

Grande 4-65 20-19 4AH Plan #0 Anti-Collision Summary Report

Analysis Date-24hr Time: May 22, 2020 - 13:53
Client: Crestone Peak Resources
Field: CO, Arapahoe County (NAD 83 CZ)
Structure: Crestone Peak 21-04S-65W (Grande South Pad)
Slot: Grande 4-65 20-19 4AH
Well: Grande 4-65 20-19 4AH
Borehole: Original Hole
Scan MD Range: 0.00ft - 17999.74ft

Analysis Method: 3D Least Distance
Reference Trajectory: Grande 4-65 20-19 4AH Plan #0 (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: 2.10.810.1
Database \ Project: localhost\drilling-Colorado

Trajectory Error Model: ICSWSA0 3-D 95.000% Confidence 2.7955 sigma, for subject well. For offset wells, error model version is specified with each well respectively.

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

Sunset 4-65 21-22 4BH Plan #0 (Def Plan)

Warning Alert

25.13	20.30	24.15	4.83	N/A	MAS = 6.19 (m)	0.00	0.00	CtCt<=15m<15.00	Enter Alert				
25.13	20.30	24.15	4.83	108704.39	MAS = 6.19 (m)	28.00	28.00		WRP				
25.13	20.30	23.04	4.83	21.83	MAS = 6.19 (m)	240.00	240.00		MinPts				
25.15	20.30	22.97	4.84	20.22	MAS = 6.19 (m)	270.00	270.00		MINPT-O-EOU				
25.20	20.30	22.96	4.90	19.63	MAS = 6.19 (m)	300.00	300.00		MinPt-O-SF				
32.50	20.30	27.68	12.20	8.22	MAS = 6.19 (m)	1000.00	999.63		MinPt-O-SF				
34.76	20.30	29.83	14.46	8.55	MAS = 6.19 (m)	1130.00	1129.60		MinPt-O-SF				
38.19	20.30	33.52	17.89	10.11	MAS = 6.19 (m)	1400.00	1399.60		MinPts				
38.20	20.30	31.33	17.90	6.33	MAS = 6.19 (m)	2510.00	2509.60		MINPT-O-EOU				
38.29	20.30	31.40	17.98	6.32	MAS = 6.19 (m)	2530.00	2529.60		MinPt-O-SF				
48.93	20.30	41.73	28.63	7.72	MAS = 6.19 (m)	2790.00	2789.60	CtCt<=15m<15.00	Exit Alert				
740.93	42.74	712.11	698.19	26.58	OSF1.50	7340.00	7320.34		MinPt-O-SF				
572.96	44.21	543.15	528.75	19.85	OSF1.50	7920.00	7774.12		MinPts				
574.58	44.51	544.58	530.07	19.77	OSF1.50	7960.00	7793.55		MinPt-O-SF				
9930.34	49.93	9896.73	9880.41	304.29	OSF1.50	17999.74	7875.00		TD				

Sunset 4-65 21-22 3BH Plan #0 (Def Plan)

Warning Alert

25.15	20.30	24.17	4.85	N/A	MAS = 6.19 (m)	0.00	0.00	CtCt<=15m<15.00	Enter Alert				
25.13	20.30	24.15	4.83	N/A	MAS = 6.19 (m)	28.00	28.00		WRP				
25.13	20.30	22.98	4.83	20.72	MAS = 6.19 (m)	250.00	250.00		MinPts				
25.17	20.30	22.94	4.87	19.44	MAS = 6.19 (m)	280.00	280.00		MINPT-O-EOU				
36.06	20.30	30.66	15.76	7.95	MAS = 6.19 (m)	1000.00	999.63		MinPt-O-SF				
37.29	20.30	31.75	16.99	7.98	MAS = 6.19 (m)	1110.00	1109.60		MinPt-O-SF				
38.02	20.30	27.36	17.72	3.85	MAS = 6.19 (m)	3220.00	3219.60		MINPT-O-EOU				
38.35	20.30	27.55	18.05	3.81	MAS = 6.19 (m)	3260.00	3259.60		MinPt-O-SF				
54.27	20.30	42.47	33.97	4.93	MAS = 6.19 (m)	3560.00	3559.60	OSF<5.00	Exit Alert				
590.28	42.56	561.58	547.73	21.26	OSF1.50	7820.00	7717.37		MinPts				
590.35	42.67	561.58	547.69	21.21	OSF1.50	7830.00	7723.55		MinPt-O-ADP				
593.68	43.19	564.55	550.48	21.06	OSF1.50	7890.00	7758.29		MinPt-O-SF				
9941.39	48.55	9908.70	9892.85	313.49	OSF1.50	17999.74	7875.00		TD				

Grande 4-65 20-19 3CH Plan #0 (Def Plan)

Warning Alert

49.92	32.81	48.93	17.11	N/A	MAS = 10.00 (m)	0.00	0.00		Surface				
49.90	32.81	48.92	17.10	N/A	MAS = 10.00 (m)	28.00	28.00		WRP				
49.90	32.81	47.76	17.10	41.99	MAS = 10.00 (m)	250.00	250.00		MinPts				
49.94	32.81	47.72	17.13	39.70	MAS = 10.00 (m)	270.00	270.00		MINPT-O-EOU				
72.36	32.81	66.63	39.55	15.06	MAS = 10.00 (m)	1000.00	999.63		MinPt-O-SF				
78.38	32.81	71.95	45.57	14.22	MAS = 10.00 (m)	1260.00	1259.60		MinPt-O-SF				
80.30	32.81	63.43	47.50	4.99	MAS = 10.00 (m)	4390.00	4389.60	OSF<5.00	Enter Alert				
80.35	32.81	59.44	47.54	3.98	MAS = 10.00 (m)	5120.00	5119.60		MINPT-O-EOU				
81.03	32.81	59.85	48.22	3.98	MAS = 10.00 (m)	5170.00	5169.60		MinPt-O-SF				
110.20	34.00	87.20	76.20	4.96	OSF1.50	5530.00	5529.60	OSF<5.00	Exit Alert				
707.08	64.05	664.05	643.03	16.79	OSF1.50	8510.00	7875.00		MinPt-CtCt				
708.27	213.52	566.59	495.74	5.00	OSF1.50	11660.00	7875.00	OSF<5.00	Enter Alert				
713.67	539.31	353.81	174.36	1.99	OSF1.50	17999.74	7875.00		MinPts				

Grande 4-65 20-19 4CH Plan #0 (Def Plan)

Warning Alert

49.91	32.81	48.92	17.10	N/A	MAS = 10.00 (m)	0.00	0.00		Surface				
49.91	32.81	48.92	17.10	220203.01	MAS = 10.00 (m)	28.00	28.00		WRP				
49.91	32.81	47.81	17.10	44.22	MAS = 10.00 (m)	240.00	240.00		MinPts				
49.91	32.81	47.75	17.10	41.54	MAS = 10.00 (m)	260.00	260.00		MINPT-O-EOU				
50.02	32.81	47.82	17.21	40.35	MAS = 10.00 (m)	300.00	300.00		MinPt-O-SF				
64.77	32.81	60.14	31.96	17.50	MAS = 10.00 (m)	1000.00	999.63		MinPt-O-SF				
77.63	32.81	71.95	44.82	16.32	MAS = 10.00 (m)	1400.00	1399.60		MinPt-O-SF				
80.88	32.81	75.38	48.07	17.71	MAS = 10.00 (m)	1600.00	1599.60		MinPts				
80.89	32.81	72.14	48.08	10.29	MAS = 10.00 (m)	3210.00	3209.60		MINPT-O-EOU				
82.07	32.81	73.12	49.26	10.18	MAS = 10.00 (m)	3290.00	3289.60		MinPt-O-SF				
713.66	215.08	569.95	498.58	4.99	OSF1.50	11720.00	7875.00	OSF<5.00	Enter Alert				
713.90	539.42	353.95	174.48	1.99	OSF1.50	17999.74	7875.00		MinPts				

Grande 4-65 20-19 3AH ST1 10516' to 15795' - PR (Def Survey)

Warning Alert

225.57	32.81	223.75	192.76	N/A	MAS = 10.00 (m)	0.00	0.00		Surface				
225.48	32.81	223.67	192.68	N/A	MAS = 10.00 (m)	28.00	28.00		WRP				
225.48	32.81	223.67	192.68	35595.31	MAS = 10.00 (m)	30.00	30.00		MinPts				
225.51	32.81	222.60	192.70	205.05	MAS = 10.00 (m)	270.00	270.00		MinPts				
225.52	32.81	222.57	192.71	196.84	MAS = 10.00 (m)	300.00	300.00		MINPT-O-EOU				
225.53	32.81	222.58	192.72	196.68	MAS = 10.00 (m)	310.00	310.00		MinPt-O-SF				
233.59	32.81	228.88	200.78	80.16	MAS = 10.00 (m)	968.53	968.18		MinPt-O-SF				
233.39	32.81	226.87	200.58	49.27	MAS = 10.00 (m)	2190.00	2189.60		MINPT-O-EOU				
233.38	32.81	227.01	200.57	48.59	MAS = 10.00 (m)	2210.00	2209.60		MinPts				
232.26	32.81	225.31	199.46	43.15	MAS = 10.00 (m)	2610.00	2609.60		MinPts				
232.27	32.81	225.31	199.46	43.06	MAS = 10.00 (m)	2620.00	2619.60		MINPT-O-EOU				
228.91	32.81	221.50	196.10	39.17	MAS = 10.00 (m)	2880.00	2879.60		MinPts				
230.13	32.81	222.26	197.32	36.47	MAS = 10.00 (m)	3070.00	3069.60		MinPts				

...Grande 4-65 20-19 4AH\Original Hole\Grande 4-65 20-19 4AH Plan #0

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		
	230.17	32.81	222.22	197.36	36.01	MAS = 10.00 (m)	3100.00	3099.60				MINPT-O-EOU	
	228.55	32.81	219.11	195.74	28.96	MAS = 10.00 (m)	3590.00	3589.60				MinPts	
	228.39	32.81	217.63	195.59	24.80	MAS = 10.00 (m)	3970.00	3969.60				MinPts	
	228.42	32.81	217.63	195.61	24.70	MAS = 10.00 (m)	3980.00	3979.60				MINPT-O-EOU	
	254.25	32.81	241.86	221.44	23.43	MAS = 10.00 (m)	4370.00	4369.60				MinPt-O-SF	
	1342.10	103.07	1272.85	1239.03	19.82	OSF1.50	8870.00	7875.00				MinPt-CiCt	
	1346.38	123.25	1263.68	1223.13	16.58	OSF1.50	9140.00	7875.00				MinPt-CiCt	
	1373.39	219.77	1226.34	1153.61	9.43	OSF1.50	10390.00	7875.00				MinPt-CiCt	
	1375.68	228.87	1222.57	1146.81	9.07	OSF1.50	10540.00	7875.00				MINPT-O-EOU	
	1377.38	230.93	1222.90	1146.46	9.00	OSF1.50	10580.00	7875.00				MinPt-O-ADP	
	1330.12	350.77	1095.73	979.34	5.71	OSF1.50	12080.00	7875.00				MinPt-CiCt	
	1331.87	356.79	1093.48	975.08	5.62	OSF1.50	12190.00	7875.00				MINPT-O-EOU	
	1333.53	358.78	1093.81	974.75	5.59	OSF1.50	12230.00	7875.00				MinPt-O-ADP	
	1347.90	406.04	1076.67	941.86	4.99	OSF1.50	12760.00	7875.00	OSF<5.00			Enter Alert	
	1339.14	436.28	1047.76	902.87	4.62	OSF1.50	13170.00	7875.00				MinPt-CiCt	
	1340.42	440.21	1046.41	900.21	4.58	OSF1.50	13250.00	7875.00				MINPT-O-EOU	
	1341.54	441.58	1046.62	899.96	4.57	OSF1.50	13280.00	7875.00				MinPt-O-ADP	
	1343.01	442.99	1047.15	900.02	4.56	OSF1.50	13310.00	7875.00				MinPt-O-ADP	
	1318.94	533.62	962.66	785.32	3.71	OSF1.50	14410.00	7875.00				MinPt-CiCt	
	1320.16	537.41	961.35	782.75	3.69	OSF1.50	14490.00	7875.00				MINPT-O-EOU	
	1323.68	541.60	962.07	782.07	3.67	OSF1.50	14570.00	7875.00				MinPt-O-ADP	
	1364.49	628.76	944.78	735.73	3.26	OSF1.50	15620.00	7875.00				MinPt-CiCt	
	1364.65	629.26	944.61	735.39	3.26	OSF1.50	15640.00	7875.00				MINPT-O-EOU	
	1364.84	629.46	944.66	735.38	3.26	OSF1.50	15650.00	7875.00				MinPt-O-ADP	
	1365.10	629.62	944.81	735.47	3.26	OSF1.50	15660.00	7875.00				MinPt-O-SF	
	1728.24	521.65	1379.94	1206.59	4.98	OSF1.50	16680.00	7875.00	OSF>5.00			Exit Alert	
	2743.74	350.42	2509.59	2393.31	11.79	OSF1.50	17999.74	7875.00				TD	

Grande 4-65 20-19 3AH MWD
0' to 15453' - PR (Def Survey)

Warning Alert

225.57	32.81	223.75	192.76	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
225.48	32.81	223.67	192.68	N/A	MAS = 10.00 (m)	28.00	28.00					WRP	
225.48	32.81	223.67	192.68	35595.31	MAS = 10.00 (m)	30.00	30.00					MinPts	
225.51	32.81	222.60	192.70	205.05	MAS = 10.00 (m)	270.00	270.00					MinPts	
225.52	32.81	222.57	192.71	196.84	MAS = 10.00 (m)	300.00	300.00					MINPT-O-EOU	
225.53	32.81	222.58	192.72	196.68	MAS = 10.00 (m)	310.00	310.00					MinPt-O-SF	
233.59	32.81	228.88	200.78	80.16	MAS = 10.00 (m)	968.53	968.18					MinPt-O-SF	
233.39	32.81	226.87	200.58	49.27	MAS = 10.00 (m)	2190.00	2189.60					MINPT-O-EOU	
233.39	32.81	227.01	200.57	48.59	MAS = 10.00 (m)	2210.00	2209.60					MinPts	
232.26	32.81	225.31	199.46	43.15	MAS = 10.00 (m)	2610.00	2609.60					MinPts	
232.27	32.81	225.31	199.46	43.06	MAS = 10.00 (m)	2620.00	2619.60					MINPT-O-EOU	
228.91	32.81	221.50	196.10	39.17	MAS = 10.00 (m)	2880.00	2879.60					MinPts	
230.13	32.81	222.26	197.32	36.47	MAS = 10.00 (m)	3070.00	3069.60					MinPts	
230.17	32.81	222.22	197.36	36.01	MAS = 10.00 (m)	3100.00	3099.60					MINPT-O-EOU	
228.55	32.81	219.11	195.74	28.96	MAS = 10.00 (m)	3590.00	3589.60					MinPts	
228.39	32.81	217.63	195.58	24.80	MAS = 10.00 (m)	3970.00	3969.60					MinPts	
228.42	32.81	217.63	195.61	24.70	MAS = 10.00 (m)	3980.00	3979.60					MINPT-O-EOU	
254.25	32.81	241.86	221.44	23.43	MAS = 10.00 (m)	4370.00	4369.60					MinPt-O-SF	
1342.10	103.07	1272.85	1239.03	19.82	OSF1.50	8870.00	7875.00					MinPt-CiCt	
1346.38	123.25	1263.68	1223.13	16.58	OSF1.50	9140.00	7875.00					MinPt-CiCt	
1361.43	251.70	1193.10	1109.73	8.16	OSF1.50	10800.00	7875.00					MinPt-CiCt	
1373.90	290.97	1179.39	1082.93	7.11	OSF1.50	11340.00	7875.00					MINPT-O-EOU	
1380.85	299.37	1180.74	1081.48	6.95	OSF1.50	11470.00	7875.00					MinPt-O-ADP	
1382.85	301.35	1181.41	1081.50	6.91	OSF1.50	11500.00	7875.00					MinPt-O-ADP	
1398.60	337.52	1173.05	1061.08	6.24	OSF1.50	11890.00	7875.00					MinPt-CiCt	
1407.85	364.99	1163.99	1042.86	5.80	OSF1.50	12280.00	7875.00					MINPT-O-EOU	
1389.76	418.11	1110.48	971.65	5.00	OSF1.50	12900.00	7875.00	OSF<5.00				Enter Alert	
1381.39	455.33	1077.31	926.06	4.56	OSF1.50	13390.00	7875.00					MinPt-CiCt	
1389.30	509.50	1049.10	879.80	4.10	OSF1.50	14080.00	7875.00					MinPt-CiCt	
1374.67	586.65	983.04	788.03	3.52	OSF1.50	15070.00	7875.00					MinPt-CiCt	
1375.85	604.31	972.44	771.54	3.42	OSF1.50	15310.00	7875.00					MINPT-O-EOU	
1376.03	604.51	972.48	771.52	3.42	OSF1.50	15320.00	7875.00					MinPt-O-ADP	
1376.29	604.69	972.63	771.60	3.42	OSF1.50	15330.00	7875.00					MinPt-O-SF	
1701.13	512.78	1358.74	1188.34	4.99	OSF1.50	16290.00	7875.00	OSF>5.00				Exit Alert	
3039.53	313.17	2830.22	2726.36	14.63	OSF1.50	17999.74	7875.00					TD	

Sunset 4-65 21-22 1H MWD 0'
to 17391' - PR (Def Survey)

Warning Alert

7877.61	204.16	7740.91	7673.46	58.38	OSF1.50	0.00	0.00					Surface	
7849.63	204.28	7712.84	7645.35	58.14	OSF1.50	28.00	28.00					WRP	
774.97	236.18	616.46	538.79	4.97	OSF1.50	7160.00	7143.82	OSF<5.00				Enter Alert	
498.91	222.74	347.92	276.17	3.42	OSF1.50	7530.00	7496.74					MinPt-O-SF	
483.09	212.97	338.33	270.12	3.48	OSF1.50	7580.00	7539.76					MinPt-O-ADP	
479.03	208.21	337.34	270.82	3.54	OSF1.50	7600.00	7556.47					MINPT-O-EOU	
474.86	194.35	342.16	280.51	3.78	OSF1.50	7650.00	7596.87					MinPt-CiCt	
495.83	157.71	387.14	338.12	4.95	OSF1.50	7760.00	7678.07	OSF>5.00				Exit Alert	
10636.12	36.78	10611.07	10599.35	453.49	OSF1.50	17999.74	7875.00					TD	

Sunset 4-65 21-22 3AH Plan #0
(Def Plan)

Pass

75.05	32.81	74.06	42.24	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
75.04	32.81	74.05	42.23	N/A	MAS = 10.00 (m)	28.00	28.00					WRP	
75.04	32.81	72.89	42.23	63.53	MAS = 10.00 (m)	250.00	250.00					MinPts	
75.09	32.81	72.86	42.28	59.44	MAS = 10.00 (m)	270.00	270.00					MINPT-O-EOU	
108.64	32.81	102.75	75.83	21.97	MAS = 10.00 (m)	970.00	969.64					MinPt-O-SF	
114.19	32.81	104.19	81.38	12.56	MAS = 10.00 (m)	2210.00	2209.60					MINPT-O-EOU	
114.69	32.81	104.62	81.88	12.51	MAS = 10.00 (m)	2270.00	2269.60					MinPt-O-SF	
1212.89	48.10	1180.49	1164.79	38.58	OSF1.50	7650.00	7596.87					MinPt-CiCt	
1212.93	48.23	1180.45	1164.71	38.48	OSF1.50	7670.00	7612.45					MinPts	
1298.53	53.52	1262.53	1245.02	37.05	OSF1.50	8300.00	7874.97					MinPt-O-SF	
1307.82	53.92	1271.55	1253.90	37.03	OSF1.50	8340.00	7875.00					MinPt-O-SF	
9990.61	66.09	9946.22	9924.52	230.14	OSF1.50	17999.74	7875.00					TD	

Sunset 4-65 21-22 2BH Plan #0
(Def Plan)

Pass

3004.09	32.81	3003.06	2971.28	75941.08	MAS = 10.00 (m)	0.00	0.00					Surface
3004.09	32.81	3003.00	2971.28	29514.22	MAS = 10.00 (m)	28.00	28.00					WRP
3004.05	32.81	3001.99	2971.24	2795.13	MAS = 10.00 (m)	210.00	210.00					MinPt-O-SF
2012.44	52.67	1976.79	1959.77	59.08	OSF1.50	6870.00	6858.82					MinPt-O-SF
1896.64	52.28	1861.11	1844.35	56.53	OSF1.50	7630.00	7580.95					MinPts
1896.84	52.31	1861.29	1844.53	56.52	OSF1.50	7660.00	7604.70					MinPt-O-SF
1898.68	52.36	1863.10	1846.32	56.53	OSF1.50	7720.00	7649.85					MinPt-O-SF
1907.72	52.53	1872.03	1855.19	56.61	OSF1.50	7840.00	7729.62					MinPt-O-SF
2312.52	68.61	2266.42	2243.91	51.34	OSF1.50	9180.00	7875.00					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		
	10125.69	93.27	10063.18	10032.42	164.56	OSF1.50	17999.74	7875.00				TD	
Grande 4-65 20-19 2CH Plan #0 (Def Plan)													Pass
	3021.32	32.81	3020.30	2988.51	83920.21	MAS = 10.00 (m)	0.00	0.00				Surface	
	3021.32	32.81	3020.23	2988.51	30758.08	MAS = 10.00 (m)	28.00	28.00				WRP	
	3021.11	32.81	3018.95	2988.31	2555.81	MAS = 10.00 (m)	250.00	250.00				MinPt-O-SF	
	3016.77	32.81	3012.12	2983.96	822.89	MAS = 10.00 (m)	910.00	909.68				MinPts	
	3016.77	32.81	3012.11	2983.96	820.95	MAS = 10.00 (m)	920.00	919.67				MINPT-O-EOU	
	3016.91	32.81	3012.20	2984.10	809.50	MAS = 10.00 (m)	968.53	968.18				MinPt-O-SF	
	3017.64	32.81	3009.99	2984.83	452.92	MAS = 10.00 (m)	2450.00	2449.60				MinPt-O-SF	
	1973.40	70.74	1925.46	1902.66	43.22	OSF1.50	8500.00	7875.00				MinPt-CtCt	
	1987.32	547.54	1621.52	1439.78	5.46	OSF1.50	17999.74	7875.00				MinPts	
Sunset 4-65 21-22 2AH Plan #0 (Def Plan)													Pass
	3038.66	32.81	3037.64	3005.85	89366.82	MAS = 10.00 (m)	0.00	0.00				Surface	
	3038.66	32.81	3037.58	3005.85	31577.65	MAS = 10.00 (m)	28.00	28.00				WRP	
	2504.82	46.07	2473.68	2458.75	83.86	OSF1.50	6280.00	6278.40				MinPt-CtCt	
	2504.83	46.11	2473.67	2458.73	83.79	OSF1.50	6280.00	6288.31				MINPT-O-EOU	
	2504.86	46.15	2473.67	2458.71	83.71	OSF1.50	6300.00	6298.21				MinPt-O-SF	
	2516.84	48.80	2483.89	2468.04	79.38	OSF1.50	6860.00	6849.00				MinPt-O-ADP	
	2467.99	46.96	2436.21	2421.04	81.26	OSF1.50	7510.00	7479.06				MinPt-CtCt	
	2468.01	46.99	2436.21	2421.02	81.21	OSF1.50	7520.00	7487.93				MinPts	
	3174.46	80.70	3120.34	3093.76	59.71	OSF1.50	9890.00	7875.00				MinPt-O-SF	
	10253.78	107.75	10181.62	10146.03	144.04	OSF1.50	17999.74	7875.00				TD	
Grande 4-65 20-19 2AH Plan #0 (Def Plan)													Pass
	3055.71	32.81	3054.69	3022.90	95485.16	MAS = 10.00 (m)	0.00	0.00				Surface	
	3055.71	32.81	3054.63	3022.90	32428.92	MAS = 10.00 (m)	28.00	28.00				WRP	
	3055.44	32.81	3053.17	3022.64	2365.23	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	3055.22	32.81	3052.85	3022.42	2199.30	MAS = 10.00 (m)	390.00	389.99				MinPts	
	3055.27	32.81	3052.82	3022.46	2084.06	MAS = 10.00 (m)	420.00	419.98				MINPT-O-EOU	
	3059.90	32.81	3055.45	3027.09	882.05	MAS = 10.00 (m)	968.53	968.18				MinPt-O-SF	
	3061.80	32.81	3051.99	3028.99	346.76	MAS = 10.00 (m)	2970.00	2969.60				MinPt-O-SF	
	2611.66	42.10	2583.11	2569.56	96.36	OSF1.50	7300.00	7281.37				MinPt-CtCt	
	2608.56	62.25	2566.55	2546.31	64.41	OSF1.50	8400.00	7875.00				MinPt-CtCt	
	2617.24	547.18	2251.94	2070.06	7.19	OSF1.50	17999.74	7875.00				MinPts	
Sunset 4-65 21-22 1BH Plan #0 (Def Plan)													Pass
	3073.26	32.81	3072.24	3040.45	100940.66	MAS = 10.00 (m)	0.00	0.00				Surface	
	3073.26	32.81	3072.18	3040.45	33162.76	MAS = 10.00 (m)	28.00	28.00				WRP	
	2961.49	42.18	2933.05	2919.31	107.80	OSF1.50	5890.40	5890.00				MinPt-CtCt	
	2961.50	42.24	2933.02	2919.27	107.65	OSF1.50	5900.00	5899.60				MinPts	
	3051.94	47.09	3020.22	3004.85	99.27	OSF1.50	7110.00	7094.68				MinPt-O-SF	
	3054.88	44.64	3024.79	3010.24	104.93	OSF1.50	7490.00	7461.14				MinPt-CtCt	
	3054.88	44.67	3024.78	3010.21	104.86	OSF1.50	7500.00	7470.13				MINPT-O-EOU	
	3054.91	44.71	3024.78	3010.20	104.77	OSF1.50	7510.00	7479.06				MinPt-O-SF	
	3947.16	94.14	3884.08	3853.02	63.54	OSF1.50	10470.00	7875.00				MinPt-O-ADP	
	10398.57	124.10	10315.51	10274.47	126.68	OSF1.50	17999.74	7875.00				TD	
Grande 4-65 20-19 1CH Plan #0 (Def Plan)													Pass
	3090.91	32.81	3089.90	3058.10	106170.55	MAS = 10.00 (m)	0.00	0.00				Surface	
	3090.91	32.81	3089.84	3058.10	33840.25	MAS = 10.00 (m)	28.00	28.00				WRP	
	3090.86	32.81	3088.60	3058.06	2410.04	MAS = 10.00 (m)	270.00	270.00				MinPts	
	3090.89	32.81	3088.56	3058.08	2310.04	MAS = 10.00 (m)	300.00	300.00				MINPT-O-EOU	
	3099.58	32.81	3095.05	3066.77	875.31	MAS = 10.00 (m)	968.53	968.18				MinPt-O-SF	
	3100.16	32.81	3095.66	3067.35	881.00	MAS = 10.00 (m)	1000.00	999.63				MinPt-O-SF	
	3062.06	33.73	3039.23	3028.32	140.36	OSF1.50	5900.00	5899.60				MinPt-O-SF	
	3061.41	33.72	3038.59	3027.69	140.39	OSF1.50	5970.00	5969.59				MinPts	
	3062.11	33.72	3039.29	3028.38	140.39	OSF1.50	6050.00	6049.52				MinPt-O-SF	
	3246.89	547.26	2881.73	2699.63	8.91	OSF1.50	17999.74	7875.00				MinPts	
Sunset 4-65 21-22 1AH Plan #0 (Def Plan)													Pass
	3108.67	32.81	3107.66	3075.86	109283.35	MAS = 10.00 (m)	0.00	0.00				Surface	
	3108.67	32.81	3107.60	3075.86	34284.97	MAS = 10.00 (m)	28.00	28.00				WRP	
	3108.67	32.81	3106.69	3075.86	3135.59	MAS = 10.00 (m)	200.00	200.00				MinPts	
	3108.72	32.81	3106.49	3075.91	2500.23	MAS = 10.00 (m)	250.00	250.00				MINPT-O-EOU	
	3600.83	46.78	3569.32	3554.05	117.91	OSF1.50	7290.00	7271.57				MinPt-O-SF	
	4733.70	107.44	4661.74	4626.25	66.68	OSF1.50	11040.00	7875.00				MinPt-O-SF	
	10578.06	140.39	10484.14	10437.67	113.81	OSF1.50	17999.74	7875.00				TD	
Grande 4-65 20-19 1AH Plan #0 (Def Plan)													Pass
	3126.16	32.81	3125.15	3093.36	114365.97	MAS = 10.00 (m)	0.00	0.00				Surface	
	3126.16	32.81	3125.09	3093.36	34905.74	MAS = 10.00 (m)	28.00	28.00				WRP	
	3126.16	32.81	3124.19	3093.36	3158.85	MAS = 10.00 (m)	200.00	200.00				MinPts	
	3126.26	32.81	3124.02	3093.45	2492.37	MAS = 10.00 (m)	250.00	250.00				MINPT-O-EOU	
	3157.07	32.81	3151.82	3124.26	738.61	MAS = 10.00 (m)	930.00	929.67				MinPt-O-SF	
	3158.96	32.81	3153.99	3126.15	790.98	MAS = 10.00 (m)	1000.00	999.63				MinPt-O-SF	
	3160.44	32.81	3147.27	3127.69	259.35	MAS = 10.00 (m)	3490.00	3489.60				MINPT-O-EOU	
	3876.75	547.63	3511.33	3329.11	10.64	OSF1.50	17999.74	7875.00				MinPts	
Grimm Motocross 4-65 23-24 1H ST1 7232 to 17548 - PR (Def Survey)													Pass
	9797.41	32.81	9795.36	9764.61	40648.13	MAS = 10.00 (m)	0.00	0.00				MinPts	
	9797.42	32.81	9795.31	9764.61	32430.68	MAS = 10.00 (m)	28.00	28.00				WRP	
	9797.58	32.81	9794.22	9764.77	6385.61	MAS = 10.00 (m)	270.00	270.00				MINPT-O-EOU	
	9823.83	32.81	9811.36	9791.02	922.03	MAS = 10.00 (m)	2190.00	2189.60				MINPT-O-EOU	
	9883.60	32.81	9868.81	9850.79	749.43	MAS = 10.00 (m)	3440.00	3439.60				MINPT-O-EOU	
	9915.68	32.81	9898.37	9882.88	631.13	MAS = 10.00 (m)	4110.00	4109.60				MinPt-O-SF	
	9935.17	32.81	9916.75	9902.36	590.64	MAS = 10.00 (m)	4520.00	4519.60				MinPt-O-SF	
	9985.86	32.81	9963.76	9953.05	486.96	MAS = 10.00 (m)	5560.00	5559.60				MinPt-O-SF	
	9997.67	33.45	9974.84	9964.22	470.86	OSF1.50	5900.00	5899.60				MinPt-O-SF	
	10050.96	33.00	10028.43	10017.96	480.18	OSF1.50	6360.00	6357.50				MinPt-O-SF	
	10110.68	32.81	10088.63	10077.87	494.57	MAS = 10.00 (m)	6680.00	6672.10				MinPt-O-SF	
	10145.58	32.81	10123.95	10112.78	506.43	MAS = 10.00 (m)	6870.00	6858.82				MinPt-O-SF	
	10732.50	33.96	10709.33	10698.54	497.52	OSF1.50	8100.00	7845.74				MinPt-O-SF	
	20617.70	35.99	20593.17	20581.71	899.41	OSF1.50	17999.74	7875.00				TD	

...Grande 4-65 20-19 4AH\Original Hole\Grande 4-65 20-19 4AH Plan #0

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		
Grimm Motocross 4-65 23-24 1H MWD 0' to 7959' - PR (Def Survey)													
Pass													
9797.41	32.81	9795.36	9764.61	40648.13	MAS = 10.00 (m)	0.00	0.00					MinPts	
9797.42	32.81	9795.31	9764.61	32430.68	MAS = 10.00 (m)	28.00	28.00					WRP	
9797.58	32.81	9794.23	9764.77	6385.61	MAS = 10.00 (m)	270.00	270.00					MINPT-O-EOU	
9823.83	32.81	9811.36	9791.02	922.03	MAS = 10.00 (m)	2190.00	2189.60					MINPT-O-EOU	
9883.60	32.81	9868.81	9850.79	749.43	MAS = 10.00 (m)	3440.00	3439.60					MINPT-O-EOU	
9915.68	32.81	9898.37	9882.88	631.13	MAS = 10.00 (m)	4110.00	4109.60					MinPt-O-SF	
9935.17	32.81	9916.75	9902.36	590.64	MAS = 10.00 (m)	4520.00	4519.60					MinPt-O-SF	
9985.86	32.81	9963.76	9953.05	486.96	MAS = 10.00 (m)	5560.00	5559.60					MinPt-O-SF	
9997.67	33.45	9974.84	9964.22	470.86	OSF1.50	5900.00	5899.60					MinPt-O-SF	
10050.96	33.00	10028.43	10017.96	480.18	OSF1.50	6360.00	6357.50					MinPt-O-SF	
10110.68	32.81	10088.63	10077.87	494.57	MAS = 10.00 (m)	6680.00	6672.10					MinPt-O-SF	
10145.58	32.81	10123.95	10112.78	506.43	MAS = 10.00 (m)	6870.00	6858.82					MinPt-O-SF	
10730.68	33.97	10707.50	10696.71	497.16	OSF1.50	8100.00	7845.74					MinPt-O-SF	
20616.93	36.04	20592.37	20580.89	897.93	OSF1.50	17999.74	7875.00					TD	