14	6875.66	0.00	1386232.23	3200241.88	40.391381	-104.781108
	14300.00	90.47	89.96	7397.35	7166.26	1657.21	6975.66	0.00	1386233.09	3200341.87	40.391381	-104.780749
	14400.00	90.47	89.96	7396.52	7264.25	1657.29	7075.66	0.00	1386233.94	3200441.85	40.391381	-104.780390
	14500.00	90.47	89.96	7395.69	7362.23	1657.36	7175.65	0.00	1386234.80	3200541.84	40.391381	-104.780031
	14600.00	90.47	89.96	7394.86	7460.21	1657.44	7275.65	0.00	1386235.66	3200641.83	40.391382	-104.779672
	14700.00	90.47	89.96	7394.04	7558.19	1657.51	7375.65	0.00	1386236.52	3200741.82	40.391382	-104.779313
	14800.00	90.47	89.96	7393.21	7656.18	1657.59	7475.64					

## Stugart State 02C R2 mdv 10June20 Anti-Collision Summary Report

**Analysis Date-24hr Time:** June 18, 2020 - 11:15  
**Client:** PDC Energy  
**Field:** CO, Weld County (NAD 83 NZ) - SRC  
**Structure:** PDC Energy 20-05N-66W (Stugart State 6-20 Pad)  
**Slot:** Stugart State 02C  
**Well:** Stugart State 02C  
**Borehole:** Original Hole  
**Scan MD Range:** 0.00ft - 15429.52ft

**Analysis Method:** 3D Least Distance  
**Reference Trajectory:** Stugart State 02C R2 mdv 10June20 (Def Plan)  
**Depth Interval:** Every 10.00 Measured Depth (ft)  
**Rule Set:** D&M AntiCollision Standard S002 v5.1/5.2  
**Min Pts:** All local minima indicated.  
**Version / Patch:** 2.10.811.0  
**Database \ Project:** localhost\drilling-project1

**Trajectory Error Model:** ICSWSA0 3-D 95.000% Confidence 2.7955 sigma

### Offset Trajectories Summary

**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 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

Stugart 3-20 Blind 0' to 7580' - PR (Def Survey)													
	1135.91	32.81	1134.04	1103.10	21501.61	MAS = 10.00 (m)	0.00	0.00					Surface
	1135.91	32.81	1133.94	1103.10	7191.05	MAS = 10.00 (m)	4.00	4.00					WRP
	580.18	176.37	461.98	403.81	4.97	OSF1.50	2990.00	2926.46	OSF<5.00				Enter Alert
	258.96	260.72	84.44	-1.76	1.49	OSF1.50	4440.00	4336.22		OSF<1.50			Enter Minor
	187.45	281.83	-1.14	-94.38	0.99	OSF1.50	4810.00	4695.95			OSF<1.00		Enter Major
	123.41	314.97	-87.11	-191.56	0.58	OSF1.50	5410.00	5279.30				OSF>1.00	MinPt-CtCt
	123.90	317.90	-88.57	-194.01	0.58	OSF1.50	5460.00	5327.91					MinPt-O-SF
	125.07	320.28	-88.98	-195.21	0.58	OSF1.50	5500.00	5366.80					MINPT-O-EOU
	127.50	323.28	-88.56	-195.76	0.59	OSF1.50	5550.00	5415.41					MinPt-O-ADP
	247.48	370.50	-0.05	-123.01	1.00	OSF1.50	6330.00	6173.76					Exit Major
	420.11	420.29	139.39	-0.17	1.50	OSF1.50	7180.00	6995.00					Exit Minor
	1471.16	444.83	1174.07	1026.33	4.97	OSF1.50	8830.00	7442.60	OSF>5.00		OSF>1.50		Exit Alert
	7991.24	441.23	7696.55	7550.01	27.26	OSF1.50	15429.52	7388.00					TD

Stugart 03N R2 mdv 10June20 (Def Plan)													
	15.11	12.28	14.12	2.83	N/A	MAS = 3.74 (m)	0.00	0.00	CtCt<=15m<15.00				Enter Alert
	15.11	12.28	14.12	2.83	N/A	MAS = 3.74 (m)	4.00	4.00					WRP
	14.29	12.28	8.00	2.01	2.51	MAS = 3.74 (m)	860.00	855.40					MinPts
	14.40	12.28	7.90	2.12	2.43	MAS = 3.74 (m)	890.00	884.69					MINPT-O-EOU
	15.10	12.28	8.22	2.82	2.39	MAS = 3.74 (m)	940.00	933.36					MinPt-O-SF
	164.54	60.53	123.85	104.00	4.12	OSF1.50	6760.00	6591.83					MinPt-O-SF
	195.76	59.84	155.54	135.92	4.96	OSF1.50	7210.00	7022.12	OSF>5.00				Exit Alert
	251.76	76.43	200.48	175.33	4.99	OSF1.50	9530.00	7436.81	OSF<5.00				Enter Alert
	248.74	249.03	82.39	-0.29	1.50	OSF1.50	14680.00	7394.37		OSF<1.50			Enter Minor
	248.39	276.31	63.77	-28.00	1.34	OSF1.50	15429.52	7388.00					MinPts

Stugart State 01N R2 mdv 10June20 (Def Plan)													
	14.90	12.11	13.92	2.79	N/A	MAS = 3.69 (m)	0.00	0.00	CtCt<=15m<15.00				Enter Alert
	14.90	12.11	13.92	2.79	N/A	MAS = 3.69 (m)	4.00	4.00					WRP
	14.90	12.11	12.95	2.79	14.97	MAS = 3.69 (m)	200.00	200.00					MinPts
	15.01	12.11	12.91	2.90	12.53	MAS = 3.69 (m)	230.00	230.00					MINPT-O-EOU
	25.07	12.11	18.02	12.95	3.97	MAS = 3.69 (m)	970.00	962.52					MinPt-O-SF
	66.70	20.72	52.55	45.97	4.99	OSF1.50	2180.00	2138.94	OSF>5.00				Exit Alert
	231.89	63.62	189.15	168.28	6.53	OSF1.50	6800.00	6630.72					MinPt-O-SF
	290.66	87.95	231.69	202.70	5.00	OSF1.50	8620.00	7444.34	OSF<5.00				Enter Alert
	291.19	291.25	96.70	-0.05	1.50	OSF1.50	14800.00	7393.21		OSF<1.50			Enter Minor
	291.25	312.97	82.28	-21.72	1.40	OSF1.50	15429.52	7388.00					MinPts

Hayes 1-20 Blind 0' to 7516' - PR (Def Survey)													
	3014.73	32.81	3012.92	2981.92	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	3014.72	32.81	3012.90	2981.91	604477.18	MAS = 10.00 (m)	4.00	4.00					WRP
	2692.13	371.56	2443.89	2320.57	10.91	OSF1.50	6390.00	6232.10					MinPt-CtCt
	1470.13	445.54	1172.18	1024.60	4.97	OSF1.50	8590.00	7444.59	OSF<5.00				Enter Alert
	447.01	448.27	147.40	-1.26	1.50	OSF1.50	9710.00	7435.32		OSF<1.50			Enter Minor
	316.49	451.25	15.12	-134.77	1.03	OSF1.50	10030.00	7432.67					MinPts
	445.99	446.94	147.50	-0.95	1.50	OSF1.50	10340.00	7430.11		OSF>1.50			Exit Minor
	1468.73	442.82	1172.98	1025.91	4.99	OSF1.50	11460.00	7420.84	OSF<5.00				Exit Alert
	5412.87	440.67	5118.56	4972.20	18.49	OSF1.50	15429.52	7388.00					TD

Lesser J 21-17 Blind 0' to 7578' - SI (Def Survey)													
	6901.95	32.81	6900.14	6869.14	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	6901.91	32.81	6900.05	6869.10	156575.81	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF
	6767.91	366.03	6523.35	6401.86	27.85	OSF1.50	6360.00	6202.93					MinPt-CtCt
	1464.77	445.75	1165.39	1019.02	4.98	OSF1.50	12680.00	7410.75	OSF<5.00				Enter Alert
	458.33	463.61	147.75	-5.28	1.48	OSF1.50	13810.00	7401.40		OSF<1.50			Enter Minor
	353.72	474.47	36.87	-120.76	1.12	OSF1.50	14100.00	7399.00					MinPts
	456.47	459.25	149.77	-2.78	1.49	OSF1.50	14390.00	7396.60		OSF>1.50			Exit Minor
	1374.30	439.06	1081.06	935.24	4.71	OSF1.50	15429.52	7388.00					TD

Lesser J 21-8 Blind 0' to 7838' - PR (Def Survey)													
	6918.02	32.81	6916.21	6885.22	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	6917.98	32.81	6916.13	6885.18	157306.02	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF
	6785.79	364.28	6542.40	6421.51	28.06	OSF1.50	6330.00	6173.76					MinPt-CtCt
	1464.53	445.84	1165.09	1018.69	4.98	OSF1.50	12700.00	7410.58	OSF<5.00				Enter Alert
	462.90	464.10	152.02	-1.19	1.50	OSF1.50	13830.00	7401.23		OSF<1.50			Enter Minor
	361.38	474.63	44.42	-113.25	1.14	OSF1.50	14120.00	7398.83					MinPts
	457.59	460.25	150.22	-2.66	1.49	OSF1.50	14400.00	7396.52		OSF>1.50			Exit Minor
	1359.10	439.26	1065.73	919.85	4.65	OSF1.50	15429.52	7388.00					TD

Lesser PM J 21-2 Blind 0' to 7507' - PR (Def Survey)													
	6848.77	32.81	6846.95	6815.96	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	6848.73	32.81	6846.87	6815.92	164639.91	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF
	6718.50	360.45	6477.67	6358.05	28.08	OSF1.50	6260.00	6105.71					MinPt-CtCt
	1471.05	446.13	1171.45	1024.92	5.00	OSF1.50	12630.00	7411.16	OSF<5.00				Enter Alert

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		
	485.10	485.24	153.57	-0.14	1.50	OSF1.50	13780.00	7401.65				OSF<1.50	Enter Minor
	377.38	474.24	60.69	-96.86	1.19	OSF1.50	14050.00	7399.41				OSF>1.50	MinPts
	457.21	462.29	148.46	-5.06	1.46	OSF1.50	14310.00	7397.26				OSF>1.50	Exit Minor
	1428.35	439.47	1134.84	988.88	4.89	OSF1.50	15429.52	7388.00					TD
Hays 2-20 Blind 0' to 7627' - PR (Def Survey)													
	1872.55	32.81	1870.74	1839.74	N/A	MAS = 10.00 (m)	0.00	0.00					Fail Minor
	1872.54	32.81	1870.72	1839.73	202000.92	MAS = 10.00 (m)	4.00	4.00					Surface
	1401.52	342.37	1172.73	1059.15	6.16	OSF1.50	5890.00	5745.98					WRP
	1421.51	401.94	1153.02	1019.57	5.32	OSF1.50	6910.00	6737.67					MinPt-CtCt
	1387.12	417.85	1108.02	969.27	4.99	OSF1.50	7190.00	7004.09	OSF<5.00				MINPT-O-EOU
	445.24	447.45	146.40	-2.21	1.49	OSF1.50	8590.00	7444.59				OSF<1.50	Enter Alert
	421.26	447.96	122.13	-26.64	1.41	OSF1.50	8730.00	7443.43					MinPts
	445.76	447.48	146.90	-1.72	1.49	OSF1.50	8880.00	7442.19					Exit Minor
	1467.52	443.52	1171.31	1024.00	4.98	OSF1.50	10140.00	7431.76	OSF>5.00			OSF>1.50	Exit Alert
	6708.34	440.64	6414.04	6267.69	22.91	OSF1.50	15429.52	7388.00					TD
Lesser PM J 21-1 Blind 0' to 7510' - PR (Def Survey)													
	8038.42	32.81	8036.61	8005.61	N/A	MAS = 10.00 (m)	0.00	0.00					Fail Minor
	8038.38	32.81	8036.53	8005.58	206926.14	MAS = 10.00 (m)	4.00	4.00					Surface
	7942.67	336.77	7717.63	7605.91	35.54	OSF1.50	5860.00	5716.81					MinPt-O-SF
	1475.50	448.87	1173.77	1026.63	4.99	OSF1.50	13880.00	7400.82	OSF<5.00				MinPt-CtCt
	484.37	485.52	160.15	-1.16	1.50	OSF1.50	15210.00	7389.82				OSF<1.50	Enter Alert
	479.97	486.32	155.22	-6.35	1.48	OSF1.50	15270.00	7389.32					MinPts
	479.96	486.32	155.22	-6.35	1.48	OSF1.50	15280.00	7389.24					MinPts
	484.28	485.43	160.12	-1.15	1.50	OSF1.50	15340.00	7388.74	OSF>1.50				Exit Minor
	504.10	481.79	182.38	22.32	1.57	OSF1.50	15429.52	7388.00					TD
Stugart 04N R2 mdv 10June20 (Def Plan)													
	30.21	24.36	29.23	5.85	N/A	MAS = 7.43 (m)	0.00	0.00				CtCt<=15m<15.00	Warning Alert
	30.21	24.36	29.23	5.85	N/A	MAS = 7.43 (m)	4.00	4.00					Enter Alert
	28.85	24.36	23.08	4.49	5.82	MAS = 7.43 (m)	790.00	786.81					WRP
	28.93	24.36	23.01	4.56	5.66	MAS = 7.43 (m)	810.00	806.44					MinPts
	31.49	24.36	24.73	7.13	5.28	MAS = 7.43 (m)	926.51	920.24					MINPT-O-EOU
	48.90	24.36	39.35	24.54	5.59	MAS = 7.43 (m)	1310.00	1293.09				CtCt<=15m>15.00	Exit Alert
	339.69	58.26	300.51	281.42	8.87	OSF1.50	6650.00	6484.88					MinPt-O-SF
	479.60	144.66	382.83	334.94	5.00	OSF1.50	11510.00	7420.43	OSF<5.00				MinPt-O-SF
	477.05	282.68	286.27	194.37	2.53	OSF1.50	15429.52	7388.00					Enter Alert
													MinPts
Stugart 05NA R2 mdv 10June20 (Def Plan)													
	45.12	32.81	44.13	12.31	N/A	MAS = 10.00 (m)	0.00	0.00				CtCt<=15m<15.00	Warning Alert
	45.12	32.81	44.13	12.31	19864.68	MAS = 10.00 (m)	4.00	4.00					Enter Alert
	43.27	32.81	37.98	10.46	9.83	MAS = 10.00 (m)	720.00	717.89					WRP
	43.34	32.81	37.92	10.53	9.53	MAS = 10.00 (m)	740.00	737.61					MinPts
	49.03	32.81	42.33	16.22	8.40	MAS = 10.00 (m)	920.00	913.91				CtCt<=15m>15.00	MINPT-O-EOU
	49.43	32.81	42.68	16.62	8.40	MAS = 10.00 (m)	926.51	920.24					Exit Alert
	499.09	55.53	461.74	443.56	13.70	OSF1.50	6490.00	6319.60					MinPt-O-SF
	736.61	221.92	588.33	514.69	4.99	OSF1.50	13810.00	7401.40	OSF<5.00				MinPt-O-SF
	734.35	279.38	547.77	454.97	3.95	OSF1.50	15429.52	7388.00					Enter Alert
													MinPts
Stugart 06N R2 mdv 10June20 (Def Plan)													
	60.22	32.81	59.24	27.41	N/A	MAS = 10.00 (m)	0.00	0.00					Warning Alert
	60.22	32.81	59.24	27.41	26664.65	MAS = 10.00 (m)	4.00	4.00					Surface
	58.45	32.81	53.84	25.64	15.85	MAS = 10.00 (m)	620.00	618.97					WRP
	58.55	32.81	53.74	25.74	15.05	MAS = 10.00 (m)	650.00	648.70					MinPts
	70.25	32.81	63.65	37.45	12.33	MAS = 10.00 (m)	910.00	904.18					MINPT-O-EOU
	738.20	56.49	700.20	681.70	19.92	OSF1.50	6680.00	6514.05					MinPt-O-SF
	886.14	266.87	707.90	619.27	4.99	OSF1.50	14530.00	7395.44	OSF<5.00				MinPt-O-SF
	885.78	299.74	685.62	586.04	4.44	OSF1.50	15429.52	7388.00					Enter Alert
													MinPts
Stugart 6-20 Blind 0' to 7610' - PR (Def Survey)													
	246.08	32.81	244.27	213.27	N/A	MAS = 10.00 (m)	0.00	0.00					Warning Alert
	245.90	32.81	243.93	213.10	1499.08	MAS = 10.00 (m)	4.00	4.00					Surface
	183.46	57.14	144.76	126.32	4.93	OSF1.50	980.00	972.25	OSF<5.00				MinPt-O-SF
	154.31	81.15	99.61	73.16	2.88	OSF1.50	1400.00	1380.59					Enter Alert
	156.67	88.26	97.23	68.41	2.69	OSF1.50	1520.00	1497.26					MinPt-CtCt
	159.70	91.85	97.86	67.85	2.63	OSF1.50	1580.00	1555.59					MINPT-O-EOU
	172.11	100.92	104.23	71.20	2.58	OSF1.50	1730.00	1701.43					MinPt-O-SF
	1432.39	430.97	1144.54	1001.42	5.00	OSF1.50	7410.00	7188.67	OSF>5.00				MinPt-O-ADP
	8387.14	441.07	8092.56	7946.07	28.62	OSF1.50	15429.52	7388.00					Exit Alert
													TD
Meyer 6 GYRO 0' to 8410' - AB (Def Survey)													
	3855.20	32.81	3853.39	3822.40	N/A	MAS = 10.00 (m)	0.00	0.00					Warning Alert
	3855.18	32.81	3853.34	3822.37	163617.62	MAS = 10.00 (m)	4.00	4.00					Surface
	3854.91	32.81	3852.57	3822.10	7240.22	MAS = 10.00 (m)	150.00	150.00					MinPt-O-SF
	3855.03	32.81	3852.44	3822.22	4962.69	MAS = 10.00 (m)	200.00	200.00					MinPts
	3857.33	32.81	3850.69	3824.52	799.81	MAS = 10.00 (m)	940.00	933.36					MINPT-O-EOU
	3857.47	32.81	3850.59	3824.65	761.41	MAS = 10.00 (m)	980.00	972.25					MinPts
	5245.85	54.47	5209.09	5191.35	148.80	OSF1.50	6790.00	6621.00					MINPT-O-EOU
	362.32	114.62	284.40	247.70	4.87	OSF1.50	12310.00	7413.81	OSF<5.00				MinPts
	217.97	156.11	113.36	61.85	2.10	OSF1.50	12590.00	7411.49					Enter Alert
	217.76	155.84	113.33	61.92	2.10	OSF1.50	12600.00	7411.41					MinPts
	339.45	104.18	269.47	235.27	4.94	OSF1.50	12860.00	7409.26	OSF>5.00				MinPts
	2838.24	60.58	2797.32	2777.66	72.15	OSF1.50	15429.52	7388.00					Exit Alert
													TD
Lesser J 21-28D GYRO 0' to 7573' - SI (Def Survey)													
	6700.29	32.81	6698.48	6667.48	N/A	MAS = 10.00 (m)	0.00	0.00					Warning Alert
	6700.25	32.81	6698.40	6667.44	155642.82	MAS = 10.00 (m)	4.00	4.00					Surface
	371.24	116.53	291.20	254.71	4.99	OSF1.50	13040.00	7407.77	OSF<5.00				MinPt-O-SF
	261.63	166.89	149.26	94.74	2.37	OSF1.50	13300.00	7405.62					Enter Alert
	261.69	167.30	149.13	94.39	2.36	OSF1.50	13310.00	7405.54					MinPt-CtCt
	410.68	126.68	325.69	283.99	4.91	OSF1.50	13620.00	7402.97	OSF>5.00				MinPts
	2142.06	66.91	2096.91	2075.14	49.16	OSF1.50	15429.52	7388.00					Exit Alert
													TD
Lesser J 21-27D GYRO 0' to 7585' - PR (Def Survey)													
	6746.07	32.81	6744.26	6713.26	N/A	MAS = 10.00 (m)	0.00	0.00					Warning Alert
	6746.03	32.81	6744.17	6713.22	158776.99	MAS = 10.00 (m)	4.00	4.00					Surface
	6745.73	32.81	6743.77	6712.93	45929.11	MAS = 10.00 (m)	70.00	70.00					MinPt-O-SF
													MinPts

Offset Trajectory	Separation				Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Allow Dev. (ft)			MD (ft)	TVD (ft)	Alert	Minor	Major		
	32.81	6705.64	6683.01	801.93	MAS = 10.00 (m)	1540.00	1516.70					MinPts	
	6716.07	32.81	6705.42	6683.26	759.76	MAS = 10.00 (m)	1610.00	1584.76			OSF<5.00	MINPT-O-EOU	
	418.55	134.06	326.62	284.49	4.88	OSF1.50	14270.00	7397.59				Enter Alert	
	278.61	200.99	143.56	77.61	2.09	OSF1.50	14580.00	7395.03				MinPt-CtCt	
	278.70	201.31	143.53	77.39	2.08	OSF1.50	14590.00	7394.95				MinPts	
	461.09	143.42	364.95	317.68	4.86	OSF1.50	14950.00	7391.97		OSF>5.00		Exit Alert	
	891.42	98.42	825.28	793.01	13.79	OSF1.50	15429.52	7388.00				TD	
Meyer 7 GYRO 0' to 8146' - PR (Def Survey)												Warning Alert	
	3871.51	32.81	3869.70	3838.70	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3871.49	32.81	3869.65	3838.68	167347.84	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3860.19	32.81	3853.64	3827.38	814.29	MAS = 10.00 (m)	980.00	972.25				MinPts	
	3860.33	32.81	3853.54	3827.52	776.49	MAS = 10.00 (m)	1020.00	1011.14			OSF<5.00	MINPT-O-EOU	
	340.58	106.11	268.02	234.47	4.99	OSF1.50	11670.00	7419.10				Enter Alert	
	281.01	133.95	190.62	147.06	3.19	OSF1.50	11860.00	7417.53				MinPt-CtCt	
	281.10	134.48	190.41	146.62	3.17	OSF1.50	11870.00	7417.45				MinPts	
	281.54	134.88	190.65	146.67	3.17	OSF1.50	11880.00	7417.37				MinPt-O-SF	
	381.16	117.59	302.23	263.57	4.91	OSF1.50	12120.00	7415.38		OSF>5.00		Exit Alert	
	3577.95	62.76	3535.58	3515.19	87.72	OSF1.50	15429.52	7388.00				TD	
Lesser 1 Blind 0' to 7846' - AB (Def Survey)												Warning Alert	
	7628.29	32.81	7626.48	7595.48	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	7628.25	32.81	7626.39	7595.44	173176.77	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	7552.81	295.06	7355.56	7257.74	38.60	OSF1.50	5150.00	5026.51			OSF<5.00	MinPt-CtCt	
	1481.42	450.57	1178.81	1030.85	4.98	OSF1.50	13550.00	7403.55				Enter Alert	
	644.09	481.86	322.32	162.23	2.01	OSF1.50	14880.00	7392.55				MinPts	
	644.10	481.88	322.32	162.23	2.01	OSF1.50	14890.00	7392.46				MinPts	
	843.96	464.14	534.00	379.82	2.73	OSF1.50	15429.52	7388.00				TD	
Greeley 21-20 Blind 0' to 7619' - PR (Def Survey)												Warning Alert	
	1656.75	32.81	1654.94	1623.94	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1656.71	32.81	1654.86	1623.90	43138.44	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1355.13	270.08	1174.54	1085.05	7.56	OSF1.50	4660.00	4550.11				MinPt-CtCt	
	1374.39	327.26	1155.69	1047.13	6.32	OSF1.50	5640.00	5502.91			OSF<5.00	MINPT-O-EOU	
	1399.84	357.67	1160.86	1042.17	5.89	OSF1.50	6160.00	6008.48				MinPt-O-ADP	
	1405.67	422.84	1123.24	982.83	5.00	OSF1.50	7290.00	7092.02			OSF<5.00	Enter Alert	
	709.76	447.23	411.07	262.53	2.38	OSF1.50	8690.00	7443.76				MinPts	
	1467.49	443.90	1171.02	1023.59	4.97	OSF1.50	9970.00	7433.17		OSF>5.00		Exit Alert	
	6781.01	440.15	6487.04	6340.86	23.19	OSF1.50	15429.52	7388.00				TD	
Stugart 07N R2 mdv 10June20 (Def Plan)												Pass	
	75.13	32.81	74.14	42.32	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	75.13	32.81	74.14	42.32	33372.46	MAS = 10.00 (m)	4.00	4.00				WRP	
	73.47	32.81	69.39	40.66	23.39	MAS = 10.00 (m)	540.00	539.50				MinPts	
	73.55	32.81	69.27	40.74	22.04	MAS = 10.00 (m)	570.00	569.33				MINPT-O-EOU	
	94.08	32.81	87.42	61.27	16.43	MAS = 10.00 (m)	920.00	913.91				MinPt-O-SF	
	920.54	55.07	883.50	865.48	25.50	OSF1.50	6620.00	6455.72				MinPt-O-SF	
	1112.27	298.63	912.86	813.64	6.69	OSF1.50	15429.52	7388.00				MinPts	
Stugart 08N R2 mdv 10June20 (Def Plan)												Pass	
	90.23	32.81	89.25	57.42	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	90.23	32.81	89.25	57.42	40172.41	MAS = 10.00 (m)	4.00	4.00				WRP	
	88.96	32.81	85.40	56.18	34.16	MAS = 10.00 (m)	460.00	459.81				MinPts	
	89.05	32.81	85.30	56.24	31.86	MAS = 10.00 (m)	490.00	489.72				MINPT-O-EOU	
	121.12	32.81	114.45	88.31	21.19	MAS = 10.00 (m)	926.51	920.24				MinPt-O-SF	
	1134.60	55.14	1097.51	1079.46	31.40	OSF1.50	6700.00	6533.49				MinPt-O-SF	
	1322.03	302.67	1119.93	1019.37	6.57	OSF1.50	15429.52	7388.00				MinPts	
Stugart 14N R2 mdv 10June20 (Def Plan)												Pass	
	99.99	32.81	99.01	67.18	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	99.99	32.81	99.01	67.18	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	99.99	32.81	97.76	67.18	79.58	MAS = 10.00 (m)	250.00	250.00				MinPts	
	100.02	32.81	97.76	67.21	77.60	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	188.16	32.81	183.24	155.36	47.51	MAS = 10.00 (m)	810.00	806.44				MinPt-O-SF	
	223.63	32.81	217.99	190.82	47.77	MAS = 10.00 (m)	920.00	913.91				MinPt-O-SF	
	2388.33	55.28	2351.15	2333.05	65.95	OSF1.50	6927.12	6754.32				MinPt-O-SF	
	2642.84	303.83	2439.96	2339.01	13.09	OSF1.50	15429.52	7388.00				MinPts	
Stugart 13NA R2 mdv 10June20 (Def Plan)												Pass	
	100.94	32.81	99.96	68.14	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	100.94	32.81	99.96	68.14	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	100.94	32.81	98.72	68.14	80.34	MAS = 10.00 (m)	250.00	250.00				MinPts	
	100.97	32.81	98.71	68.16	78.35	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	194.68	32.81	189.40	161.87	45.08	MAS = 10.00 (m)	870.00	865.17				MinPt-O-SF	
	211.69	32.81	206.03	178.88	45.03	MAS = 10.00 (m)	926.51	920.24				MinPt-O-SF	
	2158.76	53.59	2122.70	2105.17	61.52	OSF1.50	6760.00	6591.83				MinPt-O-SF	
	2439.96	301.66	2237.93	2137.71	12.16	OSF1.50	15429.52	7388.00				MinPts	
Stugart 15N R2 mdv 10June20 (Def Plan)												Pass	
	101.09	32.81	100.11	68.28	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	101.09	32.81	100.11	68.28	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	101.09	32.81	98.86	68.28	80.46	MAS = 10.00 (m)	250.00	250.00				MinPts	
	101.12	32.81	98.86	68.31	78.45	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	177.76	32.81	173.19	144.96	49.19	MAS = 10.00 (m)	750.00	747.47				MinPt-O-SF	
	2585.94	55.42	2548.67	2530.52	71.22	OSF1.50	6927.12	6754.32				MinPt-O-SF	
	2862.87	303.96	2659.90	2558.90	14.17	OSF1.50	15429.52	7388.00				MinPts	
Stugart 09C R2 mdv 10June20 (Def Plan)												Pass	
	105.09	32.81	104.11	72.28	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	105.09	32.81	104.11	72.28	46861.37	MAS = 10.00 (m)	4.00	4.00				WRP	
	104.37	32.81	101.35	71.56	50.80	MAS = 10.00 (m)	380.00	379.96				MinPts	
	104.46	32.81	101.26	71.65	46.68	MAS = 10.00 (m)	410.00	409.92				MINPT-O-EOU	
	149.89	32.81	143.28	117.08	26.49	MAS = 10.00 (m)	930.00	923.63				MinPt-O-SF	
	1382.11	56.67	1344.00	1325.44	37.20	OSF1.50	6927.12	6754.32				MinPt-O-SF	
	1533.28	307.75	1327.79	1225.53	7.49	OSF1.50	15420.00	7388.00				MinPt-CtCt	
	1533.29	308.05	1327.60	1225.26	7.49	OSF1.50	15429.52	7388.00				MinPts	

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		
Stugart 16N R2 mdv 10June20 (Def Plan)													Pass
	104.51	32.81	103.52	71.70	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	104.51	32.81	103.52	71.70	N/A	MAS = 10.00 (m)	4.00	4.00					WRP
	104.51	32.81	102.28	71.70	83.21	MAS = 10.00 (m)	250.00	250.00					MinPts
	104.54	32.81	102.28	71.73	81.13	MAS = 10.00 (m)	280.00	260.00					MINPT-O-EOU
	187.64	32.81	182.99	154.89	50.97	MAS = 10.00 (m)	760.00	757.31					MinPt-O-SF
	2759.43	55.60	2722.03	2703.89	75.76	OSF1.50	6927.12	6754.32					MinPt-O-SF
	3078.79	304.48	2875.47	2774.31	15.21	OSF1.50	15420.00	7388.08					MinPt-CtCt
	3078.79	304.65	2875.36	2774.19	15.20	OSF1.50	15429.52	7388.00					MinPts
Stugart 17C R2 mdv 10June20 (Def Plan)													Pass
	109.77	32.81	108.79	76.96	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	109.77	32.81	108.79	76.96	48966.86	MAS = 10.00 (m)	4.00	4.00					WRP
	109.77	32.81	107.60	76.96	91.84	MAS = 10.00 (m)	240.00	240.00					MinPts
	109.77	32.81	107.54	76.96	87.43	MAS = 10.00 (m)	250.00	250.00					MINPT-O-EOU
	198.64	32.81	193.93	165.83	53.01	MAS = 10.00 (m)	770.00	767.15					MinPt-O-SF
	2915.70	55.79	2878.18	2859.91	79.77	OSF1.50	6927.12	6754.32					MinPt-O-SF
	3295.91	305.20	3092.11	2990.71	16.25	OSF1.50	15420.00	7388.08					MinPt-CtCt
	3295.91	305.37	3092.00	2990.54	16.24	OSF1.50	15429.52	7388.00					MinPts
Stugart 18N R2 mdv 10June20 (Def Plan)													Pass
	116.41	32.81	115.42	83.60	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	116.41	32.81	115.42	83.60	51953.77	MAS = 10.00 (m)	4.00	4.00					WRP
	116.41	32.81	114.24	83.60	97.44	MAS = 10.00 (m)	240.00	240.00					MinPts
	116.41	32.81	114.18	83.60	92.77	MAS = 10.00 (m)	250.00	250.00					MINPT-O-EOU
	210.04	32.81	205.26	177.23	55.14	MAS = 10.00 (m)	780.00	776.98					MinPt-O-SF
	3121.82	56.06	3084.12	3065.76	85.00	OSF1.50	6927.12	6754.32					MinPt-O-SF
	3156.40	56.67	3118.29	3099.73	85.00	OSF1.50	7000.00	6825.04					MinPt-O-SF
	3519.69	304.91	3316.09	3214.78	17.37	OSF1.50	15420.00	7388.08					MinPt-CtCt
	3519.69	305.08	3315.97	3214.61	17.36	OSF1.50	15429.52	7388.00					MinPts
Stugart 10N R2 mdv 10June20 (Def Plan)													Pass
	119.99	32.81	119.01	87.19	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	119.99	32.81	119.01	87.19	53569.03	MAS = 10.00 (m)	4.00	4.00					WRP
	119.99	32.81	117.62	87.19	85.80	MAS = 10.00 (m)	280.00	280.00					MinPts
	120.04	32.81	117.46	87.23	74.67	MAS = 10.00 (m)	330.00	329.99					MINPT-O-EOU
	364.30	32.81	352.66	331.49	34.08	MAS = 10.00 (m)	1760.00	1730.60					MinPt-O-SF
	1572.37	55.46	1535.07	1516.92	43.27	OSF1.50	6880.00	6708.50					MinPt-O-SF
	1763.00	306.56	1558.30	1456.44	8.65	OSF1.50	15429.52	7388.00					MinPts
Stugart 19N R2 mdv 10June20 (Def Plan)													Pass
	124.86	32.81	123.88	92.05	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	124.86	32.81	123.87	92.05	55759.69	MAS = 10.00 (m)	4.00	4.00					WRP
	124.86	32.81	122.69	92.05	104.58	MAS = 10.00 (m)	240.00	240.00					MinPts
	124.86	32.81	122.63	92.05	99.56	MAS = 10.00 (m)	250.00	250.00					MINPT-O-EOU
	226.17	32.81	221.27	193.36	57.51	MAS = 10.00 (m)	800.00	796.63					MinPt-O-SF
	3311.92	56.86	3273.69	3255.07	88.89	OSF1.50	7000.00	6825.04					MinPt-O-SF
	3693.42	61.72	3651.95	3631.70	91.20	OSF1.50	8070.00	7448.89					MinPt-O-SF
	3706.38	61.91	3664.78	3644.47	91.23	OSF1.50	8140.00	7448.31					MinPt-O-SF
	3729.31	62.27	3687.47	3667.04	91.28	OSF1.50	8250.00	7447.40					MinPt-O-SF
	3736.14	305.46	3532.16	3430.67	18.40	OSF1.50	15420.00	7388.08					MinPt-CtCt
	3736.14	305.64	3532.05	3430.50	18.39	OSF1.50	15429.52	7388.00					MinPts
Stugart 20N R2 mdv 10June20 (Def Plan)													Pass
	134.44	32.81	133.45	101.63	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	134.44	32.81	133.45	101.63	60070.53	MAS = 10.00 (m)	4.00	4.00					WRP
	134.44	32.81	132.27	101.63	112.67	MAS = 10.00 (m)	240.00	240.00					MinPts
	134.44	32.81	132.21	101.63	107.26	MAS = 10.00 (m)	250.00	250.00					MINPT-O-EOU
	246.88	32.81	241.79	214.07	59.94	MAS = 10.00 (m)	830.00	826.05					MinPt-O-SF
	283.39	32.81	277.71	250.58	60.20	MAS = 10.00 (m)	920.00	913.91					MinPt-O-SF
	3488.44	57.03	3450.09	3431.41	93.34	OSF1.50	7000.00	6825.04					MinPt-O-SF
	3885.33	61.83	3843.79	3823.51	95.76	OSF1.50	8070.00	7448.89					MinPt-O-SF
	3897.60	62.00	3855.93	3835.59	95.79	OSF1.50	8140.00	7448.31					MinPt-O-SF
	3921.44	62.37	3879.53	3859.07	95.79	OSF1.50	8260.00	7447.32					MinPt-O-SF
	3951.23	62.87	3908.99	3888.36	95.78	OSF1.50	8390.00	7446.24					MinPt-O-SF
	3957.72	305.73	3753.57	3651.99	19.48	OSF1.50	15420.00	7388.08					MinPt-CtCt
	3957.72	305.91	3753.46	3651.81	19.46	OSF1.50	15429.52	7388.00					MinPts
Stugart 11N R2 mdv 10June20 (Def Plan)													Pass
	135.10	32.81	134.12	102.29	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	135.10	32.81	134.11	102.29	60369.03	MAS = 10.00 (m)	4.00	4.00					WRP
	135.10	32.81	132.93	102.29	113.23	MAS = 10.00 (m)	240.00	240.00					MinPts
	135.12	32.81	132.85	102.31	104.80	MAS = 10.00 (m)	260.00	260.00					MINPT-O-EOU
	427.87	32.81	416.39	395.06	40.67	MAS = 10.00 (m)	1800.00	1769.49					MinPt-O-SF
	1756.20	54.50	1719.54	1701.70	49.20	OSF1.50	6820.00	6650.16					MinPt-O-SF
	1976.05	306.40	1771.46	1669.65	9.70	OSF1.50	15429.52	7388.00					MinPts
Stugart 21NA R2 mdv 10June20 (Def Plan)													Pass
	144.94	32.81	143.96	112.13	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	144.94	32.81	143.95	112.13	64798.30	MAS = 10.00 (m)	4.00	4.00					WRP
	144.94	32.81	142.77	112.13	121.54	MAS = 10.00 (m)	240.00	240.00					MinPts
	144.94	32.81	142.71	112.13	115.70	MAS = 10.00 (m)	250.00	250.00					MINPT-O-EOU
	272.58	32.81	267.24	239.77	62.40	MAS = 10.00 (m)	870.00	865.17					MinPt-O-SF
	296.21	32.81	290.49	263.40	62.36	MAS = 10.00 (m)	926.51	920.24					MinPt-O-SF
	3678.17	57.13	3639.76	3621.04	98.24	OSF1.50	7000.00	6825.04					MinPt-O-SF
	4092.25	61.87	4050.68	4030.38	100.80	OSF1.50	8070.00	7448.89					MinPt-O-SF
	4105.55	62.05	4063.85	4043.50	100.82	OSF1.50	8150.00	7448.23					MinPt-O-SF
	4130.38	62.44	4088.42	4067.94	100.80	OSF1.50	8280.00	7447.15					MinPt-O-SF
	4183.11	305.92	3978.84	3877.19	20.57	OSF1.50	15420.00	7388.08					MinPt-CtCt
	4183.12	306.10	3978.72	3877.02	20.56	OSF1.50	15429.52	7388.00					MinPts
Stugart 12N R2 mdv 10June20 (Def Plan)													Pass
	150.00	32.81	149.02	117.19	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	150.00	32.81	149.02	117.19	67076.77	MAS = 10.00 (m)	4.00	4.00					WRP
	150.00	32.81	147.83	117.19	125.81	MAS = 10.00 (m)	240.00	240.00					MinPts
	150.02	32.81	147.76	117.21	116.65	MAS = 10.00 (m)	260.00	260.00					MINPT-O-EOU
	480.52	32.81	469.11	447.71	45.99	MAS = 10.00 (m)	1800.00	1769.49					MinPt-O-SF
	1968.60	54.61	1931.87	1914.00	55.04	OSF1.50	6860.00	6689.05					MinPt-O-SF

Offset Trajectory	Separation				Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Allow Dev. (ft)			MD (ft)	TVD (ft)	Alert	Minor	Major		
Stugart 22N R2 mdv 10June20 (Def Plan)	2193.57	304.86	1996.00	1894.71	10.85	OSF1.50	15429.52	7388.00				MinPts	Pass
156.20	32.81	155.21	123.39	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
156.20	32.81	155.21	123.39	69865.43	MAS = 10.00 (m)	4.00	4.00					WRP	
156.20	32.81	154.03	123.39	131.04	MAS = 10.00 (m)	240.00	240.00					MinPts	
156.20	32.81	153.97	123.39	124.75	MAS = 10.00 (m)	250.00	250.00					MINPT-O-EOU	
291.19	32.81	285.72	258.38	64.83	MAS = 10.00 (m)	890.00	884.69					MinPt-O-SF	
306.61	32.81	300.90	273.81	64.61	MAS = 10.00 (m)	926.51	920.24					MinPt-O-SF	
3774.95	57.12	3736.55	3717.84	100.85	OSF1.50	7000.00	6825.04					MinPt-O-SF	
4198.86	61.82	4157.31	4137.03	103.50	OSF1.50	8070.00	7448.89					MinPt-O-SF	
4211.90	62.00	4170.24	4149.90	103.52	OSF1.50	8150.00	7448.23					MinPt-O-SF	
4236.23	62.37	4194.32	4173.86	103.50	OSF1.50	8280.00	7447.15					MinPt-O-SF	
4392.98	306.70	4188.18	4086.27	21.55	OSF1.50	15420.00	7388.08					MinPt-CiCt	
4392.98	306.88	4188.07	4086.10	21.54	OSF1.50	15429.52	7388.00					MinPts	
Stugart 23N R2 mdv 10June20 (Def Plan)													Pass
168.01	32.81	167.02	135.20	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
168.01	32.81	167.02	135.20	75181.29	MAS = 10.00 (m)	4.00	4.00					WRP	
168.01	32.81	165.84	135.20	141.01	MAS = 10.00 (m)	240.00	240.00					MinPts	
168.01	32.81	165.78	135.20	134.24	MAS = 10.00 (m)	250.00	250.00					MINPT-O-EOU	
317.34	32.81	311.63	284.53	66.93	MAS = 10.00 (m)	926.51	920.24					MinPt-O-SF	
3931.32	57.01	3892.98	3874.31	105.22	OSF1.50	7000.00	6825.04					MinPt-O-SF	
4370.91	61.67	4329.47	4309.24	108.01	OSF1.50	8070.00	7448.89					MinPt-O-SF	
4383.42	61.83	4341.87	4321.59	108.04	OSF1.50	8150.00	7448.23					MinPt-O-SF	
4408.72	62.20	4366.93	4346.52	108.00	OSF1.50	8290.00	7447.07					MinPt-O-SF	
4613.76	307.11	4408.69	4306.65	22.60	OSF1.50	15420.00	7388.08					MinPt-CiCt	
4613.77	307.36	4408.58	4306.47	22.59	OSF1.50	15429.52	7388.00					MinPts	
Stugart 24N R2 mdv 10June20 (Def Plan)													Pass
180.34	32.81	179.36	147.53	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
180.34	32.81	179.36	147.53	80733.26	MAS = 10.00 (m)	4.00	4.00					WRP	
180.34	32.81	178.17	147.53	151.42	MAS = 10.00 (m)	240.00	240.00					MinPts	
180.34	32.81	178.11	147.53	144.16	MAS = 10.00 (m)	250.00	250.00					MINPT-O-EOU	
328.41	32.81	322.70	295.60	69.32	MAS = 10.00 (m)	926.51	920.24					MinPt-O-SF	
4046.83	56.83	4008.61	3990.00	108.68	OSF1.50	7000.00	6825.04					MinPt-O-SF	
4498.62	61.45	4457.33	4437.17	111.58	OSF1.50	8070.00	7448.89					MinPt-O-SF	
4510.81	61.60	4469.42	4449.21	111.60	OSF1.50	8150.00	7448.23					MinPt-O-SF	
4830.39	307.57	4625.02	4522.82	23.63	OSF1.50	15420.00	7388.08					MinPt-CiCt	
4830.40	307.75	4624.91	4522.65	23.61	OSF1.50	15429.52	7388.00					MinPts	
Stugart 22-20 MWD 0' to 7736' - PR (Def Survey)													Pass
264.74	32.81	262.93	231.94	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
264.74	32.81	262.93	231.94	N/A	MAS = 10.00 (m)	4.00	4.00					WRP	
203.06	32.81	194.65	170.25	30.51	MAS = 10.00 (m)	1220.00	1205.58					MinPts	
203.09	32.81	194.64	170.29	30.30	MAS = 10.00 (m)	1230.00	1215.31					MINPT-O-EOU	
218.14	32.81	208.67	185.34	28.22	MAS = 10.00 (m)	1440.00	1419.48					MinPt-O-SF	
1103.87	32.81	1087.93	1071.06	76.93	MAS = 10.00 (m)	3680.00	3597.31					MinPt-O-SF	
1205.79	32.81	1188.65	1172.98	77.53	MAS = 10.00 (m)	3900.00	3811.20					MinPt-O-SF	
1240.91	32.81	1223.30	1208.10	77.44	MAS = 10.00 (m)	3980.00	3888.98					MinPt-O-SF	
1318.53	32.81	1300.07	1285.72	78.14	MAS = 10.00 (m)	4160.00	4063.99					MinPt-O-SF	
1587.87	32.81	1566.25	1555.06	79.25	MAS = 10.00 (m)	4750.00	4637.61					MinPt-O-SF	
1832.46	35.57	1808.21	1796.89	80.85	OSF1.50	5300.00	5172.35					MinPt-O-SF	
1921.71	37.16	1896.40	1884.55	80.99	OSF1.50	5500.00	5366.80					MinPt-O-SF	
2032.61	38.86	2006.16	1993.74	81.76	OSF1.50	5740.00	5600.14					MinPt-O-SF	
2138.56	41.80	2110.16	2096.76	79.75	OSF1.50	5980.00	5833.48					MinPt-O-SF	
2385.39	50.43	2351.24	2334.97	73.24	OSF1.50	6927.12	6754.32					MinPt-O-SF	
9131.25	68.59	9084.99	9062.66	204.45	OSF1.50	15429.52	7388.00					TD	
Greeley 27-20 GYRO 0' to 7712' - PR (Def Survey)													Pass
1697.26	32.81	1695.45	1664.45	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
1697.23	32.81	1695.38	1664.42	50266.24	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	
1696.88	32.81	1694.35	1664.07	2366.54	MAS = 10.00 (m)	190.00	190.00					MinPts	
1591.69	32.81	1579.09	1558.89	144.51	MAS = 10.00 (m)	2140.00	2100.05					MinPts	
1591.72	32.81	1579.06	1558.91	143.82	MAS = 10.00 (m)	2160.00	2119.50					MINPT-O-EOU	
380.01	76.98	327.69	303.03	7.64	OSF1.50	9150.00	7439.95					MinPt-CiCt	
380.10	77.24	327.63	302.86	7.61	OSF1.50	9160.00	7439.87					MinPts	
381.93	77.88	329.09	304.05	7.57	OSF1.50	9190.00	7439.62					MinPt-O-SF	
6288.41	63.92	6245.26	6224.49	151.32	OSF1.50	15429.52	7388.00					TD	
Meyer 8 GYRO 0' to 7678' - AB (Def Survey)													Pass
3886.48	32.81	3884.67	3853.67	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
3886.46	32.81	3884.62	3853.65	166284.09	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	
3650.81	41.83	3622.39	3608.99	136.09	OSF1.50	5940.00	5794.59					MinPt-CiCt	
3636.99	47.21	3604.98	3589.78	119.58	OSF1.50	6710.00	6543.22					MinPt-CiCt	
3637.23	47.89	3604.77	3589.34	117.83	OSF1.50	6810.00	6640.44					MINPT-O-EOU	
3637.51	48.23	3604.82	3589.28	116.97	OSF1.50	6860.00	6689.05					MinPt-O-ADP	
498.25	105.86	427.14	392.38	7.15	OSF1.50	10960.00	7424.98					MinPts	
498.36	105.89	427.23	392.47	7.15	OSF1.50	10970.00	7424.90					MinPt-O-SF	
4497.29	52.03	4462.07	4445.26	133.73	OSF1.50	15429.52	7388.00					TD	
Meyer 2 GYRO 0' to 8010' - AB (Def Survey)													Pass
3793.18	32.81	3791.37	3760.37	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
3793.16	32.81	3791.32	3760.35	166730.54	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	
3339.36	34.89	3315.55	3304.47	150.61	OSF1.50	4780.00	4666.78					MinPt-CiCt	
3339.46	35.17	3315.46	3304.29	149.31	OSF1.50	4830.00	4715.39					MINPT-O-EOU	
3339.55	35.29	3315.48	3304.26	148.79	OSF1.50	4850.00	4734.84					MinPt-O-ADP	
846.84	102.30	778.11	744.54	12.59	OSF1.50	10690.00	7427.21					MinPt-CiCt	
846.92	102.42	778.10	744.50	12.58	OSF1.50	10700.00	7427.13					MinPts	
848.40	102.80	779.33	745.59	12.55	OSF1.50	10740.00	7426.80					MinPt-O-SF	
4815.41	57.10	4776.81	4758.31	130.12	OSF1.50	15429.52	7388.00					TD	
Lesser J 21-17 - Plan (Def Plan)													Pass
6899.70	32.81	6897.89	6866.89	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
6899.67	32.81	6897.82	6866.86	197806.90	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	
6899.02	32.81	6895.02	6836.21	839.38	MAS = 10.00 (m)	1290.00	1273.64					MinPt-O-SF	
6878.55	39.80	6851.48	6838.75	262.37	OSF1.50	5350.00	5220.96					MinPt-CiCt	
6878.58	39.												

Offset Trajectory	Separation				Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Allow Dev. (ft)			MD (ft)	TVD (ft)	Alert	Minor	Major		
	885.17	182.02	763.29	703.15	7.35	OSF1.50	14000.00	7389.83				MinPt-CiCt	
	885.22	182.12	763.28	703.10	7.34	OSF1.50	14010.00	7389.74				MinPts	
	885.68	182.26	763.64	703.42	7.34	OSF1.50	14030.00	7389.58				MinPt-O-SF	
	1681.39	111.69	1606.40	1569.70	22.89	OSF1.50	15429.52	7388.00				TD	
Greeley 21-20 MWD 0' to 7619' - PR (Def Survey)													Pass
	1657.59	32.81	1655.78	1624.78	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1657.58	32.81	1655.77	1624.78	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	905.27	32.81	883.46	872.46	44.83	MAS = 10.00 (m)	4790.00	4676.50				MinPts	
	905.28	32.81	883.42	872.47	44.73	MAS = 10.00 (m)	4800.00	4686.23				MINPT-O-EOU	
	994.63	40.16	967.32	954.47	38.63	OSF1.50	5940.00	5794.59				MinPt-O-SF	
	1024.84	41.30	996.77	983.54	38.67	OSF1.50	6120.00	5969.59				MinPt-O-SF	
	1073.06	43.36	1043.62	1029.71	38.49	OSF1.50	6400.00	6241.82				MinPt-O-SF	
	1098.63	44.45	1068.46	1054.18	38.40	OSF1.50	6550.00	6387.66				MinPt-O-SF	
	1120.93	45.45	1090.10	1075.48	38.30	OSF1.50	6680.00	6514.05				MinPt-O-SF	
	1158.65	47.04	1126.75	1111.60	38.20	OSF1.50	6900.00	6727.94				MinPt-O-SF	
	1173.14	47.57	1140.89	1125.57	38.23	OSF1.50	7000.00	6825.04				MinPt-O-SF	
	1054.48	53.74	1018.12	1000.74	30.29	OSF1.50	8090.00	7448.72				MinPts	
	1063.03	54.61	1026.09	1008.43	30.04	OSF1.50	8220.00	7447.65				MinPt-O-SF	
	7419.20	48.78	7386.14	7370.42	235.86	OSF1.50	15429.52	7388.00				TD	
Greeley 17-20 MWD 0' to 7675' - PR (Def Survey)													Pass
	1677.05	32.81	1675.24	1644.25	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1677.05	32.81	1675.24	1644.24	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	1566.54	32.81	1555.50	1533.73	169.89	MAS = 10.00 (m)	1670.00	1643.10				MinPts	
	1566.67	32.81	1555.42	1533.87	166.03	MAS = 10.00 (m)	1700.00	1672.26				MINPT-O-EOU	
	1573.94	32.81	1561.67	1541.19	147.59	MAS = 10.00 (m)	1940.00	1905.60				MinPt-O-SF	
	929.98	76.15	878.67	853.82	18.68	OSF1.50	9380.00	7438.05				MinPt-CiCt	
	930.01	76.31	878.60	853.70	18.64	OSF1.50	9390.00	7437.97				MINPT-O-EOU	
	930.15	76.45	878.64	853.69	18.61	OSF1.50	9400.00	7437.89				MinPt-O-SF	
	936.19	77.54	883.96	858.65	18.46	OSF1.50	9490.00	7437.14				MinPt-O-ADP	
	6112.01	53.20	6076.01	6058.82	177.66	OSF1.50	15429.52	7388.00				TD	
SW Greeley 18-20 MWD 0' to 7700' - PR (Def Survey)													Pass
	1759.09	32.81	1757.21	1726.28	24519.23	MAS = 10.00 (m)	0.00	0.00				Surface	
	1759.09	32.81	1757.20	1726.28	21814.40	MAS = 10.00 (m)	4.00	4.00				WRP	
	1422.78	32.81	1409.77	1389.97	125.86	MAS = 10.00 (m)	2770.00	2712.57				MinPt-O-SF	
	1213.56	32.81	1197.85	1180.75	87.26	MAS = 10.00 (m)	3740.00	3655.65				MinPt-O-SF	
	973.27	35.86	948.82	937.41	42.56	OSF1.50	5500.00	5366.80				MinPt-CiCt	
	973.32	36.02	948.77	937.30	42.35	OSF1.50	5520.00	5386.24				MINPT-O-EOU	
	973.40	36.11	948.79	937.29	42.25	OSF1.50	5530.00	5395.97				MinPt-O-EOU	
	1101.43	48.30	1068.70	1053.13	35.33	OSF1.50	6927.12	6754.32				MinPt-O-ADP	
	8925.28	49.16	8891.97	8876.12	281.47	OSF1.50	15429.52	7388.00				TD	
Lesser J 21-18D MWD 0' to 7595' - SI (Def Survey)													Pass
	6723.09	32.81	6721.28	6690.28	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6723.06	32.81	6721.21	6690.25	180979.29	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6722.83	32.81	6720.90	6690.03	54022.87	MAS = 10.00 (m)	60.00	60.00				MinPts	
	6019.80	41.72	5991.32	5978.08	227.29	OSF1.50	5650.00	5512.64				MinPt-CiCt	
	6019.85	41.86	5991.27	5977.98	226.46	OSF1.50	5680.00	5541.80				MINPT-O-EOU	
	6019.93	41.96	5991.29	5977.97	225.91	OSF1.50	5700.00	5561.25				MinPt-O-ADP	
	6020.50	42.43	5991.55	5978.07	223.26	OSF1.50	5800.00	5658.47				MinPt-O-ADP	
	1051.71	166.02	940.50	885.69	9.58	OSF1.50	13330.00	7405.37				MinPt-CiCt	
	1051.76	166.16	940.46	885.61	9.57	OSF1.50	13340.00	7405.29				MinPts	
	1052.90	166.53	941.34	886.37	9.56	OSF1.50	13380.00	7404.96				MinPt-O-SF	
	2347.87	98.36	2281.76	2249.51	36.38	OSF1.50	15429.52	7388.00				TD	
Meyer 5 GYRO 0' to 7665' - AB (Def Survey)													Pass
	3839.70	32.81	3837.89	3806.89	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3839.68	32.81	3837.84	3806.87	162303.97	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3839.63	32.81	3837.75	3806.82	64541.38	MAS = 10.00 (m)	30.00	30.00				MinPts	
	3801.85	32.81	3792.34	3769.05	493.54	MAS = 10.00 (m)	1410.00	1390.31				MinPts	
	3802.03	32.81	3792.19	3769.22	473.10	MAS = 10.00 (m)	1460.00	1438.92				MINPT-O-EOU	
	4697.67	50.74	4663.31	4646.94	143.37	OSF1.50	6380.00	6222.38				MinPts	
	1060.02	135.37	969.24	924.65	11.87	OSF1.50	11990.00	7416.46				MinPt-CiCt	
	1060.07	135.50	969.20	924.56	11.86	OSF1.50	12000.00	7416.37				MinPts	
	1062.33	136.13	971.04	926.20	11.83	OSF1.50	12060.00	7415.88				MinPt-O-SF	
	3599.15	78.59	3546.22	3520.56	70.09	OSF1.50	15429.52	7388.00				TD	
Barnett 5-20 Blind 0' to 7622' - PR (Def Survey)													Pass
	1323.03	32.81	1320.51	1290.22	1884.35	MAS = 10.00 (m)	0.00	0.00				Surface	
	1323.03	32.81	1320.43	1290.22	1691.87	MAS = 10.00 (m)	4.00	4.00				WRP	
	1323.03	32.81	1311.78	1290.22	140.08	MAS = 10.00 (m)	250.00	250.00				MinPts	
	1335.12	58.81	1295.31	1276.31	35.09	OSF1.50	970.00	962.52				MINPT-O-EOU	
	1360.23	88.81	1300.42	1271.42	23.42	OSF1.50	1480.00	1458.37				MinPt-O-ADP	
	2117.38	414.65	1840.41	1702.73	7.64	OSF1.50	7060.00	6882.74				MinPt-O-SF	
	9589.47	444.06	9292.89	9145.41	32.50	OSF1.50	15429.52	7388.00				TD	
Hurst 7-20 MWD 0' to 7650' - PR (Def Survey)													Pass
	1617.79	32.81	1615.98	1584.98	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1617.75	32.81	1615.90	1584.94	42310.95	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1324.12	32.81	1309.37	1291.31	100.61	MAS = 10.00 (m)	2980.00	2916.74				MinPts	
	1324.12	32.81	1309.34	1291.31	100.37	MAS = 10.00 (m)	2990.00	2926.46				MINPT-O-EOU	
	1325.51	32.81	1310.13	1292.70	96.12	MAS = 10.00 (m)	3130.00	3062.58				MINPT-O-EOU	
	1943.93	48.52	1911.05	1895.41	62.10	OSF1.50	6950.00	6776.55				MinPt-O-SF	
	1950.49	48.68	1917.50	1901.81	62.10	OSF1.50	7000.00	6825.04				MinPt-O-SF	
	1639.41	60.20	1598.74	1579.20	41.92	OSF1.50	8610.00	7444.42				MinPt-CiCt	
	1639.43	60.33	1598.68	1579.10	41.84	OSF1.50	8620.00	7444.34				MINPT-O-EOU	
	1639.51	60.45	1598.68	1579.06	41.75	OSF1.50	8630.00	7444.26				MinPt-O-ADP	
	1682.60	64.27	1639.22	1618.33	40.24	OSF1.50	8990.00	7441.28				MinPt-O-SF	
	1687.22	64.44	1643.72	1622.77	40.24	OSF1.50	9010.00	7441.11				MinPt-O-SF	
	7012.20	62.45	6970.03	6949.75	172.83	OSF1.50	15429.52	7388.00				TD	
SW Greeley 31-20 MWD 0' to 7695' - PR (Def Survey)													Pass
	1349.92	32.81	1348.02	1317.11	16674.91	MAS = 10.00 (m)	0.00	0.00				Surface	
	1349.92	32.81	1348.01	1317.11	15012.42	MAS = 10.00 (m)	4.00	4.00				WRP	
	1349.68	32.81	1346.26	1316.87	838.05	MAS = 10.00 (m)	310.00	310.00				MinPts	
	1350.38	32.81	1345.44	1317.57	431.22	MAS = 10.00 (m)	550.00	549.45				MINPT-O-EOU	
	1431.57	32.81	1419.79	1398.76	140.49	MAS = 10.00 (m)	1900.00	1866.71				MinPt-O-SF	

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		
	2142.67	48.74	2109.64	2093.93	8.13	OSF1.50	7000.00	6825.04				MinPt-O-SF	
	10057.96	49.87	10024.17	10008.09	312.52	OSF1.50	15429.52	7388.00				TD	
Barnett 1-20 GYRO 0' to 7625' - PR (Def Survey)													Pass
	1794.63	32.81	1792.73	1761.82	2086.44	MAS = 10.00 (m)	0.00	0.00				Surface	
	1794.64	32.81	1792.73	1761.83	18482.52	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	WRP
	1794.75	32.81	1792.69	1761.94	7411.78	MAS = 10.00 (m)	50.00	50.00				MINPT-O-EOU	
	1435.46	35.33	1411.37	1400.13	63.78	OSF1.50	5540.00	5405.69				MinPt-CiCt	
	1435.53	35.52	1411.31	1400.01	63.42	OSF1.50	5590.00	5454.30				MINPT-O-EOU	
	1435.60	35.61	1411.32	1399.98	63.25	OSF1.50	5610.00	5473.75				MinPt-O-ADP	
	1497.24	45.24	1466.55	1452.00	51.41	OSF1.50	7000.00	6825.04				MinPt-O-SF	
	9553.01	46.04	9521.79	9506.97	322.40	OSF1.50	15429.52	7388.00				TD	
Hurst 8-20 MWD 0' to 7840' - PR (Def Survey)													Pass
	1637.86	32.81	1636.05	1605.05	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1637.82	32.81	1635.98	1605.02	44783.03	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1606.58	32.81	1597.81	1573.77	230.96	MAS = 10.00 (m)	1190.00	1176.42				MinPts	
	1606.65	32.81	1597.78	1573.84	226.49	MAS = 10.00 (m)	1210.00	1195.86				MINPT-O-EOU	
	1706.65	32.81	1692.33	1673.84	134.12	MAS = 10.00 (m)	2060.00	2022.27				MinPt-O-SF	
	2118.15	32.81	2098.46	2085.35	117.00	MAS = 10.00 (m)	3530.00	3451.47				MinPt-O-SF	
	2295.27	32.81	2273.28	2262.47	112.47	MAS = 10.00 (m)	3980.00	3888.98				MinPt-O-SF	
	2410.86	35.75	2386.49	2375.11	106.82	OSF1.50	4330.00	4229.27				MinPt-O-SF	
	2479.66	37.29	2454.26	2442.36	104.15	OSF1.50	4540.00	4433.44				MinPt-O-SF	
	2524.33	37.87	2498.55	2486.46	104.38	OSF1.50	4680.00	4569.56				MinPt-O-SF	
	2637.61	41.75	2609.24	2595.85	98.48	OSF1.50	5050.00	4929.29				MinPt-O-SF	
	2843.78	41.88	2815.32	2801.90	98.40	OSF1.50	5110.00	4987.62				MinPt-O-SF	
	1476.95	91.19	1415.62	1385.76	24.70	OSF1.50	9830.00	7434.33				MinPt-CiCt	
	1477.12	91.60	1415.52	1385.52	24.59	OSF1.50	9850.00	7434.16				MINPT-O-EOU	
	1477.30	91.80	1415.57	1385.50	24.54	OSF1.50	9860.00	7434.08				MinPt-O-ADP	
	1503.57	95.79	1439.17	1407.77	23.92	OSF1.50	10110.00	7432.01				MinPt-O-SF	
	5787.68	73.85	5737.91	5713.83	120.13	OSF1.50	15429.52	7388.00				TD	
Lesser J 21-8 - Plan (Def Plan)													Pass
	6921.93	32.81	6920.12	6889.12	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6921.90	32.81	6920.05	6889.09	199083.66	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6872.21	32.81	6858.80	6839.40	582.35	MAS = 10.00 (m)	1900.00	1866.71				MinPt-O-SF	
	6871.28	32.81	6857.97	6838.48	587.01	MAS = 10.00 (m)	2040.00	2002.83				MINPT-O-EOU	
	6871.28	32.81	6857.97	6838.47	587.25	MAS = 10.00 (m)	2050.00	2012.55				MinPts	
	7502.89	55.91	7465.08	7446.98	207.21	OSF1.50	6180.00	6027.93				MinPts	
	1618.91	203.19	1482.91	1415.72	12.03	OSF1.50	14730.00	7393.79				MinPt-CiCt	
	1619.07	203.56	1482.83	1415.51	12.01	OSF1.50	14750.00	7393.62				MINPT-O-EOU	
	1619.24	203.74	1482.88	1415.50	12.00	OSF1.50	14760.00	7393.54				MinPt-O-ADP	
	1624.35	205.09	1487.09	1419.26	11.98	OSF1.50	14860.00	7392.71				MinPt-O-SF	
	1764.70	200.39	1630.58	1564.32	13.30	OSF1.50	15429.52	7388.00				TD	
Lesser 7-21 Blind 0' to 7508' - AB (Def Survey)													Pass
	6558.48	32.81	6556.66	6525.67	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6558.42	32.81	6556.54	6525.61	97651.98	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6557.41	43.65	6527.70	6513.75	235.02	OSF1.50	850.00	845.62				MinPt-CiCt	
	6550.07	318.83	6436.98	6331.23	31.44	OSF1.50	5580.00	5444.58				MINPT-O-EOU	
	1841.82	470.75	1327.45	1171.07	5.24	OSF1.50	13880.00	7400.82				MinPt-CiCt	
	1841.84	470.81	1327.43	1171.03	5.24	OSF1.50	13890.00	7400.74				MinPts	
	1642.08	470.93	1327.59	1171.15	5.24	OSF1.50	13910.00	7400.57				MinPt-O-SF	
	2256.99	460.09	1949.73	1796.91	7.38	OSF1.50	15429.52	7388.00				TD	
Meyer 1 Blind 0' to 7482' - AB (Def Survey)													Pass
	5240.66	32.81	5238.85	5207.85	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5240.60	32.81	5238.72	5207.78	77533.97	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	5239.86	38.28	5213.74	5201.58	215.48	OSF1.50	740.00	737.61				MinPt-CiCt	
	5313.45	258.77	5140.40	5054.68	30.98	OSF1.50	4530.00	4423.72				MINPT-O-EOU	
	5411.35	376.04	5160.13	5035.32	21.67	OSF1.50	6540.00	6377.94				MinPt-O-ADP	
	1652.07	460.88	1344.29	1191.19	5.39	OSF1.50	12560.00	7411.74				MinPt-CiCt	
	1652.08	460.93	1344.26	1191.16	5.39	OSF1.50	12570.00	7411.66				MinPts	
	1652.29	461.03	1344.40	1191.26	5.39	OSF1.50	12590.00	7411.49				MinPt-O-SF	
	3308.38	447.02	3009.83	2861.36	11.14	OSF1.50	15429.52	7388.00				TD	
Hayes 1 Blind 0' to 9502' - AB (Def Survey)													Pass
	2611.91	32.81	2610.09	2579.10	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	2611.81	32.81	2609.90	2579.01	25889.87	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	2611.17	32.81	2603.77	2578.38	467.07	MAS = 10.00 (m)	250.00	250.00				MinPts	
	2626.40	101.19	2558.33	2525.21	39.62	OSF1.50	1790.00	1759.76				MINPT-O-EOU	
	2647.45	139.11	2554.18	2508.34	28.86	OSF1.50	2450.00	2401.45				MINPT-O-EOU	
	2695.95	197.18	2563.96	2498.78	20.66	OSF1.50	3450.00	3373.69				MinPt-O-ADP	
	1673.46	447.72	1374.45	1225.74	5.62	OSF1.50	9930.00	7433.50				MinPt-CiCt	
	1673.47	447.74	1374.44	1225.72	5.62	OSF1.50	9940.00	7433.42				MinPts	
	1673.53	447.77	1374.49	1225.77	5.62	OSF1.50	9950.00	7433.33				MinPt-O-SF	
	5744.46	440.41	5450.32	5304.06	19.63	OSF1.50	15429.52	7388.00				TD	
HSR-Wiedeman 10-20 GYRO 0' to 7535' - AB (Def Survey)													Pass
	1733.66	32.81	1731.85	1700.85	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1733.56	32.81	1731.64	1700.75	16532.52	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1732.47	32.81	1729.55	1699.65	1565.55	MAS = 10.00 (m)	260.00	260.00				MinPts	
	1732.51	32.81	1729.51	1699.71	1449.08	MAS = 10.00 (m)	280.00	280.00				MINPT-O-EOU	
	1978.97	32.81	1968.00	1946.17	211.14	MAS = 10.00 (m)	1900.00	1866.71				MinPt-O-SF	
	2942.85	56.16	2904.87	2886.68	80.86	OSF1.50	8420.00	7445.99				MinPt-CiCt	
	2942.95	56.41	2904.80	2886.53	80.50	OSF1.50	8440.00	7445.83				MINPT-O-EOU	
	2943.05	56.54	2904.82	2886.51	80.32	OSF1.50	8450.00	7445.74				MinPt-O-ADP	
	3239.61	71.76	3191.24	3167.85	69.23	OSF1.50	9770.00	7434.82				MinPt-O-SF	
	7605.48	83.31	7549.41	7522.17	139.60	OSF1.50	15429.52	7388.00				TD	
Wiedeman 25-20 GYRO 0' to 7638' - AB (Def Survey)													Pass
	1844.68	32.81	1842.86	1811.87	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1844.59	32.81	1842.68	1811.78	19704.41	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1757.81	32.81	1743.81	1725.00	144.31	MAS = 10.00 (m)	1790.00	1759.76				MINPT-O-EOU	
	1757.57	32.81	1743.56	1724.76	141.69	MAS = 10.00 (m)	1850.00	1818.10				MinPts	
	1757.59	32.81	1743.52	1724.78	140.95	MAS = 10.00 (m)	1870.00	1837.54				MINPT-O-EOU	
	1757.93	32.81	1743.35	1725.12	135.48	MAS = 10.00 (m)	2060.00	2022.27				MinPts	
	1757.95	32.81	1743.33	1725.14	134.99	MAS = 10.00 (m)	2080.00	2041.72				MINPT-O-EOU	

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		
	1759.85	32.81	1744.39	1727.04	126.95	MAS = 10.00 (m)	2330.00	2284.78				MINPT-O-EOU	
	1746.20	32.81	1728.61	1713.38	109.22	MAS = 10.00 (m)	2830.00	2770.90				MinPts	
	1746.23	32.81	1728.58	1713.42	108.78	MAS = 10.00 (m)	2850.00	2790.35				MINPT-O-EOU	
	1779.48	33.97	1756.30	1745.51	82.40	OSF1.50	3890.00	3801.48				MinPt-CiCt	
	1779.52	34.10	1756.25	1745.42	82.07	OSF1.50	3910.00	3820.93				MINPT-O-EOU	
	1779.57	34.16	1756.26	1745.40	81.91	OSF1.50	3920.00	3830.65				MinPt-O-ADP	
	2066.80	46.24	2035.43	2020.55	69.40	OSF1.50	5800.00	5658.47				MinPt-O-SF	
	2318.12	52.50	2282.58	2265.62	68.28	OSF1.50	6927.12	6754.32				MinPt-O-SF	
	2367.98	53.54	2331.75	2314.44	68.35	OSF1.50	7250.00	7057.54				MinPt-O-SF	
	2382.01	55.88	2344.22	2326.13	65.79	OSF1.50	7860.00	7424.55				MinPt-CiCt	
	2382.18	56.42	2344.04	2325.76	65.14	OSF1.50	7940.00	7440.76				MINPT-O-EOU	
	2382.30	56.56	2344.06	2325.74	64.98	OSF1.50	7960.00	7443.48				MinPt-O-ADP	
	2526.63	63.98	2483.44	2462.64	60.72	OSF1.50	8860.00	7442.35				MinPt-O-SF	
	7782.73	75.64	7731.77	7707.09	157.64	OSF1.50	15429.52	7388.00				TD	
Wiedeman 24-20 GYRO 0' to 7660' - AB (Def Survey)													Pass
	1757.63	32.81	1755.82	1724.82	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1757.54	32.81	1755.63	1724.73	17428.98	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1757.31	32.81	1751.87	1722.50	1079.45	MAS = 10.00 (m)	300.00	300.00				MinPts	
	1755.38	32.81	1751.81	1722.57	999.87	MAS = 10.00 (m)	320.00	319.99				MINPT-O-EOU	
	2344.98	72.49	2296.10	2272.47	49.59	OSF1.50	9080.00	7440.53				MinPt-CiCt	
	2345.05	72.74	2296.03	2272.32	49.42	OSF1.50	9100.00	7440.37				MINPT-O-EOU	
	2345.16	72.86	2296.05	2272.30	49.33	OSF1.50	9110.00	7440.28				MINPT-O-ADP	
	2430.96	79.34	2377.53	2351.62	46.88	OSF1.50	9720.00	7435.24				MinPt-O-SF	
	6766.63	78.19	6713.97	6688.44	132.51	OSF1.50	15429.52	7388.00				TD	
Lesser J 21-7X GYRO 0' to 7725' - AB (Def Survey)													Pass
	6880.22	32.81	6878.41	6847.41	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6880.18	32.81	6878.32	6847.37	155891.16	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6879.85	32.81	6877.85	6847.04	46907.98	MAS = 10.00 (m)	70.00	70.00				MinPts	
	6879.99	32.81	6877.82	6847.18	19330.02	MAS = 10.00 (m)	130.00	130.00				MINPT-O-EOU	
	6730.59	36.65	6705.62	6693.94	288.01	OSF1.50	3560.00	3480.64				MinPt-CiCt	
	6730.97	37.45	6705.47	6693.52	281.57	OSF1.50	3660.00	3577.87				MINPT-O-EOU	
	6731.32	37.90	6705.52	6693.42	278.13	OSF1.50	3710.00	3626.48				MinPt-O-ADP	
	6768.86	49.52	6735.31	6719.33	211.84	OSF1.50	4780.00	4666.78				MinPts	
	6815.87	56.73	6777.52	6759.14	185.42	OSF1.50	5390.00	5259.85				MinPts	
	1792.23	185.90	1667.76	1606.33	14.57	OSF1.50	14040.00	7399.50				MinPt-CiCt	
	1792.42	186.44	1667.59	1605.97	14.53	OSF1.50	14070.00	7399.25				MinPts	
	1800.84	188.47	1674.66	1612.37	14.44	OSF1.50	14220.00	7398.01				MinPt-O-SF	
	2265.01	172.74	2149.31	2092.27	19.84	OSF1.50	15429.52	7388.00				TD	
Meyer 3 GYRO 0' to 7745' - AB (Def Survey)													Pass
	3809.06	32.81	3807.24	3776.25	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3809.03	32.81	3807.20	3776.23	168129.58	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3808.69	32.81	3806.32	3775.88	6801.39	MAS = 10.00 (m)	160.00	160.00				MinPts	
	3808.81	32.81	3806.17	3776.00	4612.91	MAS = 10.00 (m)	220.00	220.00				MINPT-O-EOU	
	3723.37	32.81	3707.84	3690.58	267.31	MAS = 10.00 (m)	2340.00	2294.50				MinPts	
	3723.42	32.81	3707.79	3690.61	265.39	MAS = 10.00 (m)	2370.00	2323.67				MINPT-O-EOU	
	1799.45	117.49	1720.59	1681.96	23.27	OSF1.50	11260.00	7422.50				MinPt-CiCt	
	1799.57	117.84	1720.48	1681.73	23.20	OSF1.50	11280.00	7422.33				MINPT-O-EOU	
	1799.72	118.01	1720.51	1681.71	23.17	OSF1.50	11290.00	7422.25				MinPt-O-ADP	
	1821.23	121.43	1739.75	1699.81	22.78	OSF1.50	11540.00	7420.18				MinPt-O-SF	
	4539.71	98.68	4473.39	4441.03	70.12	OSF1.50	15429.52	7388.00				TD	
Wiedeman 40-20 GYRO 0' to 7935' - AB (Def Survey)													Pass
	1864.68	32.81	1862.86	1831.87	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1864.59	32.81	1862.68	1831.78	19127.45	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1861.78	32.81	1858.50	1828.98	1264.44	MAS = 10.00 (m)	290.00	290.00				MinPts	
	1861.86	32.81	1858.47	1829.05	1182.85	MAS = 10.00 (m)	310.00	310.00				MINPT-O-EOU	
	2418.14	116.25	2340.11	2301.89	31.62	OSF1.50	10580.00	7428.12				MinPt-CiCt	
	2418.22	116.49	2340.03	2301.73	31.55	OSF1.50	10600.00	7427.96				MINPT-O-EOU	
	2418.32	116.61	2340.05	2301.71	31.52	OSF1.50	10610.00	7427.87				MinPt-O-ADP	
	2446.17	119.91	2365.70	2326.26	30.99	OSF1.50	10950.00	7425.06				MinPt-O-SF	
	5417.42	103.92	5347.60	5313.49	79.40	OSF1.50	15429.52	7388.00				TD	
Meyer 4 GYRO 0' to 8410' - PR (Def Survey)													Pass
	3822.33	32.81	3820.51	3789.52	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3822.30	32.81	3820.47	3789.49	164036.91	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3808.17	32.81	3800.89	3775.38	695.78	MAS = 10.00 (m)	1000.00	991.69				MinPts	
	3808.28	32.81	3800.74	3775.47	664.50	MAS = 10.00 (m)	1040.00	1030.58				MINPT-O-EOU	
	4861.76	48.26	4829.05	4813.49	156.24	OSF1.50	5690.00	5551.53				MinPt-O-SF	
	5094.97	63.49	5052.11	5031.48	123.44	OSF1.50	6250.00	6095.98				MinPts	
	5162.00	66.42	5117.19	5095.58	119.43	OSF1.50	7000.00	6825.04				MinPt-O-SF	
	2272.12	142.35	2176.69	2129.77	24.20	OSF1.50	12040.00	7416.04				MinPt-CiCt	
	2272.42	143.26	2176.39	2129.18	24.05	OSF1.50	12080.00	7415.71				MINPT-O-EOU	
	2272.61	143.47	2176.43	2129.14	24.01	OSF1.50	12090.00	7415.63				MinPt-O-ADP	
	2315.70	150.39	2214.90	2165.31	23.33	OSF1.50	12490.00	7412.32				MinPt-O-SF	
	4078.08	136.22	3986.74	3941.87	45.42	OSF1.50	15429.52	7388.00				TD	
Lundvall 12-20 MWD 0' to 7703' - PR (Def Survey)													Pass
	2459.28	32.81	2457.47	2426.48	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	2459.27	32.81	2457.44	2426.46	154439.57	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	2458.82	32.81	2455.70	2426.01	1883.78	MAS = 10.00 (m)	260.00	260.00				MinPts	
	2458.87	32.81	2455.63	2426.07	1715.33	MAS = 10.00 (m)	280.00	280.00				MINPT-O-EOU	
	2746.44	32.81	2735.33	2713.63	288.87	MAS = 10.00 (m)	1900.00	1866.71				MinPt-O-SF	
	2904.51	32.81	2889.87	2871.70	222.81	MAS = 10.00 (m)	2930.00	2868.13				MINPT-O-EOU	
	2881.21	32.81	2861.57	2848.40	159.72	MAS = 10.00 (m)	3690.00	3607.03				MinPts	
	2881.25	32.81	2861.55	2848.44	159.12	MAS = 10.00 (m)	3710.00	3626.48				MINPT-O-EOU	
	2886.08	32.81	2865.20	2853.27	149.67	MAS = 10.00 (m)	3930.00	3840.37				MINPT-O-EOU	
	2880.93	34.71	2857.26	2846.22	130.48	OSF1.50	4330.00	4229.27				MinPt-CiCt	
	2881.05	35.06	2857.18	2846.00	129.14	OSF1.50	4370.00	4268.16				MINPT-O-EOU	
	2881.20	35.22	2857.15	2845.98	128.49	OSF1.50	4390.00	4287.61				MinPt-O-ADP	
	2887.25	38.07	2861.34	2849.18	118.71	OSF1.50	4640.00	4530.67				MinPts	
	2896.18	42.46	2867.34	2853.73	106.28	OSF1.50	5040.00	4919.57				MINPT-O-EOU	
	2896.65	43.01	2867.44	2853.64	104.88	OSF1.50	5090.00	4968.18				MinPt-O-ADP	
	3096.85												

Offset Trajectory	Separation					Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Dev. (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	2477.81	32.81	2475.99	2445.01	153921.69		MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	
	2477.66	32.81	2474.62	2444.85	2025.62		MAS = 10.00 (m)	250.00	250.00					MinPts	
	2477.70	32.81	2474.53	2444.89	1835.35		MAS = 10.00 (m)	270.00	270.00					MINPT-O-EOU	
	2566.95	32.81	2559.09	2534.14	423.76		MAS = 10.00 (m)	1010.00	1001.41					MinPt-O-SF	
	2745.91	32.81	2734.12	2713.10	269.32		MAS = 10.00 (m)	2020.00	1983.38					MinPt-O-SF	
	2769.09	32.81	2757.21	2736.29	269.17		MAS = 10.00 (m)	2140.00	2100.05					MinPt-O-SF	
	2617.81	44.52	2587.59	2573.29	91.44		OSF1.50	5220.00	5094.57					MinPt-CtCt	
	2617.89	44.76	2587.52	2573.13	90.95		OSF1.50	5250.00	5123.74					MINPT-O-EOU	
	2617.95	44.83	2587.53	2573.12	90.78		OSF1.50	5260.00	5133.46					MinPt-O-ADP	
	2633.60	47.91	2601.12	2585.68	85.25		OSF1.50	5620.00	5483.47					MinPt-O-ADP	
	2836.82	56.58	2798.57	2780.25	77.36		OSF1.50	7000.00	6825.04					MinPt-O-SF	
	8672.74	81.10	8618.14	8591.64	163.62		OSF1.50	15429.52	7388.00					TD	
Wiedeman R J 20-13 GYRO 0' to 7980' - PA (Def Survey)															
	2488.44	32.81	2486.63	2455.63	N/A		MAS = 10.00 (m)	0.00	0.00					Pass	
	2488.42	32.81	2486.59	2455.61	123911.96		MAS = 10.00 (m)	4.00	4.00					Surface	
	2488.03	32.81	2485.18	2455.22	2414.23		MAS = 10.00 (m)	260.00	260.00					MinPt-O-SF	
	2488.08	32.81	2485.13	2455.27	2191.98		MAS = 10.00 (m)	280.00	280.00					MinPts	
	4079.20	383.47	3823.02	3695.73	16.02		OSF1.50	7580.00	7304.12					MINPT-O-EOU	
	9918.86	396.01	9654.32	9522.85	37.72		OSF1.50	15429.52	7388.00					MinPt-O-SF	
														TD	
Wiedeman 20-20 GYRO 0' to 7542' - AB (Def Survey)															
	2511.42	32.81	2509.60	2478.61	N/A		MAS = 10.00 (m)	0.00	0.00					Pass	
	2511.33	32.81	2509.42	2478.52	25708.36		MAS = 10.00 (m)	4.00	4.00					Surface	
	2492.55	32.81	2485.70	2459.74	503.88		MAS = 10.00 (m)	680.00	678.39					MinPt-O-SF	
	2492.57	32.81	2485.78	2459.77	499.98		MAS = 10.00 (m)	690.00	688.27					MinPts	
	3632.65	44.60	3602.38	3588.05	126.67		OSF1.50	7000.00	6825.04					MINPT-O-EOU	
	3441.51	62.49	3399.32	3379.02	84.75		OSF1.50	8870.00	7442.27					MinPt-O-SF	
	3441.75	63.12	3399.14	3378.64	83.89		OSF1.50	8910.00	7441.94					MinPt-CtCt	
	3441.89	63.28	3399.17	3378.61	83.67		OSF1.50	8920.00	7441.86					MINPT-O-EOU	
	3847.57	86.22	3789.55	3761.35	68.16		OSF1.50	10590.00	7428.04					MinPt-O-ADP	
	3856.55	86.41	3798.41	3770.14	68.16		OSF1.50	10610.00	7427.87					MinPt-O-SF	
	7406.88	99.77	7339.83	7307.11	113.15		OSF1.50	15429.52	7388.00					TD	
Wiedeman-PM J21-10 GYRO 0' to 7495' - AB (Def Survey)															
	6739.75	32.81	6737.94	6706.94	N/A		MAS = 10.00 (m)	0.00	0.00					Pass	
	6739.68	32.81	6737.79	6706.87	86234.01		MAS = 10.00 (m)	4.00	4.00					Surface	
	6739.68	32.81	6736.57	6705.87	22297.17		MAS = 10.00 (m)	120.00	120.00					MinPt-O-SF	
	6739.98	32.81	6736.01	6706.17	5830.22		MAS = 10.00 (m)	290.00	290.00					MinPts	
	6807.76	32.81	6795.74	6774.95	653.26		MAS = 10.00 (m)	2090.00	2051.44					MINPT-O-EOU	
	6814.90	32.81	6802.87	6782.09	653.36		MAS = 10.00 (m)	2280.00	2236.17					MinPt-O-SF	
	6909.78	32.81	6890.92	6876.97	400.55		MAS = 10.00 (m)	4590.00	4482.05					MinPts	
	6909.84	32.81	6890.87	6877.03	397.93		MAS = 10.00 (m)	4620.00	4511.22					MINPT-O-EOU	
	2742.88	180.34	2622.12	2562.54	23.01		OSF1.50	13910.00	7400.57					MinPt-CtCt	
	2743.16	181.17	2621.85	2562.00	22.90		OSF1.50	13950.00	7400.24					MINPT-O-EOU	
	2743.52	181.57	2621.94	2561.93	22.85		OSF1.50	13970.00	7400.08					MinPt-O-ADP	
	2779.41	187.50	2653.88	2591.91	22.41		OSF1.50	14360.00	7396.85					MinPt-O-SF	
	3135.23	187.24	3009.87	2947.99	25.32		OSF1.50	15429.52	7388.00					TD	
HSR-Wiedeman 14-20 GYRO 0' to 7527' - AB (Def Survey)															
	2752.96	32.81	2751.15	2720.15	N/A		MAS = 10.00 (m)	0.00	0.00					Pass	
	2752.93	32.81	2751.09	2720.12	86756.18		MAS = 10.00 (m)	4.00	4.00					Surface	
	2752.62	32.81	2749.76	2719.81	2628.60		MAS = 10.00 (m)	250.00	250.00					MinPt-O-SF	
	2752.68	32.81	2749.72	2719.87	2403.86		MAS = 10.00 (m)	270.00	270.00					MinPts	
	3182.21	32.81	3170.47	3149.40	313.89		MAS = 10.00 (m)	2380.00	2333.39					MINPT-O-EOU	
	4273.52	46.15	4242.22	4227.37	143.86		OSF1.50	7000.00	6825.04					MinPt-O-SF	
	4302.56	46.56	4270.99	4256.01	143.56		OSF1.50	7130.00	6948.87					MinPt-O-SF	
	5658.97	81.73	5603.95	5577.24	105.91		OSF1.50	10930.00	7425.23					MinPt-O-SF	
	9165.30	103.51	9095.76	9061.79	134.89		OSF1.50	15429.52	7388.00					TD	
Wiedeman PMJ 21-9 GYRO 0' to 7490' - AB (Def Survey)															
	7961.15	32.81	7959.34	7928.35	N/A		MAS = 10.00 (m)	0.00	0.00					Pass	
	7961.09	32.81	7959.21	7928.26	116316.17		MAS = 10.00 (m)	4.00	4.00					Surface	
	7959.97	32.81	7956.95	7927.16	6817.43		MAS = 10.00 (m)	290.00	290.00					MinPt-O-SF	
	7960.16	32.81	7956.80	7927.35	5141.83		MAS = 10.00 (m)	370.00	369.96					MinPts	
	2773.81	210.21	2633.13	2563.60	19.93		OSF1.50	15150.00	7390.31					MINPT-O-EOU	
	2774.02	210.83	2632.93	2563.19	19.88		OSF1.50	15180.00	7390.06					MinPt-CtCt	
	2774.34	211.23	2632.90	2563.11	19.84		OSF1.50	15200.00	7389.90					MINPT-O-EOU	
	2788.28	215.02	2644.39	2573.25	19.59		OSF1.50	15429.52	7388.00					MinPt-O-ADP	
														MinPt-O-SF	
HSR-Wiedeman 15-20 GYRO 0' to 7527' - AB (Def Survey)															
	2872.44	32.81	2870.62	2839.63	N/A		MAS = 10.00 (m)	0.00	0.00					Pass	
	2872.37	32.81	2870.49	2839.57	41801.60		MAS = 10.00 (m)	4.00	4.00					Surface	
	2872.05	32.81	2870.13	2839.24	28052.69		MAS = 10.00 (m)	50.00	50.00					MinPt-O-SF	
	2872.07	32.81	2870.11	2839.26	18749.12		MAS = 10.00 (m)	70.00	70.00					MinPts	
	3157.37	32.81	3146.69	3124.56	347.88		MAS = 10.00 (m)	1900.00	1866.71					MINPT-O-EOU	
	4356.92	60.39	4316.12	4296.53	111.13		OSF1.50	8430.00	7445.91					MinPt-O-SF	
	4357.05	60.73	4316.03	4296.32	110.49		OSF1.50	8460.00	7445.66					MinPt-CtCt	
	4357.14	60.85	4316.04	4296.30	110.28		OSF1.50	8470.00	7445.58					MINPT-O-EOU	
	5106.98	93.21	5044.30	5013.77	83.60		OSF1.50	11090.00	7423.90					MinPt-O-ADP	
	5117.44	93.40	5054.64	5024.04	83.60		OSF1.50	11110.00	7423.74					MinPt-O-SF	
	8248.14	112.45	8172.64	8135.69	111.59		OSF1.50	15429.52	7388.00					TD	
HSR-Wiedeman 9-20 GYRO 0' to 7473' - AB (Def Survey)															
	2979.40	32.81	2977.59	2946.59	N/A		MAS = 10.00 (m)	0.00	0.00					Pass	
	2979.30	32.81	2977.37	2946.48	26767.97		MAS = 10.00 (m)	4.00	4.00					Surface	
	2976.88	32.81	2973.92	2944.08	2574.10		MAS = 10.00 (m)	280.00	280.00					MinPt-O-SF	
	2976.93	32.81	2973.87	2944.12	2394.43		MAS = 10.00 (m)	300.00	300.00					MinPts	
	3194.94	83.71	3138.59	3111.22	58.34		OSF1.50	9840.00	7434.24					MINPT-O-EOU	
	3195.24	84.48	3138.39	3110.77	57.80		OSF1.50	9880.00	7433.91					MinPt-CtCt	
	3195.59	84.86	3138.48	3110.73	57.55		OSF1.50	9900.00	7433.75					MINPT-O-EOU	
	3410.80	101.56	3342.56	3309.24	51.16		OSF1.50	11030.00	7424.40					MinPt-O-ADP	
	6438.93	106.54	6367.37	6332.39	92.02		OSF1.50	15429.52	7388.00					MinPt-O-SF	

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		
UPRC 21-12H6 Blind 0' to 7502' - AB (Def Survey)													Pass
4220.54	32.81	4218.73	4187.73	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
4220.46	32.81	4218.55	4187.65	45604.64	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	
4219.58	32.81	4213.18	4186.77	918.62	MAS = 10.00 (m)	250.00	250.00					MinPts	
4226.62	32.81	4205.82	4193.81	222.53	MAS = 10.00 (m)	610.00	608.05					MINPT-O-EOU	
4234.95	40.39	4207.42	4194.58	164.58	OSF1.50	780.00	776.98					MinPt-O-ADP	
2968.39	452.43	2686.24	2535.97	9.94	OSF1.50	11330.00	7421.92					MinPts	
2988.43	452.47	2686.24	2535.95	9.94	OSF1.50	11340.00	7421.83					MinPt-O-ADP	
2989.59	452.79	2687.19	2536.80	9.93	OSF1.50	11410.00	7421.26					MinPt-O-SF	
5076.77	451.39	4775.30	4625.37	16.93	OSF1.50	15429.52	7388.00					TD	
UPV 21-11H6 Blind 0' to 7440' - AB (Def Survey)													Pass
5630.94	32.81	5629.12	5598.13	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
5630.86	32.81	5628.96	5598.05	64055.67	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	
5629.80	32.81	5624.33	5599.99	1538.84	MAS = 10.00 (m)	250.00	250.00					MinPts	
5638.72	34.21	5615.31	5604.51	260.95	OSF1.50	700.00	698.15					MINPT-O-EOU	
5648.60	46.04	5617.31	5602.57	191.53	OSF1.50	900.00	894.44					MinPt-O-ADP	
3102.14	460.63	2794.52	2641.51	10.13	OSF1.50	12760.00	7410.09					MinPt-CICt	
3102.18	460.76	2794.48	2641.43	10.13	OSF1.50	12780.00	7409.92					MinPts	
3104.74	461.43	2796.58	2643.31	10.12	OSF1.50	12890.00	7409.01					MinPt-O-SF	
4090.70	461.80	3782.30	3628.90	13.33	OSF1.50	15429.52	7388.00					TD	
HSR-Wiedeman 16-20 GYRO 0' to 7501' - AB (Def Survey)													Pass
3679.58	32.81	3677.77	3646.77	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
3679.56	32.81	3677.72	3646.75	156891.40	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	
3679.02	32.81	3676.06	3646.21	3203.40	MAS = 10.00 (m)	260.00	260.00					MinPts	
3679.07	32.81	3676.00	3646.26	2926.08	MAS = 10.00 (m)	280.00	280.00					MINPT-O-EOU	
3944.26	32.81	3932.72	3911.45	397.11	MAS = 10.00 (m)	2170.00	2129.22					MinPt-O-SF	
4303.23	85.13	4245.94	4218.09	77.25	OSF1.50	9930.00	7433.50					MinPt-CICt	
4303.57	86.12	4245.62	4217.44	76.35	OSF1.50	9980.00	7433.09					MINPT-O-EOU	
4304.05	86.72	4245.71	4217.34	75.83	OSF1.50	10010.00	7432.84					MinPt-O-ADP	
4764.07	117.31	4685.33	4646.76	61.74	OSF1.50	11970.00	7416.62					MinPt-O-SF	
6965.90	131.59	6897.64	6854.31	80.60	OSF1.50	15429.52	7388.00					TD	
A.J. Gold 22-13 Blind 0' to 7425' - PR (Def Survey)													Pass
9367.97	32.81	9366.16	9335.16	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
9367.90	32.81	9366.01	9335.09	119305.44	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	
9366.50	32.81	9362.76	9333.69	4863.12	MAS = 10.00 (m)	250.00	250.00					MinPts	
9375.24	32.81	9354.31	9342.43	490.14	MAS = 10.00 (m)	690.00	688.27					MINPT-O-EOU	
9385.09	42.32	9356.27	9342.77	347.44	OSF1.50	890.00	884.69					MinPt-O-ADP	
4238.34	482.07	3916.39	3756.27	13.23	OSF1.50	15429.52	7388.00					MinPts	
UPRC 21-14H6 GYRO 0' to 7418' - AB (Def Survey)													Pass
5844.91	32.81	5843.10	5812.10	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
5844.82	32.81	5842.91	5812.01	61161.43	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	
5843.42	32.81	5840.68	5810.61	6287.40	MAS = 10.00 (m)	250.00	250.00					MinPts	
5843.48	32.81	5840.59	5810.67	5425.59	MAS = 10.00 (m)	280.00	280.00					MINPT-O-EOU	
5984.43	32.81	5972.88	5951.62	601.54	MAS = 10.00 (m)	1900.00	1866.71					MinPt-O-SF	
6009.30	32.81	5997.70	5976.49	601.12	MAS = 10.00 (m)	2100.00	2061.16					MinPt-O-SF	
4323.60	148.05	4224.37	4175.55	44.27	OSF1.50	12560.00	7411.74					MinPt-CICt	
4324.10	149.58	4223.87	4174.55	43.83	OSF1.50	12630.00	7411.16					MINPT-O-EOU	
4324.45	149.97	4223.94	4174.48	43.70	OSF1.50	12650.00	7411.00					MinPt-O-ADP	
4519.20	169.67	4405.55	4349.53	40.32	OSF1.50	13880.00	7400.82					MinPt-O-SF	
5186.06	177.72	5067.04	5008.34	44.16	OSF1.50	15429.52	7388.00					TD	
Calvin 1 Blind 0' to 7355' - PR (Def Survey)													Pass
8400.43	32.81	8398.62	8367.62	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
8400.36	32.81	8398.47	8367.55	105519.59	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	
8399.07	32.81	8395.03	8366.26	3775.13	MAS = 10.00 (m)	250.00	250.00					MinPts	
8406.21	32.81	8387.83	8373.41	507.04	MAS = 10.00 (m)	610.00	608.05					MINPT-O-EOU	
8414.60	36.78	8389.48	8377.83	360.93	OSF1.50	780.00	776.98					MinPt-O-ADP	
4361.68	482.07	4039.76	3879.60	13.61	OSF1.50	15270.00	7389.32					MinPt-CICt	
4361.76	482.36	4039.65	3879.40	13.60	OSF1.50	15300.00	7389.07					MINPT-O-EOU	
4361.83	482.46	4039.66	3879.37	13.60	OSF1.50	15310.00	7388.99					MinPt-O-ADP	
4364.48	483.57	4041.57	3880.91	13.58	OSF1.50	15429.52	7388.00					MinPt-O-SF	
Wiedeman 21-15H6 GYRO 0' to 7491' - AB (Def Survey)													Pass
7073.54	32.81	7071.73	7040.73	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
7073.46	32.81	7071.56	7040.65	80427.89	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	
7071.99	32.81	7069.20	7039.18	7260.28	MAS = 10.00 (m)	260.00	260.00					MinPts	
7072.04	32.81	7069.13	7039.24	6390.93	MAS = 10.00 (m)	290.00	290.00					MINPT-O-EOU	
4381.74	184.11	4258.47	4197.63	36.00	OSF1.50	13990.00	7399.91					MinPt-CICt	
4382.17	185.46	4258.00	4196.71	35.74	OSF1.50	14050.00	7399.41					MINPT-O-EOU	
4382.69	186.12	4258.08	4196.57	35.62	OSF1.50	14080.00	7399.17					MinPt-O-ADP	
4530.49	203.85	4394.05	4326.64	33.59	OSF1.50	15140.00	7390.40					MinPt-O-SF	
4612.57	206.73	4474.21	4405.84	33.72	OSF1.50	15429.52	7388.00					TD	
Bensler J 29-27D GYRO 0' to 7588' - PR (Def Survey)													Pass
4397.03	32.81	4395.21	4364.22	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
4396.97	32.81	4395.10	4364.16	70949.83	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	
4393.80	32.81	4390.70	4360.99	3396.92	MAS = 10.00 (m)	280.00	280.00					MinPts	
4393.87	32.81	4390.66	4361.06	3135.88	MAS = 10.00 (m)	300.00	300.00					MINPT-O-EOU	
4498.73	32.81	4488.92	4465.92	562.42	MAS = 10.00 (m)	1090.00	1079.19					MINPT-O-EOU	
4559.13	32.81	4543.96	4526.32	336.02	MAS = 10.00 (m)	1990.00	1954.21					MINPT-O-EOU	
4568.41	32.81	4551.93	4535.60	306.99	MAS = 10.00 (m)	2280.00	2236.17					MINPT-O-EOU	
4683.20	34.41	4659.72	4648.79	214.09	OSF1.50	3840.00	3752.87					MinPt-O-ADP	
5008.03	49.31	4974.62	4958.72	157.40	OSF1.50	6140.00	5989.04					MinPt-O-SF	
5201.42	52.78	5165.70	5148.64	152.42	OSF1.50	7000.00	6825.04					MinPt-O-SF	
5032.23	72.31	4983.49	4959.92	106.73	OSF1.50	9140.00	7440.04					MinPt-CICt	
5032.57	73.29	4983.17	4959.27	105.26	OSF1.50	9200.00	7439.54					MINPT-O-EOU	
5033.00	73.80	4983.27	4959.20	104.54	OSF1.50	9230.00	7439.29					MinPt-O-ADP	
5868.01	117.00	5789.48	5751.01	76.26	OSF1.50	12160.00	7415.05					MinPt-O-SF	
8053.58	135.76	7962.54	7917.82	90.03	OSF1.50	15429.52	7388.00					TD	
UPRC 21-13H6 GYRO 0' to 7440' - AB (Def Survey)													Pass
4723.59	32.81	4721.78	4690.78	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
4723.50	32.81	4721.59	4690.69	48165.47	MAS = 10.00 (m)	4.00	4.00					MinPt-O-SF	

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		
	4722.40	32.81	4720.33	4689.59	18308.49	MAS = 10.00 (m)	110.00	110.00				MinPts	
	4722.63	32.81	4719.84	4689.82	4821.24	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	5013.46	32.81	5000.93	4980.66	458.93	MAS = 10.00 (m)	2530.00	2479.23				MinPt-O-SF	
	5020.67	32.81	5008.10	4987.86	457.62	MAS = 10.00 (m)	2580.00	2527.84				MinPt-O-SF	
	4510.38	112.92	4434.56	4397.46	60.76	OSF1.50	11100.00	7423.82				MinPt-CICt	
	4510.77	114.18	4434.12	4396.59	60.08	OSF1.50	11160.00	7423.32				MINPT-O-EOU	
	4511.26	114.80	4434.20	4396.46	59.76	OSF1.50	11190.00	7423.08				MinPt-O-ADP	
	4852.32	141.99	4757.13	4710.33	51.83	OSF1.50	12890.00	7409.01				MinPt-O-SF	
	6251.46	153.92	6148.31	6097.53	61.55	OSF1.50	15429.52	7388.00				TD	