



PDC Energy

Schlumberger

Rev 2

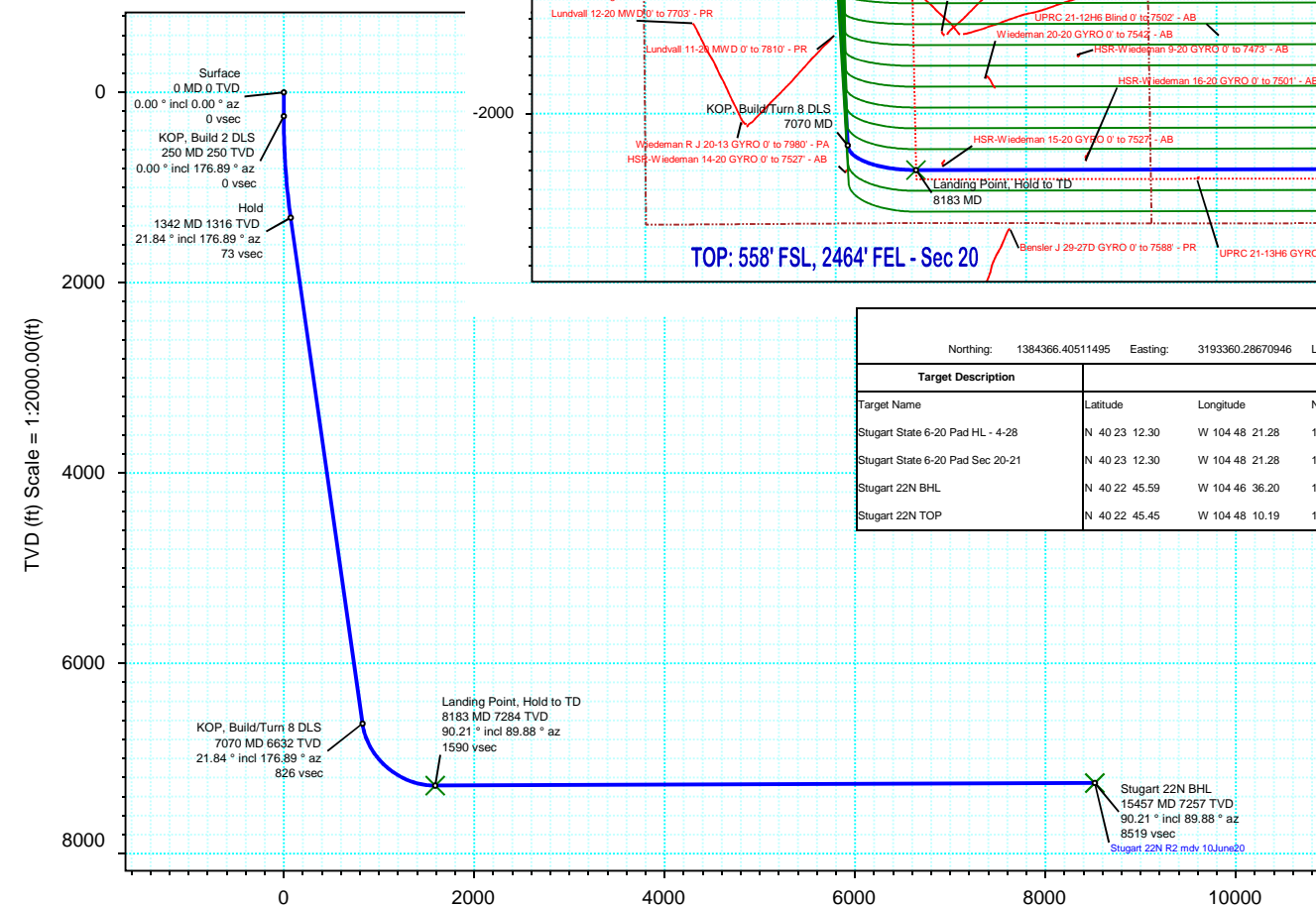
Borehole:				Well:				Field:				Structure:			
Original Hole				Stugart 22N				CO, Weld County (NAD 83 NZ) - SRC				PDC Energy 20-05N-66W (Stugart State 6-20 Pad)			
Gravity & Magnetic Parameters								Surface Location				Miscellaneous			
Model: HDGM 2020 Dip: 66.728° Date: 17-Jun-2020								NAD83 Colorado State Plane, Northern Zone, US Feet							
								Lat: N 40 23 11.08 Northing: 1384366.41ftUS Grid Conv: 0.4485°				Slot: Stugart 22N TVD Ref: KB 4ft(4949ft above MSL)			
MagDec: 8.13° FS: 52099.514nT Gravity FS: 999.013mgn (9.80665 Based)								Lon: W 104 48 21.12 Easting: 3193360.29ftUS Scale Fact: 0.99995964				Plan: Stugart 22N R2 mdv 10June20			

Proposal

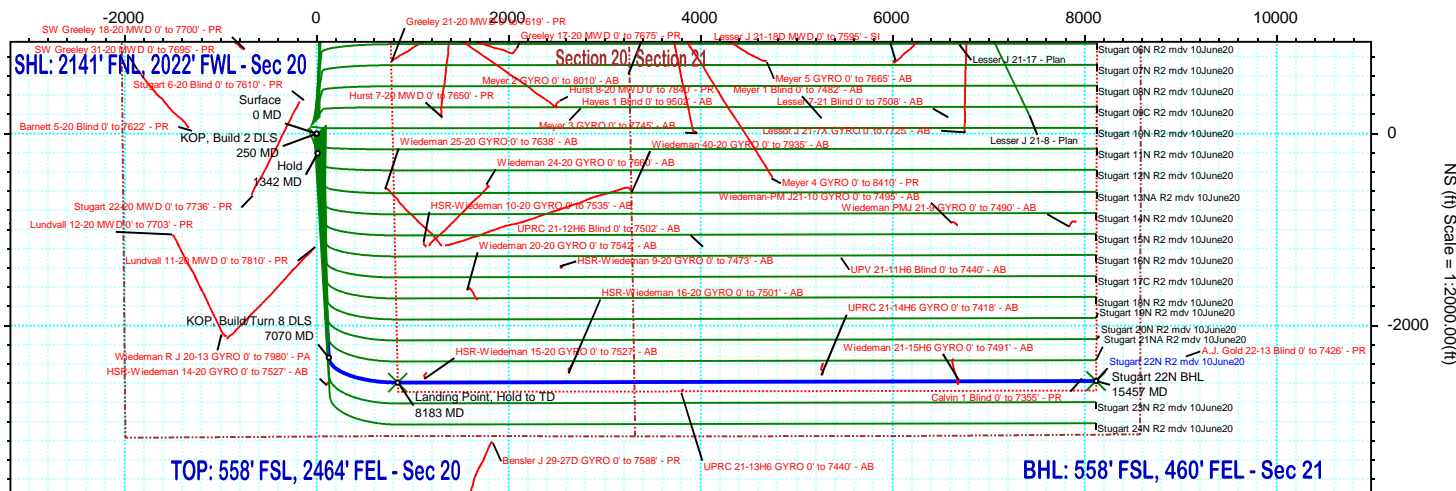
EW (ft) Scale = 1:2000.00(ft)



True North
Tot Corr (M->T 8.130°)
Mag Dec (8.130°)
Grid Conv (0.449°)



Vertical Section (ft) Azim = 107.61° Scale = 1:2000.00(ft) Origin = 0N/-S, 0E/-W



Surface Location														
Northing:		1384366.40511495	Easting:		3193360.28670946	Latitude:		N 40 23 11.08	Longitude:		W 104 48 21.12	VSec Azimuth:		107.61
Target Description		Grid Coord								Local Coord				
Target Name		Latitude	Longitude	Northing	Easting	TVD	VSec	N(+)/S(-)		E(+)/W(-)				
Stugart State 6-20 Pad HL - 4-28		N 40 23 12.30	W 104 48 21.28	1384490.53	3193346.78	4949.00	-49.54	124.23		-12.54				
Stugart State 6-20 Pad Sec 20-21		N 40 23 12.30	W 104 48 21.28	1384490.53	3193346.78	4949.00	-49.54	124.23		-12.54				
Stugart 22N BHL		N 40 22 45.59	W 104 46 36.20	1381852.06	3201499.76	7257.00	8519.34	-2578.09		8119.89				
Stugart 22N TOP		N 40 22 45.45	W 104 48 10.19	1381780.29	3194226.16	7284.00	1590.65	-2592.93		845.64				

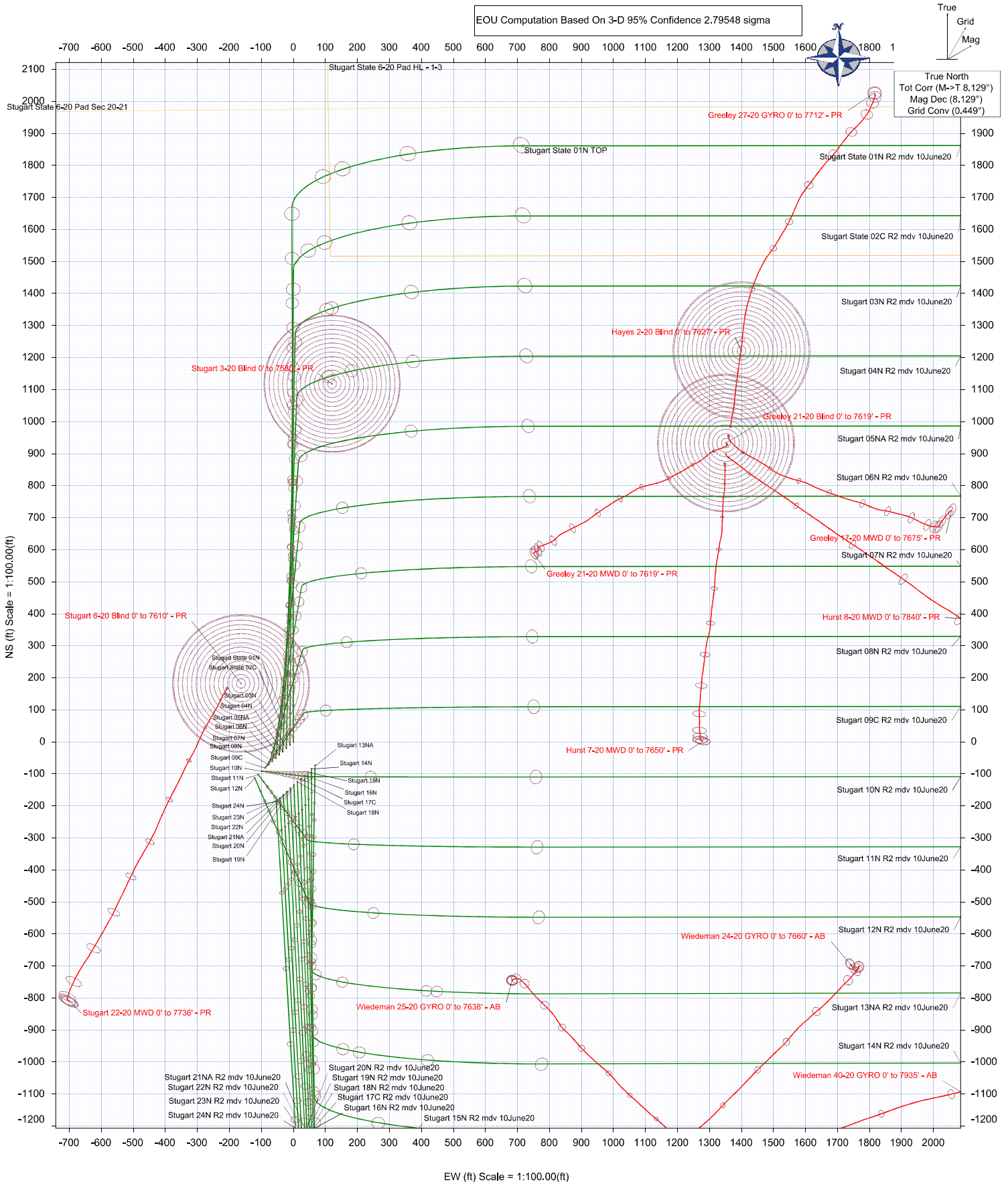
Critical Points							
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Build 2 DLS	250.00	0.00	176.89	250.00	0.00	0.00	0.00
Hold	1341.81	21.84	176.89	1315.57	72.73	-205.25	11.14
KOP, Build/Turn 8 DLS	7069.53	21.84	176.89	6632.33	826.51	-2332.57	126.57
Landing Point, Hold to TD	8183.10	90.21	89.88	7284.00	1590.65	-2592.93	845.64
Stugart 22N BHL	15457.42	90.21	89.88	7257.00	8519.34	-2578.09	8119.89



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	
Model: HDGM 2020	Dip: 66.728°	Date: 17-Jun-2020	NAD83 Colorado State Plane, Northern Zone, US Feet	Stugart State	TVD Ref: KB 4ft(4948ft above MSL)
MagDec: 8.129°	FS: 52099.711nT	Gravity FS: 999.013mgm (9.80665 Based)	Lat: N 40 23 12.71	Slot: 01N	Plan: Stugart State 01N R2 mdv 10June20
			Lon: W 104 48 20.71		
			Northings: 1384531.67HUS		
			Easting: 3193390.47HUS		
			Scale Fact: 0.99995966		

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

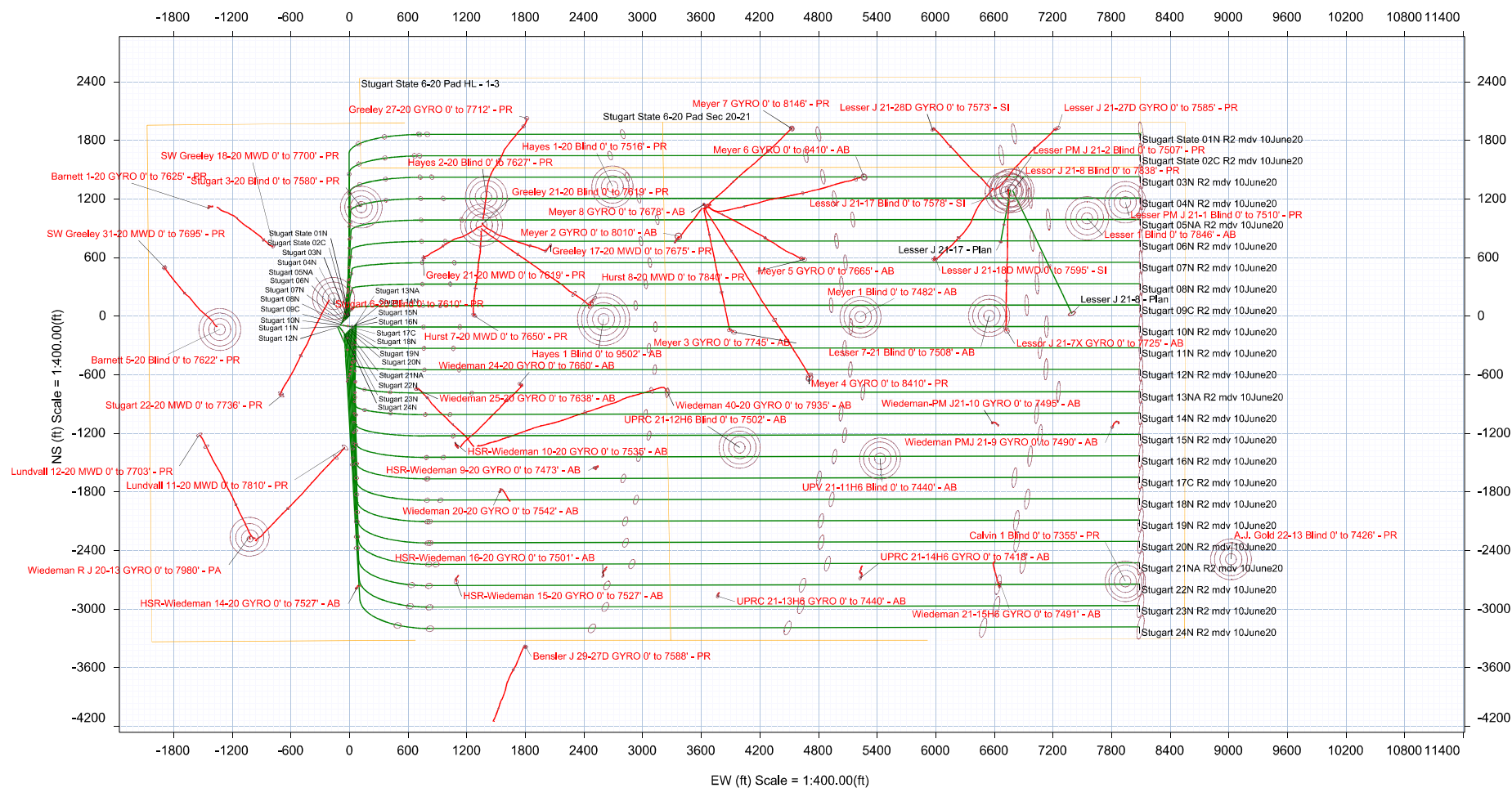




True North
Tot Corr (M->T 8.129°)
Mag Dec (8.129°)
Grid Conv (0.449°)

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		Northing:		1384531.67RUS		Grid Conv:		0,4486°		Slot:		Stugart State 01N		TVD Ref:		KB 4R(4948ft above MSL)	
MagDec:		8,129°		FS:		52099.711N		Gravity FS:		999.013man (8,0665 Based)		Lon:		W 104 48 20.71		Easting:		3193390.47RUS		Scale Fact:		0.99995966		Plan:		Stugart State 01N R2 mdy 10June20					

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



Stugart 22N R2 mdv 10June20 Proposal Geodetic Report

(Def Plan)

Report Date: June 19, 2020 - 11:29 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 22N
Well: Stugart 22N
Borehole: Original Hole
UWI / API#: Unknown / Unknown
Survey Name: Stugart 22N R2 mdv 10June20
Survey Date: September 25, 2019
Tort / AHD / DDI / ERD Ratio: 110.922 ° / 10420.354 ft / 6.390 / 1.431
Coordinate Reference System: NAD83 Colorado State Plane, Northern Zone, US Feet
Location Lat / Long: N 40° 23' 11.07600", W 104° 48' 21.11760"
Location Grid N/E Y/X: N 1384366.405 ftUS, E 3193360.287 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: 107.615 ° (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: 52099.514 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: 8.1297 °
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	1384366.41	3193360.29	40.386410	-104.805866
	100.00	0.00	176.89	100.00	0.00	0.00	0.00	0.00	1384366.41	3193360.29	40.386410	-104.805866
	200.00	0.00	176.89	200.00	0.00	0.00	0.00	0.00	1384366.41	3193360.29	40.386410	-104.805866
KOP, Build 2 DLS	250.00	0.00	176.89	250.00	0.00	0.00	0.00	0.00	1384366.41	3193360.29	40.386410	-104.805866
	300.00	1.00	176.89	300.00	0.15	-0.44	0.02	2.00	1384365.97	3193360.31	40.386409	-104.805866
	400.00	3.00	176.89	399.93	1.39	-3.92	0.21	2.00	1384362.49	3193360.53	40.386399	-104.805865
	500.00	5.00	176.89	499.68	3.86	-10.89	0.59	2.00	1384355.53	3193360.96	40.386380	-104.805864
	600.00	7.00	176.89	599.13	7.56	-21.32	1.16	2.00	1384345.09	3193361.61	40.386351	-104.805862
	700.00	9.00	176.89	698.15	12.48	-35.22	1.91	2.00	1384331.20	3193362.47	40.386313	-104.805859
	800.00	11.00	176.89	796.63	18.62	-52.56	2.85	2.00	1384313.87	3193363.55	40.386266	-104.805856
	900.00	13.00	176.89	894.44	25.98	-73.32	3.98	2.00	1384293.13	3193364.84	40.386209	-104.805852
	1000.00	15.00	176.89	991.46	34.54	-97.47	5.29	2.00	1384268.98	3193366.34	40.386142	-104.805847
	1100.00	17.00	176.89	1087.58	44.29	-124.99	6.78	2.00	1384241.47	3193368.05	40.386067	-104.805842
	1200.00	19.00	176.89	1182.68	55.22	-155.85	8.46	2.00	1384210.63	3193369.96	40.385982	-104.805836
	1300.00	21.00	176.89	1276.65	67.32	-190.00	10.31	2.00	1384176.50	3193372.08	40.385888	-104.805829
Hold	1341.81	21.84	176.89	1315.57	72.73	-205.25	11.14	2.00	1384161.26	3193373.03	40.385847	-104.805826
	1400.00	21.84	176.89	1369.59	80.38	-226.86	12.31	0.00	1384139.66	3193374.37	40.385787	-104.805822
	1500.00	21.84	176.89	1462.41	93.54	-264.00	14.33	0.00	1384102.54	3193376.68	40.385685	-104.805815
	1600.00	21.84	176.89	1555.24	106.70	-301.14	16.34	0.00	1384065.42	3193378.98	40.385583	-104.805807
	1700.00	21.84	176.89	1648.06	119.86	-338.28	18.36	0.00	1384028.29	3193381.29	40.385481	-104.805800
	1800.00	21.84	176.89	1740.89	133.02	-375.42	20.37	0.00	1383991.17	3193383.60	40.385380	-104.805793
	1900.00	21.84	176.89	1833.71	146.19	-412.56	22.39	0.00	1383954.05	3193385.90	40.385278	-104.805786
	2000.00	21.84	176.89	1926.54	159.35	-449.70	24.40	0.00	1383916.93	3193388.21	40.385176	-104.805778
	2100.00	21.84	176.89	2019.36	172.51	-486.84	26.42	0.00	1383879.80	3193390.51	40.385074	-104.805771
	2200.00	21.84	176.89	2112.19	185.67	-523.98	28.43	0.00	1383842.68	3193392.82	40.384972	-104.805764
	2300.00	21.84	176.89	2205.01	198.83	-561.12	30.45	0.00	1383805.56	3193395.13	40.384870	-104.805757
	2400.00	21.84	176.89	2297.84	211.99	-598.27	32.46	0.00	1383768.44	3193397.43	40.384768	-104.805749
	2500.00	21.84	176.89	2390.66	225.15	-635.41	34.48	0.00	1383731.32	3193399.74	40.384666	-104.805742
	2600.00	21.84	176.89	2483.49	238.31	-672.55	36.50	0.00	1383694.19	3193402.04	40.384564	-104.805735
	2700.00	21.84	176.89	2576.31	251.47	-709.69	38.51	0.00	1383657.07	3193404.35	40.384462	-104.805728
	2800.00	21.84	176.89	2669.14	264.63	-746.83	40.53	0.00	1383619.95	3193406.66	40.384360	-104.805721
	2900.00	21.84	176.89	2761.96	277.79	-783.97	42.54	0.00	1383582.83	3193408.96	40.384258	-104.805713
	3000.00	21.84	176.89	2854.79	290.95	-821.11	44.56	0.00	1383545.70	3193411.27	40.384156	-104.805706
	3100.00	21.84	176.89	2947.61	304.11	-858.25	46.57	0.00	1383508.58	3193413.57	40.384054	-104.805699
	3200.00	21.84	176.89	3040.44	317.27	-895.39	48.59	0.00	1383471.46	3193415.88	40.383952	-104.805692
	3300.00	21.84	176.89	3133.26	330.43	-932.53	50.60	0.00	1383434.34	3193418.19	40.383850	-104.805684
	3400.00	21.84	176.89	3226.09	343.59	-969.67	52.62	0.00	1383397.21	3193420.49	40.383748	-104.805677
	3500.00	21.84	176.89	3318.91	356.75	-1006.82	54.63	0.00	1383360.09	3193422.80	40.383646	-104.805670
	3600.00	21.84	176.89	3411.74	369.91	-1043.96	56.65	0.00	1383322.97	3193425.10	40.383544	-104.805663
	3700.00	21.84	176.89	3504.56	383.07	-1081.10	58.66	0.00	1383285.85	3193427.41	40.383442	-104.805655
	3800.00	21.84	176.89	3597.39	396.23	-1118.24	60.68	0.00	1383248.72	3193429.72	40.383340	-104.805648
	3900.00	21.84	176.89	3690.21	409.39	-1155.38	62.70	0.00	1383211.60	3193432.02	40.383239	-104.805641
	4000.00	21.84	176.89	3783.04	422.55	-1192.52	64.71	0.00	1383174.48	3193434.33	40.383137	-104.805634
	4100.00	21.84	176.89	3875.86	435.71	-1229.66	66.73	0.00	1383137.36	3193436.63	40.383035	-104.805626
	4200.00	21.84	176.89	3968.69	448.87	-1266.80	68.74	0.00	1383100.23	3193438.94	40.382933	-104.805619
	4300.00	21.84	176.89	4061.51	462.03	-1303.94	70.76	0.00	1383063.11	3193441.25	40.382831	-104.805612
	4400.00	21.84	176.89	4154.34	475.19	-1341.08	72.77	0.00	1383025.99	3193443.55	40.382729	-104.805605
	4500.00	21.84	176.89	4247.16	488.36	-1378.22	74.79	0.00	1382988.87	3193445.86	40.382627	-104.805598
	4600.00	21.84	176.89	4339.99	501.52	-1415.37	76.80	0.00	1382951.74	3193448.16	40.382525	-104.805590
	4700.00	21.84	176.89	4432.81	514.68	-1452.51	78.82	0.00	1382914.62	3193450.47	40.382423	-104.805583
	4800.00	21.84	176.89	4525.64	527.84	-1489.65	80.83	0.00	1382877.50	3193452.78	40.382321	-104.805576
	4900.00	21.84	176.89	4618.46	541.00	-1526.79	82.85	0.00	1382840.38	3193455.08	40.382219	-104.805569
	5000.00	21.84	176.89	4711.29	554.16	-1563.93	84.87	0.00	1382803.25	3193457.39	40.382117	-104.805561
	5100.00	21.84	176.89	4804.11	567.32	-1601.07	86.88	0.00	1382766.13	3193459.69	40.382015	-104.805554
	5200.00	21.84	176.89	4896.94	580.48	-1638.21	88.90	0.00	1382729.01	3193462.00	40.381913	-104.805547
	5300.00	21.84	176.89	4989.76	593.64	-1675.35	90.91	0.00	1382691.89	3193464.31	40.381811	-104.805540
	5400.00	21.84	176.89	5082.59	606.80	-1712.49	92.93	0.00	1382654.76	3193466.61	40.381709	-104.805532
	5500.00	21.84	176.89	5175.41	619.96	-1749.63	94.94	0.00	1382617.64	3193468.92	40.381607	-104.805525
	5600.00	21.84	176.89	5268.24	633.12	-1786.78	96.96	0.00	1382580.52	3193471.22	40.381505	-104.805518
	5700.00	21.84	176.89	5361.06	646.28	-1823.92	98.97	0.00	1382543.40	3193473.53	40.381404	-104.805511
	5800.00	21.84	176.89	5453.89	659.44	-1861.06	100.99	0.00	1382506.27	3193475.84	40.381302	-104.805504
	5900.00	21.84	176.89	5546.71	672.60	-1898.20	103.00	0.00	1382469.15	3193478.14	40.381200	-104.805496
	6000.00	21.84	176.89	5639.54	685.76	-1935.34	105.02	0.00	1382432.03	3193480.45	40.381098	-104.805489
	6100.00	21.84	176.89	5732.36	698.92	-1972.48	107.03	0.00	1382394.91	3193482.75	40.380996	-104.805482
	6200.00	21.84	176.89	5825.19	712.08	-2009.62	109.05	0.00	1382357.78	3193485.06	40.380894	-104.805475
	6300.00	21.84	176.89	5918.01	725.24	-2046.76	111.07	0.00	1382320.66	3193487.37	40.380792	-104.805467
	6400.00	21.84	176.89	6010.84	738.40	-2083.90	113.08	0.00	1382283.54	3193489.67	40.380690	-104.805460
	6500.00	21.84	176.89	6103.66	751.56	-2121.04	115.10	0.00	1382246.42	3193491.98	40.380588	-104.805453
	6600.00	21.84	176.89	6196.49	764.72	-2158.18	117.11	0.00	1382209.29	3193494.28	40.380486	-104.805446
	6700.00	21.84	176.89	6289.31	777.88	-2195.33	119.13	0.00	1382172.17	3193496.59	40.380384	-104.805438
	6800.00	21.84	176.89	6382.14	791.04	-2232.47	121.14	0.00	1382135.05	3193498.90	40.380282	-104.805431
	6900.00	21.84	176.89	6474.96	804.20	-2269.61	123.16	0.00	1382097.93	3193501.20	40.380180	-104.805424
	7000.00	21.84	176.89	6567.79	817.36	-2306.75	125.17	0.00	1382060.81	3193503.51	40.380078	-104.805417
KOP, Build/Turn 8 DLS	7069.53	21.84	176.									

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (°)	Longitude (°)
	7300.00	28.99	136.21	6841.91	891.27	-2416.41	167.90	8.00	1381951.49	3193547.09	40.379777	-104.805263
	7400.00	34.62	125.39	6926.93	939.67	-2450.41	207.89	8.00	1381917.81	3193587.34	40.379684	-104.805120
	7500.00	40.97	117.41	7005.96	999.12	-2482.00	260.23	8.00	1381886.62	3193639.93	40.379597	-104.804932
	7600.00	47.73	111.29	7077.46	1068.47	-2510.57	323.91	8.00	1381858.55	3193703.83	40.379519	-104.804703
	7700.00	54.76	106.39	7140.04	1146.35	-2535.57	397.69	8.00	1381834.13	3193777.79	40.379450	-104.804439
	7800.00	61.96	102.27	7192.47	1231.26	-2556.51	480.13	8.00	1381813.84	3193860.39	40.379393	-104.804143
	7900.00	69.26	98.68	7233.75	1321.54	-2572.97	569.62	8.00	1381798.08	3193950.00	40.379347	-104.803821
	8000.00	76.63	95.42	7263.06	1415.43	-2584.65	664.43	8.00	1381787.15	3194044.90	40.379315	-104.803481
	8100.00	84.04	92.36	7279.84	1511.11	-2591.31	762.70	8.00	1381781.26	3194143.22	40.379297	-104.803128
Landing Point, Hold to TD	8183.10	90.21	89.88	7284.00	1590.65	-2592.93	845.64	8.00	1381780.29	3194226.16	40.379293	-104.802831
	8200.00	90.21	89.88	7283.94	1606.74	-2592.89	862.53	0.00	1381780.45	3194243.05	40.379293	-104.802770
	8300.00	90.21	89.88	7283.57	1701.99	-2592.69	962.53	0.00	1381781.44	3194343.04	40.379293	-104.802411
	8400.00	90.21	89.88	7283.19	1797.24	-2592.48	1062.53	0.00	1381782.43	3194443.03	40.379294	-104.802052
	8500.00	90.21	89.88	7282.82	1892.49	-2592.28	1162.53	0.00	1381783.41	3194543.02	40.379294	-104.801693
	8600.00	90.21	89.88	7282.45	1987.74	-2592.08	1262.53	0.00	1381784.40	3194643.01	40.379295	-104.801334
	8700.00	90.21	89.88	7282.08	2082.99	-2591.87	1362.53	0.00	1381785.39	3194743.00	40.379295	-104.800975
	8800.00	90.21	89.88	7281.71	2178.24	-2591.67	1462.53	0.00	1381786.37	3194842.99	40.379296	-104.800617
	8900.00	90.21	89.88	7281.34	2273.48	-2591.46	1562.53	0.00	1381787.36	3194942.99	40.379297	-104.800258
	9000.00	90.21	89.88	7280.97	2368.73	-2591.26	1662.53	0.00	1381788.35	3195042.98	40.379297	-104.799899
	9100.00	90.21	89.88	7280.60	2463.98	-2591.06	1762.53	0.00	1381789.33	3195142.97	40.379298	-104.799540
	9200.00	90.21	89.88	7280.23	2559.23	-2590.85	1862.53	0.00	1381790.32	3195242.96	40.379298	-104.799181
	9300.00	90.21	89.88	7279.85	2654.48	-2590.65	1962.52	0.00	1381791.31	3195342.95	40.379299	-104.798822
	9400.00	90.21	89.88	7279.48	2749.73	-2590.45	2062.52	0.00	1381792.29	3195442.94	40.379299	-104.798463
	9500.00	90.21	89.88	7279.11	2844.98	-2590.24	2162.52	0.00	1381793.28	3195542.93	40.379300	-104.798104
	9600.00	90.21	89.88	7278.74	2940.23	-2590.04	2262.52	0.00	1381794.27	3195642.92	40.379300	-104.797745
	9700.00	90.21	89.88	7278.37	3035.47	-2589.83	2362.52	0.00	1381795.25	3195742.91	40.379301	-104.797386
	9800.00	90.21	89.88	7278.00	3130.72	-2589.63	2462.52	0.00	1381796.24	3195842.90	40.379301	-104.797027
	9900.00	90.21	89.88	7277.63	3225.97	-2589.43	2562.52	0.00	1381797.23	3195942.89	40.379302	-104.796668
	10000.00	90.21	89.88	7277.26	3321.22	-2589.22	2662.52	0.00	1381798.21	3196042.88	40.379302	-104.796309
	10100.00	90.21	89.88	7276.89	3416.47	-2589.02	2762.52	0.00	1381799.20	3196142.87	40.379303	-104.795951
	10200.00	90.21	89.88	7276.51	3511.72	-2588.81	2862.52	0.00	1381800.19	3196242.86	40.379303	-104.795592
	10300.00	90.21	89.88	7276.14	3606.97	-2588.61	2962.52	0.00	1381801.17	3196342.85	40.379304	-104.795233
	10400.00	90.21	89.88	7275.77	3702.22	-2588.41	3062.51	0.00	1381802.16	3196442.84	40.379305	-104.794874
	10500.00	90.21	89.88	7275.40	3797.46	-2588.20	3162.51	0.00	1381803.15	3196542.83	40.379305	-104.794515
	10600.00	90.21	89.88	7275.03	3892.71	-2588.00	3262.51	0.00	1381804.13	3196642.82	40.379306	-104.794156
	10700.00	90.21	89.88	7274.66	3987.96	-2587.79	3362.51	0.00	1381805.12	3196742.81	40.379306	-104.793797
	10800.00	90.21	89.88	7274.29	4083.21	-2587.59	3462.51	0.00	1381806.11	3196842.80	40.379307	-104.793438
	10900.00	90.21	89.88	7273.92	4178.46	-2587.39	3562.51	0.00	1381807.09	3196942.79	40.379307	-104.793079
	11000.00	90.21	89.88	7273.54	4273.71	-2587.18	3662.51	0.00	1381808.08	3197042.78	40.379308	-104.792720
	11100.00	90.21	89.88	7273.17	4368.96	-2586.98	3762.51	0.00	1381809.07	3197142.77	40.379308	-104.792361
	11200.00	90.21	89.88	7272.80	4464.20	-2586.77	3862.51	0.00	1381810.05	3197242.76	40.379309	-104.792002
	11300.00	90.21	89.88	7272.43	4559.45	-2586.57	3962.51	0.00	1381811.04	3197342.75	40.379309	-104.791643
	11400.00	90.21	89.88	7272.06	4654.70	-2586.37	4062.51	0.00	1381812.03	3197442.74	40.379310	-104.791285
	11500.00	90.21	89.88	7271.69	4749.95	-2586.16	4162.50	0.00	1381813.01	3197542.73	40.379310	-104.790926
	11600.00	90.21	89.88	7271.32	4845.20	-2585.96	4262.50	0.00	1381814.00	3197642.72	40.379311	-104.790567
	11700.00	90.21	89.88	7270.95	4940.45	-2585.76	4362.50	0.00	1381814.99	3197742.71	40.379311	-104.790208
	11800.00	90.21	89.88	7270.58	5035.70	-2585.55	4462.50	0.00	1381815.97	3197842.70	40.379312	-104.789849
	11900.00	90.21	89.88	7270.20	5130.95	-2585.35	4562.50	0.00	1381816.96	3197942.69	40.379312	-104.789490
	12000.00	90.21	89.88	7269.83	5226.19	-2585.14	4662.50	0.00	1381817.95	3198042.68	40.379313	-104.789131
	12100.00	90.21	89.88	7269.46	5321.44	-2584.94	4762.50	0.00	1381818.93	3198142.67	40.379313	-104.788772
	12200.00	90.21	89.88	7269.09	5416.69	-2584.74	4862.50	0.00	1381819.92	3198242.66	40.379314	-104.788413
	12300.00	90.21	89.88	7268.72	5511.94	-2584.53	4962.50	0.00	1381820.91	3198342.65	40.379314	-104.788054
	12400.00	90.21	89.88	7268.35	5607.19	-2584.33	5062.50	0.00	1381821.89	3198442.64	40.379315	-104.787695
	12500.00	90.21	89.88	7267.98	5702.44	-2584.12	5162.50	0.00	1381822.88	3198542.63	40.379315	-104.787336
	12600.00	90.21	89.88	7267.61	5797.69	-2583.92	5262.49	0.00	1381823.87	3198642.62	40.379316	-104.786977
	12700.00	90.21	89.88	7267.23	5892.93	-2583.72	5362.49	0.00	1381824.85	3198742.61	40.379316	-104.786618
	12800.00	90.21	89.88	7266.86	5988.18	-2583.51	5462.49	0.00	1381825.84	3198842.60	40.379317	-104.786260
	12900.00	90.21	89.88	7266.49	6083.43	-2583.31	5562.49	0.00	1381826.83	3198942.59	40.379317	-104.785901
	13000.00	90.21	89.88	7266.12	6178.68	-2583.10	5662.49	0.00	1381827.81	3199042.58	40.379318	-104.785542
	13100.00	90.21	89.88	7265.75	6273.93	-2582.90	5762.49	0.00	1381828.80	3199142.57	40.379318	-104.785183
	13200.00	90.21	89.88	7265.38	6369.18	-2582.70	5862.49	0.00	1381829.79	3199242.56	40.379319	-104.784824
	13300.00	90.21	89.88	7265.01	6464.43	-2582.49	5962.49	0.00	1381830.77	3199342.55	40.379319	-104.784465
	13400.00	90.21	89.88	7264.64	6559.68	-2582.29	6062.49	0.00	1381831.76	3199442.54	40.379320	-104.784106
	13500.00	90.21	89.88	7264.27	6654.92	-2582.08	6162.49	0.00	1381832.75	3199542.53	40.379320	-104.783747
	13600.00	90.21	89.88	7263.89	6750.17	-2581.88	6262.49	0.00	1381833.73	3199642.52	40.379321	-104.783388
	13700.00	90.21	89.88	7263.52	6845.42	-2581.68	6362.48	0.00	1381834.72	3199742.52	40.379321	-104.783029
	13800.00	90.21	89.88	7263.15	6940.67	-2581.47	6462.48	0.00	1381835.71	3199842.51	40.379322	-104.782670
	13900.00	90.21	89.88	7262.78	7035.92	-2581.27	6562.48	0.00	1381836.69	3199942.50	40.379322	-104.782311
	14000.00	90.21	89.88	7262.41	7131.17	-2581.07	6662.48	0.00	1381837.68	3200042.49	40.379323	-104.781952
	14100.00	90.21	89.88	7262.04	7226.42	-2580.86	6762.48	0.00	1381838.67	3200142.48	40.379323	-104.781593
	14200.00	90.21	89.88	7261.67	7321.66	-2580.66	6862.48	0.00	1381839.65	3200242.47	40.379324	-104.781234
	14300.00	90.21	89.88	7261.30	7416.91	-2580.45	6962.48	0.00	1381840.64	3200342.46	40.379324	-104.780875
	14400.00	90.21	89.88	7260.92	7512.16	-2580.25	7062.48	0.00	1381841.63	3200442.45	40.379325	-104.780516
	14500.00	90.21	89.88	7260.55	7607.41	-2580.05	7162.48	0.00	1381842.61	3200542.44	40.379325	-104.780157
	14600.00	90.21	89.88	7260.18	7702.66	-2579.84	7262.48	0.00	1381843.60	3200642.43	40.379326	-104.779799
	14700.00	90.21	89.88	7259.81	7797.91	-2579.64	7362.48	0.00	1381844.59	3200742.42	40.379326	-104.779440
	14800.00	90.21	89.88	7259.44	7893.16	-2579.43	7462.48	0.00	1381845.57	3200842.41	40.379327	-104.779081
	14900.00	90.21	89.88	7259.07	7988.41	-2579.23						

Stugart 22N R2 mdv 10June20 Anti-Collision Summary Report

Analysis Date-24hr Time: June 19, 2020 - 11:30

Client: PDC Energy

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

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

Slot: Stugart 22N

Well: Stugart 22N

Borehole: Original Hole

Scan MD Range: 0.00ft ~ 15457.42ft

Analysis Method: 3D Least Distance

Reference Trajectory: Stugart 22N 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: ISCWSA0 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

Wiedeman 21-15H6 GYRO 0' to 7491' - AB (Def Survey) Fail Major

7039.82	32.81	7038.01	7007.02	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
7039.74	32.81	7037.84	7006.94	79085.68		MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
7038.03	32.81	7035.28	7005.22	7483.29		MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
6635.18	33.06	6612.57	6602.09	316.61		OSF1.50	4640.00	4377.12				MinPt-CtCt	
6635.29	33.46	6612.44	6601.83	312.53		OSF1.50	4690.00	4423.53				MINPT-O-EQU	
6635.43	33.62	6612.48	6601.81	310.92		OSF1.50	4710.00	4442.09				MinPt-O-ADP	
194.62	65.26	148.40	129.36	4.90		OSF1.50	13830.00	7263.04	OSF<5.00			Enter Alert	
64.66	67.31	17.06	-2.65	1.43		OSF1.50	13960.00	7262.56		OSF<1.50		Enter Minor	
44.69	68.77	-3.87	-24.09	0.90		OSF1.50	13980.00	7262.48			OSF<1.00	Enter Major	
5.36	122.31	-78.16	-116.96	-0.01		OSF1.50	14020.00	7262.34				MinPts	
35.51	54.91	-1.64	-19.41	0.95		OSF1.50	14060.00	7262.19			OSF>1.00	Exit Major	
55.47	55.65	17.83	-0.19	1.49		OSF1.50	14080.00	7262.11		OSF>1.50		Exit Minor	
185.42	57.17	146.77	128.25	4.96		OSF1.50	14210.00	7261.63	OSF>5.00			Exit Alert	
1432.81	58.23	1393.45	1374.57	37.91		OSF1.50	15457.42	7257.00				TD	

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

8371.53	32.81	8369.72	8338.72	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
8371.46	32.81	8369.57	8338.65	104088.00		MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
1420.50	433.06	1129.05	987.44	4.99		OSF1.50	13890.00	7262.82	OSF<5.00			Enter Alert	
431.21	434.33	136.64	-3.12	1.49		OSF1.50	14880.00	7259.14		OSF<1.50		Enter Minor	
291.69	434.90	-1.26	-143.20	1.00		OSF1.50	15020.00	7258.62			OSF<1.00	Enter Major	
29.50	474.68	-287.49	-445.19	0.09		OSF1.50	15310.00	7257.55				MinPts	
150.15	426.19	-134.52	-276.05	0.52		OSF1.50	15457.42	7257.00				TD	

UPRC 21-14H6 GYRO 0' to 7418' - AB (Def Survey) Fail Major

5797.99	32.81	5796.17	5765.18	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
5797.90	32.81	5795.99	5765.09	59697.87		MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
5796.26	32.81	5793.48	5763.45	5966.29		MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
5583.14	32.81	5570.63	5550.33	516.39		MAS = 10.00 (m)	2130.00	2047.21				MinPt-O-SF	
252.54	82.63	195.47	169.91	4.82		OSF1.50	12360.00	7268.50	OSF<5.00			Enter Alert	
109.73	121.36	27.50	-11.63	1.35		OSF1.50	12520.00	7267.90		OSF<1.50		Enter Minor	
89.64	136.36	-2.15	-46.71	0.98		OSF1.50	12550.00	7267.79			OSF<1.00	Enter Major	
73.20	150.14	-27.43	-76.96	0.72		OSF1.50	12600.00	7267.61				MinPts	
82.54	127.83	-3.22	-45.30	0.96		OSF1.50	12640.00	7267.46			OSF>1.00	Exit Major	
100.01	105.28	29.29	-5.27	1.42		OSF1.50	12670.00	7267.35		OSF>1.50		Exit Minor	
201.85	63.60	158.91	138.25	4.84		OSF1.50	12790.00	7266.90	OSF>5.00			Exit Alert	
2855.43	55.40	2817.96	2800.03	79.58		OSF1.50	15457.42	7257.00				TD	

Stugart 23N R2 mdv 10June20 (Def Plan) Fail Minor

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	12.67	2.79	11.18		MAS = 3.69 (m)	290.00	290.00				MinPt-O-SF	
14.90	12.11	12.67	2.79	11.18		MAS = 3.69 (m)	300.00	300.00				MINPT-O-EQU	
14.08	12.91	5.14	1.17	1.65		OSF1.50	1350.00	1323.17				MinPt-CtCt	
14.27	13.56	4.90	0.71	1.59		OSF1.50	1390.00	1360.30				MINPT-O-EQU	
14.50	13.84	4.95	0.66	1.59		OSF1.50	1410.00	1378.87				MinPts	
91.24	34.66	67.80	56.57	4.02		OSF1.50	3790.00	3588.10				MinPt-O-SF	
203.08	80.63	149.00	122.45	3.81		OSF1.50	7069.53	6632.33				MinPt-O-SF	
226.55	226.72	75.08	-0.17	1.50		OSF1.50	12850.00	7266.68		OSF<1.50		Enter Minor	
225.58	317.88	13.38	-82.22	1.06		OSF1.50	15457.42	7257.00				MinPts	

HSR-Wiedeman 15-20 GYRO 0' to 7527' - AB (Def Survey) Fail Minor

2739.34	32.81	2737.53	2706.54	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
2739.28	32.81	2737.39	2706.47	37168.99		MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
2738.92	32.81	2737.00	2706.11	26771.27		MAS = 10.00 (m)	50.00	50.00				MinPts	
2738.97	32.81	2736.97	2706.16	15211.28		MAS = 10.00 (m)	80.00	80.00				MINPT-O-EQU	
2739.62	32.81	2736.52	2706.81	2136.72		MAS = 10.00 (m)	390.00	389.94				MinPt-O-SF	
2736.21	32.81	2733.05	2703.40	2038.27		MAS = 10.00 (m)	460.00	459.81				MinPt-O-SF	
197.45	61.82	155.50	135.63	4.91		OSF1.50	8270.00	7283.68	OSF<5.00			Enter Alert	
62.22	65.32	18.13	-3.11	1.43		OSF1.50	8420.00	7283.12		OSF<1.50		Enter Minor	
45.90	65.90	1.43	-20.01	1.03		OSF1.50	8460.00	7282.97				MinPts	
59.51	61.04	18.28	-1.53	1.46		OSF1.50	8500.00	7282.82		OSF>1.50		Exit Minor	
183.75	58.93	143.93	124.82	4.77		OSF1.50	8640.00	7282.30	OSF>5.00			Exit Alert	
6995.32	59.52	6955.10	6935.80	181.13		OSF1.50	15457.42	7257.00				TD	

UPRC 21-13H6 GYRO 0' to 7440' - AB (Def Survey) Fail Minor

4649.93	32.81	4648.12	4617.12	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	
4649.84	32.81	4647.93	4617.03	46221.53		MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
4648.70	32.81	4646.63	4615.89	18026.52		MAS = 10.00 (m)	110.00	110.00				MinPts	
4648.90	32.81	4646.16	4616.09	4996.24		MAS = 10.00 (m)	250.00	250.00				MINPT-O-EQU	
4648.78	32.81	4645.99	4615.97	4763.28		MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
210.64	69.88	161.95	140.76	4.82		OSF1.50	10960.00	7273.69	OSF<5.00			Enter Alert	
113.28	115.20	34.96	-1.92	1.47		OSF1.50	11130.00	7273.06		OSF<1.50		Enter Minor	
113.04	116.70	33.83	-3.66	1.45		OSF1.50	11140.00	7273.02				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 21NA R2 mdv 10June20 (Def Plan)	113.67	117.50	34.06	3.83	1.45	OSF1.50	11150.00	7272.99				MinPts	
	115.18	117.61	35.62	2.42	1.47	OSF1.50	11160.00	7272.95				Exit Minor	
	267.30	82.68	211.65	184.63	4.92	OSF1.50	11380.00	7272.13	OSF<5.00	OSF>1.50		Exit Alert	
	4321.06	60.56	4280.15	4260.50	109.90	OSF1.50	15457.42	7257.00				TD	
Warning Alert													
Stugart 24N 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	
	15.11	12.28	12.88	2.83	11.34	MAS = 3.74 (m)	290.00	290.00				MinPts	
	14.52	12.28	6.22	2.24	1.85	MAS = 3.74 (m)	1290.00	1267.31				MinPts	
	14.71	12.61	5.98	2.11	1.77	OSF1.50	1330.00	1304.60				MINPT-O-EQU	
	15.97	14.05	6.27	1.91	1.72	OSF1.50	1430.00	1397.43				MinPt-O-ADP	
	16.93	15.02	6.59	1.91	1.70	OSF1.50	1500.00	1462.41				MinPt-O-ADP	
	18.55	16.52	7.21	2.03	1.70	OSF1.50	1610.00	1564.52				MinPt-O-SF	
	116.50	74.10	66.77	42.40	2.37	OSF1.50	6810.00	6391.42				MinPt-O-SF	
	205.46	63.00	163.14	142.46	4.95	OSF1.50	7440.00	6959.35	OSF<5.00			Exit Alert	
	288.89	87.51	230.23	201.39	4.99	OSF1.50	10370.00	7275.88	OSF<5.00			Enter Alert	
	279.10	263.47	103.13	15.63	1.59	OSF1.50	15457.42	7257.00				MinPts	
Warning Alert													
Stugart 20N R2 mdv 10June20 (Def Plan)	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	23.31	MAS = 7.38 (m)	300.00	300.00				MINPT-O-EQU	
	28.42	24.20	19.49	4.22	3.45	MAS = 7.38 (m)	1350.00	1323.17				MinPts	
	28.64	24.20	19.15	4.44	3.25	MAS = 7.38 (m)	1400.00	1369.59				MINPT-O-EQU	
	30.21	24.20	19.92	6.01	3.14	MAS = 7.38 (m)	1480.00	1443.85				MinPt-O-SF	
	62.50	24.20	49.12	38.30	4.96	MAS = 7.38 (m)	2120.00	2037.93	OSF<5.00			Exit Alert	
	356.98	81.96	302.01	275.02	6.59	OSF1.50	7069.53	6632.33				MinPt-O-SF	
	438.04	119.06	358.34	318.98	5.55	OSF1.50	9910.00	7277.59				MinPt-CtCt	
	438.04	132.16	349.61	305.89	5.00	OSF1.50	10370.00	7275.88	OSF<5.00			Enter Alert	
	438.36	304.48	235.05	133.89	2.16	OSF1.50	15457.42	7257.00				MinPts	
Warning Alert													
Stugart 19N 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			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	35.44	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	
	43.51	32.81	37.38	10.70	8.27	MAS = 10.00 (m)	1090.00	1078.02				MinPts	
	43.72	32.81	37.19	10.91	7.71	MAS = 10.00 (m)	1130.00	1116.23				MINPT-O-EQU	
	49.03	32.81	40.95	16.22	6.77	MAS = 10.00 (m)	1300.00	1276.65	CtCt<=15m>15.00			Exit Alert	
	49.60	32.81	41.43	16.79	6.76	MAS = 10.00 (m)	1310.00	1285.98				MinPt-O-SF	
	552.09	71.75	503.93	480.34	11.68	OSF1.50	6910.00	6484.25				MinPt-O-SF	
	657.07	197.87	524.83	459.20	5.00	OSF1.50	12460.00	7268.13	OSF<5.00			Enter Alert	
	657.06	305.25	453.23	351.81	3.23	OSF1.50	15457.42	7257.00				MinPts	
Warning Alert													
Stugart 18N R2 mdv 10June20 (Def Plan)	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	27.20	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	
	58.14	32.81	52.80	25.34	13.11	MAS = 10.00 (m)	1010.00	1001.12				MinPts	
	58.34	32.81	52.62	25.53	12.11	MAS = 10.00 (m)	1050.00	1039.64				MINPT-O-EQU	
	69.68	32.81	61.65	36.87	9.79	MAS = 10.00 (m)	1310.00	1285.98				MinPt-O-SF	
	719.01	69.25	672.52	649.76	15.78	OSF1.50	6830.00	6409.99				MinPt-O-SF	
	877.58	263.99	701.26	613.59	5.00	OSF1.50	14420.00	7260.85	OSF<5.00			Enter Alert	
	877.58	301.76	676.05	575.79	4.37	OSF1.50	15457.42	7257.00				MinPts	
Warning Alert													
HSR-Wiedeman 16-20 GYRO 0' to 7501' - AB (Def Survey)	3589.09	32.81	3587.28	3556.28	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3589.07	32.81	3587.23	3556.26	141804.04	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3588.11	32.81	3585.11	3555.30	3014.92	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	225.18	72.81	175.66	152.37	4.77	OSF1.50	9760.00	7278.15	OSF<5.00			Enter Alert	
	96.37	89.15	36.40	7.22	1.62	OSF1.50	9950.00	7277.44				MinPts	
	95.43	88.17	36.12	7.26	1.63	OSF1.50	9960.00	7277.40				MinPts	
	182.80	58.33	143.37	124.46	4.79	OSF1.50	10120.00	7276.81	OSF>5.00			Exit Alert	
	5493.64	58.20	5454.30	5435.43	145.56	OSF1.50	15457.42	7257.00				TD	
Warning Alert													
A.J. Gold 22-13 Blind 0' to 7426' - PR (Def Survey)	9348.20	32.81	9346.39	9315.39	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	9348.13	32.81	9346.24	9315.32	118073.48	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1424.32	435.38	1131.15	988.93	4.98	OSF1.50	14990.00	7258.73	OSF<5.00			Enter Alert	
	967.95	438.33	672.79	529.61	3.35	OSF1.50	15457.42	7257.00				MinPts	
Warning Alert													
Wiedeman R.J. 20-13 GYRO 0' to 7980' - PA (Def Survey)	2338.95	32.81	2337.14	2306.14	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	2338.93	32.81	2337.09	2306.12	100343.78	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	2337.96	32.81	2335.10	2305.16	2227.01	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	1102.36	300.19	901.70	802.17	5.53	OSF1.50	6280.00	5899.45				MinPt-CtCt	
	1108.06	317.13	896.11	790.93	5.26	OSF1.50	6580.00	6177.92				MINPT-O-EQU	
	1115.18	325.58	897.59	789.60	5.16	OSF1.50	6730.00	6317.16				MinPt-O-ADP	
	1137.69	342.45	908.85	795.23	5.00	OSF1.50	7030.00	6595.64	OSF<5.00			Enter Alert	
	1150.03	348.02	917.48	802.01	4.97	OSF1.50	7130.00	6688.35				MinPt-O-SF	
	1172.49	352.93	936.67	819.57	5.00	OSF1.50	7220.00	6770.69	OSF>5.00			Exit 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		
	9123.53	381.95	8868.36	8741.58	35.97	OSF1.50	15457.42	7257.00				TD	
UPV 21-11H6 Blind 0' to 7440' - AB (Def Survey)													Warning Alert
	5613.25	32.81	5611.44	5580.44	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5613.17	32.81	5611.27	5580.36	63075.20	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	5383.54	277.67	5197.89	5105.87	29.24	OSF1.50	5050.00	4757.70				MinPt-CtCt	
	5410.82	359.43	5170.66	5051.39	22.68	OSF1.50	6510.00	6112.95				MINPT-O-EOU	
	1475.27	445.14	1177.98	1030.13	4.98	OSF1.50	12090.00	7269.50	OSF<5.00			Enter Alert	
	1292.27	452.54	990.04	839.73	4.29	OSF1.50	12800.00	7266.86				MinPts	
	1292.29	452.57	990.05	839.72	4.28	OSF1.50	12810.00	7266.83				MinPts	
	1488.31	448.67	1188.67	1039.64	4.99	OSF1.50	13540.00	7264.12	OSF>5.00			Exit Alert	
	2953.45	434.61	2663.17	2518.83	10.23	OSF1.50	15457.42	7257.00				TD	
UPRC 21-12H6 Blind 0' to 7502' - AB (Def Survey)													Warning Alert
	4194.01	32.81	4192.19	4161.20	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	4193.92	32.81	4192.02	4161.11	44515.22	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3954.20	250.51	3786.66	3703.69	23.82	OSF1.50	4540.00	4284.29				MinPt-CtCt	
	3974.20	310.40	3766.74	3663.80	19.30	OSF1.50	5610.00	5277.52				MINPT-O-EOU	
	3999.89	341.22	3771.87	3656.66	17.66	OSF1.50	6160.00	5788.06				MinPt-O-ADP	
	1467.56	441.76	1172.52	1025.80	5.00	OSF1.50	10950.00	7273.73	OSF<5.00			Enter Alert	
	1407.87	443.95	1111.36	963.92	4.77	OSF1.50	11360.00	7272.21				MinPt-CtCt	
	1407.87	443.98	1111.35	963.89	4.77	OSF1.50	11370.00	7272.17				MinPts	
	1407.95	444.01	1111.41	963.94	4.77	OSF1.50	11380.00	7272.13				MinPt-O-SF	
	1473.73	443.94	1177.23	1029.79	4.99	OSF1.50	11800.00	7270.58	OSF>5.00			Exit Alert	
	4328.41	432.28	4039.70	3896.14	15.07	OSF1.50	15457.42	7257.00				TD	
Stugart 17C R2 mdv 10June20 (Def Plan)													Pass
	74.88	32.81	73.89	42.07	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	74.88	32.81	73.89	42.07	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	74.87	32.81	72.64	42.06	59.39	MAS = 10.00 (m)	290.00	290.00				MinPt-O-SF	
	74.87	32.81	72.64	42.06	59.46	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	73.04	32.81	68.71	40.23	21.53	MAS = 10.00 (m)	900.00	894.44				MinPts	
	73.19	32.81	68.50	40.38	19.50	MAS = 10.00 (m)	940.00	933.35				MINPT-O-EOU	
	92.44	32.81	84.78	59.63	13.69	MAS = 10.00 (m)	1290.00	1267.31				MinPt-O-SF	
	967.88	69.12	921.47	896.75	21.29	OSF1.50	6960.00	6530.66				MinPt-O-SF	
	1103.37	309.36	896.81	794.02	5.36	OSF1.50	15457.42	7257.00				MinPts	
Stugart 16N R2 mdv 10June20 (Def Plan)													Pass
	89.99	32.81	89.01	57.18	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	89.99	32.81	89.00	57.18	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	89.99	32.81	87.76	57.18	71.72	MAS = 10.00 (m)	250.00	250.00				MinPts	
	89.99	32.81	87.76	57.18	71.52	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	89.99	32.81	87.76	57.18	71.49	MAS = 10.00 (m)	290.00	290.00				MinPt-O-SF	
	89.98	32.81	87.75	57.17	71.49	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	88.27	32.81	84.54	55.46	31.86	MAS = 10.00 (m)	830.00	826.05				MinPts	
	88.46	32.81	84.40	55.65	28.48	MAS = 10.00 (m)	870.00	865.17				MINPT-O-EOU	
	120.65	32.81	112.88	87.84	17.62	MAS = 10.00 (m)	1320.00	1295.29				MinPt-O-SF	
	1125.46	66.77	1080.62	1058.69	25.64	OSF1.50	6880.00	6456.40				MinPt-O-SF	
	1314.32	304.95	1110.70	1009.39	6.45	OSF1.50	15457.42	7257.00				MinPts	
Stugart 10N 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	97.69	67.18	74.93	MAS = 10.00 (m)	300.00	300.00				MinPts	
	99.99	32.81	97.71	67.18	76.44	MAS = 10.00 (m)	310.00	310.00				MinPts	
	212.82	32.81	206.61	180.02	40.53	MAS = 10.00 (m)	1130.00	1116.23				MinPt-O-SF	
	2400.49	62.79	2358.31	2337.71	58.24	OSF1.50	7100.00	6660.59				MinPt-O-SF	
	2639.69	308.58	2433.65	2331.11	12.87	OSF1.50	15457.42	7257.00				MinPts	
Stugart 11N R2 mdv 10June20 (Def Plan)													Pass
	101.16	32.81	100.18	68.35	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	101.16	32.81	100.18	68.35	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	101.02	32.81	98.77	68.21	79.36	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	100.08	32.81	98.31	67.27	126.52	MAS = 10.00 (m)	410.00	409.92				MINPT-O-EOU	
	100.08	32.81	98.32	67.27	128.16	MAS = 10.00 (m)	420.00	419.90				MinPts	
	210.09	32.81	203.60	177.28	36.04	MAS = 10.00 (m)	1230.00	1211.00				MinPt-O-SF	
	2188.92	62.95	2146.63	2125.97	52.96	OSF1.50	7069.53	6632.33				MinPt-O-SF	
	2419.92	307.17	2214.82	2112.76	11.85	OSF1.50	15457.42	7257.00				MinPts	
Stugart 09C R2 mdv 10June20 (Def Plan)													Pass
	101.25	32.81	100.26	68.44	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	101.25	32.81	100.26	68.44	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	101.25	32.81	99.02	68.44	80.58	MAS = 10.00 (m)	250.00	250.00				MinPts	
	101.27	32.81	99.01	68.46	78.76	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	211.23	32.81	205.16	178.42	41.31	MAS = 10.00 (m)	1020.00	1010.76				MinPt-O-SF	
	2585.33	61.98	2543.68	2523.35	63.55	OSF1.50	7069.53	6632.33				MinPt-O-SF	
	2859.89	308.40	2653.96	2551.49	13.95	OSF1.50	15457.42	7257.00				MinPts	
Stugart 12N R2 mdv 10June20 (Def Plan)													Pass
	104.29	32.81	103.30	71.48	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	104.29	32.81	103.30	71.48	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	104.21	32.81	101.97	71.40	82.49	MAS = 10.00 (m)	290.00	290.00				MinPt-O-SF	
	104.16	32.81	101.93	71.36	82.61	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	101.67	32.81	100.01	68.86	148.74	MAS = 10.00 (m)	530.00	529.55				MinPts	
	101.72	32.81	99.96	68.91	131.05	MAS = 10.00 (m)	550.00	549.45				MINPT-O-EOU	
	180.07	32.81	173.59	147.27	32.54	MAS = 10.00 (m)	1230.00	1211.00				MinPt-O-SF	
	1927.23	61.89	1885.65	1865.34	47.44	OSF1.50	6880.00	6465.68				MinPt-O-SF	
	2202.08	305.00	1998.42	1897.08	10.86	OSF1.50	15457.42	7257.00				MinPts	
Stugart 15N R2 mdv 10June20 (Def Plan)													Pass
	104.89	32.81	103.91	72.08	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	104.89	32.81	103.90	72.08	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	104.89	32.81	102.66	72.08	83.72	MAS = 10.00 (m)	250.00	250.00				MinPts	
	104.88	32.81	102.66	72.08	83.45	MAS = 10.00 (m)	290.00	290.00				MinPt-O-SF	
	104.88	32.81	102.65	72.07	83.49	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	104.55	32.81	103.14	71.74	242.67	MAS = 10.00 (m)	480.00	479.75				MINPT-O-EOU	
	103.27	32.81	100.21	70.46	49.15	MAS = 10.00 (m)	750.00	747.47				MinPts	
	103.39	32.81	100.09	70.58	44.27	MAS = 10.00 (m)	780.00	776.98				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		
	151.66	32.81	143.88	118.86	22.14	MAS = 10.00 (m)	1340.00	1313.89				MinPt-O-SF	
	1277.02	63.68	1234.25	1213.35	36.59	OSF1.50	6720.00	6307.88				MinPt-O-SF	
	1633.56	302.92	1331.29	1230.64	7.61	OSF1.50	15457.42	7257.00				MinPts	
Stugart 08N R2 mdv 10June20 (Def Plan)													Pass
	104.18	32.81	103.20	71.37	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	104.18	32.81	103.20	71.37	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	104.19	32.81	101.95	71.37	82.94	MAS = 10.00 (m)	250.00	250.00				MinPts	
	104.21	32.81	101.95	71.40	80.96	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	225.72	32.81	219.81	192.91	45.63	MAS = 10.00 (m)	980.00	972.13				MinPt-O-SF	
	2783.44	61.41	2742.17	2722.03	69.07	OSF1.50	7069.53	6632.33				MinPt-O-SF	
	3076.96	306.19	2872.51	2770.77	15.12	OSF1.50	15457.42	7257.00				MinPts	
Stugart 07N R2 mdv 10June20 (Def Plan)													Pass
	109.42	32.81	108.44	76.62	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	109.42	32.81	108.44	76.62	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	109.42	32.81	107.20	76.62	87.16	MAS = 10.00 (m)	250.00	250.00				MinPts	
	246.46	32.81	240.58	213.66	50.13	MAS = 10.00 (m)	970.00	962.44				MinPt-O-SF	
	2979.90	60.89	2938.98	2919.01	74.59	OSF1.50	7069.53	6632.33				MinPt-O-SF	
	2993.68	61.17	2952.57	2932.51	74.59	OSF1.50	7100.00	6660.59				MinPt-O-SF	
	3296.59	305.48	3092.56	2991.06	16.23	OSF1.50	15457.42	7257.00				MinPts	
Stugart 06N R2 mdv 10June20 (Def Plan)													Pass
	116.46	32.81	115.48	83.65	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	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	
	263.73	32.81	257.89	230.92	54.12	MAS = 10.00 (m)	960.00	952.75				MinPt-O-SF	
	3177.18	60.74	3136.36	3116.44	79.73	OSF1.50	7100.00	6660.59				MinPt-O-SF	
	3514.95	305.75	3310.79	3209.20	17.25	OSF1.50	15457.42	7257.00				MinPts	
Stugart 14N R2 mdv 10June20 (Def Plan)													Pass
	120.00	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	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	87.16	95.57	MAS = 10.00 (m)	290.00	290.00				MinPt-O-SF	
	119.98	32.81	117.75	87.17	95.67	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	118.49	32.81	116.13	85.69	84.86	MAS = 10.00 (m)	660.00	658.60				MinPts	
	118.61	32.81	116.03	85.80	73.64	MAS = 10.00 (m)	690.00	688.27				MINPT-O-EOU	
	190.24	32.81	182.38	157.44	27.52	MAS = 10.00 (m)	1370.00	1341.74				MinPt-O-SF	
	196.90	32.81	190.73	166.09	27.53	MAS = 10.00 (m)	1410.00	1378.87				MinPt-O-SF	
	218.73	32.81	209.86	185.92	27.62	MAS = 10.00 (m)	1500.00	1462.41				MinPt-O-SF	
	1513.08	63.94	1470.13	1449.14	36.03	OSF1.50	6860.00	6437.83				MinPt-O-SF	
	1752.17	212.78	1609.99	1539.40	12.40	OSF1.50	12950.00	7266.31				MinPt-CICt	
	1752.18	303.51	1549.51	1448.66	8.68	OSF1.50	15457.42	7257.00				MinPts	
Stugart 05NA 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	123.88	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	
	264.02	32.81	258.49	231.21	57.84	MAS = 10.00 (m)	910.00	904.18				MinPt-O-SF	
	3386.10	60.29	3345.58	3325.81	85.62	OSF1.50	7100.00	6660.59				MinPt-O-SF	
	3739.10	304.94	3535.48	3434.16	18.45	OSF1.50	15457.42	7257.00				MinPts	
Stugart 13NA R2 mdv 10June20 (Def Plan)													Pass
	134.90	32.81	133.92	102.09	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	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	
	134.88	32.81	132.65	102.06	107.53	MAS = 10.00 (m)	290.00	290.00				MinPt-O-SF	
	134.88	32.81	132.65	102.07	107.70	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	133.67	32.81	131.86	100.86	161.46	MAS = 10.00 (m)	580.00	579.27				MinPts	
	133.76	32.81	131.77	100.95	131.31	MAS = 10.00 (m)	610.00	609.05				MINPT-O-EOU	
	239.77	32.81	231.49	206.96	32.73	MAS = 10.00 (m)	1440.00	1406.72				MinPt-O-SF	
	279.67	32.81	270.16	246.86	32.70	MAS = 10.00 (m)	1600.00	1555.24				MinPt-O-SF	
	1620.39	59.98	1580.07	1560.41	41.18	OSF1.50	6600.00	6196.49				MinPt-O-SF	
	1978.99	299.92	1778.71	1679.07	9.93	OSF1.50	15457.42	7257.00				MinPts	
Stugart 04N R2 mdv 10June20 (Def Plan)													Pass
	134.44	32.81	133.46	101.64	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	134.44	32.81	133.46	101.63	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	134.44	32.81	132.22	101.63	107.54	MAS = 10.00 (m)	250.00	250.00				MinPts	
	134.47	32.81	132.22	101.66	104.94	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	261.62	32.81	256.34	228.81	60.71	MAS = 10.00 (m)	870.00	865.17				MinPt-O-SF	
	3546.30	59.96	3506.00	3486.34	90.17	OSF1.50	7100.00	6660.59				MinPt-O-SF	
	3960.74	71.05	3913.04	3889.69	84.77	OSF1.50	8100.00	7279.84				MINPT-O-EOU	
	3961.17	71.56	3913.13	3889.61	84.17	OSF1.50	8110.00	7280.81				MinPt-O-ADP	
	3953.38	305.79	3749.20	3647.59	19.45	OSF1.50	15457.42	7257.00				MinPts	
Stugart 03N R2 mdv 10June20 (Def Plan)													Pass
	144.94	32.81	143.96	112.14	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	144.94	32.81	143.96	112.13	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	144.94	32.81	142.72	112.13	116.00	MAS = 10.00 (m)	250.00	250.00				MinPts	
	144.97	32.81	142.72	112.16	113.20	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	272.15	32.81	266.88	239.34	63.23	MAS = 10.00 (m)	870.00	865.17				MinPt-O-SF	
	3707.38	59.63	3667.30	3647.75	94.80	OSF1.50	7100.00	6660.59				MinPt-O-SF	
	4172.01	306.25	3967.51	3865.76	20.50	OSF1.50	15457.42	7257.00				MinPts	
Stugart State 02C R2 mdv 10June20 (Def Plan)													Pass
	156.20	32.81	155.22	123.39	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	156.20	32.81	155.21	123.39	N/A	MAS = 10.00 (m)	4.00	4.00				WRP	
	156.20	32.81	153.97	123.39	125.07	MAS = 10.00 (m)	250.00	250.00				MinPts	
	156.23	32.81	153.97	123.42	122.06	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	294.86	32.81	289.40	262.05	65.69	MAS = 10.00 (m)	900.00	894.44				MinPt-O-SF	
	3850.66	59.32	3810.79	3791.34	98.98	OSF1.50	7100.00	6660.59				MinPt-O-SF	
	4365.40	63.51	4322.73	4301.88	104.70	OSF1.50	8420.00	7283.12				MinPt-O-SF	
	4398.18	63.96	4355.21	4334.22	104.73	OSF1.50	8550.00	7282.64				MinPt-O-SF	
	4392.98	306.73	4188.16	4086.24	21.55	OSF1.50	15457.42	7257.00				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 State 01N R2 mdv 10June20 (Def Plan)													
	168.01	32.81	167.03	135.20	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	168.01	32.81	167.02	135.20	N/A	MAS = 10.00 (m)	4.00	4.00					Surface
	168.01	32.81	166.10	135.20	180.21	MAS = 10.00 (m)	200.00	200.00					WRP
	168.07	32.81	166.03	135.26	159.03	MAS = 10.00 (m)	220.00	220.00					MinPts
	329.19	32.81	323.52	296.38	70.06	MAS = 10.00 (m)	930.00	923.63					MINPT-O-EOU
	4047.91	58.90	4008.32	3989.01	104.81	OSF1.50	7100.00	6660.59					MinPt-O-SF
	4578.95	62.84	4536.73	4516.11	111.01	OSF1.50	8430.00	7283.08					MinPt-O-SF
	4610.56	63.26	4568.05	4547.29	111.02	OSF1.50	8560.00	7282.60					MinPt-O-SF
	4610.39	306.77	4405.55	4303.62	22.61	OSF1.50	15457.42	7257.00					MinPts
HSR-Wiedeman 14-20 GYRO 0' to 7527' - AB (Def Survey)													
	2599.35	32.81	2597.54	2566.54	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	2599.32	32.81	2597.47	2566.51	73518.10	MAS = 10.00 (m)	4.00	4.00					Surface
	2598.52	32.81	2595.60	2565.71	2340.22	MAS = 10.00 (m)	300.00	300.00					MinPt-O-SF
	1991.69	32.81	1980.16	1958.88	205.81	MAS = 10.00 (m)	2450.00	2344.25					MinPt-O-SF
	198.91	57.40	159.46	141.51	5.44	OSF1.50	7410.00	6935.13					MinPts
	198.97	57.39	159.54	141.58	5.44	OSF1.50	7420.00	6943.27					MinPt-O-SF
	8018.18	60.32	7977.44	7957.87	204.81	OSF1.50	15457.42	7257.00					TD
Stugart 6-20 Blind 0' to 7610' - PR (Def Survey)													
	371.81	32.81	369.99	339.00	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	371.68	32.81	369.75	338.87	3083.74	MAS = 10.00 (m)	4.00	4.00					Surface
	371.55	32.81	361.23	338.74	43.45	MAS = 10.00 (m)	250.00	250.00					MinPt-O-SF
	373.94	32.81	358.79	341.14	27.89	MAS = 10.00 (m)	370.00	369.96					MinPts
	2707.37	401.07	2439.45	2306.30	10.16	OSF1.50	7110.00	6669.85					MINPT-O-EOU
	8755.36	437.10	8463.42	8318.26	30.15	OSF1.50	15457.42	7257.00					MinPt-O-SF
													TD
Stugart 22-20 MWD 0' to 7736' - PR (Def Survey)													
	376.27	32.81	374.46	343.46	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	376.27	32.81	374.46	343.46	N/A	MAS = 10.00 (m)	4.00	4.00					Surface
	376.27	32.81	373.36	343.46	341.82	MAS = 10.00 (m)	250.00	250.00					WRP
	376.29	32.81	373.35	343.48	333.53	MAS = 10.00 (m)	260.00	260.00					MinPts
	459.41	32.81	453.05	426.60	100.61	MAS = 10.00 (m)	970.00	962.44					MINPT-O-EOU
	693.40	32.81	682.79	660.59	76.87	MAS = 10.00 (m)	1900.00	1833.71					MinPt-O-SF
	1465.37	49.81	1431.63	1415.56	45.55	OSF1.50	5730.00	5388.91					MinPt-O-SF
	9000.59	68.18	8954.60	8932.41	202.75	OSF1.50	15457.42	7257.00					MinPt-O-SF
													TD
Lundvall 11-20 MWD 0' to 7810' - PR (Def Survey)													
	2327.11	32.81	2325.30	2294.31	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	2327.09	32.81	2325.26	2294.29	121878.01	MAS = 10.00 (m)	4.00	4.00					Surface
	2233.02	32.81	2226.20	2200.21	446.96	MAS = 10.00 (m)	1020.00	1010.76					MinPt-O-SF
	1232.07	32.81	1215.94	1199.26	87.66	MAS = 10.00 (m)	3440.00	3263.22					MinPt-O-SF
	436.78	45.77	405.74	391.02	14.78	OSF1.50	5220.00	4915.50					MinPt-CiCt
	436.83	45.93	405.67	390.90	14.73	OSF1.50	5230.00	4924.79					MINPT-O-EOU
	436.98	46.10	405.71	390.88	14.68	OSF1.50	5240.00	4934.07					MinPt-O-ADP
	446.04	47.94	413.54	398.09	14.39	OSF1.50	5360.00	5045.46					MinPt-O-SF
	8254.14	67.43	8208.65	8186.71	188.04	OSF1.50	15457.42	7257.00					TD
Bensler J 29-27D GYRO 0' to 7588' - PR (Def Survey)													
	4258.84	32.81	4257.02	4226.03	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	4258.78	32.81	4256.90	4225.97	65468.14	MAS = 10.00 (m)	4.00	4.00					Surface
	4254.86	32.81	4251.82	4222.05	3466.05	MAS = 10.00 (m)	300.00	300.00					MinPt-O-SF
	632.97	78.89	578.88	554.08	12.67	OSF1.50	9180.00	7280.30					MinPt-O-SF
	633.09	79.17	578.83	553.92	12.62	OSF1.50	9190.00	7280.26					MinPt-CiCt
	646.79	82.06	590.75	564.73	12.35	OSF1.50	9310.00	7279.82					MinPts
	6312.25	75.22	6261.57	6237.03	128.59	OSF1.50	15457.42	7257.00					MinPt-O-SF
													TD
Wiedeman 25-20 GYRO 0' to 7638' - AB (Def Survey)													
	1752.48	32.81	1750.67	1719.67	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	1752.39	32.81	1750.47	1719.58	17326.89	MAS = 10.00 (m)	4.00	4.00					Surface
	879.63	32.81	858.17	846.83	44.25	MAS = 10.00 (m)	3410.00	3235.37					MinPt-O-SF
	879.69	32.81	858.12	846.88	44.01	MAS = 10.00 (m)	3430.00	3253.93					MinPts
	1004.75	39.11	978.15	965.65	40.12	OSF1.50	4360.00	4117.21					MINPT-O-EOU
	2060.98	65.65	2016.68	1995.33	48.23	OSF1.50	8480.00	7282.90					MinPt-O-SF
	2069.50	65.92	2025.03	2003.59	48.23	OSF1.50	8520.00	7282.75					MinPt-O-SF
	7667.37	72.99	7618.17	7594.38	161.08	OSF1.50	15457.42	7257.00					MinPt-O-SF
													TD
Wiedeman 20-20 GYRO 0' to 7542' - AB (Def Survey)													
	2411.70	32.81	2409.89	2378.89	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	2411.61	32.81	2409.69	2378.80	23275.47	MAS = 10.00 (m)	4.00	4.00					Surface
	1490.56	41.35	1462.46	1449.21	56.19	OSF1.50	5430.00	5110.44					MinPt-O-SF
	1490.71	41.77	1462.33	1448.94	55.61	OSF1.50	5480.00	5156.85					MinPt-CiCt
	1491.00	42.12	1462.38	1448.88	55.14	OSF1.50	5520.00	5193.98					MINPT-O-EOU
	1605.41	56.12	1567.46	1549.29	44.13	OSF1.50	7100.00	6660.59					MinPt-O-ADP
	952.83	65.47	908.65	887.36	22.34	OSF1.50	8910.00	7281.30					MinPt-O-SF
	952.87	65.53	908.65	887.34	22.32	OSF1.50	8920.00	7281.26					MinPt-CiCt
	954.63	65.79	910.23	888.84	22.27	OSF1.50	8970.00	7281.08					MinPts
	6614.85	57.37	6576.07	6557.48	177.89	OSF1.50	15457.42	7257.00					MinPt-O-SF
													TD
HSR-Wiedeman 10-20 GYRO 0' to 7535' - AB (Def Survey)													
	1632.01	32.81	1630.20	1599.21	N/A	MAS = 10.00 (m)	0.00	0.00					Pass
	1631.91	32.81	1629.98	1599.10	14292.23	MAS = 10.00 (m)	4.00	4.00					Surface
	1630.35	32.81	1627.45	1597.54	1506.31	MAS = 10.00 (m)	300.00	300.00					MinPt-O-SF
	1072.10	32.81	1051.53	1039.23	56.44	MAS = 10.00 (m)	4220.00	3987.25					MinPts
	1072.15	32.81	1051.46	1039.34	56.10	MAS = 10.00 (m)	4250.00	4015.10					MINPT-O-EOU
	1401.71	48.42	1368.90	1353.29	44.86	OSF1.50	6550.00	6150.08					MinPt-O-SF
	1427.89	49.28	1394.50	1378.61	44.88	OSF1.50	6660.00	6252.18					MinPt-O-SF
	1535.30	52.70	1499.63	1482.60	45.03	OSF1.50	7069.53	6632.33					MinPt-O-SF
	1451.24	58.85	1411.47	1392.38	37.98	OSF1.50	8460.00	7282.97					MinPt-CiCt
	1451.29	58.93	1411.47	1392.36	37.93	OSF1.50	8470.00	7282.94					MinPts
	1466.60	60.29	1425.87	1406.31	37.45	OSF1.50	8670.00	7282.19					MinPt-O-SF
	7147.46	58.06	7108.22	7089.41	189.88	OSF1.50	15457.42	7257.00					MinPt-O-SF
													TD
HSR-Wiedeman 9-20 GYRO 0' to 7473' - AB (Def Survey)													
													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 12-20 MWD 0' to 7703' - PR (Def Survey)	2921.64	32.81	2919.83	2888.83	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	2921.54	32.81	2919.61	2888.78	25391.99	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	2919.58	32.81	2915.71	2885.78	2741.72	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	2463.66	38.09	2457.93	2445.77	102.06	OSF1.50	5120.00	4822.68				MinPt-CiCt	
	2484.05	38.75	2457.70	2445.32	100.29	OSF1.50	5190.00	4887.66				MINPT-O-EOU	
	2484.29	39.01	2457.75	2445.28	99.57	OSF1.50	5220.00	4915.50				MinPt-O-ADP	
	1193.80	82.54	1138.24	1111.26	22.10	OSF1.50	9880.00	7277.70				MinPt-CiCt	
	1193.80	82.60	1138.20	1111.20	22.08	OSF1.50	9890.00	7277.66				MinPts	
	1196.15	82.96	1140.31	1113.18	22.02	OSF1.50	9960.00	7277.40				MinPt-O-SF	
	5696.59	59.36	5656.48	5637.23	147.90	OSF1.50	15457.42	7257.00				TD	
	2308.98	32.81	2307.17	2276.17	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	2308.96	32.81	2307.13	2276.15	121981.14	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
Stugart 3-20 Blind 0' to 7580' - PR (Def Survey)	1282.86	36.45	1258.00	1246.41	55.27	OSF1.50	4490.00	4237.88				MinPt-CiCt	Pass
	1282.93	36.62	1257.96	1246.31	54.98	OSF1.50	4510.00	4256.44				MINPT-O-EOU	
	1283.01	36.70	1257.99	1246.30	54.84	OSF1.50	4520.00	4265.73				MinPt-O-ADP	
	1362.18	42.04	1333.62	1320.14	50.47	OSF1.50	5210.00	4906.22				MinPt-O-SF	
	1376.52	42.47	1347.68	1334.06	50.47	OSF1.50	5270.00	4961.92				MinPt-O-SF	
	1402.37	43.31	1372.96	1359.06	50.39	OSF1.50	5370.00	5054.74				MinPt-O-SF	
	1480.74	44.86	1450.29	1435.87	51.29	OSF1.50	5630.00	5296.09				MinPt-O-SF	
	1607.53	47.38	1575.41	1560.15	52.62	OSF1.50	5970.00	5611.69				MinPt-O-SF	
	1817.73	52.09	1782.47	1765.65	53.96	OSF1.50	6470.00	6075.82				MinPt-O-SF	
	1906.37	53.80	1869.96	1852.56	54.74	OSF1.50	6680.00	6270.75				MinPt-O-SF	
	2008.76	57.09	1970.17	1951.67	54.27	OSF1.50	6930.00	6502.81				MinPt-O-SF	
	2065.67	59.04	2025.77	2006.62	53.90	OSF1.50	7090.00	6651.32				MinPt-O-SF	
Barnett 5-20 Blind 0' to 7622' - PR (Def Survey)	9743.40	64.13	9700.11	9679.26	233.70	OSF1.50	15457.42	7257.00				TD	Pass
	1292.09	32.81	1290.25	1259.28	48687.95	MAS = 10.00 (m)	0.00	0.00				Surface	
	1292.09	32.81	1290.14	1259.28	9815.34	MAS = 10.00 (m)	4.00	4.00				WRP	
	1292.09	32.81	1281.04	1259.28	139.67	MAS = 10.00 (m)	250.00	250.00				MinPts	
	1294.56	32.81	1278.67	1261.76	91.82	MAS = 10.00 (m)	370.00	369.96				MINPT-O-EOU	
	3848.35	432.61	3559.41	3415.74	13.39	OSF1.50	7780.00	7182.85				MinPt-O-SF	
	8854.07	441.34	8559.31	8412.73	30.20	OSF1.50	15457.42	7257.00				TD	
	1296.85	32.81	1294.35	1264.04	1907.07	MAS = 10.00 (m)	0.00	0.00				Surface	
	1296.85	32.81	1294.27	1264.04	1707.16	MAS = 10.00 (m)	4.00	4.00				WRP	
	1296.85	32.81	1285.65	1264.04	138.04	MAS = 10.00 (m)	250.00	250.00				MinPts	
	1308.01	60.25	1267.24	1247.76	33.53	OSF1.50	1000.00	991.46				MINPT-O-EOU	
	1315.69	69.54	1268.73	1246.15	29.10	OSF1.50	1160.00	1144.77				MinPt-O-ADP	
SW Greeley 31-20 MWD 0' to 7695' - PR (Def Survey)	2782.87	405.05	2512.31	2377.83	10.34	OSF1.50	7140.00	6697.57				MinPt-O-SF	Pass
	9770.88	438.35	9478.11	9332.53	33.55	OSF1.50	15457.42	7257.00				TD	
	1327.89	32.81	1326.00	1295.08	16834.91	MAS = 10.00 (m)	0.00	0.00				Surface	
	1327.89	32.81	1325.99	1295.08	15113.56	MAS = 10.00 (m)	4.00	4.00				WRP	
	1327.89	32.81	1324.37	1294.78	944.97	MAS = 10.00 (m)	310.00	310.00				MinPts	
	1327.81	32.81	1324.29	1295.00	776.09	MAS = 10.00 (m)	430.00	429.88				MINPT-O-EOU	
	1470.01	32.81	1457.66	1437.20	136.61	MAS = 10.00 (m)	1900.00	1833.71				MinPt-O-SF	
	1709.36	32.81	1696.40	1676.55	150.42	MAS = 10.00 (m)	2670.00	2548.46				MinPt-O-SF	
	1728.07	32.81	1714.99	1695.26	150.50	MAS = 10.00 (m)	2720.00	2594.88				MinPt-O-SF	
	1785.64	32.81	1772.19	1752.83	150.56	MAS = 10.00 (m)	2870.00	2734.11				MinPt-O-SF	
	2005.18	32.81	1990.02	1972.37	147.77	MAS = 10.00 (m)	3390.00	3216.80				MinPt-O-SF	
	2636.14	32.81	2613.92	2603.33	127.79	MAS = 10.00 (m)	4790.00	4516.35				MinPt-O-SF	
Wiedeman 24-20 GYRO 0' to 7660' - AB (Def Survey)	2645.60	32.81	2623.31	2612.79	127.79	MAS = 10.00 (m)	4810.00	4534.92				MinPt-O-SF	Pass
	3663.76	57.53	3624.88	3606.23	98.23	OSF1.50	7220.00	6770.69				MinPt-O-SF	
	10502.34	75.10	10451.74	10427.24	214.30	OSF1.50	15457.42	7257.00				TD	
	1658.51	32.81	1656.70	1625.70	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1658.41	32.81	1656.49	1625.60	15129.42	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	1348.15	32.81	1333.08	1315.35	100.01	MAS = 10.00 (m)	2510.00	2399.94				MinPts	
	1348.20	32.81	1333.04	1315.39	99.32	MAS = 10.00 (m)	2530.00	2418.51				MINPT-O-EOU	
	1683.23	35.87	1658.78	1647.36	73.61	OSF1.50	4360.00	4117.21				MinPt-O-SF	
	2106.44	48.31	2073.70	2058.13	67.61	OSF1.50	5560.00	5231.11				MinPt-O-SF	
	2126.48	48.75	2093.45	2077.73	67.61	OSF1.50	5660.00	5323.93				MinPt-O-SF	
	2382.37	55.30	2344.97	2327.07	66.51	OSF1.50	6850.00	6428.55				MinPt-O-SF	
	2435.99	56.73	2397.63	2379.26	66.24	OSF1.50	7069.53	6632.33				MinPt-O-SF	
Wiedeman PMJ 21-9 GYRO 0' to 7490' - AB (Def Survey)	2443.14	56.89	2404.68	2386.25	66.24	OSF1.50	7100.00	6660.59				MinPt-O-SF	Pass
	2047.11	73.67	1997.46	1973.44	42.57	OSF1.50	9130.00	7280.49				MinPt-CiCt	
	2047.15	73.80	1997.42	1973.35	42.50	OSF1.50	9140.00	7280.45				MINPT-O-EOU	
	2047.24	73.92	1997.43	1973.32	42.43	OSF1.50	9150.00	7280.41				MinPt-O-ADP	
	2105.83	78.88	2052.71	2026.96	40.85	OSF1.50	9620.00	7278.67				MinPt-O-SF	
	6653.54	75.64	6602.58	6577.90	134.76	OSF1.50	15457.42	7257.00				TD	
	7962.08	32.81	7960.26	7929.27	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	7962.01	32.81	7960.13	7929.21	115381.58	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	7960.74	32.81	7957.91	7927.94	7768.96	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	7825.05	36.88	7799.93	7788.17	332.67	OSF1.50	4950.00	4664.87				MinPt-CiCt	
	7825.20	37.35	7799.76	7787.85	328.26	OSF1.50	5010.00	4720.57				MINPT-O-EOU	
	7825.39	37.59	7799.80	7787.80	326.09	OSF1.50	5040.00	4748.42				MinPt-O-ADP	
Wiedeman-PM J21-10 GYRO 0' to 7495' - AB (Def Survey)	7840.79	43.93	7810.97	7796.86	277.80	OSF1.50	5840.00	5491.02				MinPt-O-ADP	Pass
	7842.53	45.85	7811.43	7796.69	265.85	OSF1.50	6040.00	5676.67				MinPt-O-ADP	
	7842.25	51.34	7807.49	7790.91	236.47	OSF1.50	6590.00	6187.21				MinPt-CiCt	
	7842.49	52.05	7807.28	7790.44	233.17	OSF1.50	6670.00	6261.47				MINPT-O-EOU	
	7842.79	52.40	7807.32	7790.39	231.56	OSF1.50	6710.00	6298.60				MinPt-O-ADP	
	1619.56	211.48	1478.04	1408.08	11.56	OSF1.50	15180.00	7258.03				MinPt-CiCt	
	1619.64	211.74	1477.94	1407.89	11.55	OSF1.50	15200.00	7257.96				MinPts	
	1621.83	212.43	1478.68	1409.41	11.53	OSF1.50	15270.00	7257.70				MinPt-O-SF	
	1642.45	212.46	1500.28	1429.99	11.67	OSF1.50	15457.42	7257.00				TD	
	6736.28	32.81	6734.47	6703.47	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	6736.21	32.81	6734.32	6703.40	85408.98	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6735.19	32.81	6733.06	6702.39	22285.57	MAS = 10.00 (m)	120.00	120.00				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		
Wiedeman 40-20 GYRO 0' to 7935' - AB (Def Survey)	6735.33	32.81	6732.59	6702.53	7221.73	MAS = 10.00 (m)	250.00	250.00				MINPT-O-EQU	
	6735.39	32.81	6732.57	6702.58	6662.00	MAS = 10.00 (m)	300.00	300.00				MinPts	
	6660.88	32.81	6647.67	6628.07	574.50	MAS = 10.00 (m)	2140.00	2056.49				MinPt-O-SF	
	6631.66	32.81	6617.55	6598.85	531.46	MAS = 10.00 (m)	2720.00	2594.88				MinPt-O-SF	
	6593.14	32.81	6574.15	6560.33	379.25	MAS = 10.00 (m)	4000.00	3783.04				MinPts	
	6593.27	32.81	6574.04	6560.46	374.00	MAS = 10.00 (m)	4050.00	3829.45				MINPT-O-EQU	
	6595.74	32.81	6575.41	6562.93	352.18	MAS = 10.00 (m)	4280.00	4042.95				MinPts	
	6595.92	32.81	6575.24	6563.11	345.69	MAS = 10.00 (m)	4350.00	4107.92				MINPT-O-EQU	
	6568.87	37.71	6543.20	6531.16	272.82	OSF1.50	5280.00	4971.20				MinPt-CiCt	
	6568.98	38.04	6543.09	6530.95	270.38	OSF1.50	5320.00	5008.33				MINPT-O-EQU	
	6569.19	38.28	6543.13	6530.91	268.58	OSF1.50	5350.00	5036.18				MinPt-O-ADP	
	1646.37	178.39	1526.90	1467.98	13.96	OSF1.50	13950.00	7262.60				MinPt-CiCt	
	1646.40	178.53	1526.85	1467.87	13.95	OSF1.50	13960.00	7262.56				MINPT-O-EQU	
	1646.50	178.66	1526.86	1467.84	13.94	OSF1.50	13970.00	7262.52				MinPt-O-ADP	
	1650.09	179.56	1529.85	1470.53	13.90	OSF1.50	14060.00	7262.19				MinPt-O-SF	
	2232.63	151.53	2131.08	2081.10	22.32	OSF1.50	15457.42	7257.00				TD	
Wiedeman 40-20 GYRO 0' to 7935' - AB (Def Survey)													Pass
1774.07	32.81	1772.26	1741.26	N/A	MAS = 10.00 (m)	0.00	0.00				Surface		
1773.97	32.81	1772.05	1741.16	16890.41	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF		
1770.50	32.81	1767.32	1737.70	1286.73	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF		
1671.58	32.81	1658.81	1638.77	149.56	MAS = 10.00 (m)	1840.00	1778.02				MinPts		
1671.64	32.81	1658.75	1638.83	148.05	MAS = 10.00 (m)	1860.00	1796.58				MINPT-O-EQU		
2060.96	32.81	2040.44	2028.16	108.84	MAS = 10.00 (m)	3760.00	3560.26				MinPt-O-SF		
2177.20	32.81	2155.65	2144.39	109.08	MAS = 10.00 (m)	4050.00	3829.45				MinPt-O-SF		
2296.32	33.58	2273.40	2262.74	107.65	OSF1.50	4320.00	4080.08				MinPt-O-SF		
2455.43	35.67	2431.12	2419.77	108.06	OSF1.50	4660.00	4395.68				MinPt-O-SF		
2594.62	37.53	2569.07	2557.09	108.26	OSF1.50	4940.00	4655.59				MinPt-O-SF		
2714.81	40.77	2687.10	2674.05	103.92	OSF1.50	5200.00	4896.94				MinPt-O-SF		
3142.35	49.03	3109.13	3093.32	99.34	OSF1.50	6050.00	5685.95				MinPt-O-SF		
3296.28	52.23	3260.93	3244.05	97.62	OSF1.50	6380.00	5992.27				MinPt-O-SF		
3582.08	65.71	3537.74	3516.37	83.77	OSF1.50	7069.53	6632.33				MinPt-O-ADP		
1979.97	122.06	1898.06	1857.91	24.64	OSF1.50	10620.00	7274.95				MinPt-CiCt		
1980.05	122.41	1897.91	1857.64	24.57	OSF1.50	10640.00	7274.88				MINPT-O-EQU		
1980.33	122.75	1897.96	1857.58	24.50	OSF1.50	10660.00	7274.81				MinPt-O-ADP		
2006.86	126.61	1921.92	1880.25	24.06	OSF1.50	10950.00	7273.73				MinPt-O-SF		
5222.86	103.69	5153.20	5119.17	76.72	OSF1.50	15457.42	7257.00				TD		
Hurst 7-20 MWD 0' to 7650' - PR (Def Survey)													Pass
1723.37	32.81	1721.56	1690.56	N/A	MAS = 10.00 (m)	0.00	0.00				Surface		
1723.33	32.81	1721.48	1690.52	44730.59	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF		
1723.27	32.81	1720.26	1690.46	1439.96	MAS = 10.00 (m)	250.00	250.00				MinPts		
1723.31	32.81	1720.24	1690.50	1368.98	MAS = 10.00 (m)	270.00	270.00				MINPT-O-EQU		
1774.78	32.81	1768.56	1741.98	402.14	MAS = 10.00 (m)	970.00	962.44				MinPt-O-SF		
1783.92	32.81	1777.73	1751.11	407.83	MAS = 10.00 (m)	1040.00	1030.03				MinPt-O-SF		
2736.39	55.87	2698.61	2680.52	75.60	OSF1.50	6980.00	6549.22				MinPt-O-SF		
2765.47	56.46	2727.30	2709.01	75.57	OSF1.50	7069.53	6632.33				MinPt-O-SF		
2761.50	65.53	2717.28	2695.97	64.76	OSF1.50	8650.00	7282.27				MinPt-CiCt		
2761.57	65.74	2717.21	2695.83	64.55	OSF1.50	8670.00	7282.19				MINPT-O-EQU		
2761.67	65.85	2717.24	2695.82	64.45	OSF1.50	8680.00	7282.16				MinPt-O-ADP		
2947.53	76.09	2896.27	2871.44	59.32	OSF1.50	9680.00	7278.44				MinPt-O-SF		
2958.16	76.36	2906.72	2881.80	59.33	OSF1.50	9710.00	7278.33				MinPt-O-SF		
7346.11	86.23	7288.08	7259.88	130.18	OSF1.50	15457.42	7257.00				TD		
Hurst 8-20 MWD 0' to 7840' - PR (Def Survey)													Pass
1744.99	32.81	1743.18	1712.18	N/A	MAS = 10.00 (m)	0.00	0.00				Surface		
1744.95	32.81	1743.10	1712.14	47251.34	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF		
1743.07	32.81	1740.10	1710.27	1503.35	MAS = 10.00 (m)	280.00	280.00				MinPts		
1743.08	32.81	1740.09	1710.27	1485.81	MAS = 10.00 (m)	290.00	290.00				MINPT-O-EQU		
1743.11	32.81	1740.11	1710.30	1468.45	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF		
1743.32	32.81	1740.32	1710.51	1467.57	MAS = 10.00 (m)	330.00	329.99				MinPt-O-SF		
2078.89	32.81	2063.91	2046.08	155.27	MAS = 10.00 (m)	1900.00	1833.71				MinPt-O-SF		
3535.73	69.43	3488.91	3466.30	78.16	OSF1.50	7060.00	6623.48				MinPt-O-SF		
2909.70	90.40	2848.90	2819.30	49.13	OSF1.50	9850.00	7277.81				MinPt-CiCt		
2909.79	90.64	2848.83	2819.15	49.00	OSF1.50	9870.00	7277.74				MINPT-O-EQU		
2909.88	90.76	2848.84	2819.12	48.93	OSF1.50	9880.00	7277.70				MinPt-O-ADP		
3012.99	98.51	2946.78	2914.48	46.62	OSF1.50	10630.00	7274.92				MinPt-O-SF		
6312.44	103.90	6242.63	6208.53	92.54	OSF1.50	15457.42	7257.00				TD		
Greeley 21-20 Blind 0' to 7619' - PR (Def Survey)													Pass
1765.64	32.81	1763.83	1732.83	N/A	MAS = 10.00 (m)	0.00	0.00				Surface		
1765.60	32.81	1763.75	1732.79	45732.36	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF		
1765.64	32.81	1765.98	1732.73	227.65	MAS = 10.00 (m)	250.00	250.00				MinPts		
1769.59	32.81	1762.07	1736.78	112.58	MAS = 10.00 (m)	450.00	449.84				MINPT-O-EQU		
3689.90	438.29	3397.17	3251.61	12.67	OSF1.50	8730.00	7281.97				MinPts		
3690.14	438.35	3397.37	3251.79	12.67	OSF1.50	8770.00	7281.82				MinPt-O-SF		
7675.05	441.94	7379.88	7233.10	26.14	OSF1.50	15457.42	7257.00				TD		
Greeley 21-20 MWD 0' to 7619' - PR (Def Survey)													Pass
1766.12	32.81	1764.30	1733.31	N/A	MAS = 10.00 (m)	0.00	0.00				Surface		
1766.11	32.81	1764.30	1733.30	686379.77	MAS = 10.00 (m)	4.00	4.00				WRP		
1766.11	32.81	1763.22	1733.30	1637.24	MAS = 10.00 (m)	250.00	250.00				MinPts		
1766.12	32.81	1763.20	1733.31	1598.18	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EQU		
1820.87	32.81	1814.93	1788.06	440.46	MAS = 10.00 (m)	990.00	981.80				MinPt-O-SF		
1917.30	32.81	1905.52	1884.49	188.30	MAS = 10.00 (m)	1900.00	1833.71				MinPt-O-SF		
3175.67	56.05	3137.77	3119.62	87.44	OSF1.50	7100.00	6660.59				MinPt-O-SF		
3208.27	56.60	3170.00	3151.66	87.45	OSF1.50	7200.00	6752.55				MinPt-O-SF		
3236.88	57.06	3198.30	3179.81	87.50	OSF1.50	7300.00	6841.91				MinPt-O-SF		
3256.78	57.59	3217.85	3199.19	87.25	OSF1.50	7380.00	6910.35				MinPt-O-SF		
3305.53	58.36	3266.09	3247.17	87.31	OSF1.50	7640.00	7103.63				MinPt-O-SF		
3689.68	73.81	3639.94	3615.87	76.61	OSF1.50	9680.00	7278.44				MinPt-O-SF		
3706.70	74.14	3656.73	3632.55	76.62	OSF1.50	9720.00	7278.30				MinPt-O-SF		
8058.63	90.48	7997.77	7968.15	135.97	OSF1.50	15457.42	7257.00				TD		
Greeley 17-20 MWD 0' to 7675' - PR (Def Survey)													Pass
1786.88	32.81	1785.07	1754.07	N/A	MAS = 10.00 (m)	0.00	0.00				Surface		
1786.87	32.81	1785.06	1754.06	702621.14	MAS = 10.00 (m)	4.00	4.00				WRP		
1786.87	32.81	1783.98	1754.06	1656.13	MAS = 10.00 (m)	250.00	250.00				MinPts		
1786.88	32.81	1783.97	1754.07	1616.61	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EQU		
1828.01	32.81	1822.25	1795.20	461.93	MAS = 10.00 (m)	880.00	874.93				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		
	2062.82	32.81	2050.75	2030.01	196.88	MAS = 10.00 (m)	1900.00	1833.71				MinPt-O-SF	Pass
	2112.18	32.81	2099.97	2079.37	198.99	MAS = 10.00 (m)	2070.00	1991.51				MinPt-O-SF	
	3717.17	57.54	3678.27	3659.63	99.64	OSF1.50	7100.00	6660.59				MinPt-O-SF	
	3453.43	75.39	3402.64	3378.04	70.17	OSF1.50	9410.00	7279.45				MinPt-CtCt	
	3453.60	75.82	3402.52	3377.78	69.77	OSF1.50	9440.00	7279.33				MINPT-O-EOU	
	3453.85	76.11	3402.58	3377.75	69.51	OSF1.50	9460.00	7279.26				MinPt-O-ADP	
	3742.91	93.35	3680.14	3649.56	61.17	OSF1.50	10850.00	7274.10				MinPt-O-SF	
	6964.85	106.74	6893.16	6858.11	99.34	OSF1.50	15457.42	7257.00				TD	
Greeley 27-20 GYRO 0' to 7712' - PR (Def Survey)													Pass
1808.41	32.81	1806.59	1775.60	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass	
1808.37	32.81	1806.53	1775.56	52875.83	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF		
1807.98	32.81	1805.44	1775.17	2501.07	MAS = 10.00 (m)	190.00	190.00				MinPts		
1808.03	32.81	1805.25	1775.22	1863.36	MAS = 10.00 (m)	250.00	250.00				MinPts		
2151.62	32.81	2140.23	2118.81	219.62	MAS = 10.00 (m)	1900.00	1833.71				MinPt-O-SF		
4181.53	42.15	4152.90	4139.38	154.64	OSF1.50	5820.00	5472.45				MinPt-O-SF		
4774.70	77.34	4722.61	4697.36	94.54	OSF1.50	9200.00	7280.23				MinPt-CtCt		
4774.90	77.88	4722.44	4697.02	93.87	OSF1.50	9240.00	7280.08				MINPT-O-EOU		
4775.12	78.15	4722.49	4696.97	93.54	OSF1.50	9260.00	7280.00				MinPt-O-ADP		
5452.71	111.23	5378.03	5341.49	74.59	OSF1.50	11830.00	7270.46				MinPt-O-SF		
7873.65	129.91	7786.51	7743.74	92.03	OSF1.50	15457.42	7257.00				TD		
SW Greeley 18-20 MWD 0' to 7700' - PR (Def Survey)													Pass
1847.21	32.81	1845.33	1814.40	26572.42	MAS = 10.00 (m)	0.00	0.00				Surface	Pass	
1847.21	32.81	1845.32	1814.40	23557.96	MAS = 10.00 (m)	4.00	4.00				WRP		
1847.21	32.81	1844.18	1814.40	1520.36	MAS = 10.00 (m)	250.00	250.00				MinPts		
1847.22	32.81	1844.16	1814.41	1482.34	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU		
2131.09	32.81	2119.91	2098.28	222.37	MAS = 10.00 (m)	1900.00	1833.71				MinPt-O-SF		
3355.00	57.28	3316.28	3297.72	90.35	OSF1.50	7100.00	6660.59				MinPt-O-SF		
3372.69	57.57	3333.77	3315.12	90.35	OSF1.50	7150.00	6706.79				MinPt-O-SF		
9522.48	83.25	9466.45	9439.23	174.93	OSF1.50	15457.42	7257.00				TD		
Barnett 1-20 GYRO 0' to 7625' - PR (Def Survey)													Pass
1880.55	32.81	1878.65	1847.74	22547.00	MAS = 10.00 (m)	0.00	0.00				MinPts	Pass	
1880.55	32.81	1878.65	1847.74	19959.04	MAS = 10.00 (m)	4.00	4.00				WRP		
1880.66	32.81	1878.61	1847.85	7859.58	MAS = 10.00 (m)	50.00	50.00				MINPT-O-EOU		
1881.42	32.81	1878.34	1848.61	1488.62	MAS = 10.00 (m)	250.00	250.00				MINPT-O-EOU		
1881.50	32.81	1878.39	1848.69	1447.24	MAS = 10.00 (m)	270.00	270.00				MinPt-O-SF		
2204.64	32.81	2193.51	2171.83	231.29	MAS = 10.00 (m)	1900.00	1833.71				MinPt-O-SF		
3993.97	54.53	3957.08	3939.44	113.16	OSF1.50	7260.00	6806.59				MinPt-O-SF		
10279.91	82.84	10224.15	10197.07	189.79	OSF1.50	15457.42	7257.00				TD		
Hayes 2-20 Blind 0' to 7627' - PR (Def Survey)													Pass
1992.60	32.81	1990.79	1959.79	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass	
1992.59	32.81	1990.76	1959.78	181287.12	MAS = 10.00 (m)	4.00	4.00				WRP		
1992.58	32.81	1982.50	1959.77	240.75	MAS = 10.00 (m)	250.00	250.00				MinPts		
1995.89	32.81	1979.04	1963.08	132.56	MAS = 10.00 (m)	420.00	419.90				MINPT-O-EOU		
3978.34	438.98	3686.15	3539.36	13.64	OSF1.50	8780.00	7281.78				MinPts		
3978.69	439.05	3685.46	3539.64	13.64	OSF1.50	8830.00	7281.60				MinPt-O-SF		
7775.63	443.94	7479.14	7331.69	26.36	OSF1.50	15457.42	7257.00				TD		
Meyer 4 GYRO 0' to 8410' - PR (Def Survey)													Pass
3890.25	32.81	3888.43	3857.44	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass	
3890.22	32.81	3888.39	3857.41	161675.12	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF		
3887.36	32.81	3884.06	3854.55	2612.80	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF		
3887.23	32.81	3883.93	3854.43	2605.54	MAS = 10.00 (m)	340.00	339.99				MinPts		
2124.16	143.16	2028.19	1981.00	22.49	OSF1.50	12080.00	7269.54				MinPt-CtCt		
2124.23	143.36	2028.12	1980.87	22.46	OSF1.50	12100.00	7269.46				MinPts		
2133.29	144.79	2036.23	1988.50	22.33	OSF1.50	12280.00	7268.79				MinPt-O-SF		
3987.34	119.79	3906.95	3867.55	50.59	OSF1.50	15457.42	7257.00				TD		
Meyer 3 GYRO 0' to 7745' - AB (Def Survey)													Pass
3876.97	32.81	3875.15	3844.16	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass	
3876.94	32.81	3875.11	3844.13	165470.51	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF		
3876.57	32.81	3874.15	3843.76	6393.70	MAS = 10.00 (m)	170.00	170.00				MinPts		
3876.71	32.81	3874.03	3843.91	4449.30	MAS = 10.00 (m)	230.00	230.00				MINPT-O-EOU		
3877.14	32.81	3874.33	3844.33	3861.23	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF		
4480.28	67.87	4434.50	4412.41	101.38	OSF1.50	7100.00	6660.59				MinPt-O-SF		
2599.38	121.67	2517.71	2477.69	32.45	OSF1.50	11300.00	7272.43				MinPt-CtCt		
2599.53	122.20	2517.53	2477.33	32.31	OSF1.50	11300.00	7272.32				MINPT-O-EOU		
2599.67	122.37	2517.55	2477.29	32.27	OSF1.50	11340.00	7272.28				MinPt-O-SF		
2661.04	129.73	2574.02	2531.31	31.13	OSF1.50	11870.00	7270.32				MinPt-O-ADP		
4900.34	123.10	4817.73	4777.23	60.48	OSF1.50	15457.42	7257.00				TD		
Lessor J 21-7X GYRO 0' to 7725' - AB (Def Survey)													Pass
6931.52	32.81	6929.71	6898.72	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass	
6931.48	32.81	6929.63	6898.68	155988.29	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF		
6931.15	32.81	6929.15	6898.34	47256.44	MAS = 10.00 (m)	70.00	70.00				MinPts		
6931.28	32.81	6929.11	6898.47	19494.84	MAS = 10.00 (m)	130.00	130.00				MINPT-O-EOU		
6933.46	32.81	6930.64	6900.66	6869.26	MAS = 10.00 (m)	320.00	319.99				MinPt-O-SF		
6873.45	54.46	6836.60	6818.99	195.09	OSF1.50	4580.00	4321.42				MinPt-CtCt		
6873.62	55.04	6836.39	6818.58	192.95	OSF1.50	4650.00	4386.40				MINPT-O-EOU		
6873.86	55.33	6836.44	6818.53	191.88	OSF1.50	4690.00	4423.53				MinPt-O-ADP		
6877.35	57.97	6838.17	6819.38	182.99	OSF1.50	4950.00	4664.87				MINPT-O-EOU		
6877.47	58.12	6838.19	6819.35	182.50	OSF1.50	4970.00	4683.44				MinPt-O-ADP		
2602.70	187.94	2476.87	2414.76	20.94	OSF1.50	14080.00	7262.11				MinPt-CtCt		
2602.95	188.67	2476.63	2414.27	20.86	OSF1.50	14120.00	7261.96				MINPT-O-EOU		
2603.11	188.85	2476.67	2414.25	20.84	OSF1.50	14130.00	7261.93				MinPt-O-ADP		
2626.92	193.15	2497.61	2433.76	20.56	OSF1.50	14440.00	7260.78				MinPt-O-SF		
2942.53	192.35	2813.77	2750.19	23.13	OSF1.50	15457.42	7257.00				TD		
Hayes 1 Blind 0' to 9502' - AB (Def Survey)													Pass
2635.94	32.81	2634.13	2603.13	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass	
2635.85	32.81	2633.93	2603.04	25921.79	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF		
2635.19	32.81	2619.54	2602.37	190.48	MAS = 10.00 (m)	460.00	459.81				MinPts		
2649.15	85.44	2591.59	2563.71	47.48	OSF1.50	1540.00	1499.54				MINPT-O-EOU		
2660.30	99.68	2593.24	2560.62	40.75	OSF1.50	1790.00	1731.60				MinPt-O-ADP		
2665.66	105.07	2595.07	2560.58	38.62	OSF1.50	1890.00	1824.43				MinPt-O-ADP		
2724.58	439.00	2431.38	2285.59	9.34	OSF1.50	9970.00	7277.37				MinPt-CtCt		

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		
	2724.58	439.02	2431.37	2285.56	9.34	OSF1.50	9980.00	7277.33				MinPts	
	2724.95	439.13	2431.66	2285.62	9.34	OSF1.50	10020.00	7277.18				MinPt-O-SF	
	6122.30	437.88	5829.85	5684.42	21.04	OSF1.50	15457.42	7257.00				TD	
Meyer 1 Blind 0' to 7482' - AB (Def Survey)													Pass
	5263.68	32.81	5261.87	5230.87	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5263.62	32.81	5261.74	5230.81	77226.60	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	5261.50	59.09	5221.50	5202.41	137.73	OSF1.50	1100.00	1087.58				MinPt-CtCt	
	5267.23	98.46	5200.99	5168.78	81.72	OSF1.50	1790.00	1731.60				MINPT-O-EQU	
	5287.59	139.66	5193.95	5147.94	57.43	OSF1.50	2540.00	2427.79				MINPT-O-EQU	
	5321.40	180.21	5200.72	5141.18	44.68	OSF1.50	3270.00	3105.41				MinPt-O-ADP	
	2742.68	452.73	2440.24	2289.86	9.11	OSF1.50	12600.00	7267.61				MinPt-CtCt	
	2742.60	452.78	2440.20	2289.81	9.11	OSF1.50	12610.00	7267.57				MINPT-O-EQU	
	2742.64	452.84	2440.21	2289.79	9.11	OSF1.50	12620.00	7267.53				MinPt-O-ADP	
	2743.95	453.22	2441.27	2290.73	9.11	OSF1.50	12690.00	7267.27				MinPt-O-SF	
	3957.93	450.25	3657.23	3507.68	13.23	OSF1.50	15457.42	7257.00				TD	
Lesser 7-21 Blind 0' to 7508' - AB (Def Survey)													Pass
	6581.28	32.81	6579.47	6548.47	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6581.22	32.81	6579.34	6548.41	97328.91	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6577.84	68.90	6531.30	6508.94	147.04	OSF1.50	1290.00	1267.31				MinPt-CtCt	
	6610.65	167.37	6498.54	6443.28	59.80	OSF1.50	3060.00	2910.48				MINPT-O-EQU	
	6653.43	218.66	6507.12	6434.76	45.97	OSF1.50	3980.00	3764.47				MinPt-O-ADP	
	2751.11	462.94	2441.98	2288.20	8.94	OSF1.50	13920.00	7262.71				MinPt-CtCt	
	2751.16	463.01	2441.99	2288.15	8.94	OSF1.50	13930.00	7262.67				MINPT-O-EQU	
	2751.21	463.08	2441.95	2288.13	8.94	OSF1.50	13940.00	7262.63				MinPt-O-ADP	
	2752.91	463.60	2443.31	2289.31	8.93	OSF1.50	14020.00	7262.34				MinPt-O-SF	
	3150.88	463.87	2841.10	2687.01	10.22	OSF1.50	15457.42	7257.00				TD	
Lesser J 21-8 - Plan (Def Plan)													Pass
	6972.77	32.81	6970.96	6939.96	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6972.74	32.81	6970.89	6939.93	198278.15	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6972.53	32.81	6969.65	6939.72	6509.45	MAS = 10.00 (m)	250.00	250.00				MinPts	
	6972.60	32.81	6969.57	6939.79	5755.46	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EQU	
	7050.51	32.81	7036.44	7017.70	565.61	MAS = 10.00 (m)	1900.00	1833.71				MinPt-O-SF	
	2772.97	202.54	2637.41	2570.43	20.69	OSF1.50	14770.00	7259.55				MinPt-CtCt	
	2773.16	203.05	2637.26	2570.11	20.64	OSF1.50	14800.00	7259.44				MINPT-O-EQU	
	2773.29	203.22	2637.28	2570.07	20.62	OSF1.50	14810.00	7259.40				MinPt-O-ADP	
	2795.25	207.22	2656.57	2588.03	20.38	OSF1.50	15120.00	7258.25				MinPt-O-SF	
	2857.44	209.02	2717.56	2648.42	20.65	OSF1.50	15457.42	7257.00				TD	
Hayes 1-20 Blind 0' to 7516' - PR (Def Survey)													Pass
	3104.61	32.81	3102.79	3071.80	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3104.60	32.81	3102.78	3071.79	492328.15	MAS = 10.00 (m)	4.00	4.00				WRP	
	3104.59	32.81	3094.80	3071.79	388.46	MAS = 10.00 (m)	250.00	250.00				MinPts	
	3109.71	32.81	3089.60	3076.90	169.85	MAS = 10.00 (m)	510.00	509.64				MINPT-O-EQU	
	3116.15	37.00	3090.88	3079.15	132.77	OSF1.50	640.00	638.80				MinPt-O-ADP	
	4081.46	442.56	3785.89	3638.90	13.88	OSF1.50	10070.00	7277.00				MinPt-CtCt	
	4081.48	442.58	3785.89	3638.89	13.88	OSF1.50	10080.00	7276.96				MinPts	
	4083.28	442.94	3787.45	3640.34	13.87	OSF1.50	10190.00	7276.55				MinPt-O-SF	
	6760.31	448.82	6460.56	6311.49	22.67	OSF1.50	15457.42	7257.00				TD	
Meyer 5 GYRO 0' to 7665' - AB (Def Survey)													Pass
	3907.66	32.81	3905.85	3874.85	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3907.64	32.81	3905.80	3874.83	160096.87	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3907.58	32.81	3905.71	3874.77	66280.86	MAS = 10.00 (m)	30.00	30.00				MinPts	
	3908.03	32.81	3905.18	3875.22	3770.16	MAS = 10.00 (m)	250.00	250.00				MINPT-O-EQU	
	3908.23	32.81	3905.33	3875.43	3578.76	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	3337.67	137.56	3245.43	3200.11	36.81	OSF1.50	12030.00	7269.72				MinPt-CtCt	
	3337.91	138.36	3245.16	3199.61	36.61	OSF1.50	12070.00	7269.57				MINPT-O-EQU	
	3338.21	138.66	3245.23	3199.55	36.52	OSF1.50	12090.00	7269.50				MinPt-O-ADP	
	3434.47	149.23	3334.45	3285.24	34.88	OSF1.50	12840.00	7266.72				MinPt-O-SF	
	4783.70	149.95	4683.20	4633.75	48.35	OSF1.50	15457.42	7257.00				TD	
Lesser J 21-18D MWD 0' to 7595' - SI (Def Survey)													Pass
	6775.37	32.81	6773.55	6742.56	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6775.33	32.81	6773.48	6742.52	180522.73	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6775.10	32.81	6773.16	6742.29	54443.00	MAS = 10.00 (m)	60.00	60.00				MinPts	
	6775.27	32.81	6772.50	6742.46	7076.48	MAS = 10.00 (m)	250.00	250.00				MINPT-O-EQU	
	6775.45	32.81	6772.60	6742.64	6552.43	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	6409.39	40.91	6381.49	6368.49	246.37	OSF1.50	4820.00	4544.20				MinPt-CtCt	
	6409.48	41.18	6381.40	6368.31	244.69	OSF1.50	4860.00	4581.33				MINPT-O-EQU	
	6409.59	41.31	6381.42	6368.28	243.86	OSF1.50	4880.00	4599.90				MinPt-O-ADP	
	3342.00	165.85	3230.90	3176.15	30.51	OSF1.50	13370.00	7264.75				MinPt-CtCt	
	3342.27	166.66	3230.64	3175.63	30.36	OSF1.50	13410.00	7264.60				MINPT-O-EQU	
	3342.58	167.04	3230.69	3175.55	30.29	OSF1.50	13430.00	7264.53				MinPt-O-ADP	
	3412.93	176.45	3294.77	3236.48	29.27	OSF1.50	14060.00	7262.19				MinPt-O-SF	
	3941.30	179.32	3821.21	3761.98	33.25	OSF1.50	15457.42	7257.00				TD	
Lesser J 21-17 - Plan (Def Plan)													Pass
	6950.79	32.81	6948.97	6917.98	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6950.76	32.81	6948.91	6917.95	197029.74	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6950.55	32.81	6947.66	6917.74	6488.46	MAS = 10.00 (m)	250.00	250.00				MinPts	
	6950.61	32.81	6947.59	6917.81	5736.87	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EQU	
	6981.57	32.81	6972.27	6948.76	933.00	MAS = 10.00 (m)	1280.00	1257.95				MinPt-O-SF	
	3507.65	181.65	3386.01	3326.00	29.21	OSF1.50	14040.00	7262.26				MinPt-CtCt	
	3507.98	182.64	3385.69	3325.34	29.05	OSF1.50	14090.00	7262.08				MINPT-O-EQU	
	3508.31	183.02	3385.76	3325.29	28.99	OSF1.50	14110.00	7262.00				MinPt-O-ADP	
	3574.56	192.20	3445.90	3382.36	28.12	OSF1.50	14730.00	7259.70				MinPt-O-SF	
	3782.62	196.15	3651.32	3586.47	29.15	OSF1.50	15457.42	7257.00				TD	
Meyer 2 GYRO 0' to 8010' - AB (Def Survey)													Pass
	3861.08	32.81	3859.27	3828.27	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3861.06	32.81	3859.22	3828.25	164117.19	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3860.16	32.81	3857.17	3827.35	3270.18	MAS = 10.00 (m)	280.00	280.00				MinPts	
	3860.18	32.81	3857.14	3827.37	3152.01	MAS = 10.00 (m)	300.00	300.00				MinPts	
	3861.39	32.81	3857.93	3828.58	2347.86	MAS = 10.00 (m)	460.00	459.81				MINPT-O-EQU	
	3923.00	32.81	3901.42	3896.19	196.25	MAS = 10.00 (m)	3290.00	3123.98				MinPts	
	3923.20	32.81	3901.16	3890.40	191.90	MAS = 10.00 (m)	3380.00	3207.52				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		
	4614.73	56.63	4576.45	4558.11	126.78	OSF1.50	7100.00	6660.59				MinPt-O-SF	
	3541.46	100.76	3473.75	3440.70	53.55	OSF1.50	10720.00	7274.58				MinPt-CtCt	
	3541.75	101.66	3473.45	3440.10	53.08	OSF1.50	10770.00	7274.40				MinPt-O-EQU	
	3542.07	102.01	3473.53	3440.06	52.89	OSF1.50	10790.00	7274.32				MinPt-O-SF	
	3737.79	117.87	3658.68	3619.93	48.20	OSF1.50	11920.00	7270.13				MinPt-O-SF	
	5910.88	124.12	5827.60	5786.76	72.35	OSF1.50	15457.42	7257.00				TD	
Lesser 1 Blind 0' to 7846' - AB (Def Survey)													
	7670.78	32.81	7668.97	7637.98	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	7670.74	32.81	7668.89	7637.94	172776.97	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	7670.38	32.81	7663.62	7637.57	1550.68	MAS = 10.00 (m)	250.00	250.00				MinPts	
	7686.94	64.58	7643.28	7622.36	183.64	OSF1.50	1190.00	1173.22				MINPT-O-EQU	
	7715.96	98.74	7649.53	7617.22	119.38	OSF1.50	1790.00	1731.60				MinPt-O-ADP	
	7720.37	103.01	7651.16	7617.36	114.17	OSF1.50	1870.00	1805.86				MinPt-O-ADP	
	3747.60	474.38	3430.82	3273.22	11.89	OSF1.50	14930.00	7258.96				MinPt-CtCt	
	3747.68	474.56	3430.78	3273.13	11.88	OSF1.50	14950.00	7258.88				MINPT-O-EQU	
	3747.76	474.63	3430.80	3273.12	11.88	OSF1.50	14960.00	7258.85				MinPt-O-ADP	
	3753.70	476.06	3435.80	3277.65	11.86	OSF1.50	15140.00	7258.18				MinPt-O-SF	
	3785.09	478.10	3465.82	3306.99	11.91	OSF1.50	15457.42	7257.00				TD	
Meyer 8 GYRO 0' to 7678' - AB (Def Survey)													
	3954.50	32.81	3952.69	3921.69	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	3954.47	32.81	3952.64	3921.67	163958.58	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3952.53	32.81	3949.33	3919.72	2856.55	MAS = 10.00 (m)	300.00	300.00				MinPts	
	3952.49	32.81	3949.30	3919.68	2872.06	MAS = 10.00 (m)	330.00	329.99				MinPts	
	3899.18	107.55	3826.95	3791.63	55.18	OSF1.50	11000.00	7273.54				MinPt-CtCt	
	3899.50	108.50	3826.64	3791.00	54.70	OSF1.50	11050.00	7273.36				MINPT-O-EQU	
	3899.81	108.87	3826.69	3790.94	54.51	OSF1.50	11070.00	7273.28				MinPt-O-ADP	
	4139.46	128.39	4053.34	4011.07	48.96	OSF1.50	12390.00	7268.39				MinPt-O-SF	
	5921.92	137.57	5829.67	5784.35	65.31	OSF1.50	15457.42	7257.00				TD	
Lesser PM J 21-1 Blind 0' to 7510' - PR (Def Survey)													
	8082.90	32.81	8081.09	8050.10	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	8082.87	32.81	8081.02	8050.06	206224.27	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	8082.57	32.81	8075.60	8049.76	1567.55	MAS = 10.00 (m)	250.00	250.00				MinPts	
	8098.58	61.44	8057.01	8037.14	203.68	OSF1.50	1130.00	1116.23				MINPT-O-EQU	
	8128.36	95.07	8064.37	8033.29	130.71	OSF1.50	1720.00	1666.63				MinPt-O-ADP	
	3911.23	478.93	3591.41	3432.30	12.29	OSF1.50	15320.00	7257.51				MinPt-CtCt	
	3911.30	479.11	3591.35	3432.18	12.28	OSF1.50	15340.00	7257.44				MINPT-O-EQU	
	3911.37	479.20	3591.36	3432.16	12.28	OSF1.50	15350.00	7257.40				MinPt-O-ADP	
	3913.74	480.13	3593.12	3433.61	12.26	OSF1.50	15457.42	7257.00				MinPt-O-SF	
Meyer 6 GYRO 0' to 8410' - AB (Def Survey)													
	3923.16	32.81	3921.35	3890.35	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	3923.14	32.81	3921.30	3890.33	161369.79	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3922.84	32.81	3920.49	3890.03	7330.32	MAS = 10.00 (m)	150.00	150.00				MinPts	
	3922.98	32.81	3920.34	3890.17	4736.49	MAS = 10.00 (m)	210.00	210.00				MINPT-O-EQU	
	3923.93	32.81	3921.05	3891.12	9664.48	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	4187.12	32.81	4174.44	4154.31	377.97	MAS = 10.00 (m)	1900.00	1833.71				MinPt-O-SF	
	4230.49	32.81	4217.72	4197.68	378.81	MAS = 10.00 (m)	2040.00	1963.67				MinPt-O-SF	
	6447.31	56.87	6408.86	6390.44	174.94	OSF1.50	7100.00	6660.59				MinPt-O-SF	
	6507.95	65.76	6463.61	6442.25	152.26	OSF1.50	7280.00	6824.33				MinPts	
	4177.47	156.32	4072.72	4021.15	40.48	OSF1.50	12640.00	7267.46				MinPt-CtCt	
	4177.88	157.50	4072.34	4020.37	40.18	OSF1.50	12700.00	7267.23				MINPT-O-EQU	
	4178.20	157.89	4072.41	4020.31	40.09	OSF1.50	12720.00	7267.16				MinPt-O-ADP	
	4332.39	173.96	4215.88	4158.43	37.69	OSF1.50	13790.00	7263.19				MinPt-O-SF	
	5037.75	181.31	4916.34	4856.44	42.04	OSF1.50	15457.42	7257.00				TD	
Meyer 7 GYRO 0' to 8146' - PR (Def Survey)													
	3939.52	32.81	3937.71	3906.71	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	3939.50	32.81	3937.66	3906.69	164917.75	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	3937.28	32.81	3934.15	3904.47	2990.47	MAS = 10.00 (m)	290.00	290.00				MinPts	
	3937.28	32.81	3934.13	3904.47	2954.51	MAS = 10.00 (m)	300.00	300.00				MinPts	
	4206.41	32.81	4194.14	4173.60	394.10	MAS = 10.00 (m)	1900.00	1833.71				MinPt-O-SF	
	6129.79	58.42	6090.31	6071.37	161.78	OSF1.50	6500.00	6103.66				MinPts	
	6267.31	61.65	6225.67	6205.66	156.52	OSF1.50	7069.53	6632.33				MinPt-O-SF	
	4677.54	133.77	4587.83	4543.77	53.07	OSF1.50	11910.00	7270.17				MinPt-CtCt	
	4677.98	134.98	4587.46	4543.00	52.59	OSF1.50	11970.00	7269.94				MINPT-O-EQU	
	4678.49	135.58	4587.57	4542.91	52.36	OSF1.50	12000.00	7269.83				MinPt-O-ADP	
	4961.46	159.74	4854.43	4801.72	47.03	OSF1.50	13560.00	7264.04				MinPt-O-SF	
	5873.15	170.24	5759.12	5702.91	52.23	OSF1.50	15457.42	7257.00				TD	
Lesser PM J 21-2 Blind 0' to 7507' - PR (Def Survey)													
	6899.55	32.81	6897.74	6866.74	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	6899.51	32.81	6897.66	6866.70	164469.42	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6899.22	32.81	6891.95	6866.41	1274.87	MAS = 10.00 (m)	250.00	250.00				MinPts	
	6912.09	50.18	6878.03	6861.91	214.29	OSF1.50	930.00	923.63				MINPT-O-EQU	
	6925.06	65.87	6880.54	6859.19	162.11	OSF1.50	1200.00	1182.68				MinPt-O-ADP	
	4015.37	466.46	3703.87	3548.92	12.95	OSF1.50	14090.00	7262.08				MinPt-CtCt	
	4015.45	466.68	3703.79	3548.76	12.95	OSF1.50	14120.00	7261.96				MINPT-O-EQU	
	4015.53	466.77	3703.82	3548.76	12.94	OSF1.50	14130.00	7261.93				MinPt-O-ADP	
	4022.89	468.31	3710.14	3554.57	12.92	OSF1.50	14340.00	7261.15				MinPt-O-SF	
	4240.48	473.30	3924.41	3767.18	13.48	OSF1.50	15457.42	7257.00				TD	
Lesser J 21-8 Blind 0' to 7838' - PR (Def Survey)													
	6968.86	32.81	6967.05	6936.05	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	6968.82	32.81	6966.96	6936.01	157279.20	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6968.49	32.81	6961.43	6935.68	1328.90	MAS = 10.00 (m)	250.00	250.00				MinPts	
	6981.38	49.93	6947.49	6931.45	217.58	OSF1.50	930.00	923.63				MINPT-O-EQU	
	6994.36	65.62	6950.00	6928.74	164.38	OSF1.50	1200.00	1182.68				MinPt-O-ADP	
	4031.28	466.90	3719.48	3564.38	12.99	OSF1.50	14160.00	7261.82				MinPt-CtCt	
	4031.32	467.05	3719.42	3564.27	12.99	OSF1.50	14180.00	7261.74				MINPT-O-EQU	
	4031.38	467.13	3719.42	3564.25	12.98	OSF1.50	14190.00	7261.70				MinPt-O-ADP	
	4038.93	468.77	3725.88	3570.16	12.96	OSF1.50	14410.00	7260.89				MinPt-O-SF	
	4234.43	473.65	3918.13	3760.78	13.45	OSF1.50	15457.42	7257.00				TD	
Lesser J 21-17 Blind 0' to 7578' - SI (Def Survey)													
	6953.02	32.81	6951.21	6920.21	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	6952.98	32.81	6951.12	6920.17	156565.01	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		
	5952.65	32.81	6945.59	5919.84	1325.69	MAS = 10.00 (m)	250.00	250.00				MinPts	
	6965.67	49.93	6931.77	6915.73	217.08	OSF1.50	930.00	923.63				MINPT-O-EOU	
	6978.19	65.05	6934.22	6913.14	165.49	OSF1.50	1190.00	1173.22				MinPt-O-ADP	
	4038.96	466.70	3727.29	3572.26	13.02	OSF1.50	1414.00	7261.89				MinPt-CtCt	
	4038.99	466.86	3727.22	3572.13	13.02	OSF1.50	14160.00	7261.82				MINPT-O-EOU	
	4039.12	467.02	3727.24	3572.10	13.01	OSF1.50	14180.00	7261.74				MinPt-O-ADP	
	4046.46	468.58	3733.54	3577.88	12.99	OSF1.50	14390.00	7260.96				MinPt-O-SF	
	4247.22	473.53	3931.00	3773.69	13.49	OSF1.50	15457.42	7257.00				TD	
Lesser J 21-28D GYRO 0' to 7573' - SI (Def Survey)													Pass
	6752.80	32.81	6750.99	6719.99	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6752.76	32.81	6750.91	6719.95	155642.01	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6752.15	32.81	6749.25	6719.34	6238.90	MAS = 10.00 (m)	260.00	260.00				MinPt-O-SF	
	6752.14	32.81	6749.24	6719.33	6247.23	MAS = 10.00 (m)	270.00	270.00				MinPts	
	6752.49	32.81	6738.12	6719.68	537.81	MAS = 10.00 (m)	1790.00	1731.60				MINPT-O-EOU	
	6751.41	32.81	6736.64	6718.60	512.91	MAS = 10.00 (m)	1940.00	1870.84				MinPts	
	6751.41	32.81	6736.63	6718.60	512.54	MAS = 10.00 (m)	1950.00	1880.12				MINPT-O-EOU	
	6755.19	32.81	6738.99	6722.38	462.74	MAS = 10.00 (m)	2270.00	2177.16				MINPT-O-EOU	
	6758.32	32.81	6741.19	6725.51	435.19	MAS = 10.00 (m)	2500.00	2390.66				MINPT-O-EOU	
	4655.48	165.48	4544.63	4490.00	42.60	OSF1.50	13350.00	7264.82				MinPt-CtCt	
	4655.91	166.72	4544.23	4489.19	42.28	OSF1.50	13410.00	7264.60				MINPT-O-EOU	
	4656.42	167.33	4544.33	4489.09	42.13	OSF1.50	13440.00	7264.49				MinPt-O-ADP	
	4848.23	186.99	4723.04	4661.24	39.22	OSF1.50	14700.00	7259.81				MinPt-O-SF	
	5111.68	193.01	4982.47	4918.67	40.05	OSF1.50	15457.42	7257.00				TD	
Lesser J 21-27D GYRO 0' to 7585' - PR (Def Survey)													Pass
	6798.11	32.81	6796.30	6765.30	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	6798.07	32.81	6796.21	6765.26	158721.69	MAS = 10.00 (m)	4.00	4.00				MinPt-O-SF	
	6797.77	32.81	6795.81	6764.96	46320.85	MAS = 10.00 (m)	70.00	70.00				MinPts	
	6797.80	32.81	6794.95	6765.00	6500.39	MAS = 10.00 (m)	270.00	270.00				MinPts	
	8297.98	57.85	8258.87	8240.13	221.25	OSF1.50	6580.00	6177.92				MinPts	
	4666.15	197.03	4534.26	4469.12	35.80	OSF1.50	14620.00	7260.11				MinPt-CtCt	
	4666.56	198.30	4533.83	4468.26	35.58	OSF1.50	14680.00	7259.89				MINPT-O-EOU	
	4667.06	198.92	4533.91	4468.13	35.47	OSF1.50	14710.00	7259.77				MinPt-O-ADP	
	4741.03	211.96	4599.19	4529.07	33.80	OSF1.50	15457.42	7257.00				MinPt-O-SF	