



PDC Energy

Schlumberger

Rev 2

Borehole:	Well:	Field:	Structure:
Original Hole	Stugart 24N	CO, Weld County (NAD 83 NZ) - SRC	PDC Energy 20-05N-66W (Stugart State 6-20 Pad)

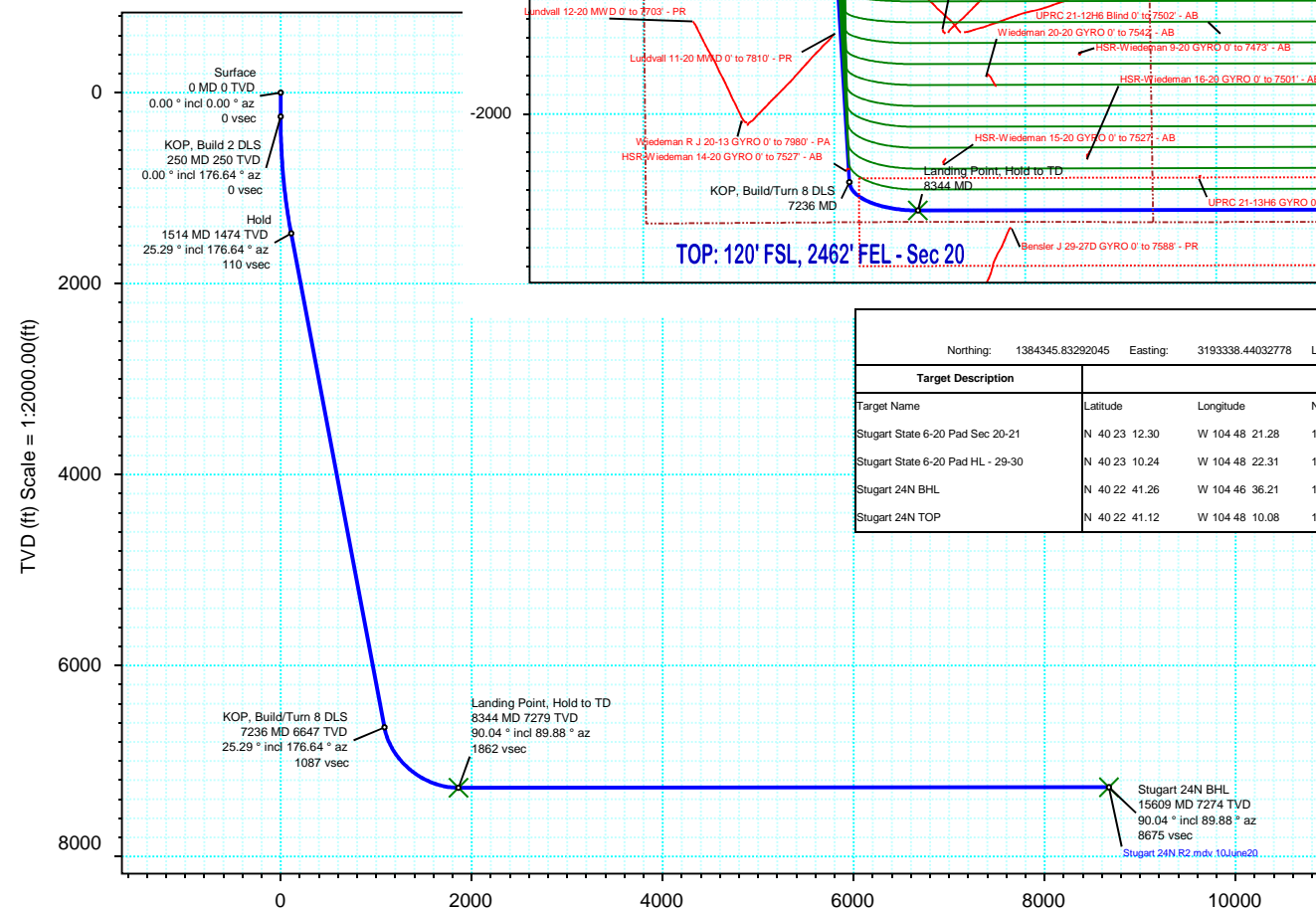
Gravity & Magnetic Parameters			Surface Location			Miscellaneous		
Model:	HDGM 2020	Dip: 66.728°	Date:	17-Jun-2020		Lat: N 40 23 10.87	Northings:	1384345.83ftUS
MagDec:	8.13°	FS: 52099.477nT	Gravity FS:	999.013mgn (9.80665 Based)		Lon: W 104 48 21.40	Easting:	3193338.44ftUS
						Grid Conv:	0.4485°	
						Scale Fact:	0.99995964	
						Slot:	Stugart 24N	TVD Ref: KB 4ft(4949ft above MSL)
						Plan:	Stugart 24N R2 mdv 10June20	

Proposal

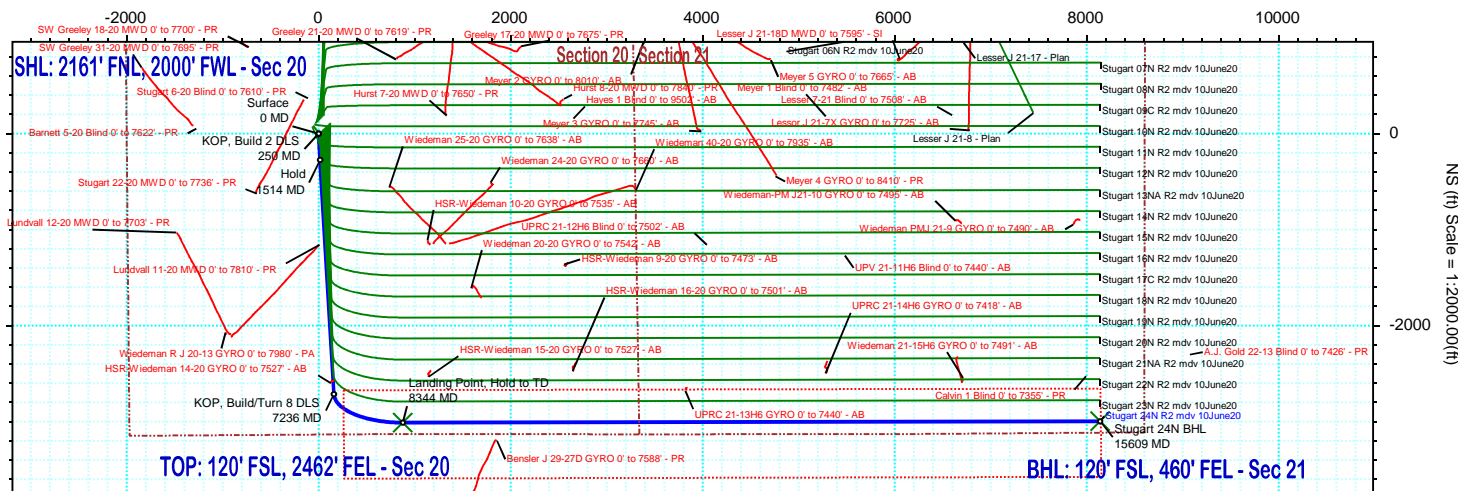
EW (ft) Scale = 1:2000.00(ft)



True North
Tot Corr (M->T 8.130°)
Mag Dec (8.130°)
Grid Conv (0.448°)



Vertical Section (ft) Azim = 110.20° Scale = 1:2000.00(ft) Origin = 0N/-S, 0E/-W



Target Description		Grid Coord		Local Coord	
Target Name	Latitude	Longitude	Northings	Easting	TVD
Stugart State 6-20 Pad Sec 20-21	N 40 23 12.30	W 104 48 21.28	1384490.53	3193346.78	4949.00
Stugart State 6-20 Pad HL - 29-30	N 40 23 10.24	W 104 48 22.31	1384280.81	3193269.03	4949.00
Stugart 24N BHL	N 40 22 41.26	W 104 46 36.21	1381414.05	3201502.49	7274.00
Stugart 24N TOP	N 40 22 41.12	W 104 48 10.08	1381342.36	3194238.51	7279.00

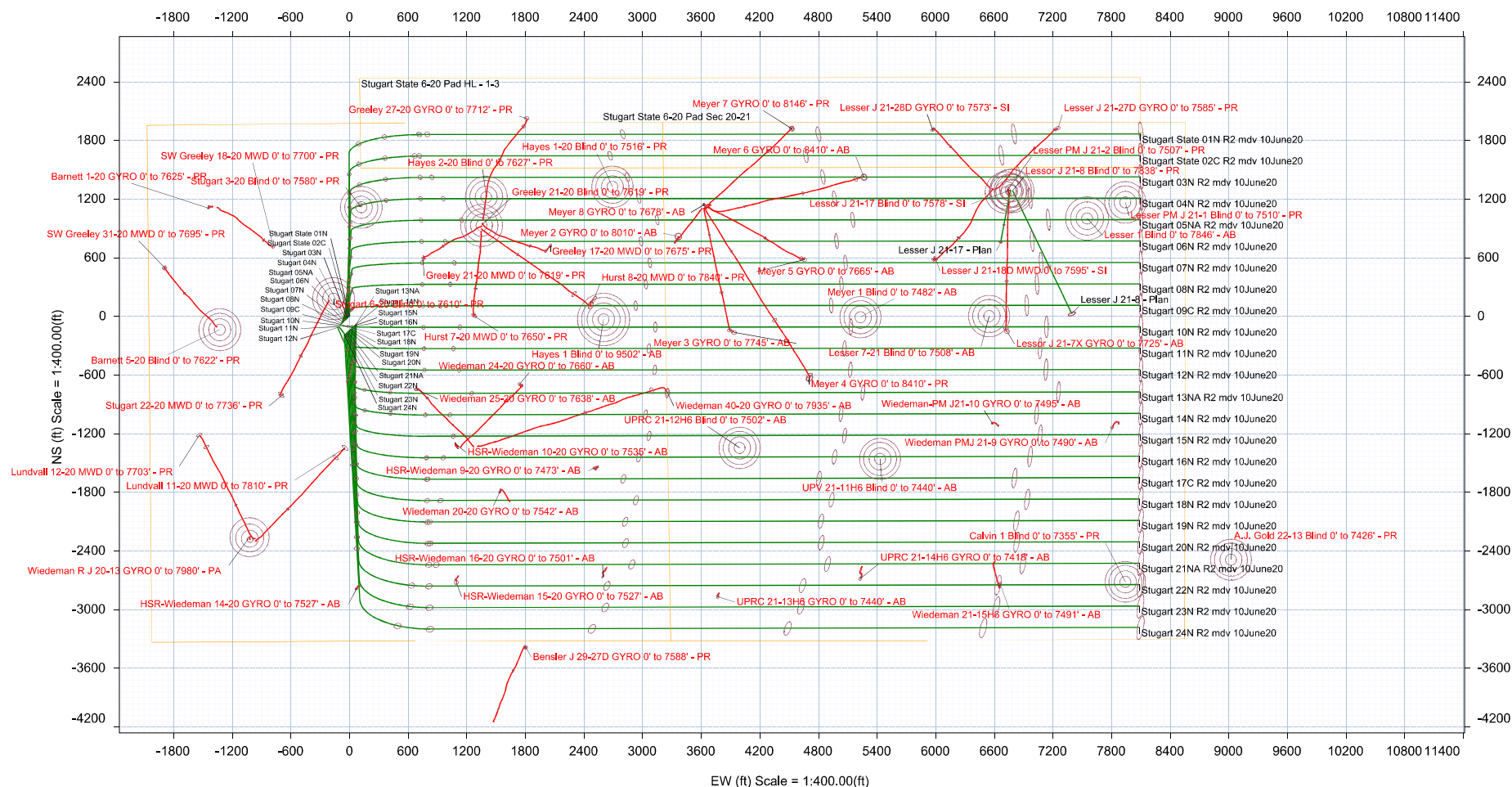
Critical Points							
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Build 2 DLS	250.00	0.00	176.64	250.00	0.00	0.00	0.00
Hold	1514.31	25.29	176.64	1473.67	109.74	-274.02	16.11
KOP, Build/Turn 8 DLS	7235.85	25.29	176.64	6647.00	1086.85	-2713.71	159.53
Landing Point, Hold to TD	8343.96	90.04	89.88	7279.00	1862.29	-3010.55	876.57
Stugart 24N BHL	15608.60	90.04	89.88	7274.00	8674.87	-2995.72	8141.19



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

Borehole:	Well:	Field:	Structure:
Original Hole	Stugart State 01N	CO, Weld County (NAD 83 NZ) - SRC	PDC Energy 20-05N-66W (Stugart State 6-20 Pad)
Gravity & Magnetic Parameters		Surface Location	Miscellaneous
Mode: HDGM 2020	Dip: 66.728°	Date: 17-Jun-2020	Lat: N 40 23 12.71
MagDec: 8.129° FS:	52099.71mT Gravity FS:	999.013man (8,0665 Based)	Northing: 1384531.67RUS
			Grid Conv: 0.4486°
			Lon: W 104 48 20.71 Easting: 3193390.47RUS
			Scale Fact: 0.99995966
			Slat: Stugart State 01N TVD Ref: KB 4R(4948ft above MSL)
			Plan: Stugart State 01N R2 mdy 10June20

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



Stugart 24N R2 mdv 10June20 Proposal Geodetic Report

(Def Plan)

Report Date: June 19, 2020 - 11:51 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 24N
Well: Stugart 24N
Borehole: Original Hole
UWI / API#: Unknown / Unknown
Survey Name: Stugart 24N R2 mdv 10June20
Survey Date: September 25, 2019
Tort / AHD / DDI / ERD Ratio: 113.935 ° / 10811.333 ft / 6.422 / 1.485
Coordinate Reference System: NAD83 Colorado State Plane, Northern Zone, US Feet
Location Lat / Long: N 40° 23' 10.87440", W 104° 48' 21.40200"
Location Grid N/E Y/X: N 1384345.833 ftUS, E 3193338.440 ftUS
CRS Grid Convergence Angle: 0.4485 °
Grid Scale Factor: 0.99995964
Version / Patch: 2.10.811.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 110.202 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: KB 4ft
TVD Reference Elevation: 4949.000 ft above MSL
Seabed / Ground Elevation: 4945.000 ft above MSL
Magnetic Declination: 8.130 °
Total Gravity Field Strength: 999.0131mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 52099.477 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: 8.1299 °
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	1384345.83	3193338.44	40.386354	-104.805945
	100.00	0.00	176.64	100.00	0.00	0.00	0.00	0.00	1384345.83	3193338.44	40.386354	-104.805945
	200.00	0.00	176.64	200.00	0.00	0.00	0.00	0.00	1384345.83	3193338.44	40.386354	-104.805945
KOP, Build 2 DLS	250.00	0.00	176.64	250.00	0.00	0.00	0.00	0.00	1384345.83	3193338.44	40.386354	-104.805945
	300.00	1.00	176.64	300.00	0.17	-0.44	0.03	2.00	1384345.40	3193338.47	40.386353	-104.805945
	400.00	3.00	176.64	399.93	1.57	-3.92	0.23	2.00	1384341.92	3193338.70	40.386343	-104.805944
	500.00	5.00	176.64	499.68	4.36	-10.88	0.64	2.00	1384334.96	3193339.17	40.386324	-104.805943
	600.00	7.00	176.64	599.13	8.54	-21.32	1.25	2.00	1384324.53	3193339.86	40.386295	-104.805941
	700.00	9.00	176.64	698.15	14.10	-35.21	2.07	2.00	1384310.64	3193340.79	40.386257	-104.805938
	800.00	11.00	176.64	796.63	21.04	-52.54	3.09	2.00	1384293.32	3193341.94	40.386210	-104.805934
	900.00	13.00	176.64	894.44	29.36	-73.30	4.31	2.00	1384272.57	3193343.32	40.386153	-104.805930
	1000.00	15.00	176.64	991.46	39.03	-97.45	5.73	2.00	1384248.44	3193344.93	40.386087	-104.805924
	1100.00	17.00	176.64	1087.58	50.05	-124.96	7.35	2.00	1384220.94	3193346.76	40.386011	-104.805919
	1200.00	19.00	176.64	1182.68	62.40	-155.81	9.16	2.00	1384190.11	3193348.82	40.385926	-104.805912
	1300.00	21.00	176.64	1276.65	76.08	-189.95	11.17	2.00	1384155.98	3193351.09	40.385833	-104.805905
	1400.00	23.00	176.64	1369.36	91.05	-227.34	13.37	2.00	1384118.61	3193353.58	40.385730	-104.805897
	1500.00	25.00	176.64	1460.71	107.31	-267.95	15.75	2.00	1384078.03	3193356.29	40.385619	-104.805888
Hold	1514.31	25.29	176.64	1473.67	109.74	-274.02	16.11	2.00	1384071.96	3193356.69	40.385602	-104.805887
	1600.00	25.29	176.64	1551.15	124.38	-310.55	18.26	0.00	1384035.44	3193359.13	40.385502	-104.805879
	1700.00	25.29	176.64	1641.56	141.46	-353.19	20.76	0.00	1383992.83	3193361.97	40.385385	-104.805870
	1800.00	25.29	176.64	1731.98	158.53	-395.83	23.27	0.00	1383950.21	3193364.81	40.385267	-104.805861
	1900.00	25.29	176.64	1822.40	175.61	-438.48	25.78	0.00	1383907.59	3193367.65	40.385150	-104.805852
	2000.00	25.29	176.64	1912.82	192.69	-481.12	28.28	0.00	1383864.97	3193370.49	40.385033	-104.805843
	2100.00	25.29	176.64	2003.24	209.77	-523.76	30.79	0.00	1383822.36	3193373.33	40.384916	-104.805834
	2200.00	25.29	176.64	2093.66	226.84	-566.40	33.30	0.00	1383779.74	3193376.17	40.384799	-104.805825
	2300.00	25.29	176.64	2184.08	243.92	-609.04	35.80	0.00	1383737.12	3193379.01	40.384682	-104.805816
	2400.00	25.29	176.64	2274.49	261.00	-651.68	38.31	0.00	1383694.50	3193381.85	40.384565	-104.805807
	2500.00	25.29	176.64	2364.91	278.08	-694.32	40.82	0.00	1383651.89	3193384.69	40.384448	-104.805798
	2600.00	25.29	176.64	2455.33	295.16	-736.96	43.32	0.00	1383609.27	3193387.53	40.384331	-104.805789
	2700.00	25.29	176.64	2545.75	312.23	-779.60	45.83	0.00	1383566.65	3193390.37	40.384214	-104.805780
	2800.00	25.29	176.64	2636.17	329.31	-822.24	48.34	0.00	1383524.03	3193393.21	40.384097	-104.805771
	2900.00	25.29	176.64	2726.59	346.39	-864.88	50.84	0.00	1383481.41	3193396.05	40.383980	-104.805762
	3000.00	25.29	176.64	2817.01	363.47	-907.52	53.35	0.00	1383438.80	3193398.89	40.383863	-104.805753
	3100.00	25.29	176.64	2907.42	380.54	-950.16	55.86	0.00	1383396.18	3193401.73	40.383746	-104.805744
	3200.00	25.29	176.64	2997.84	397.62	-992.80	58.36	0.00	1383353.56	3193404.57	40.383629	-104.805735
	3300.00	25.29	176.64	3088.26	414.70	-1035.44	60.87	0.00	1383310.94	3193407.41	40.383512	-104.805727
	3400.00	25.29	176.64	3178.68	431.78	-1078.08	63.38	0.00	1383268.33	3193410.25	40.383395	-104.805718
	3500.00	25.29	176.64	3269.10	448.85	-1120.72	65.89	0.00	1383225.71	3193413.09	40.383278	-104.805709
	3600.00	25.29	176.64	3359.52	465.93	-1163.36	68.39	0.00	1383183.09	3193415.93	40.383161	-104.805700
	3700.00	25.29	176.64	3449.93	483.01	-1206.00	70.90	0.00	1383140.47	3193418.77	40.383044	-104.805691
	3800.00	25.29	176.64	3540.35	500.09	-1248.64	73.41	0.00	1383097.85	3193421.61	40.382927	-104.805682
	3900.00	25.29	176.64	3630.77	517.17	-1291.28	75.91	0.00	1383055.24	3193424.45	40.382810	-104.805673
	4000.00	25.29	176.64	3721.19	534.24	-1333.92	78.42	0.00	1383012.62	3193427.29	40.382693	-104.805664
	4100.00	25.29	176.64	3811.61	551.32	-1376.57	80.93	0.00	1382970.00	3193430.13	40.382575	-104.805655
	4200.00	25.29	176.64	3902.03	568.40	-1419.21	83.43	0.00	1382927.38	3193432.97	40.382458	-104.805646
	4300.00	25.29	176.64	3992.45	585.48	-1461.85	85.94	0.00	1382884.77	3193435.81	40.382341	-104.805637
	4400.00	25.29	176.64	4082.86	602.55	-1504.49	88.45	0.00	1382842.15	3193438.65	40.382224	-104.805628
	4500.00	25.29	176.64	4173.28	619.63	-1547.13	90.95	0.00	1382799.53	3193441.49	40.382107	-104.805619
	4600.00	25.29	176.64	4263.70	636.71	-1589.77	93.46	0.00	1382756.91	3193444.34	40.381990	-104.805610
	4700.00	25.29	176.64	4354.12	653.79	-1632.41	95.97	0.00	1382714.30	3193447.18	40.381873	-104.805601
	4800.00	25.29	176.64	4444.54	670.86	-1675.05	98.47	0.00	1382671.68	3193450.02	40.381756	-104.805592
	4900.00	25.29	176.64	4534.96	687.94	-1717.69	100.98	0.00	1382629.06	3193452.86	40.381639	-104.805583
	5000.00	25.29	176.64	4625.38	705.02	-1760.33	103.49	0.00	1382586.44	3193455.70	40.381522	-104.805574
	5100.00	25.29	176.64	4715.79	722.10	-1802.97	105.99	0.00	1382543.82	3193458.54	40.381405	-104.805565
	5200.00	25.29	176.64	4806.21	739.18	-1845.61	108.50	0.00	1382501.21	3193461.38	40.381288	-104.805556
	5300.00	25.29	176.64	4896.63	756.25	-1888.25	111.01	0.00	1382458.59	3193464.22	40.381171	-104.805547
	5400.00	25.29	176.64	4987.05	773.33	-1930.89	113.51	0.00	1382415.97	3193467.06	40.381054	-104.805538
	5500.00	25.29	176.64	5077.47	790.41	-1973.53	116.02	0.00	1382373.35	3193469.90	40.380937	-104.805529
	5600.00	25.29	176.64	5167.89	807.49	-2016.17	118.53	0.00	1382330.74	3193472.74	40.380820	-104.805520
	5700.00	25.29	176.64	5258.31	824.56	-2058.81	121.03	0.00	1382288.12	3193475.58	40.380703	-104.805511
	5800.00	25.29	176.64	5348.72	841.64	-2101.45	123.54	0.00	1382245.50	3193478.42	40.380586	-104.805502
	5900.00	25.29	176.64	5439.14	858.72	-2144.09	126.05	0.00	1382202.88	3193481.26	40.380469	-104.805493
	6000.00	25.29	176.64	5529.56	875.80	-2186.73	128.55	0.00	1382160.27	3193484.10	40.380352	-104.805484
	6100.00	25.29	176.64	5619.98	892.87	-2229.37	131.06	0.00	1382117.65	3193486.94	40.380235	-104.805475
	6200.00	25.29	176.64	5710.40	909.95	-2272.01	133.57	0.00	1382075.03	3193489.78	40.380118	-104.805466
	6300.00	25.29	176.64	5800.82	927.03	-2314.65	136.07	0.00	1382032.41	3193492.62	40.380000	-104.805457
	6400.00	25.29	176.64	5891.23	944.11	-2357.30	138.58	0.00	1381989.79	3193495.46	40.379883	-104.805448
	6500.00	25.29	176.64	5981.65	961.19	-2399.94	141.09	0.00	1381947.18	3193498.30	40.379766	-104.805439
	6600.00	25.29	176.64	6072.07	978.26	-2442.58	143.59	0.00	1381904.56	3193501.14	40.379649	-104.805430
	6700.00	25.29	176.64	6162.49	995.34	-2485.22	146.10	0.00	1381861.94	3193503.98	40.379532	-104.805421
	6800.00	25.29	176.64	6252.91	1012.42	-2527.86	148.61	0.00	1381819.32	3193506.82	40.379415	-104.805412
	6900.00	25.29	176.64	6343.33	1029.50	-2570.50	151.11	0.00	1381776.71	3193509.66	40.379298	-104.805403
	7000.00											

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	7300.00	26.03	164.89	6704.86	1100.47	-2740.99	164.01	8.00	1381606.33	3193523.89	40.378830	-104.805356
	7400.00	28.89	148.63	6793.71	1132.13	-2782.86	182.34	8.00	1381564.60	3193542.54	40.378715	-104.805291
	7500.00	33.34	135.71	6879.40	1175.93	-2823.22	214.15	8.00	1381524.49	3193574.67	40.378605	-104.805176
	7600.00	38.82	125.78	6960.26	1231.01	-2861.28	258.84	8.00	1381486.79	3193619.66	40.378500	-104.805016
	7700.00	44.96	118.08	7034.71	1296.31	-2896.30	315.54	8.00	1381452.22	3193676.62	40.378404	-104.804812
	7800.00	51.52	111.92	7101.31	1370.55	-2927.59	383.13	8.00	1381421.45	3193744.45	40.378318	-104.804570
	7900.00	58.34	106.81	7158.76	1452.29	-2954.56	460.30	8.00	1381395.09	3193821.84	40.378244	-104.804293
	8000.00	65.34	102.41	7205.95	1539.94	-2976.66	545.56	8.00	1381373.66	3193907.26	40.378183	-104.803987
	8100.00	72.45	98.48	7241.95	1631.79	-2993.48	637.24	8.00	1381357.55	3193999.06	40.378137	-104.803658
	8200.00	79.64	94.85	7266.06	1726.05	-3004.69	733.56	8.00	1381347.10	3194095.46	40.378106	-104.803312
	8300.00	86.86	91.38	7277.81	1820.89	-3010.06	832.64	8.00	1381342.50	3194194.57	40.378092	-104.802956
Landing Point, Hold to TD	8343.96	90.04	89.88	7279.00	1862.29	-3010.55	876.57	8.00	1381342.36	3194238.51	40.378090	-104.802799
	8400.00	90.04	89.88	7278.96	1914.84	-3010.44	932.61	0.00	1381342.92	3194294.54	40.378091	-104.802598
	8500.00	90.04	89.88	7278.89	2008.62	-3010.23	1032.61	0.00	1381343.90	3194394.54	40.378091	-104.802239
	8600.00	90.04	89.88	7278.82	2102.39	-3010.03	1132.61	0.00	1381344.89	3194494.53	40.378092	-104.801880
	8700.00	90.04	89.88	7278.75	2196.17	-3009.82	1232.61	0.00	1381345.88	3194594.52	40.378092	-104.801521
	8800.00	90.04	89.88	7278.69	2289.95	-3009.62	1332.61	0.00	1381346.86	3194694.51	40.378093	-104.801162
	8900.00	90.04	89.88	7278.62	2383.73	-3009.42	1432.61	0.00	1381347.85	3194794.50	40.378093	-104.800803
	9000.00	90.04	89.88	7278.55	2477.50	-3009.21	1532.61	0.00	1381348.84	3194894.49	40.378094	-104.800444
	9100.00	90.04	89.88	7278.48	2571.28	-3009.01	1632.61	0.00	1381349.82	3194994.48	40.378094	-104.800085
	9200.00	90.04	89.88	7278.41	2665.06	-3008.80	1732.61	0.00	1381350.81	3195094.47	40.378095	-104.799726
	9300.00	90.04	89.88	7278.34	2758.84	-3008.60	1832.61	0.00	1381351.80	3195194.46	40.378095	-104.799367
	9400.00	90.04	89.88	7278.27	2852.61	-3008.39	1932.61	0.00	1381352.78	3195294.45	40.378096	-104.799008
	9500.00	90.04	89.88	7278.20	2946.39	-3008.19	2032.61	0.00	1381353.77	3195394.44	40.378097	-104.798650
	9600.00	90.04	89.88	7278.14	3040.17	-3007.99	2132.61	0.00	1381354.76	3195494.43	40.378097	-104.798291
	9700.00	90.04	89.88	7278.07	3133.94	-3007.78	2232.61	0.00	1381355.74	3195594.43	40.378098	-104.797932
	9800.00	90.04	89.88	7278.00	3227.72	-3007.58	2332.61	0.00	1381356.73	3195694.42	40.378098	-104.797573
	9900.00	90.04	89.88	7277.93	3321.50	-3007.37	2432.61	0.00	1381357.72	3195794.41	40.378099	-104.797214
	10000.00	90.04	89.88	7277.86	3415.28	-3007.17	2532.61	0.00	1381358.70	3195894.40	40.378099	-104.796855
	10100.00	90.04	89.88	7277.79	3509.05	-3006.97	2632.61	0.00	1381359.69	3195994.39	40.378100	-104.796496
	10200.00	90.04	89.88	7277.72	3602.83	-3006.76	2732.61	0.00	1381360.68	3196094.38	40.378100	-104.796137
	10300.00	90.04	89.88	7277.65	3696.61	-3006.56	2832.61	0.00	1381361.67	3196194.37	40.378101	-104.795778
	10400.00	90.04	89.88	7277.58	3790.39	-3006.35	2932.61	0.00	1381362.65	3196294.36	40.378101	-104.795419
	10500.00	90.04	89.88	7277.52	3884.16	-3006.15	3032.61	0.00	1381363.64	3196394.35	40.378102	-104.795060
	10600.00	90.04	89.88	7277.45	3977.94	-3005.94	3132.61	0.00	1381364.63	3196494.34	40.378102	-104.794701
	10700.00	90.04	89.88	7277.38	4071.72	-3005.74	3232.61	0.00	1381365.61	3196594.33	40.378103	-104.794342
	10800.00	90.04	89.88	7277.31	4165.50	-3005.54	3332.61	0.00	1381366.60	3196694.33	40.378103	-104.793984
	10900.00	90.04	89.88	7277.24	4259.27	-3005.33	3432.61	0.00	1381367.59	3196794.32	40.378104	-104.793625
	11000.00	90.04	89.88	7277.17	4353.05	-3005.13	3532.60	0.00	1381368.57	3196894.31	40.378105	-104.793266
	11100.00	90.04	89.88	7277.10	4446.83	-3004.92	3632.60	0.00	1381369.56	3196994.30	40.378105	-104.792907
	11200.00	90.04	89.88	7277.03	4540.60	-3004.72	3732.60	0.00	1381370.55	3197094.29	40.378106	-104.792548
	11300.00	90.04	89.88	7276.97	4634.38	-3004.52	3832.60	0.00	1381371.53	3197194.28	40.378106	-104.792189
	11400.00	90.04	89.88	7276.90	4728.16	-3004.31	3932.60	0.00	1381372.52	3197294.27	40.378107	-104.791830
	11500.00	90.04	89.88	7276.83	4821.94	-3004.11	4032.60	0.00	1381373.51	3197394.26	40.378107	-104.791471
	11600.00	90.04	89.88	7276.76	4915.71	-3003.90	4132.60	0.00	1381374.49	3197494.25	40.378108	-104.791112
	11700.00	90.04	89.88	7276.69	5009.49	-3003.70	4232.60	0.00	1381375.48	3197594.24	40.378108	-104.790753
	11800.00	90.04	89.88	7276.62	5103.27	-3003.49	4332.60	0.00	1381376.47	3197694.23	40.378109	-104.790394
	11900.00	90.04	89.88	7276.55	5197.05	-3003.29	4432.60	0.00	1381377.45	3197794.22	40.378109	-104.790035
	12000.00	90.04	89.88	7276.48	5290.82	-3003.09	4532.60	0.00	1381378.44	3197894.22	40.378110	-104.789676
	12100.00	90.04	89.88	7276.41	5384.60	-3002.88	4632.60	0.00	1381379.43	3197994.21	40.378110	-104.789317
	12200.00	90.04	89.88	7276.35	5478.38	-3002.68	4732.60	0.00	1381380.41	3198094.20	40.378111	-104.788958
	12300.00	90.04	89.88	7276.28	5572.15	-3002.47	4832.60	0.00	1381381.40	3198194.19	40.378111	-104.788600
	12400.00	90.04	89.88	7276.21	5665.93	-3002.27	4932.60	0.00	1381382.39	3198294.18	40.378112	-104.788241
	12500.00	90.04	89.88	7276.14	5759.71	-3002.07	5032.60	0.00	1381383.37	3198394.17	40.378112	-104.787882
	12600.00	90.04	89.88	7276.07	5853.49	-3001.86	5132.60	0.00	1381384.36	3198494.16	40.378113	-104.787523
	12700.00	90.04	89.88	7276.00	5947.26	-3001.66	5232.60	0.00	1381385.35	3198594.15	40.378113	-104.787164
	12800.00	90.04	89.88	7275.93	6041.04	-3001.45	5332.60	0.00	1381386.33	3198694.14	40.378114	-104.786805
	12900.00	90.04	89.88	7275.86	6134.82	-3001.25	5432.60	0.00	1381387.32	3198794.13	40.378114	-104.786446
	13000.00	90.04	89.88	7275.80	6228.60	-3001.04	5532.60	0.00	1381388.31	3198894.12	40.378115	-104.786087
	13100.00	90.04	89.88	7275.73	6322.37	-3000.84	5632.60	0.00	1381389.30	3198994.12	40.378115	-104.785728
	13200.00	90.04	89.88	7275.66	6416.15	-3000.64	5732.60	0.00	1381390.28	3199094.11	40.378116	-104.785369
	13300.00	90.04	89.88	7275.59	6509.93	-3000.43	5832.60	0.00	1381391.27	3199194.10	40.378116	-104.785011
	13400.00	90.04	89.88	7275.52	6603.70	-3000.23	5932.60	0.00	1381392.26	3199294.09	40.378117	-104.784652
	13500.00	90.04	89.88	7275.45	6697.48	-3000.02	6032.60	0.00	1381393.24	3199394.08	40.378117	-104.784293
	13600.00	90.04	89.88	7275.38	6791.26	-2999.82	6132.60	0.00	1381394.23	3199494.07	40.378118	-104.783934
	13700.00	90.04	89.88	7275.31	6885.04	-2999.62	6232.60	0.00	1381395.22	3199594.06	40.378118	-104.783575
	13800.00	90.04	89.88	7275.24	6978.81	-2999.41	6332.60	0.00	1381396.20	3199694.05	40.378119	-104.783216
	13900.00	90.04	89.88	7275.18	7072.59	-2999.21	6432.60	0.00	1381397.19	3199794.04	40.378119	-104.782857
	14000.00	90.04	89.88	7275.11	7166.37	-2999.00	6532.60	0.00	1381398.18	3199894.03	40.378120	-104.782498
	14100.00	90.04	89.88	7275.04	7260.15	-2998.80	6632.60	0.00	1381399.16	3199994.02	40.378120	-104.782139
	14200.00	90.04	89.88	7274.97	7353.92	-2998.59	6732.60	0.00	1381400.15	3200094.02	40.378121	-104.781780
	14300.00	90.04	89.88	7274.90	7447.70	-2998.39	6832.60	0.00	1381401.14	3200194.01	40.378121	-104.781421
	14400.00	90.04	89.88	7274.83	7541.48	-2998.19	6932.60	0.00	1381402.12	3200294.00	40.378122	-104.781062
	14500.00	90.04	89.88	7274.76	7635.26	-2997.98	7032.60	0.00	1381403.11	3200393.99	40.378122	-104.780703
	14600.00	90.04	89.88	7274.69	7729.03	-2997.78	7132.60	0.00	1381404.10	3200493.98	40.378123	-104.780344
	14700.00	90.04	89.88	7274.63	7822.81	-2997.57	7232.60	0.00	1381405.08	3200593.97	40.378123	-104.779986
	14800.00	90.04	89.88	7274.56	7916.59	-2997.37	7332.60	0.00	1381406.07	3200693.96	40.378124	-104.779627
	14900.00	90.04	89.88	7274.49	8010.36	-2997.17</						

Stugart 24N R2 mdv 10June20 Anti-Collision Summary Report

Analysis Date-24hr Time: June 19, 2020 - 11:53

Client: PDC Energy

Field: CO, Weld County (NAD 83 NZ) - SRC

Structure: PDC Energy 20-05N-66W (Stugart State 6-20 Pad)

Slot: Stugart 24N

Well: Stugart 24N

Borehole: Original Hole

Scan MD Range: 0.00ft ~ 15608.60ft

Analysis Method:

3D Least Distance

Reference Trajectory:

Stugart 24N 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: ISCSA0 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

 HSR-Wiedeman 14-20 GYRO
0' to 7527' - AB (Def Survey)

Fail Major

2580.29	32.81	2578.47	2547.48	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
2580.25	32.81	2578.40	2547.44	72443.28		MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
2579.45	32.81	2576.53	2546.65	2318.17		MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
169.97	53.79	132.85	116.18	4.99		OSF1.50	6560.00	6035.90	OSF<5.00			Enter Alert	
55.37	56.90	16.22	-1.53	1.46		OSF1.50	6840.00	6289.08		OSF<1.50		Enter Minor	
39.10	57.61	-0.38	-18.52	0.99		OSF1.50	6890.00	6334.29				Enter Major	
29.77	57.67	-9.21	-27.90	0.75		OSF1.50	6850.00	6388.54				MinPts	
36.50	57.63	-2.45	-21.12	0.93		OSF1.50	7000.00	6433.75				Exit Major	
55.09	57.48	16.23	-2.39	1.44		OSF1.50	7060.00	6488.00	OSF>1.50			Exit Minor	
190.69	59.68	150.36	131.01	4.88		OSF1.50	7390.00	6784.94	OSF>5.00			Exit Alert	
8027.02	62.36	7984.92	7964.66	198.14		OSF1.50	15608.60	7274.00				TD	

 Stugart 23N R2 mdv 10June20
(Def Plan)

Fail Minor

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	
15.11	12.28	12.88	2.83	11.34		MAS = 3.74 (m)	290.00	290.00				MinPts	
14.23	14.32	4.36	-0.09	1.49		OSF1.50	1420.00	1387.74	OSF<1.50			Enter Minor	
14.21	14.70	4.08	-0.50	1.45		OSF1.50	1440.00	1406.07				MinPt-CtCt	
14.45	15.58	3.76	-1.11	1.39		OSF1.50	1490.00	1451.64				MINPT-O-EQU	
14.56	15.71	3.76	-1.15	1.38		OSF1.50	1500.00	1460.71				MinPt-O-SF	
14.70	15.85	3.81	-1.15	1.38		OSF1.50	1510.00	1469.77				MinPt-O-ADP	
18.62	18.66	5.85	-0.04	1.50		OSF1.50	1720.00	1659.65	OSF>1.50			Exit Minor	
154.79	84.29	98.27	70.50	2.77		OSF1.50	7090.00	6515.12				MinPt-O-SF	
229.52	229.69	76.06	-0.17	1.50		OSF1.50	14040.00	7275.08	OSF<1.50			Enter Minor	
230.24	285.24	39.75	-55.00	1.21		OSF1.50	15608.60	7274.00				MinPts	

 Calvin 1 Blind 0' to 7355' - PR
(Def Survey)

Fail Minor

8386.32	32.81	8384.51	8353.51	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
8386.25	32.81	8384.36	8353.44	104456.11		MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
1440.94	439.42	1145.66	1001.52	4.97		OSF1.50	14100.00	7275.04	OSF<5.00			Enter Alert	
474.84	475.35	157.41	-0.51	1.50		OSF1.50	15380.00	7274.16	OSF<1.50			Enter Minor	
467.54	476.06	149.64	-8.51	1.47		OSF1.50	15480.00	7274.10				MinPts	
473.84	474.12	157.22	-0.28	1.50		OSF1.50	15540.00	7274.05	OSF>1.50			Exit Minor	
489.69	470.70	175.36	18.99	1.56		OSF1.50	15608.60	7274.00				TD	

 Stugart 22N R2 mdv 10June20
(Def Plan)

Warning Alert

30.01	24.20	29.03	5.81	N/A		MAS = 7.38 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	
30.01	24.20	29.03	5.81	N/A		MAS = 7.38 (m)	4.00	4.00				WRP	
30.01	24.20	27.78	5.81	23.31		MAS = 7.38 (m)	290.00	290.00				MinPt-O-SF	
30.01	24.20	27.78	5.81	23.33		MAS = 7.38 (m)	300.00	300.00				MINPT-O-EQU	
28.42	24.20	19.40	4.22	3.42		MAS = 7.38 (m)	1350.00	1323.17				MinPts	
28.72	24.20	19.14	4.52	3.23		MAS = 7.38 (m)	1400.00	1369.36				MINPT-O-EQU	
30.13	24.20	19.85	5.93	3.14		MAS = 7.38 (m)	1470.00	1433.46				MinPt-O-SF	
62.93	24.20	49.48	38.73	4.97		MAS = 7.38 (m)	2120.00	2021.32	OSF>5.00			Exit Alert	
358.07	82.24	302.91	275.83	6.59		OSF1.50	7080.00	6506.08				MinPt-O-SF	
438.04	118.98	358.39	319.06	5.56		OSF1.50	10060.00	7277.82				MinPt-CtCt	
438.04	132.37	349.47	305.67	4.99		OSF1.50	10530.00	7277.50	OSF<5.00			Enter Alert	
438.36	304.34	235.14	134.02	2.16		OSF1.50	15608.60	7274.00				MinPts	

 Stugart 21NA R2 mdv
10June20 (Def Plan)

Warning Alert

45.12	32.81	44.13	12.31	N/A		MAS = 10.00 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	
45.12	32.81	44.13	12.31	N/A		MAS = 10.00 (m)	4.00	4.00				WRP	
45.11	32.81	42.88	12.30	35.49		MAS = 10.00 (m)	290.00	290.00				MinPt-O-SF	
45.11	32.81	42.88	12.30	35.48		MAS = 10.00 (m)	300.00	300.00				MINPT-O-EQU	
43.09	32.81	34.76	10.25	5.73		MAS = 10.00 (m)	1290.00	1267.31				MinPts	
43.32	32.81	34.42	10.51	5.35		MAS = 10.00 (m)	1340.00	1313.89				MINPT-O-EQU	
47.16	32.81	36.85	14.36	4.95		MAS = 10.00 (m)	1480.00	1442.56				MinPt-O-SF	
48.94	32.81	38.31	16.13	4.97		MAS = 10.00 (m)	1514.31	1473.67	CtCt<=15m>15.00			Exit Alert	
49.84	32.81	39.07	17.03	5.00		MAS = 10.00 (m)	1530.00	1487.85	OSF>5.00			Exit Alert	
458.95	77.35	407.06	381.60	9.00		OSF1.50	6820.00	6270.99				MinPt-O-SF	
683.97	206.12	546.23	477.86	4.99		OSF1.50	13330.00	7275.57	OSF<5.00			Enter Alert	
683.97	287.78	491.78	396.19	3.57		OSF1.50	15608.60	7274.00				MinPts	

 Stugart 20N R2 mdv 10June20
(Def Plan)

Warning Alert

60.02	32.81	59.03	27.21	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
60.02	32.81	59.03	27.21	N/A		MAS = 10.00 (m)	4.00	4.00				WRP	
60.01	32.81	57.78	27.21	47.41		MAS = 10.00 (m)	290.00	290.00				MinPt-O-SF	
60.01	32.81	57.78	27.20	47.49		MAS = 10.00 (m)	300.00	300.00				MINPT-O-EQU	
57.60	32.81	50.40	24.79	9.11		MAS = 10.00 (m)	1190.00	1173.22				MinPts	
57.81	32.81	50.18	25.00	8.55		MAS = 10.00 (m)	1230.00	1211.00				MINPT-O-EQU	
64.76	32.81	55.18	31.96	7.41		MAS = 10.00 (m)	1430.00	1396.92				MinPt-O-SF	
694.74	76.69	643.28	618.05	13.75		OSF1.50	6920.00	6361.41				MinPt-O-SF	
879.33	264.75	702.50	614.58	5.00		OSF1.50	14610.00	7274.69	OSF<5.00			Enter Alert	
879.62	300.65	678.86	578.97	4.40		OSF1.50	15608.60	7274.00				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		
Bensler J 29-27D GYRO 0' to 7588' - PR (Def Survey)													
	4247.61	32.81	4245.79	4214.80	N/A	MAS = 10.00 (m)	0.00	0.00					Warning Alert
	4247.55	32.81	4245.67	4214.74	65123.21	MAS = 10.00 (m)	4.00	4.00				Surface	
	4243.64	32.81	4240.60	4210.83	3462.22	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	234.18	74.21	182.89	159.97	4.99	OSF1.50	9200.00	7278.41	OSF<5.00			MinPt-O-SF	
	194.92	82.90	138.00	112.02	3.66	OSF1.50	9330.00	7278.32				Enter Alert	
	195.19	83.46	137.93	111.72	3.63	OSF1.50	9340.00	7278.31				MinPt-CtCt	
	195.96	83.96	138.41	112.00	3.62	OSF1.50	9350.00	7278.31				MinPts	
	272.34	83.46	215.89	188.89	5.00	OSF1.50	9520.00	7278.19	OSF>5.00			MinPt-O-SF	
	6281.76	73.11	6232.49	6208.65	131.74	OSF1.50	15608.60	7274.00				Exit Alert	
												TD	
UPRC 21-13H6 GYRO 0' to 7440' - AB (Def Survey)													
	4656.40	32.81	4654.59	4623.59	N/A	MAS = 10.00 (m)	0.00	0.00					Warning Alert
	4656.31	32.81	4654.40	4623.50	46350.32	MAS = 10.00 (m)	4.00	4.00				Surface	
	4655.17	32.81	4653.10	4622.36	18051.63	MAS = 10.00 (m)	110.00	110.00				MinPt-O-SF	
	4655.38	32.81	4652.64	4622.57	5002.03	MAS = 10.00 (m)	250.00	250.00				MinPts	
	4655.25	32.81	4652.47	4622.45	4766.59	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	367.02	111.46	292.18	255.56	4.99	OSF1.50	11120.00	7277.09	OSF<5.00			MinPt-O-SF	
	325.64	116.66	247.33	208.98	4.22	OSF1.50	11270.00	7276.99				Enter Alert	
	325.17	116.45	247.00	208.72	4.23	OSF1.50	11280.00	7276.98				MinPt-O-SF	
	324.99	116.15	247.03	208.84	4.23	OSF1.50	11290.00	7276.97				MinPts	
	349.83	106.10	278.56	243.73	5.00	OSF1.50	11420.00	7276.88	OSF>5.00			MinPt-CtCt	
	4330.25	59.75	4289.87	4270.49	111.66	OSF1.50	15608.60	7274.00				Exit Alert	
												TD	
Wiedeman 21-15H6 GYRO 0' to 7491' - AB (Def Survey)													
	7053.84	32.81	7052.02	7021.03	N/A	MAS = 10.00 (m)	0.00	0.00					Warning Alert
	7053.76	32.81	7051.85	7020.95	79400.82	MAS = 10.00 (m)	4.00	4.00				Surface	
	7052.04	32.81	7049.29	7019.24	7496.91	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	6809.53	35.75	6584.15	6572.76	290.46	OSF1.50	4740.00	4390.29				MinPt-CtCt	
	6808.63	36.05	6584.03	6572.54	287.49	OSF1.50	4780.00	4426.45				MINPT-O-EOU	
	6808.84	36.35	6584.07	6572.49	285.29	OSF1.50	4810.00	4453.58				MinPt-O-ADP	
	526.33	160.72	418.39	365.61	4.96	OSF1.50	13890.00	7275.18	OSF<5.00			Enter Alert	
	441.30	180.77	320.25	260.53	3.68	OSF1.50	14160.00	7275.00				MinPt-O-SF	
	441.02	180.65	320.05	260.37	3.68	OSF1.50	14170.00	7274.99				MinPts	
	440.97	180.45	320.13	260.52	3.69	OSF1.50	14180.00	7274.98				MinPt-CtCt	
	508.20	154.64	404.57	353.56	4.97	OSF1.50	14430.00	7274.81	OSF>5.00			Exit Alert	
	1497.58	71.67	1449.26	1425.91	32.02	OSF1.50	15608.60	7274.00				TD	
A.J. Gold 22-13 Blind 0' to 7426' - PR (Def Survey)													
	9364.48	32.81	9362.67	9331.67	N/A	MAS = 10.00 (m)	0.00	0.00					Warning Alert
	9364.41	32.81	9362.52	9331.60	118485.11	MAS = 10.00 (m)	4.00	4.00				Surface	
	1467.52	447.13	1167.08	1020.39	4.98	OSF1.50	15250.00	7274.25	OSF<5.00			MinPt-O-SF	
	1163.57	454.89	858.20	708.68	3.87	OSF1.50	15608.60	7274.00				Enter Alert	
												MinPts	
Stugart 19N R2 mdv 10June20 (Def Plan)													
	75.13	32.81	74.14	42.32	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	75.13	32.81	74.14	42.32	N/A	MAS = 10.00 (m)	4.00	4.00				Surface	
	75.12	32.81	72.89	42.31	59.54	MAS = 10.00 (m)	290.00	290.00				WRP	
	75.12	32.81	72.89	42.31	59.66	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	72.58	32.81	66.42	39.77	13.84	MAS = 10.00 (m)	1090.00	1078.02				MINPT-O-EOU	
	72.84	32.81	66.18	40.03	12.66	MAS = 10.00 (m)	1140.00	1125.75				MinPts	
	86.05	32.81	76.77	53.24	10.29	MAS = 10.00 (m)	1420.00	1387.74				MINPT-O-EOU	
	904.28	75.26	853.77	829.02	18.24	OSF1.50	6850.00	6388.54				MinPt-O-SF	
	1095.10	174.65	978.33	920.44	9.45	OSF1.50	11910.00	7276.55				MinPt-O-SF	
	1095.16	305.04	891.47	790.11	5.40	OSF1.50	15608.60	7274.00				MinPt-CtCt	
												MinPts	
Stugart 18N R2 mdv 10June20 (Def Plan)													
	90.03	32.81	89.04	57.22	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	90.03	32.81	89.04	57.22	N/A	MAS = 10.00 (m)	4.00	4.00				Surface	
	90.02	32.81	87.79	57.21	71.50	MAS = 10.00 (m)	290.00	290.00				WRP	
	90.02	32.81	87.79	57.21	71.68	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	87.38	32.81	82.01	54.57	19.70	MAS = 10.00 (m)	1010.00	1001.12				MINPT-O-EOU	
	87.54	32.81	81.76	54.73	18.15	MAS = 10.00 (m)	1050.00	1039.64				MinPts	
	108.73	32.81	99.62	75.92	13.27	MAS = 10.00 (m)	1420.00	1387.74				MINPT-O-EOU	
	1066.45	72.65	1017.69	993.80	22.30	OSF1.50	6870.00	6316.20				MinPt-O-SF	
	1315.85	302.59	1113.80	1013.27	6.54	OSF1.50	15608.60	7274.00				MinPt-O-SF	
												MinPts	
Stugart 12N R2 mdv 10June20 (Def Plan)													
	99.99	32.81	99.01	67.18	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	99.99	32.81	99.01	67.18	N/A	MAS = 10.00 (m)	4.00	4.00				Surface	
	99.93	32.81	97.70	67.13	79.02	MAS = 10.00 (m)	290.00	290.00				WRP	
	99.90	32.81	97.67	67.09	79.17	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	98.42	32.81	96.87	65.61	173.64	MAS = 10.00 (m)	480.00	479.75				MINPT-O-EOU	
	98.41	32.81	96.88	65.60	177.96	MAS = 10.00 (m)	490.00	489.72				MINPT-O-EOU	
	197.08	32.81	190.50	164.27	35.07	MAS = 10.00 (m)	1250.00	1229.82				MinPts	
	2307.27	65.82	2263.06	2241.45	53.38	OSF1.50	7030.00	6460.87				MinPt-O-SF	
	2640.43	305.55	2436.40	2334.88	13.00	OSF1.50	15608.60	7274.00				MinPt-O-SF	
												MinPts	
Stugart 11N R2 mdv 10June20 (Def Plan)													
	101.25	32.81	100.26	68.44	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	101.25	32.81	100.26	68.44	N/A	MAS = 10.00 (m)	4.00	4.00				Surface	
	101.20	32.81	98.95	68.39	79.46	MAS = 10.00 (m)	290.00	290.00				WRP	
	101.17	32.81	98.92	68.36	79.47	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	100.82	32.81	98.92	68.01	108.49	MAS = 10.00 (m)	370.00	369.96				MINPT-O-EOU	
	100.79	32.81	98.93	67.95	113.85	MAS = 10.00 (m)	380.00	379.96				MINPT-O-EOU	
	233.43	32.81	226.76	200.63	40.87	MAS = 10.00 (m)	1260.00	1239.21				MinPts	
	2589.79	67.13	2544.71	2522.66	58.71	OSF1.50	7235.85	6647.00				MinPt-O-SF	
	2858.05	307.70	2652.58	2550.36	13.97	OSF1.50	15608.60	7274.00				MinPt-O-SF	
												MinPts	
Stugart 17C R2 mdv 10June20 (Def Plan)													
	104.89	32.81	103.90	72.08	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	104.89	32.81	103.90	72.08	N/A	MAS = 10.00 (m)	4.00	4.00				Surface	
	104.88	32.81	102.65	72.07	83.44	MAS = 10.00 (m)	290.00	290.00				WRP	
	104.87	32.81	102.65	72.06	83.68	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	102.47	32.81	98.03	69.66	29.36	MAS = 10.00 (m)	910.00	904.18				MINPT-O-EOU	
	102.68	32.81	97.88	69.87	26.68	MAS = 10.00 (m)	950.00	943.06				MinPts	
	133.00	32.81	124.39	100.19	17.31	MAS = 10.00 (m)	1390.00	1360.15				MINPT-O-EOU	
												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		
Stugart 10N R2 mdv 10June20 (Def Plan)	136.86	32.81	127.08	103.05	17.30	MAS = 10.00 (m)	1410.00	1378.56				MinPt-O-SF	
	1326.90	72.74	1278.08	1254.16	27.72	OSF1.50	7020.00	6451.83				MinPt-O-SF	
	1537.65	308.81	1331.45	1228.84	7.45	OSF1.50	15608.60	7274.00				MinPts	
Stugart 10N R2 mdv 10June20 (Def Plan)	104.51	32.81	103.52	71.70	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	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	
	104.51	32.81	102.27	71.71	82.19	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	104.67	32.81	102.37	71.86	78.49	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	240.37	32.81	233.89	207.56	43.56	MAS = 10.00 (m)	1170.00	1154.27				MinPt-O-SF	
	2817.86	67.16	2772.76	2750.70	63.85	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	3078.02	309.14	2871.60	2768.88	14.98	OSF1.50	15608.60	7274.00				MinPts	
Stugart 09C R2 mdv 10June20 (Def Plan)	109.86	32.81	108.87	77.05	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	109.86	32.81	108.87	77.05	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	109.86	32.81	107.63	77.05	87.51	MAS = 10.00 (m)	250.00	250.00				MinPts	
	109.88	32.81	107.63	77.08	85.54	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	239.31	32.81	232.97	206.50	44.53	MAS = 10.00 (m)	1060.00	1049.25				MinPt-O-SF	
	2987.26	65.78	2943.08	2921.48	69.13	OSF1.50	7235.85	6647.00				MinPt-O-SF	
	3297.16	309.11	3090.77	2988.06	16.05	OSF1.50	15608.60	7274.00				MinPts	
Stugart 08N R2 mdv 10June20 (Def Plan)	116.46	32.81	115.48	83.65	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	116.46	32.81	115.48	83.65	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	116.46	32.81	114.23	83.65	92.82	MAS = 10.00 (m)	250.00	250.00				MinPts	
	268.70	32.81	262.26	235.89	49.10	MAS = 10.00 (m)	1060.00	1049.25				MinPt-O-SF	
	3185.31	65.01	3141.64	3120.30	74.63	OSF1.50	7235.85	6647.00				MinPt-O-SF	
	3215.94	65.62	3171.86	3150.32	74.63	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	3515.10	306.82	3310.22	3208.28	17.24	OSF1.50	15608.60	7274.00				MinPts	
Stugart 16N R2 mdv 10June20 (Def Plan)	120.00	32.81	119.01	87.19	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	119.99	32.81	119.01	87.19	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	119.99	32.81	117.77	87.19	95.90	MAS = 10.00 (m)	250.00	250.00				MinPts	
	119.99	32.81	117.76	87.18	95.58	MAS = 10.00 (m)	290.00	290.00				MinPt-O-SF	
	119.99	32.81	117.76	87.18	95.67	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	119.69	32.81	118.25	86.89	259.77	MAS = 10.00 (m)	470.00	469.78				MINPT-O-EOU	
	117.82	32.81	114.08	85.01	42.38	MAS = 10.00 (m)	830.00	826.05				MinPts	
	117.99	32.81	113.91	85.18	37.86	MAS = 10.00 (m)	870.00	865.17				MINPT-O-EOU	
	164.42	32.81	155.71	131.61	21.17	MAS = 10.00 (m)	1420.00	1387.74				MinPt-O-SF	
	1482.09	70.40	1434.83	1411.69	32.01	OSF1.50	6950.00	6388.54				MinPt-O-SF	
	1752.14	305.08	1548.43	1447.06	8.64	OSF1.50	15608.60	7274.00				MinPts	
Stugart 07N R2 mdv 10June20 (Def Plan)	124.86	32.81	123.88	92.05	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	124.86	32.81	123.88	92.05	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	124.86	32.81	122.63	92.05	99.57	MAS = 10.00 (m)	250.00	250.00				MinPts	
	296.23	32.81	289.76	263.43	53.81	MAS = 10.00 (m)	1060.00	1049.25				MinPt-O-SF	
	3413.69	64.88	3370.11	3348.81	80.12	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	3734.84	306.06	3530.45	3428.75	18.35	OSF1.50	15608.60	7274.00				MinPts	
Stugart 15N R2 mdv 10June20 (Def Plan)	134.90	32.81	133.92	102.09	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	134.90	32.81	133.91	102.09	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	134.90	32.81	132.67	102.09	107.90	MAS = 10.00 (m)	250.00	250.00				MinPts	
	134.89	32.81	132.65	102.06	107.54	MAS = 10.00 (m)	290.00	290.00				MinPt-O-SF	
	134.89	32.81	132.65	102.05	107.70	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	132.95	32.81	129.87	100.14	62.98	MAS = 10.00 (m)	750.00	747.47				MinPts	
	133.05	32.81	129.74	100.24	56.73	MAS = 10.00 (m)	780.00	776.98				MINPT-O-EOU	
	196.52	32.81	187.90	163.71	25.63	MAS = 10.00 (m)	1430.00	1396.92				MinPt-O-SF	
	1624.22	67.11	1579.15	1557.11	36.82	OSF1.50	6790.00	6243.87				MinPt-O-SF	
	1971.88	303.39	1769.30	1668.49	9.78	OSF1.50	15608.60	7274.00				MinPts	
Stugart 06N R2 mdv 10June20 (Def Plan)	134.44	32.81	133.46	101.63	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	134.44	32.81	133.46	101.63	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	134.44	32.81	132.21	101.63	107.27	MAS = 10.00 (m)	250.00	250.00				MinPts	
	320.38	32.81	313.89	287.57	58.00	MAS = 10.00 (m)	1060.00	1049.25				MinPt-O-SF	
	3597.22	64.22	3554.08	3533.01	85.31	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	3823.29	67.17	3778.18	3756.12	86.62	OSF1.50	7760.00	7075.70				MinPt-O-SF	
	3953.02	306.42	3748.41	3646.60	19.41	OSF1.50	15608.60	7274.00				MinPts	
Stugart 05NA R2 mdv 10June20 (Def Plan)	144.94	32.81	143.96	112.13	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	144.94	32.81	143.96	112.13	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	144.94	32.81	142.71	112.13	115.71	MAS = 10.00 (m)	250.00	250.00				MinPts	
	331.16	32.81	324.86	298.35	62.05	MAS = 10.00 (m)	1030.00	1020.40				MinPt-O-SF	
	3805.70	63.49	3763.05	3742.21	91.31	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	4177.43	305.46	3973.45	3871.95	20.57	OSF1.50	15608.60	7274.00				MinPts	
Stugart 14N R2 mdv 10June20 (Def Plan)	150.01	32.81	149.02	117.20	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	150.00	32.81	149.02	117.20	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	150.00	32.81	147.76	117.20	120.08	MAS = 10.00 (m)	250.00	250.00				MinPts	
	149.99	32.81	147.76	117.19	119.61	MAS = 10.00 (m)	290.00	290.00				MinPt-O-SF	
	149.99	32.81	147.76	117.18	119.90	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	148.28	32.81	145.90	115.47	105.55	MAS = 10.00 (m)	660.00	658.60				MinPts	
	148.37	32.81	145.78	115.57	91.63	MAS = 10.00 (m)	690.00	688.27				MINPT-O-EOU	
	233.64	32.81	225.13	200.83	30.94	MAS = 10.00 (m)	1440.00	1406.07				MinPt-O-SF	
	252.70	32.81	243.58	219.89	30.95	MAS = 10.00 (m)	1514.31	1473.67				MinPt-O-SF	
	1874.02	67.60	1828.63	1806.42	42.18	OSF1.50	6950.00	6388.54				MinPt-O-SF	
	2190.21	92.17	2128.44	2098.05	36.01	OSF1.50	9320.00	7278.33				MinPt-CICt	
	2190.37	303.94	1987.41	1886.43	10.84	OSF1.50	15608.60	7274.00				MinPts	
Stugart 04N R2 mdv 10June20 (Def Plan)												Pass	

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 13NA R2 mdv 10June20 (Def Plan)	156.17	32.81	155.18	123.36	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	156.16	32.81	155.19	123.35	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	156.16	32.81	153.94	123.35	125.04	MAS = 10.00 (m)	250.00	250.00				MinPts	
	156.19	32.81	153.94	123.36	122.03	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	339.38	32.81	333.21	306.57	65.26	MAS = 10.00 (m)	1010.00	1001.12				MinPt-O-SF	
	3965.19	62.93	3922.91	3902.26	96.00	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	4400.16	75.95	4349.20	4324.21	88.02	OSF1.50	8310.00	7278.30				MinPts	
	4391.63	306.43	4187.02	4085.20	21.56	OSF1.50	15608.60	7274.00				MinPts	
													Pass
	164.91	32.81	163.92	132.10	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
Stugart 03N R2 mdv 10June20 (Def Plan)	164.91	32.81	163.92	132.10	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	164.91	32.81	162.68	132.10	132.08	MAS = 10.00 (m)	250.00	250.00				MinPts	
	164.89	32.81	162.66	132.08	131.63	MAS = 10.00 (m)	290.00	290.00				MinPt-O-SF	
	164.88	32.81	162.66	132.07	131.95	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	163.53	32.81	161.71	130.72	195.96	MAS = 10.00 (m)	580.00	579.27				MinPts	
	163.61	32.81	161.61	130.80	159.48	MAS = 10.00 (m)	610.00	609.05				MINPT-O-EOU	
	288.80	32.81	279.82	255.99	36.02	MAS = 10.00 (m)	1514.31	1473.67				MinPt-O-SF	
	1966.25	63.38	1923.67	1902.87	47.25	OSF1.50	6690.00	6153.45				MinPt-O-SF	
	2416.30	300.68	2216.10	2116.20	12.09	OSF1.50	15608.60	7274.00				MinPts	
													Pass
Stugart 03N R2 mdv 10June20 (Def Plan)	168.01	32.81	167.03	135.20	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	168.01	32.81	167.02	135.20	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	168.01	32.81	165.78	135.20	134.58	MAS = 10.00 (m)	250.00	250.00				MinPts	
	168.04	32.81	165.78	135.23	131.36	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	344.69	32.81	338.66	311.89	68.19	MAS = 10.00 (m)	990.00	981.80				MinPt-O-SF	
	4125.19	62.35	4063.29	4062.84	100.81	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	4615.06	66.10	4570.67	4548.96	106.26	OSF1.50	8520.00	7278.88				MinPt-O-SF	
	4610.02	306.96	4405.05	4303.05	22.59	OSF1.50	15608.60	7274.00				MinPts	
													Pass
	180.35	32.81	179.36	147.54	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
Stugart State 02C R2 mdv 10June20 (Def Plan)	180.34	32.81	179.36	147.53	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	180.34	32.81	178.12	147.53	144.52	MAS = 10.00 (m)	250.00	250.00				MinPts	
	180.37	32.81	178.12	147.56	141.07	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	342.49	32.81	336.67	309.68	70.58	MAS = 10.00 (m)	960.00	952.75				MinPt-O-SF	
	4267.17	61.81	4225.64	4205.37	105.21	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	4765.77	65.28	4721.92	4700.49	111.16	OSF1.50	8510.00	7278.89				MinPt-O-SF	
	4794.20	65.63	4750.12	4728.57	111.21	OSF1.50	8640.00	7278.80				MinPt-O-SF	
	4828.55	66.11	4784.15	4762.44	111.19	OSF1.50	8780.00	7278.70				MinPt-O-SF	
	4830.39	307.58	4625.02	4522.82	23.63	OSF1.50	15608.60	7274.00				MinPts	
													Pass
Stugart State 01N R2 mdv 10June20 (Def Plan)	193.00	32.81	192.01	160.19	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	192.99	32.81	192.01	160.19	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	192.99	32.81	191.08	160.19	207.16	MAS = 10.00 (m)	200.00	200.00				MinPts	
	193.05	32.81	191.02	160.24	182.89	MAS = 10.00 (m)	220.00	220.00				MINPT-O-EOU	
	374.08	32.81	368.11	341.27	74.89	MAS = 10.00 (m)	980.00	972.13				MinPt-O-SF	
	4462.19	61.05	4421.16	4401.14	111.41	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	4974.44	64.22	4931.30	4910.22	117.99	OSF1.50	8510.00	7278.89				MinPt-O-SF	
	5003.98	64.56	4960.61	4939.42	118.04	OSF1.50	8650.00	7278.79				MinPt-O-SF	
	5037.24	65.01	4993.57	4972.23	118.00	OSF1.50	8790.00	7278.69				MinPt-O-SF	
	5048.62	307.43	4843.34	4741.19	24.71	OSF1.50	15608.60	7274.00				MinPts	
													Pass
Stugart 6-20 Blind 0' to 7610' - PR (Def Survey)	384.04	32.81	382.22	351.23	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	383.91	32.81	381.98	351.10	3290.58	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	383.79	32.81	373.42	350.96	44.63	MAS = 10.00 (m)	250.00	250.00				MinPts	
	386.23	32.81	371.02	353.42	28.69	MAS = 10.00 (m)	370.00	369.96				MINPT-O-EOU	
	643.75	87.13	585.06	556.62	11.28	OSF1.50	1490.00	1451.64				MinPt-O-SF	
	8910.63	439.58	8617.04	8471.04	30.51	OSF1.50	15608.60	7274.00				TD	
													Pass
Stugart 22-20 MWD 0' to 7736' - PR (Def Survey)	385.17	32.81	383.36	352.36	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	385.17	32.81	383.36	352.36	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	385.17	32.81	382.26	352.36	349.94	MAS = 10.00 (m)	250.00	250.00				MinPts	
	385.18	32.81	382.25	352.38	341.44	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	470.50	32.81	464.15	437.69	103.24	MAS = 10.00 (m)	970.00	962.44				MinPt-O-SF	
	731.38	32.81	720.65	698.57	79.95	MAS = 10.00 (m)	1900.00	1822.40				MinPt-O-SF	
	844.84	32.81	832.93	812.03	81.87	MAS = 10.00 (m)	2340.00	2220.24				MinPt-O-SF	
	1700.41	51.90	1665.27	1648.51	50.67	OSF1.50	5730.00	5285.43				MinPt-O-SF	
	9103.76	75.05	9053.19	9028.71	185.90	OSF1.50	15608.60	7274.00				TD	
													Pass
HSR-Wiedeman 15-20 GYRO 0' to 7527' - AB (Def Survey)	2730.20	32.81	2728.39	2697.40	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	2730.14	32.81	2728.25	2697.33	36913.33	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	2729.77	32.81	2727.86	2696.97	26681.86	MAS = 10.00 (m)	50.00	50.00				MinPts	
	2729.82	32.81	2727.83	2697.02	15160.58	MAS = 10.00 (m)	80.00	80.00				MINPT-O-EOU	
	2732.00	32.81	2728.98	2699.19	2272.64	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	2730.45	32.81	2727.36	2697.64	2134.92	MAS = 10.00 (m)	390.00	389.94				MinPt-O-SF	
	2727.04	32.81	2723.89	2694.23	2041.86	MAS = 10.00 (m)	460.00	459.81				MinPt-O-SF	
	999.51	54.69	962.51	944.82	28.21	OSF1.50	6810.00	6261.95				MinPt-CICt	
	999.60	54.93	962.45	944.68	28.07	OSF1.50	6840.00	6289.08				MINPT-O-EOU	
	999.67	55.01	962.46	944.66	28.03	OSF1.50	6850.00	6298.12				MinPt-O-ADP	
	483.87	70.26	436.48	413.58	10.53	OSF1.50	8610.00	7278.82				MinPts	
UPRC 21-14H6 GYRO 0' to 7418' - AB (Def Survey)	7010.40	61.97	6968.55	6948.42	174.14	OSF1.50	15608.60	7274.00				TD	
													Pass
	5809.69	32.81	5807.88	5776.88	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5809.61	32.81	5807.70	5776.80	59939.19	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	5807.97	32.81	5805.18	5775.16	5976.03	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	5576.18	32.81	5563.21	5543.38	493.71	MAS = 10.00 (m)	2150.00	2048.45				MinPt-O-SF	
	511.12	151.86	409.35	359.26	5.09	OSF1.50	12740.00	7275.97				MinPt-O-SF	
	510.94	151.74	409.24	359.20	5.09	OSF1.50	12750.00	7275.97				MinPts	
	2898.91	59.75	2858.54	2839.16	74.74	OSF1.50	15608.60	7274.00				TD	
													Pass

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		
Lundvall 11-20 MWD 0' to 7810' - PR (Def Survey)													
	2299.71	32.81	2297.89	2266.90	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	2299.68	32.81	2297.85	2266.88	119022.81	MAS = 10.00 (m)	4.00	4.00				Surface	
	2205.52	32.81	2198.69	2172.71	441.46	MAS = 10.00 (m)	1020.00	1010.76				MinPt-O-SF	
	518.70	43.62	489.09	475.08	18.46	OSF1.50	4950.00	4580.17				MinPt-CiCt	
	518.80	43.77	489.06	475.03	18.40	OSF1.50	4960.00	4589.21				MinPts	
	527.86	45.37	497.07	482.48	18.03	OSF1.50	5080.00	4697.71				MinPt-O-SF	
	1191.91	58.66	1152.27	1133.25	31.29	OSF1.50	6530.00	6008.78				MinPt-O-SF	
	1445.60	63.75	1402.57	1381.85	34.85	OSF1.50	7000.00	6433.75				MinPt-O-SF	
	8338.81	73.76	8289.10	8265.05	173.32	OSF1.50	15608.60	7274.00				TD	
HSR-Wiedeman 16-20 GYRO 0' to 7501' - AB (Def Survey)													
	3591.93	32.81	3590.12	3559.12	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	3591.90	32.81	3590.07	3559.10	142028.40	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3590.95	32.81	3587.95	3558.14	3018.91	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	2901.00	56.67	2462.67	2444.32	68.10	OSF1.50	6840.00	6289.08				MinPt-CiCt	
	2501.19	57.24	2462.49	2443.94	67.39	OSF1.50	6900.00	6343.33				MINPT-O-EOU	
	2501.50	57.62	2462.55	2443.88	66.94	OSF1.50	6940.00	6379.49				MinPt-O-ADP	
	534.06	91.02	472.84	443.04	8.93	OSF1.50	10090.00	7277.80				MinPt-O-SF	
	533.43	90.81	472.36	442.62	8.94	OSF1.50	10110.00	7277.78				MinPts	
	533.39	90.67	472.41	442.72	8.96	OSF1.50	10120.00	7277.78				MinPt-CiCt	
	5517.25	59.80	5476.85	5457.45	142.17	OSF1.50	15608.60	7274.00				TD	
Wiedeman 25-20 GYRO 0' to 7638' - AB (Def Survey)													
	1755.57	32.81	1753.76	1722.76	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1755.48	32.81	1753.56	1722.67	17388.08	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	925.35	32.81	904.47	892.55	47.95	MAS = 10.00 (m)	3210.00	3006.88				MinPts	
	925.36	32.81	904.43	892.55	47.83	MAS = 10.00 (m)	3220.00	3015.93				MINPT-O-EOU	
	975.36	34.37	951.91	940.99	44.58	OSF1.50	3740.00	3486.10				MinPt-O-SF	
	1076.81	37.36	1051.37	1039.45	45.11	OSF1.50	4150.00	3856.82				MinPt-O-SF	
	1124.18	38.95	1097.68	1085.23	45.09	OSF1.50	4310.00	4001.49				MinPt-O-SF	
	1359.63	44.96	1329.12	1314.67	46.99	OSF1.50	4960.00	4589.21				MinPt-O-SF	
	1432.37	46.81	1400.63	1385.57	47.46	OSF1.50	5150.00	4761.00				MinPt-O-SF	
	2520.42	70.84	2472.66	2449.58	54.57	OSF1.50	8780.00	7278.70				MinPt-O-SF	
	2529.72	71.10	2481.79	2458.63	54.57	OSF1.50	8820.00	7278.67				MinPt-O-SF	
	7792.65	80.70	7738.32	7711.95	147.75	OSF1.50	15608.60	7274.00				TD	
Wiedeman R J 20-13 GYRO 0' to 7980' - FA (Def Survey)													
	2311.19	32.81	2309.38	2278.39	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	2311.17	32.81	2309.33	2278.36	97975.35	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	2310.21	32.81	2307.35	2277.40	2201.03	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	1088.10	256.60	916.50	831.50	6.39	OSF1.50	5610.00	5176.93				MinPt-CiCt	
	1092.03	268.17	912.71	823.85	6.14	OSF1.50	5820.00	5366.81				MINPT-O-EOU	
	1097.06	274.23	913.70	822.83	6.03	OSF1.50	5930.00	5466.27				MinPt-O-ADP	
	1236.78	331.22	1015.43	905.55	5.62	OSF1.50	6970.00	6406.62				MinPt-O-SF	
	9156.48	383.38	8900.36	8773.10	35.97	OSF1.50	15608.60	7274.00				TD	
HSR-Wiedeman 10-20 GYRO 0' to 7535' - AB (Def Survey)													
	1632.82	32.81	1631.00	1600.01	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1632.71	32.81	1630.79	1599.90	14306.32	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1631.17	32.81	1628.28	1598.36	1513.91	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	1094.41	32.81	1074.49	1061.60	59.67	MAS = 10.00 (m)	3790.00	3531.31				MinPts	
	1094.43	32.81	1074.45	1061.63	59.46	MAS = 10.00 (m)	3810.00	3549.40				MINPT-O-EOU	
	1483.93	47.00	1452.07	1436.93	48.99	OSF1.50	6060.00	5583.81				MinPt-O-SF	
	1554.86	49.19	1521.53	1505.67	48.98	OSF1.50	6310.00	5809.86				MinPt-O-SF	
	1619.80	51.18	1585.15	1568.62	48.98	OSF1.50	6530.00	6008.78				MinPt-O-SF	
	1889.59	62.93	1846.10	1825.66	46.15	OSF1.50	8610.00	7278.82				MinPt-CiCt	
	1988.61	63.01	1846.09	1825.61	46.10	OSF1.50	8620.00	7278.81				MinPts	
	1918.74	65.17	1874.76	1853.57	45.24	OSF1.50	8950.00	7278.58				MinPt-O-SF	
	7247.52	66.13	7202.89	7181.38	168.43	OSF1.50	15608.60	7274.00				TD	
Lundvall 12-20 MWD 0' to 7703' - PR (Def Survey)													
	2281.45	32.81	2279.64	2248.64	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	2281.43	32.81	2279.60	2248.62	119068.08	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1226.09	35.47	1201.87	1190.61	54.35	OSF1.50	4330.00	4019.57				MinPt-CiCt	
	1226.10	35.57	1201.82	1190.52	54.18	OSF1.50	4340.00	4028.61				MINPT-O-EOU	
	1226.16	35.67	1201.83	1190.48	54.01	OSF1.50	4350.00	4037.66				MinPt-O-ADP	
	1291.48	40.18	1264.16	1251.30	50.16	OSF1.50	4890.00	4525.92				MinPt-O-SF	
	1360.96	42.06	1332.39	1318.90	50.40	OSF1.50	5160.00	4770.05				MinPt-O-SF	
	1515.82	44.79	1485.43	1471.04	52.60	OSF1.50	5590.00	5158.84				MinPt-O-SF	
	1634.51	46.44	1603.02	1588.07	54.63	OSF1.50	5860.00	5402.97				MinPt-O-SF	
	1813.34	49.00	1780.14	1764.34	57.33	OSF1.50	6220.00	5728.48				MinPt-O-SF	
	2083.51	54.38	2046.72	2029.13	59.17	OSF1.50	6730.00	6189.62				MinPt-O-SF	
	2187.34	56.29	2149.28	2131.05	59.95	OSF1.50	6930.00	6370.45				MinPt-O-SF	
	2292.73	60.17	2252.08	2232.56	58.68	OSF1.50	7140.00	6560.33				MinPt-O-SF	
	2354.48	62.63	2312.19	2291.85	57.84	OSF1.50	7280.00	6686.86				MinPt-O-SF	
	2514.09	65.43	2469.93	2448.65	59.04	OSF1.50	7580.00	6944.55				MinPt-O-SF	
	9820.97	69.38	9774.19	9751.60	217.34	OSF1.50	15608.60	7274.00				TD	
Barnett 5-20 Blind 0' to 7622' - PR (Def Survey)													
	1275.49	32.81	1272.99	1242.68	1874.89	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1275.49	32.81	1272.91	1242.68	1678.36	MAS = 10.00 (m)	4.00	4.00				WRP	
	1275.49	32.81	1264.29	1242.69	135.75	MAS = 10.00 (m)	250.00	250.00				MinPts	
	1286.62	57.35	1247.79	1229.28	34.71	OSF1.50	950.00	943.06				MINPT-O-EOU	
	1294.34	66.66	1249.30	1227.68	29.90	OSF1.50	1110.00	1097.14				MinPt-O-ADP	
	3135.90	405.70	2864.90	2730.21	11.63	OSF1.50	7290.00	6695.87				MinPt-O-SF	
	9896.13	440.53	9601.91	9455.60	33.81	OSF1.50	15608.60	7274.00				TD	
SW Greeley 31-20 MWD 0' to 7695' - PR (Def Survey)													
	1307.08	32.81	1305.19	1274.27	16568.40	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1307.08	32.81	1305.18	1274.27	14874.25	MAS = 10.00 (m)	4.00	4.00				WRP	
	1306.78	32.81	1303.57	1273.97	935.73	MAS = 10.00 (m)	300.00	300.00				MinPts	
	1306.85	32.81	1303.65	1274.04	878.56	MAS = 10.00 (m)	360.00	359.97				MINPT-O-EOU	
	1468.22	32.81	1455.55	1435.41	132.49	MAS = 10.00 (m)	1900.00	1822.40				MinPt-O-SF	
	1754.22	32.81	1740.88	1721.41	149.30	MAS = 10.00 (m)	2710.00	2554.79				MinPt-O-SF	
	1967.28	32.81	1952.48	1934.47	149.01	MAS = 10.00 (m)	3190.00	2988.80				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		
Stugart 3-20 Blind 0' to 7580' - PR (Def Survey)						MAS = 10.00 (m)	3260.00	3052.09				MinPt-O-SF	Pass
	2000.60	32.81	1985.58	1967.79	148.97	MAS = 10.00 (m)	3460.00	3232.93				MinPt-O-SF	
	2099.51	32.81	2083.69	2066.70	147.61	MAS = 10.00 (m)	4830.00	4471.66				MinPt-O-SF	
	2789.59	34.12	2766.31	2755.47	128.63	OSF1.50	7380.00	6776.14				MinPt-O-SF	
	4015.16	62.20	3973.16	3952.96	99.35	OSF1.50	15608.60	7274.00				TD	
	10645.20	81.77	10590.16	10563.43	199.16	OSF1.50							
Wiedeman 24-20 GYRO 0' to 7660' - AB (Def Survey)						MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1315.08	32.81	1313.24	1282.27	49594.97	MAS = 10.00 (m)	4.00	4.00				WRP	
	1315.08	32.81	1313.14	1282.27	9998.19	MAS = 10.00 (m)	250.00	250.00				MinPts	
	1315.08	32.81	1304.04	1282.27	142.22	MAS = 10.00 (m)	370.00	369.96				MINPT-O-EQU	
	1317.55	32.81	1301.66	1284.74	93.49	MAS = 10.00 (m)	7930.00	7174.04				MinPt-O-SF	
	4276.55	432.76	3987.51	3843.80	14.87	OSF1.50	15608.60					TD	
	9053.06	444.01	8756.52	8609.05	30.69	OSF1.50							
Wiedeman 20-20 GYRO 0' to 7542' - AB (Def Survey)	1659.94	32.81	1658.13	1627.13	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1659.84	32.81	1657.92	1627.03	15155.62	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1337.95	32.81	1322.62	1305.14	97.39	MAS = 10.00 (m)	2480.00	2346.83				MinPts	
	1338.00	32.81	1322.59	1305.19	96.78	MAS = 10.00 (m)	2500.00	2364.91				MINPT-O-EQU	
	1789.26	37.44	1763.76	1751.82	74.82	OSF1.50	4480.00	4155.20				MinPt-O-SF	
	2139.10	43.95	2109.26	2095.14	75.71	OSF1.50	5240.00	4842.38				MinPt-O-SF	
	2289.67	51.07	2255.09	2238.61	69.39	OSF1.50	5670.00	5231.18				MinPt-O-SF	
	2399.25	53.39	2363.12	2345.86	69.45	OSF1.50	6080.00	5601.90				MinPt-O-SF	
	2437.73	54.20	2401.06	2383.53	69.47	OSF1.50	6220.00	5728.48				MinPt-O-SF	
	2635.68	59.02	2595.80	2576.67	68.82	OSF1.50	6910.00	6352.37				MinPt-O-SF	
	2735.94	61.24	2694.58	2674.71	68.79	OSF1.50	7235.85	6647.00				MinPt-O-SF	
	2754.68	61.64	2713.05	2693.04	68.79	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	2464.89	77.12	2432.94	2407.77	49.33	OSF1.50	9280.00	7278.36				MinPt-CICt	
	2484.97	77.35	2432.85	2407.63	49.18	OSF1.50	9300.00	7278.34				MINPT-O-EQU	
	2485.08	77.47	2432.90	2407.61	49.11	OSF1.50	9310.00	7278.34				MinPt-O-SF	
	2571.31	83.86	2514.87	2487.46	46.86	OSF1.50	9940.00	7277.90				MinPt-O-ADP	
	6799.70	84.99	6742.51	6714.72	122.29	OSF1.50	15608.60	7274.00				TD	
HSR-Wiedeman 9-20 GYRO 0' to 7473' - AB (Def Survey)	2412.57	32.81	2410.76	2379.76	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	2412.47	32.81	2410.56	2379.67	23292.24	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1507.95	38.50	1481.75	1469.46	61.26	OSF1.50	4820.00	4462.62				MinPt-CICt	
	1508.07	38.85	1481.64	1469.22	60.67	OSF1.50	4870.00	4507.83				MINPT-O-EQU	
	1508.19	38.99	1481.66	1469.20	60.44	OSF1.50	4890.00	4525.92				MinPt-O-ADP	
	1803.80	59.97	1763.28	1743.82	46.31	OSF1.50	7235.85	6647.00				MinPt-O-SF	
	1816.84	60.45	1776.00	1756.39	46.27	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	1390.79	69.56	1343.88	1321.23	30.66	OSF1.50	9060.00	7278.51				MinPt-CICt	
	1390.80	69.63	1343.84	1321.16	30.63	OSF1.50	9070.00	7278.50				MinPts	
	1400.62	70.66	1352.98	1329.96	30.39	OSF1.50	9230.00	7278.39				MinPt-O-SF	
	6690.46	64.27	6647.07	6626.19	160.10	OSF1.50	15608.60	7274.00				TD	
Wiedeman 40-20 GYRO 0' to 7935' - AB (Def Survey)	1777.53	32.81	1775.71	1744.72	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1777.43	32.81	1775.51	1744.62	16956.34	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1773.96	32.81	1770.77	1741.15	1287.91	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	1667.11	32.81	1653.60	1634.30	139.89	MAS = 10.00 (m)	1910.00	1831.44				MinPts	
	2081.94	32.81	2060.80	2049.13	106.49	MAS = 10.00 (m)	3810.00	3549.40				MinPt-O-SF	
	2355.44	34.93	2331.62	2320.51	105.96	OSF1.50	4420.00	4100.95				MinPt-O-SF	
	2536.22	37.19	2510.90	2499.04	106.84	OSF1.50	4780.00	4426.45				MinPt-O-SF	
	2822.02	42.78	2792.96	2779.24	102.74	OSF1.50	5330.00	4923.76				MinPt-O-SF	
	3288.68	51.76	3253.64	3236.92	98.31	OSF1.50	6190.00	5701.36				MinPt-O-SF	
	3457.13	55.24	3419.77	3401.89	96.65	OSF1.50	6520.00	5999.74				MinPt-O-SF	
	3785.34	70.40	3737.87	3714.94	82.49	OSF1.50	7230.00	6641.71				MinPt-O-ADP	
	2416.94	125.06	2333.03	2291.88	29.35	OSF1.50	10780.00	7277.32				MinPt-CICt	
UPV 21-11H6 Blind 0' to 7440' - AB (Def Survey)	2417.05	125.36	2332.92	2291.66	29.27	OSF1.50	10800.00	7277.31				MINPT-O-EQU	Pass
	2417.33	125.72	2332.98	2291.61	29.20	OSF1.50	10820.00	7277.30				MinPt-O-ADP	
	2459.05	131.04	2371.16	2328.01	28.44	OSF1.50	11230.00	7277.01				MinPt-O-SF	
	5400.59	116.06	5322.68	5284.53	70.76	OSF1.50	15608.60	7274.00				TD	
Hurst 7-20 MWD 0' to 7650' - PR (Def Survey)	1753.22	32.81	1751.40	1720.41	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1753.18	32.81	1751.33	1720.37	46294.37	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1753.12	32.81	1750.11	1720.31	1464.93	MAS = 10.00 (m)	250.00	250.00				MinPts	
	1753.16	32.81	1750.09	1720.35	1392.71	MAS = 10.00 (m)	270.00	270.00				MINPT-O-EQU	
	1804.41	32.81	1798.19	1771.60	408.83	MAS = 10.00 (m)	970.00	962.44				MinPt-O-SF	
	1813.46	32.81	1807.28	1780.65	415.07	MAS = 10.00 (m)	1040.00	1030.03				MinPt-O-SF	
	1913.49	32.81	1901.26	1880.68	180.05	MAS = 10.00 (m)	1900.00	1822.40				MinPt-O-SF	
	3085.12	59.93	3044.63	3025.19	79.39	OSF1.50	7120.00	6542.25				MinPt-O-SF	
	3129.60	60.75	3088.57	3068.85	79.33	OSF1.50	7235.85	6647.00				MinPt-O-SF	
	3153.51	61.18	3112.18	3092.33	79.35	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	3231.50	62.52	3189.29	3168.98	79.54	OSF1.50	7580.00	6944.55				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		
Hurst 8-20 MWD 0' to 7840' - PR (Def Survey)	3235.08	62.59	3192.82	3172.49	79.59	OSF1.50	7630.00	6960.26				MinPt-O-SF	Pass
	3199.55	69.76	3152.51	3129.79	70.38	OSF1.50	8800.00	7278.69				MinPt-CtCt	
	3199.60	69.97	3152.42	3129.63	70.17	OSF1.50	8820.00	7278.67				MINPT-O-EOU	
	3199.67	70.07	3152.43	3129.60	70.07	OSF1.50	8830.00	7278.67				MinPt-O-ADP	
	3445.21	82.51	3389.67	3362.70	63.88	OSF1.50	10080.00	7277.81				MinPt-O-SF	
	3456.45	82.77	3400.73	3373.68	63.85	OSF1.50	10110.00	7277.78				MinPt-O-SF	
	7519.91	95.46	7455.74	7424.45	120.16	OSF1.50	15608.60	7274.00				TD	
Greeley 21-20 Blind 0' to 7619' - PR (Def Survey)	1774.87	32.81	1773.06	1742.07	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1774.84	32.81	1772.99	1742.03	48884.61	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1772.95	32.81	1769.96	1740.15	1528.63	MAS = 10.00 (m)	280.00	280.00				MinPts	
	1772.96	32.81	1769.97	1740.15	1510.80	MAS = 10.00 (m)	290.00	290.00				MINPT-O-EOU	
	1772.98	32.81	1769.99	1740.18	1493.17	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	1773.20	32.81	1770.19	1740.39	1491.40	MAS = 10.00 (m)	330.00	329.99				MinPt-O-SF	
	2121.00	32.81	2105.76	2088.19	155.42	MAS = 10.00 (m)	1900.00	1822.40				MinPt-O-SF	
	3708.61	70.38	3661.15	3638.23	80.85	OSF1.50	6840.00	6289.08				MinPt-O-SF	
	3747.52	71.23	3699.50	3676.29	80.70	OSF1.50	6960.00	6397.58				MinPt-O-SF	
	3823.99	72.77	3774.94	3751.22	80.57	OSF1.50	7190.00	6605.54				MinPt-O-SF	
	3859.83	73.28	3810.44	3786.54	80.74	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	3906.95	73.73	3857.27	3833.23	81.22	OSF1.50	7570.00	6936.60				MinPt-O-SF	
	3347.54	93.18	3284.88	3254.36	54.81	OSF1.50	10000.00	7277.86				MinPt-CtCt	
	3347.67	93.54	3284.79	3254.14	54.59	OSF1.50	10030.00	7277.84				MINPT-O-EOU	
	3347.78	93.66	3284.81	3254.12	54.53	OSF1.50	10040.00	7277.83				MinPt-O-ADP	
	3499.43	103.79	3429.70	3395.63	51.34	OSF1.50	11020.00	7277.16				MinPt-O-SF	
	6524.86	113.35	6448.75	6411.50	87.56	OSF1.50	15608.60	7274.00				TD	
Greeley 21-20 MWD 0' to 7619' - PR (Def Survey)	1795.56	32.81	1793.75	1762.75	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1795.53	32.81	1793.67	1762.72	47296.40	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1795.46	32.81	1785.90	1762.65	231.47	MAS = 10.00 (m)	250.00	250.00				MinPts	
	1799.49	32.81	1781.96	1766.68	114.48	MAS = 10.00 (m)	450.00	449.84				MINPT-O-EOU	
	4127.94	438.73	3834.92	3689.21	14.16	OSF1.50	8880.00	7278.63				MinPts	
	4127.95	438.74	3834.92	3689.21	14.16	OSF1.50	8890.00	7278.62				MinPt-O-ADP	
	4128.37	438.82	3835.29	3689.56	14.16	OSF1.50	8940.00	7278.59				MinPt-O-SF	
	7893.62	444.92	7596.47	7448.70	26.70	OSF1.50	15608.60	7274.00				TD	
Greeley 21-20 MWD 0' to 7619' - PR (Def Survey)	1796.03	32.81	1794.22	1763.22	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1796.03	32.81	1794.21	1763.22	709842.04	MAS = 10.00 (m)	4.00	4.00				WRP	
	1796.03	32.81	1793.14	1763.22	1665.00	MAS = 10.00 (m)	250.00	250.00				MinPts	
	1796.04	32.81	1793.12	1763.23	1625.27	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	1850.51	32.81	1844.57	1817.70	447.80	MAS = 10.00 (m)	990.00	981.80				MinPt-O-SF	
	1965.82	32.81	1953.73	1933.01	187.39	MAS = 10.00 (m)	1900.00	1822.40				MinPt-O-SF	
	1993.08	32.81	1980.84	1960.27	187.37	MAS = 10.00 (m)	2070.00	1976.11				MinPt-O-SF	
	3615.58	61.42	3574.10	3554.16	90.62	OSF1.50	7390.00	6784.94				MinPt-O-SF	
	3661.46	62.41	3619.32	3599.06	90.29	OSF1.50	7530.00	6904.24				MinPt-O-SF	
	3726.25	63.32	3683.50	3662.93	90.53	OSF1.50	7790.00	7095.04				MinPt-O-SF	
	3757.85	63.87	3714.73	3693.98	90.49	OSF1.50	7980.00	7197.38				MinPt-O-SF	
	4195.56	80.17	4141.59	4115.40	80.08	OSF1.50	10090.00	7277.80				MinPt-O-SF	
	4212.98	80.49	4158.78	4132.49	80.07	OSF1.50	10130.00	7277.77				MinPt-O-SF	
	8248.66	99.01	8182.12	8149.65	127.01	OSF1.50	15608.60	7274.00				TD	
Greeley 17-20 MWD 0' to 7675' - PR (Def Survey)	1816.82	32.81	1815.01	1784.01	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1816.81	32.81	1815.00	1784.00	726376.03	MAS = 10.00 (m)	4.00	4.00				WRP	
	1816.81	32.81	1813.92	1784.00	1683.91	MAS = 10.00 (m)	250.00	250.00				MinPts	
	1816.82	32.81	1813.91	1784.01	1643.71	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	1857.75	32.81	1851.99	1824.95	469.38	MAS = 10.00 (m)	880.00	874.93				MinPt-O-SF	
	2108.20	32.81	2095.82	2075.40	195.47	MAS = 10.00 (m)	1900.00	1822.40				MinPt-O-SF	
	2167.12	32.81	2154.61	2134.31	198.44	MAS = 10.00 (m)	2080.00	1985.15				MinPt-O-SF	
	4056.79	61.71	4015.11	3995.07	101.19	OSF1.50	7250.00	6659.79				MinPt-O-SF	
	3890.83	78.40	3838.03	3812.43	75.97	OSF1.50	9560.00	7278.16				MinPt-CtCt	
	3890.97	78.81	3837.90	3812.16	75.57	OSF1.50	9590.00	7278.14				MINPT-O-EOU	
	3891.19	79.08	3837.94	3812.11	75.30	OSF1.50	9610.00	7278.13				MinPt-O-ADP	
	4250.68	99.32	4183.93	4151.36	66.23	OSF1.50	11270.00	7276.99				MinPt-O-SF	
	7191.14	115.04	7113.91	7076.10	95.07	OSF1.50	15608.60	7274.00				TD	
Greeley 27-20 GYRO 0' to 7712' - PR (Def Survey)	1838.37	32.81	1836.55	1805.56	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1838.33	32.81	1836.49	1805.52	54643.29	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1837.94	32.81	1835.40	1805.13	2542.17	MAS = 10.00 (m)	190.00	190.00				MinPts	
	1837.99	32.81	1835.21	1805.18	1894.05	MAS = 10.00 (m)	250.00	250.00				MinPts	
	2197.04	32.81	2185.38	2164.24	218.25	MAS = 10.00 (m)	1900.00	1822.40				MinPt-O-SF	
	4409.33	43.77	4379.61	4365.56	156.81	OSF1.50	5850.00	5393.93				MinPt-O-SF	
	5212.67	80.63	5158.28	5131.94	98.91	OSF1.50	9350.00	7278.31				MinPt-CtCt	
	5212.73	81.13	5158.11	5131.60	98.29	OSF1.50	9390.00	7278.28				MINPT-O-EOU	
	5213.05	81.51	5158.18	5131.54	97.83	OSF1.50	9420.00	7278.26				MinPt-O-ADP	
	5980.03	117.33	5901.28	5862.71	77.49	OSF1.50	12280.00	7276.29				MinPt-O-SF	
	8145.61	136.18	8054.29	8009.44	90.78	OSF1.50	15608.60	7274.00				TD	
SW Greeley 18-20 MWD 0' to 7700' - PR (Def Survey)	1845.77	32.81	1843.89	1812.96	26551.67	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1845.77	32.81	1843.88	1812.96	23539.57	MAS = 10.00 (m)	4.00	4.00				WRP	
	1845.77	32.81	1842.74	1812.96	1519.18	MAS = 10.00 (m)	250.00	250.00				MinPts	
	1845.78	32.81	1842.72	1812.97	1481.17	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	2156.81	32.81	2145.42	2124.00	220.24	MAS = 10.00 (m)	1900.00	1822.40				MinPt-O-SF	
	2242.26	32.81	2230.51	2209.46	220.67	MAS = 10.00 (m)	2160.00	2057.49				MinPt-O-SF	
	3760.76	62.16	3718.78	3698.59	93.11	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	9689.19	90.47	9628.34	9598.72	163.53	OSF1.50	15608.60	7274.00				TD	
UPRC 21-12H6 Blind 0' to 7502' - AB (Def Survey)	4209.47	32.81	4207.66	4176.66	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	4209.38	32.81	4207.48	4176.58	44844.19	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3971.04	223.96	3821.20	3747.08	26.78	OSF1.50	4130.00	3838.73				MinPt-CtCt	
	3985.55	267.62	3806										

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		
Barnett 1-20 GYRO 0' to 7625' - PR (Def Survey)													
	1878.59	32.81	1876.69	1845.78	22521.98	MAS = 10.00 (m)	0.00	0.00				Pass	
	1878.59	32.81	1876.68	1845.78	19936.88	MAS = 10.00 (m)	4.00	4.00				MinPts	
	1878.70	32.81	1876.69	1845.89	7850.95	MAS = 10.00 (m)	50.00	50.00				WRP	
	1879.46	32.81	1876.35	1846.65	1487.62	MAS = 10.00 (m)	250.00	250.00				MINPT-O-EOU	
	1879.54	32.81	1876.43	1846.73	1446.49	MAS = 10.00 (m)	270.00	270.00				MinPt-O-SF	
	2228.94	32.81	2217.59	2196.13	228.63	MAS = 10.00 (m)	1900.00	1822.40				MinPt-O-SF	
	4381.61	59.50	4341.40	4322.11	113.48	OSF1.50	7430.00	6819.83				MinPt-O-SF	
	10451.25	89.49	10391.05	10361.76	178.35	OSF1.50	15608.60	7274.00				TD	
Hayes 2-20 Blind 0' to 7627' - PR (Def Survey)													
	2022.60	32.81	2020.79	1989.79	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	2022.59	32.81	2020.77	1989.78	186789.94	MAS = 10.00 (m)	4.00	4.00				WRP	
	2022.68	32.81	2012.50	1989.77	244.39	MAS = 10.00 (m)	250.00	250.00				MinPts	
	2025.88	32.81	2009.02	1993.07	134.56	MAS = 10.00 (m)	420.00	419.90				MINPT-O-EOU	
	4416.38	439.42	4122.90	3976.96	15.13	OSF1.50	8930.00	7278.60				MinPts	
	4416.39	439.44	4122.90	3976.96	15.12	OSF1.50	8940.00	7278.59				MinPt-O-ADP	
	4417.11	439.55	4123.54	3977.56	15.12	OSF1.50	9010.00	7278.54				MinPt-O-SF	
	8007.26	446.92	7708.78	7560.34	26.97	OSF1.50	15608.60	7274.00				TD	
Wiedeman PMJ 21-9 GYRO 0' to 7490' - AB (Def Survey)													
	7981.59	32.81	7979.78	7948.78	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	7981.53	32.81	7979.64	7948.72	115947.89	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	7980.26	32.81	7977.42	7947.45	7784.65	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	7949.51	37.02	7824.29	7812.48	332.37	OSF1.50	4770.00	4417.41				MinPt-CtCt	
	7850.00	38.60	7823.74	7811.40	318.20	OSF1.50	4940.00	4571.12				MINPT-O-EOU	
	7850.29	38.97	7823.77	7811.32	315.04	OSF1.50	4980.00	4607.29				MinPt-O-ADP	
	7893.31	51.74	7858.28	7841.57	236.11	OSF1.50	6360.00	5855.07				MinPt-O-ADP	
	7896.04	53.63	7859.78	7842.41	227.61	OSF1.50	6540.00	6017.82				MinPt-O-ADP	
	2056.92	212.95	1914.42	1843.97	14.59	OSF1.50	15340.00	7274.18				MinPt-CtCt	
	2057.05	213.28	1914.37	1843.82	14.57	OSF1.50	15360.00	7274.17				MinPts	
	2062.64	214.59	1919.04	1848.04	14.52	OSF1.50	15490.00	7274.08				MinPt-O-SF	
	2074.83	215.15	1930.86	1859.68	14.56	OSF1.50	15608.60	7274.00				TD	
Wiedeman-PM J21-10 GYRO 0' to 7495' - AB (Def Survey)													
	6755.19	32.81	6753.38	6722.38	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6755.12	32.81	6753.23	6722.31	85889.23	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6754.11	32.81	6751.95	6721.30	22348.17	MAS = 10.00 (m)	120.00	120.00				MinPts	
	6754.25	32.81	6751.50	6721.44	7242.87	MAS = 10.00 (m)	250.00	250.00				MINPT-O-EOU	
	6754.30	32.81	6751.48	6721.49	6682.67	MAS = 10.00 (m)	300.00	300.00				MinPts	
	6673.55	32.81	6659.85	6640.74	552.89	MAS = 10.00 (m)	2160.00	2057.49				MinPt-O-SF	
	6642.76	32.81	6627.99	6609.95	505.75	MAS = 10.00 (m)	2750.00	2590.96				MinPt-O-SF	
	6609.32	32.81	6589.50	6576.51	364.66	MAS = 10.00 (m)	3960.00	3685.02				MinPts	
	6609.47	32.81	6589.37	6576.66	357.40	MAS = 10.00 (m)	4030.00	3748.32				MINPT-O-EOU	
	6602.48	38.60	6576.21	6563.88	267.62	OSF1.50	5140.00	4751.96				MinPt-CtCt	
	6602.59	38.95	6576.09	6563.64	265.13	OSF1.50	5180.00	4788.13				MINPT-O-EOU	
	6602.81	39.21	6576.14	6563.60	263.29	OSF1.50	5210.00	4815.25				MinPt-O-ADP	
	2084.55	179.62	1964.26	1904.92	17.55	OSF1.50	14100.00	7275.04				MinPt-CtCt	
	2084.63	179.91	1964.15	1904.71	17.52	OSF1.50	14120.00	7275.02				MINPT-O-EOU	
	2084.74	180.06	1964.17	1904.68	17.51	OSF1.50	14130.00	7275.02				MinPt-O-ADP	
	2093.02	181.79	1971.30	1911.23	17.41	OSF1.50	14290.00	7274.91				MinPt-O-SF	
	2572.02	167.19	2460.02	2404.83	23.28	OSF1.50	15608.60	7274.00				TD	
Meyer 4 GYRO 0' to 8410' - PR (Def Survey)													
	3917.76	32.81	3915.95	3884.95	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3917.74	32.81	3915.90	3884.93	163970.92	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3914.85	32.81	3911.55	3882.05	2624.99	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	3914.72	32.81	3911.41	3881.91	2616.35	MAS = 10.00 (m)	340.00	339.99				MinPts	
	3914.72	32.81	3911.41	3881.92	2606.04	MAS = 10.00 (m)	350.00	349.98				MINPT-O-EOU	
	2562.15	145.13	2464.86	2417.02	26.76	OSF1.50	12240.00	7276.32				MinPt-CtCt	
	2562.19	145.24	2464.83	2416.95	26.74	OSF1.50	12250.00	7276.31				MINPT-O-EOU	
	2562.27	145.35	2464.83	2416.91	26.72	OSF1.50	12260.00	7276.30				MinPt-O-ADP	
	2581.36	147.91	2482.22	2433.45	26.45	OSF1.50	12550.00	7276.11				MinPt-O-SF	
	4235.68	132.41	4146.87	4103.27	48.55	OSF1.50	15608.60	7274.00				TD	
Hayes 1 Blind 0' to 9502' - AB (Def Survey)													
	2659.03	32.81	2657.22	2626.22	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	2658.94	32.81	2657.02	2626.13	26378.07	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	2658.28	32.81	2649.34	2625.47	372.79	MAS = 10.00 (m)	290.00	290.00				MinPts	
	2669.77	80.29	2615.64	2589.48	51.00	OSF1.50	1450.00	1415.21				MINPT-O-EOU	
	2681.13	93.68	2618.06	2587.44	43.75	OSF1.50	1690.00	1632.52				MinPt-O-ADP	
	3162.62	439.66	2866.98	2722.96	10.82	OSF1.50	10130.00	7277.77				MinPts	
	3162.64	439.69	2866.98	2722.95	10.82	OSF1.50	10140.00	7277.76				MinPt-O-ADP	
	3163.24	439.84	2869.48	2723.40	10.82	OSF1.50	10190.00	7277.73				MinPt-O-SF	
	6328.02	441.30	6033.29	5886.72	21.58	OSF1.50	15608.60	7274.00				TD	
Meyer 3 GYRO 0' to 7745' - AB (Def Survey)													
	3904.48	32.81	3902.67	3871.67	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3904.46	32.81	3902.62	3871.65	167828.29	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3904.09	32.81	3901.67	3871.29	6436.81	MAS = 10.00 (m)	170.00	170.00				MinPts	
	3904.23	32.81	3901.54	3871.42	4480.19	MAS = 10.00 (m)	230.00	230.00				MINPT-O-EOU	
	3904.65	32.81	3901.84	3871.85	3888.28	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	4703.64	71.29	4655.58	4632.35	101.21	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	3036.83	124.26	2953.46	2912.58	37.12	OSF1.50	11450.00	7276.86				MinPt-CtCt	
	3037.04	124.95	2953.21	2912.10	36.91	OSF1.50	11490.00	7276.83				MINPT-O-EOU	
	3037.35	125.29	2953.29	2912.06	36.82	OSF1.50	11510.00	7276.82				MinPt-O-ADP	
	3129.34	134.87	3038.89	2994.47	35.20	OSF1.50	12210.00	7276.34				MinPt-O-SF	
	5142.97	134.46	5052.80	5008.51	58.05	OSF1.50	15608.60	7274.00				TD	
Lessor J 21-7X GYRO 0' to 7725' - AB (Def Survey)													
	6957.36	32.81	6955.55	6924.55	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6957.32	32.81	6955.46	6924.51	156760.61	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6956.99	32.81	6955.03	6924.18	47432.67	MAS = 10.00 (m)	70.00	70.00				MinPts	
	6957.12	32.81	6954.95	6924.31	19569.47	MAS = 10.00 (m)	130.00	130.00				MINPT-O-EOU	
	6959.30	32.81	6956.48	6926.49	6893.67	MAS = 10.00 (m)	320.00	319.99				MinPt-O-SF	
	6960.71	32.81	6943.46	6927.90	444.77	MAS = 10.00 (m)	2010.00	1921.86				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		
Hayes 1-20 Blind 0' to 7516' - PR (Def Survey)	6960.74	32.81	6943.42	6927.93	442.98	MAS = 10.00 (m)	2040.00	1948.99				MINPT-O-EOU	
	6939.99	38.64	6913.68	6901.34	281.10	OSF1.50	3270.00	3061.14				MinPt-CtCt	
	6940.10	39.06	6913.53	6901.05	278.02	OSF1.50	3330.00	3115.39				MINPT-O-EOU	
	6940.26	39.25	6913.56	6901.01	276.49	OSF1.50	3360.00	3142.51				MinPt-O-ADP	
	6939.87	53.61	6894.59	6877.26	199.92	OSF1.50	4390.00	4073.82				MinPt-CtCt	
	6931.15	54.41	6894.34	6876.74	196.83	OSF1.50	4480.00	4155.20				MINPT-O-EOU	
	6931.44	54.75	6894.41	6876.69	195.58	OSF1.50	4520.00	4191.37				MinPt-O-ADP	
	3040.06	189.70	2913.05	2850.35	24.23	OSF1.50	14240.00	7274.94				MinPt-CtCt	
	3040.23	190.26	2912.86	2849.97	24.16	OSF1.50	14270.00	7274.92				MINPT-O-EOU	
	3040.50	190.61	2912.89	2849.89	24.12	OSF1.50	14290.00	7274.91				MinPt-O-ADP	
	3077.99	196.60	2946.38	2881.39	23.66	OSF1.50	14720.00	7274.61				MinPt-O-SF	
	3334.39	198.97	3201.21	3135.42	25.33	OSF1.50	15608.60	7274.00				TD	
Pass													
3133.72	32.81	3131.91	3100.91	N/A	MAS = 10.00 (m)	0.00	0.00				Surface		
3133.71	32.81	3131.89	3100.90	501607.88	MAS = 10.00 (m)	4.00	4.00				WRP		
3133.71	32.81	3123.91	3100.90	391.99	MAS = 10.00 (m)	250.00	250.00				MinPts		
3138.80	32.81	3116.69	3105.99	171.42	MAS = 10.00 (m)	510.00	509.64				MINPT-O-EOU		
3145.21	37.00	3119.94	3108.21	134.00	OSF1.50	640.00	638.80				MinPt-O-ADP		
4519.59	443.21	4223.50	4076.29	15.35	OSF1.50	10220.00	7277.71				MinPt-CtCt		
4519.51	443.24	4223.49	4076.27	15.34	OSF1.50	10230.00	7277.70				MINPT-O-EOU		
4519.54	443.27	4223.49	4076.27	15.34	OSF1.50	10240.00	7277.70				MinPt-O-ADP		
4521.96	443.70	4225.62	4078.25	15.34	OSF1.50	10370.00	7277.61				MinPt-O-SF		
7032.22	452.10	6730.28	6580.11	23.41	OSF1.50	15608.60	7274.00				TD		
Pass													
Meyer 1 Blind 0' to 7482' - AB (Def Survey)	5286.33	32.81	5284.51	5253.52	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5286.27	32.81	5284.38	5253.46	77892.69	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	5284.05	60.25	5243.27	5223.79	135.58	OSF1.50	1120.00	1106.69				MinPt-CtCt	
	5290.49	98.04	5224.52	5192.44	82.44	OSF1.50	1790.00	1722.94				MINPT-O-EOU	
	5302.72	120.96	5221.55	5181.76	66.62	OSF1.50	2220.00	2111.74				MINPT-O-EOU	
	5327.02	150.08	5226.44	5176.95	53.80	OSF1.50	2760.00	2600.00				MinPt-O-ADP	
	3180.63	453.81	2877.55	2726.81	10.54	OSF1.50	12760.00	7275.96				MinPt-CtCt	
	3180.65	453.87	2877.54	2726.78	10.54	OSF1.50	12770.00	7275.95				MinPts	
	3183.02	454.48	2879.50	2728.54	10.54	OSF1.50	12880.00	7275.88				MinPt-O-SF	
	4272.08	454.88	3968.29	3817.20	14.13	OSF1.50	15608.60	7274.00				TD	
Pass													
6603.83	32.81	6602.02	6571.03	N/A	MAS = 10.00 (m)	0.00	0.00				Surface		
6603.77	32.81	6601.89	6570.97	97997.29	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF		
6600.10	70.61	6552.42	6529.49	143.87	OSF1.50	1320.00	1295.29				MinPt-CtCt		
6623.64	142.45	6526.14	6481.19	70.53	OSF1.50	2640.00	2491.50				MINPT-O-EOU		
6654.40	179.30	6534.34	6476.10	56.16	OSF1.50	3320.00	3106.34				MinPt-O-ADP		
3189.18	464.14	2879.22	2725.04	10.34	OSF1.50	14070.00	7275.06				MinPt-CtCt		
3189.22	464.29	2879.16	2724.93	10.33	OSF1.50	14090.00	7275.05				MINPT-O-EOU		
3189.29	464.36	2879.18	2724.93	10.33	OSF1.50	14100.00	7275.04				MinPt-O-ADP		
3192.07	465.08	2881.48	2726.99	10.33	OSF1.50	14210.00	7274.96				MinPt-O-SF		
3539.10	467.56	3226.86	3071.54	11.39	OSF1.50	15608.60	7274.00				TD		
Pass													
Lesser J 21-8 - Plan (Def Plan)	6998.56	32.81	6996.75	6965.75	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6998.53	32.81	6996.68	6965.72	199747.73	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6995.32	32.81	6995.44	6965.51	6533.53	MAS = 10.00 (m)	250.00	250.00				MinPts	
	6998.39	32.81	6995.36	6965.58	5776.64	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	7080.61	32.81	7066.15	7047.80	550.79	MAS = 10.00 (m)	1900.00	1822.40				MinPt-O-SF	
	3211.00	203.71	3074.66	3007.30	23.82	OSF1.50	14920.00	7274.47				MinPt-CtCt	
	3211.25	204.40	3074.45	3006.85	23.74	OSF1.50	14960.00	7274.45				MINPT-O-EOU	
	3211.39	204.57	3074.47	3006.82	23.72	OSF1.50	14970.00	7274.44				MinPt-O-ADP	
	3245.14	210.06	3104.57	3035.08	23.34	OSF1.50	15390.00	7274.15				MinPt-O-SF	
	3283.89	211.67	3142.24	3072.22	23.44	OSF1.50	15608.60	7274.00				TD	
Pass													
3935.18	32.81	3933.37	3902.37	N/A	MAS = 10.00 (m)	0.00	0.00				Surface		
3935.16	32.81	3933.32	3902.35	162360.31	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF		
3935.10	32.81	3933.23	3902.29	66751.40	MAS = 10.00 (m)	30.00	30.00				MinPts		
3935.55	32.81	3932.70	3902.74	3799.06	MAS = 10.00 (m)	250.00	250.00				MINPT-O-EOU		
3935.75	32.81	3932.85	3902.94	3607.01	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF		
3936.79	32.81	3933.96	3903.99	3847.67	MAS = 10.00 (m)	410.00	409.92				MinPt-O-SF		
3775.42	139.62	3681.80	3635.80	41.01	OSF1.50	12180.00	7276.36				MinPt-CtCt		
3775.70	140.52	3681.49	3635.18	40.75	OSF1.50	12230.00	7276.33				MINPT-O-EOU		
3776.00	140.88	3681.55	3635.12	40.65	OSF1.50	12250.00	7276.31				MinPt-O-ADP		
3904.66	153.87	3801.55	3750.80	38.45	OSF1.50	13180.00	7275.67				MinPt-O-SF		
5097.28	158.86	4990.84	4938.42	48.60	OSF1.50	15608.60	7274.00				TD		
Pass													
Lesser J 21-18D MWD 0' to 7595' - SI (Def Survey)	6801.31	32.81	6799.50	6768.50	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6801.27	32.81	6799.42	6768.47	181907.93	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6801.04	32.81	6799.11	6768.24	54651.52	MAS = 10.00 (m)	60.00	60.00				MinPts	
	6801.21	32.81	6798.44	6768.40	7103.51	MAS = 10.00 (m)	250.00	250.00				MINPT-O-EOU	
	6801.39	32.81	6798.54	6768.58	6577.13	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	6496.40	40.86	6468.56	6455.55	249.49	OSF1.50	4610.00	4272.74				MinPt-CtCt	
	6496.49	41.15	6468.45	6455.34	247.66	OSF1.50	4650.00	4308.91				MINPT-O-EOU	
	6496.60	41.29	6468.47	6455.31	246.77	OSF1.50	4670.00	4326.99				MinPt-O-ADP	
	3780.04	167.34	3667.95	3612.71	34.20	OSF1.50	13520.00	7275.44				MinPt-CtCt	
	3780.37	168.32	3667.62	3612.05	34.00	OSF1.50	13570.00	7275.40				MINPT-O-EOU	
	3780.68	168.70	3667.68	3611.99	33.92	OSF1.50	13590.00	7275.39				MinPt-O-ADP	
	3878.64	180.50	3757.77	3698.13	32.51	OSF1.50	14390.00	7274.84				MinPt-O-SF	
	4317.98	185.60	4193.70	4132.37	35.19	OSF1.50	15608.60	7274.00				TD	
Pass													
Meyer 2 GYRO 0' to 8010' - AB (Def Survey)	3888.60	32.81	3886.79	3855.79	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3888.58	32.81	3886.74	3855.77	166465.39	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3887.68	32.81	3884.66	3854.87	3290.55	MAS = 10.00 (m)	280.00	280.00				MinPts	
	3887.69	32.81	3884.65	3854.88	3171.41	MAS = 10.00 (m)	300.00	300.00				MinPts	
	3888.89	32.81	3885.43	3856.06	2358.95	MAS = 10.00 (m)	460.00	459.81				MINPT-O-EOU	
	3997.17	32.81	3976.46	3964.36	209.								

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		
	3979.39	103.33	3909.97	3876.06	58.66	OSF1.50	10880.00	7277.25				MinPt-CiCt	
	3979.62	104.02	3909.74	3875.60	58.26	OSF1.50	10920.00	7277.23				MinPt-O-EQU	
	3980.06	104.53	3909.83	3875.52	57.98	OSF1.50	10950.00	7277.21				MinPt-O-ADP	
	4232.96	123.33	4150.20	4109.63	52.14	OSF1.50	12320.00	7276.26				MinPt-O-SF	
	6182.19	132.84	6093.09	6049.35	70.64	OSF1.50	15608.60	7274.00				TD	
Lesser J 21-17 - Plan (Def Plan)													Pass
	6976.60	32.81	6974.79	6943.79	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6976.57	32.81	6974.72	6943.76	198496.17	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6976.36	32.81	6973.48	6943.55	6512.56	MAS = 10.00 (m)	250.00	250.00				MinPts	
	6976.43	32.81	6973.40	6943.62	5758.07	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EQU	
	7006.33	32.81	6997.13	6973.52	947.89	MAS = 10.00 (m)	1270.00	1248.59				MinPt-O-SF	
	3945.68	182.97	3823.17	3762.72	32.62	OSF1.50	14190.00	7274.98				MinPt-CiCt	
	3946.07	184.14	3822.78	3761.93	32.41	OSF1.50	14250.00	7274.94				MINPT-O-EQU	
	3946.40	184.52	3822.86	3761.88	32.35	OSF1.50	14270.00	7274.92				MinPt-O-ADP	
	4037.39	195.94	3906.23	3841.45	31.16	OSF1.50	15050.00	7274.38				MinPt-O-SF	
	4191.48	199.90	4057.68	3991.58	31.69	OSF1.50	15608.60	7274.00				TD	
Meyer 6 GYRO 0' to 8410' - AB (Def Survey)													Pass
	3950.68	32.81	3948.87	3917.87	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3950.66	32.81	3948.82	3917.85	163642.02	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3950.35	32.81	3948.00	3917.54	7376.78	MAS = 10.00 (m)	150.00	150.00				MinPts	
	3950.49	32.81	3947.85	3917.68	4768.42	MAS = 10.00 (m)	210.00	210.00				MINPT-O-EQU	
	3951.44	32.81	3948.56	3918.63	3690.20	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	4220.22	32.81	4207.17	4187.41	368.63	MAS = 10.00 (m)	1900.00	1822.40				MinPt-O-SF	
	4296.00	32.81	4282.80	4263.20	370.24	MAS = 10.00 (m)	2130.00	2030.36				MinPt-O-SF	
	6707.01	60.35	6666.24	6646.66	171.21	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	4615.47	157.95	4509.63	4457.52	44.27	OSF1.50	12790.00	7275.94				MinPt-CiCt	
	4615.80	159.10	4509.19	4456.69	43.94	OSF1.50	12850.00	7275.90				MINPT-O-EQU	
	4616.25	159.68	4509.27	4456.58	43.79	OSF1.50	12880.00	7275.88				MinPt-O-ADP	
	4810.34	178.42	4690.86	4631.93	40.80	OSF1.50	14150.00	7275.00				MinPt-O-SF	
	5405.61	186.71	5280.61	5218.91	43.79	OSF1.50	15608.60	7274.00				TD	
Meyer 7 GYRO 0' to 8146' - PR (Def Survey)													Pass
	3967.04	32.81	3965.23	3934.24	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3967.02	32.81	3965.19	3934.21	167230.61	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3964.80	32.81	3961.67	3931.95	3011.69	MAS = 10.00 (m)	290.00	290.00				MinPts	
	3964.80	32.81	3961.66	3931.99	2975.66	MAS = 10.00 (m)	300.00	300.00				MinPts	
	4240.37	32.81	4227.72	4207.56	383.72	MAS = 10.00 (m)	1900.00	1822.40				MinPt-O-SF	
	6382.71	62.02	6340.83	6320.69	158.43	OSF1.50	6660.00	6126.32				MinPts	
	6549.78	65.75	6505.42	6484.03	153.12	OSF1.50	7235.85	6647.00				MinPt-O-SF	
	6566.68	65.96	6522.17	6500.72	153.02	OSF1.50	7300.00	6704.86				MinPt-O-SF	
	5115.52	135.72	5024.50	4979.80	57.20	OSF1.50	12060.00	7276.44				MinPt-CiCt	
	5116.02	137.10	5024.09	4978.92	56.62	OSF1.50	12130.00	7276.39				MINPT-O-EQU	
	5116.52	137.68	5024.20	4978.84	56.38	OSF1.50	12160.00	7276.37				MinPt-O-ADP	
	5453.99	164.87	5343.54	5289.12	50.09	OSF1.50	13950.00	7275.14				MinPt-O-SF	
	6226.65	175.62	6109.03	6051.03	53.66	OSF1.50	15608.60	7274.00				TD	
Meyer 8 GYRO 0' to 7678' - AB (Def Survey)													Pass
	3982.02	32.81	3980.21	3949.21	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3982.00	32.81	3980.16	3949.19	166249.17	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3980.05	32.81	3976.85	3947.24	2875.36	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	3980.01	32.81	3976.82	3947.20	2891.08	MAS = 10.00 (m)	330.00	329.99				MinPts	
	4337.19	110.01	4263.31	4227.18	59.99	OSF1.50	11150.00	7277.07				MinPt-CiCt	
	4337.56	111.11	4262.95	4226.45	59.39	OSF1.50	11210.00	7277.03				MINPT-O-EQU	
	4337.87	111.48	4263.02	4226.39	59.20	OSF1.50	11230.00	7277.01				MinPt-O-ADP	
	4635.76	134.03	4545.87	4501.73	52.49	OSF1.50	12790.00	7275.94				MinPt-O-SF	
	6217.68	145.48	6120.16	6072.20	64.80	OSF1.50	15608.60	7274.00				TD	
Lesser 1 Blind 0' to 7846' - AB (Def Survey)													Pass
	7695.66	32.81	7693.85	7662.85	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	7695.62	32.81	7693.76	7662.81	173899.53	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	7695.25	32.81	7688.50	7662.45	1555.48	MAS = 10.00 (m)	250.00	250.00				MinPts	
	7712.22	65.74	7667.79	7646.48	180.93	OSF1.50	1210.00	1192.13				MINPT-O-EQU	
	7726.26	82.72	7670.51	7643.54	143.21	OSF1.50	1510.00	1469.77				MinPt-O-ADP	
	4185.63	475.70	3867.97	3709.93	13.24	OSF1.50	15080.00	7274.36				MinPt-CiCt	
	4185.69	475.87	3867.91	3709.82	13.23	OSF1.50	15100.00	7274.35				MINPT-O-EQU	
	4185.75	475.96	3867.91	3709.79	13.23	OSF1.50	15110.00	7274.34				MinPt-O-ADP	
	4194.41	477.88	3875.29	3716.53	13.20	OSF1.50	15350.00	7274.18				MinPt-O-SF	
	4219.03	479.65	3898.73	3739.38	13.23	OSF1.50	15608.60	7274.00				TD	
Lesser PM J 21-1 Blind 0' to 7510' - PR (Def Survey)													Pass
	8107.99	32.81	8106.18	8075.18	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	8107.96	32.81	8106.10	8075.15	207606.51	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	8107.66	32.81	8100.69	8074.85	1572.20	MAS = 10.00 (m)	250.00	250.00				MinPts	
	8123.71	62.02	8061.76	8061.69	202.34	OSF1.50	1140.00	1125.75				MINPT-O-EQU	
	8137.76	79.12	8084.40	8058.63	157.86	OSF1.50	1440.00	1406.07				MinPt-O-ADP	
	4349.26	480.30	4028.53	3868.96	13.62	OSF1.50	15470.00	7274.10				MinPt-CiCt	
	4349.37	480.57	4028.45	3868.79	13.62	OSF1.50	15500.00	7274.07				MINPT-O-EQU	
	4349.45	480.66	4028.47	3868.78	13.61	OSF1.50	15510.00	7274.07				MinPt-O-ADP	
	4351.47	481.52	4029.91	3869.94	13.60	OSF1.50	15608.60	7274.00				MinPt-O-SF	
Lesser PM J 21-2 Blind 0' to 7507' - PR (Def Survey)													Pass
	6925.33	32.81	6923.52	6892.52	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6925.29	32.81	6923.44	6892.49	165701.18	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6925.00	32.81	6917.78	6892.19	1279.39	MAS = 10.00 (m)	250.00	250.00				MinPts	
	6938.08	50.77	6903.63	6887.31	212.51	OSF1.50	940.00	933.35				MINPT-O-EQU	
	6951.06	66.45	6906.16	6884.61	161.26	OSF1.50	1210.00	1192.13				MinPt-O-ADP	
	4453.40	467.75	4141.03	3985.65	14.33	OSF1.50	14250.00	7274.94				MinPt-CiCt	
	4453.46	467.91	4140.99	3985.55	14.32	OSF1.50	14270.00	7274.92				MINPT-O-EQU	
	4453.53	467.99	4141.00	3985.54	14.32	OSF1.50	14280.00	7274.91				MinPt-O-ADP	
	4463.70	470.01	4149.83	3993.70	14.29	OSF1.50	14550.00	7274.73				MinPt-O-SF	
	4656.92	475.44	4339.43	4181.49	14.74	OSF1.50	15608.60	7274.00				TD	
Lesser J 21-8 Blind 0' to 7838' - PR (Def Survey)													Pass
	6994.65	32.81	6992.83	6961.84	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6994.61	32.81	6992.75	6961.80	159445.52	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6994.29	32.81	6987.22	6961.47	1333.56	MAS = 10.00 (m)	250.00	250.00				MinPts	
	7007.37	50.52	6973.09	6956.85	215.75	OSF1.50	940.00	933.35				MINPT-O-EQU	

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		
	7020.35	66.20	6975.62	6954.18	163.51	OSF1.50	1210.00	1192.13				MinPt-O-ADP	
	4469.33	468.12	4156.70	4001.19	14.37	OSF1.50	14310.00	7274.89				MinPt-CtCt	
	4469.39	468.36	4156.61	4001.02	14.36	OSF1.50	14340.00	7274.87				MINPT-O-EOU	
	4469.46	468.44	4156.63	4001.01	14.36	OSF1.50	14350.00	7274.87				MinPt-O-ADP	
	4479.75	470.48	4165.57	4009.28	14.33	OSF1.50	14620.00	7274.68				MinPt-O-SF	
	4652.93	475.71	4335.25	4177.22	14.72	OSF1.50	15608.60	7274.00				TD	
Lessor J 21-17 Blind 0' to 7578' - SI (Def Survey)													
	6978.83	32.81	6977.02	6946.02	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	6978.79	32.81	6976.94	6945.98	157729.80	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6978.46	32.81	6971.41	6945.65	1330.36	MAS = 10.00 (m)	250.00	250.00				MinPts	
	6991.30	49.93	6957.40	6941.36	217.87	OSF1.50	930.00	923.63				MINPT-O-EOU	
	7004.22	65.62	6959.87	6938.60	164.60	OSF1.50	1200.00	1182.68				MinPt-O-ADP	
	4477.00	468.01	4164.46	4008.99	14.39	OSF1.50	14300.00	7274.90				MinPt-CtCt	
	4477.06	468.17	4164.41	4008.89	14.39	OSF1.50	14320.00	7274.89				MINPT-O-EOU	
	4477.12	468.25	4164.42	4008.87	14.39	OSF1.50	14330.00	7274.88				MinPt-O-ADP	
	4487.27	470.28	4173.21	4016.99	14.36	OSF1.50	14600.00	7274.69				MinPt-O-SF	
	4665.29	475.61	4347.68	4189.68	14.76	OSF1.50	15608.60	7274.00				TD	
Lessor J 21-28D GYRO 0' to 7573' - SI (Def Survey)													
	6778.77	32.81	6776.95	6745.96	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	6778.73	32.81	6776.87	6745.92	156841.41	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6778.11	32.81	6775.22	6745.30	6262.28	MAS = 10.00 (m)	260.00	260.00				MinPt-O-SF	
	6778.10	32.81	6775.21	6745.29	6270.49	MAS = 10.00 (m)	270.00	270.00				MinPts	
	6783.51	32.81	6769.52	6750.71	557.08	MAS = 10.00 (m)	1720.00	1659.65				MinPts	
	6783.75	32.81	6769.10	6750.94	528.40	MAS = 10.00 (m)	1790.00	1722.94				MINPT-O-EOU	
	6795.56	32.81	6779.29	6762.75	462.95	MAS = 10.00 (m)	2260.00	2147.91				MINPT-O-EOU	
	5093.59	166.96	4981.66	4926.54	46.19	OSF1.50	13500.00	7275.45				MinPt-CtCt	
	5093.99	168.38	4981.20	4925.61	45.80	OSF1.50	13570.00	7275.40				MINPT-O-EOU	
	5094.50	168.98	4981.31	4925.52	45.64	OSF1.50	13600.00	7275.38				MinPt-O-ADP	
	5330.17	191.57	5201.92	5138.60	42.08	OSF1.50	15070.00	7274.37				MinPt-O-SF	
	5512.96	196.33	5381.54	5316.63	42.46	OSF1.50	15608.60	7274.00				TD	
Lessor J 21-27D GYRO 0' to 7585' - PR (Def Survey)													
	6824.02	32.81	6822.21	6791.22	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	6823.99	32.81	6822.13	6791.18	159934.51	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6823.68	32.81	6821.73	6790.88	46497.51	MAS = 10.00 (m)	70.00	70.00				MinPts	
	6823.72	32.81	6820.86	6790.91	6526.17	MAS = 10.00 (m)	270.00	270.00				MinPts	
	8488.67	61.52	8447.12	8427.16	212.47	OSF1.50	6750.00	6207.70				MinPts	
	5104.39	198.06	4971.81	4906.33	38.96	OSF1.50	14770.00	7274.58				MinPt-CtCt	
	5104.87	199.52	4971.32	4905.34	38.68	OSF1.50	14840.00	7274.53				MINPT-O-EOU	
	5105.36	200.13	4971.40	4905.23	38.56	OSF1.50	14870.00	7274.51				MinPt-O-ADP	
	5172.69	213.27	5029.97	4959.42	36.68	OSF1.50	15608.60	7274.00				MinPt-O-SF	