

Grande 4-65 20-19 3CH Plan #0 Anti-Collision Summary Report

Analysis Date-24hr Time: May 22, 2020 - 13:26
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 3CH
Well: Grande 4-65 20-19 3CH
Borehole: Original Hole
Scan MD Range: 0.00ft - 18100.95ft

Analysis Method: 3D Least Distance
Reference Trajectory: Grande 4-65 20-19 3CH 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	Sep.	Controlling	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 3BH Plan #0 (Def Plan)

Warning Alert

24.77	20.01	23.79	4.76	N/A	MAS = 6.10 (m)	0.00	0.00	CtCt<=15m<15.00				Enter Alert	
24.77	20.01	23.79	4.76	53532.38	MAS = 6.10 (m)	28.00	28.00					WRP	
24.77	20.01	22.62	4.76	20.35	MAS = 6.10 (m)	250.00	250.00					MinPts	
24.88	20.01	22.52	4.87	17.38	MAS = 6.10 (m)	300.00	300.00					MINPT-O-EOU	
40.18	20.01	33.09	20.17	6.42	MAS = 6.10 (m)	1200.00	1199.50					MinPt-O-SF	
38.87	20.01	26.08	18.86	3.21	MAS = 6.10 (m)	3520.00	3519.43					MinPts	
38.88	20.01	26.06	18.87	3.20	MAS = 6.10 (m)	3530.00	3529.43					MINPT-O-EOU	
39.03	20.01	26.14	19.02	3.20	MAS = 6.10 (m)	3550.00	3549.43					MinPt-O-SF	
64.68	20.24	50.86	44.44	4.96	OSF1.50	3840.00	3839.43	OSF>5.00				Exit Alert	
424.29	40.41	397.02	383.88	16.10	OSF1.50	6350.00	6332.91					MinPt-O-SF	
519.79	48.84	486.90	470.95	16.26	OSF1.50	7250.00	7215.95					MinPt-O-SF	
129.59	41.06	101.89	88.53	4.81	OSF1.50	7800.00	7712.86	OSF<5.00				Enter Alert	
89.43	51.26	54.93	38.17	2.64	OSF1.50	7890.00	7775.21					MinPt-CtCt	
89.44	51.34	54.88	38.10	2.63	OSF1.50	7900.00	7781.64					MinPts	
135.39	41.78	107.21	93.61	4.94	OSF1.50	8000.00	7840.01	OSF>5.00				Exit Alert	
9931.95	50.95	9897.65	9881.00	298.16	OSF1.50	18100.95	7950.00					TD	

Sunset 4-65 21-22 3AH 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	54352.20	MAS = 6.19 (m)	28.00	28.00					WRP	
25.13	20.30	23.04	4.83	21.82	MAS = 6.19 (m)	240.00	240.00					MinPts	
25.29	20.30	22.80	4.99	16.17	MAS = 6.19 (m)	310.00	310.00					MINPT-O-EOU	
40.20	20.30	33.76	19.89	7.19	MAS = 6.19 (m)	970.00	969.64					MinPt-O-SF	
43.37	20.30	36.33	23.07	7.00	MAS = 6.19 (m)	1252.60	1252.07					MINPT-O-EOU	
43.58	20.30	36.42	23.26	6.89	MAS = 6.19 (m)	1300.00	1299.45					MinPt-O-SF	
43.98	20.30	32.70	23.68	4.18	MAS = 6.19 (m)	2230.00	2229.43					MINPT-O-EOU	
44.21	20.30	32.84	23.91	4.16	MAS = 6.19 (m)	2300.00	2299.43					MinPt-O-SF	
54.01	20.30	42.39	33.71	4.99	MAS = 6.19 (m)	2590.00	2589.43	OSF>5.00				Exit Alert	
740.90	55.10	703.84	685.80	20.51	OSF1.50	7300.00	7265.00					MinPt-O-SF	
541.83	57.19	503.37	484.64	14.43	OSF1.50	7900.00	7781.64					MinPts	
542.90	57.40	504.31	485.50	14.41	OSF1.50	7930.00	7800.30					MinPt-O-SF	
9938.52	61.80	9897.00	9876.72	245.11	OSF1.50	18100.95	7950.00					TD	

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

Warning Alert

49.90	32.81	48.92	17.10	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
49.90	32.81	48.92	17.10	18349.95	MAS = 10.00 (m)	28.00	28.00					WRP	
49.90	32.81	47.81	17.10	44.08	MAS = 10.00 (m)	240.00	240.00					MinPts	
49.94	32.81	47.72	17.13	39.57	MAS = 10.00 (m)	270.00	270.00					MINPT-O-EOU	
72.40	32.81	66.67	39.59	15.04	MAS = 10.00 (m)	1000.00	999.62					MinPt-O-SF	
78.27	32.81	71.84	45.46	14.20	MAS = 10.00 (m)	1252.60	1252.07					MinPt-O-SF	
80.30	32.81	63.42	47.50	4.99	MAS = 10.00 (m)	4390.00	4389.43	OSF<5.00				Enter Alert	
80.36	32.81	59.44	47.55	3.98	MAS = 10.00 (m)	5120.00	5119.43					MINPT-O-EOU	
81.07	32.81	59.87	48.26	3.98	MAS = 10.00 (m)	5170.00	5169.42					MinPt-O-SF	
111.27	34.33	88.05	76.94	4.96	OSF1.50	5530.00	5527.85	OSF>5.00				Exit Alert	
707.07	63.93	664.13	643.14	16.83	OSF1.50	8608.11	7950.00					MinPt-CtCt	
709.27	213.97	566.30	495.31	4.99	OSF1.50	11770.00	7950.00	OSF<5.00				Enter Alert	
713.67	539.36	353.81	174.37	1.99	OSF1.50	18100.95	7950.00					MinPts	

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

Warning Alert

99.81	32.81	98.83	67.00	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
99.81	32.81	98.82	67.00	34217.77	MAS = 10.00 (m)	28.00	28.00					WRP	
99.81	32.81	97.72	67.00	89.03	MAS = 10.00 (m)	240.00	240.00					MinPts	
99.82	32.81	97.65	67.02	82.81	MAS = 10.00 (m)	260.00	260.00					MINPT-O-EOU	
100.15	32.81	97.87	67.34	76.46	MAS = 10.00 (m)	300.00	300.00					MinPt-O-SF	
152.48	32.81	145.35	119.67	24.68	MAS = 10.00 (m)	1300.00	1299.45					MinPt-O-SF	
160.58	32.81	153.71	127.77	27.12	MAS = 10.00 (m)	1600.00	1599.43					MinPts	
160.60	32.81	150.38	127.79	17.28	MAS = 10.00 (m)	3210.00	3209.43					MINPT-O-EOU	
162.12	32.81	151.70	129.31	17.09	MAS = 10.00 (m)	3300.00	3299.43					MinPt-O-SF	
1412.56	65.69	1368.44	1346.87	32.72	OSF1.50	8608.11	7950.00					MinPt-CtCt	
1417.90	426.18	1133.45	991.72	5.00	OSF1.50	15860.00	7950.00	OSF<5.00				Enter Alert	
1419.55	542.36	1057.65	877.19	3.93	OSF1.50	18100.95	7950.00					MinPts	

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

Warning Alert

175.65	32.81	173.84	142.84	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
175.58	32.81	173.77	142.77	65180.10	MAS = 10.00 (m)	28.00	28.00					MinPts	
157.95	32.81	151.16	125.14	31.38	MAS = 10.00 (m)	1300.00	1299.45					MinPt-O-SF	
156.97	32.81	150.74	124.16	35.17	MAS = 10.00 (m)	1440.00	1439.43					MINPT-O-EOU	
156.47	32.81	149.28	123.66	28.79	MAS = 10.00 (m)	1800.00	1799.43					MinPts	
156.35	32.81	147.74	123.54	22.73	MAS = 10.00 (m)	2190.00	2189.43					MinPts	
155.27	32.81	146.34	122.46	20.97	MAS = 10.00 (m)	2610.00	2609.43					MinPts	
152.23	32.81	142.96	119.42	19.67	MAS = 10.00 (m)	2870.00	2869.43					MinPts	
152.24	32.81	142.96	119.43	19.65	MAS = 10.00 (m)	2880.00	2879.43					MINPT-O-EOU	
153.81	32.81	144.18	121.00	18.97	MAS = 10.00 (m)	3070.00	3069.43					MinPts	
153.83	32.81	144.16	121.03	18.87	MAS = 10.00 (m)	3090.00	3089.43					MINPT-O-EOU	

...Grande 4-65 20-19 3CH\Original Hole\Grande 4-65 20-19 3CH 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		
	152.51	32.81	141.63	119.70	16.28	MAS = 10.00 (m)	3580.00	3579.43				MinPts	
	152.45	32.81	140.44	119.64	14.51	MAS = 10.00 (m)	3960.00	3959.43				MinPts	
	152.45	32.81	140.41	119.64	14.46	MAS = 10.00 (m)	3970.00	3969.43				MINPT-O-EOU	
	155.52	32.81	143.13	122.71	14.27	MAS = 10.00 (m)	4080.00	4079.43				MinPt-O-SF	
	407.02	32.81	387.05	374.21	22.07	MAS = 10.00 (m)	5890.00	5881.58				MinPt-O-SF	
	496.21	36.62	471.26	459.59	21.19	OSF1.50	6860.00	6833.30				MinPt-O-SF	
	532.04	39.95	504.87	492.09	20.75	OSF1.50	7260.00	7225.76				MinPt-O-SF	
	602.71	43.81	572.96	558.90	21.36	OSF1.50	7750.00	7674.97				MinPt-O-SF	
	665.10	63.72	622.08	601.38	16.02	OSF1.50	8290.00	7940.82				MinPt-CiCt	
	639.12	108.05	566.55	531.07	8.98	OSF1.50	8980.00	7950.00				MinPt-CiCt	
	643.21	128.44	557.05	514.77	7.59	OSF1.50	9260.00	7950.00				MinPt-CiCt	
	670.24	202.38	534.79	467.86	5.00	OSF1.50	10240.00	7950.00	OSF<5.00			Enter Alert	
	670.34	222.73	521.32	447.61	4.54	OSF1.50	10500.00	7950.00				MinPt-CiCt	
	672.85	233.13	516.90	439.72	4.35	OSF1.50	10650.00	7950.00				MINPT-O-EOU	
	674.95	235.64	517.32	439.31	4.32	OSF1.50	10690.00	7950.00				MinPt-O-ADP	
	685.03	246.86	519.92	438.17	4.18	OSF1.50	10840.00	7950.00				MinPt-O-ADP	
	622.84	353.32	386.76	269.52	2.65	OSF1.50	12190.00	7950.00				MinPt-CiCt	
	624.59	359.27	384.54	265.32	2.61	OSF1.50	12280.00	7950.00				MINPT-O-EOU	
	626.54	361.70	384.88	264.85	2.60	OSF1.50	12320.00	7950.00				MinPt-O-ADP	
	631.13	438.04	338.57	193.09	2.16	OSF1.50	13270.00	7950.00				MinPt-CiCt	
	632.38	442.43	336.90	189.96	2.15	OSF1.50	13340.00	7950.00				MINPT-O-EOU	
	635.44	446.05	337.54	189.39	2.14	OSF1.50	13400.00	7950.00				MinPt-O-ADP	
	640.60	450.30	339.86	190.30	2.14	OSF1.50	13470.00	7950.00				MinPt-O-SF	
	647.10	454.99	343.24	192.12	2.14	OSF1.50	13540.00	7950.00				MinPt-O-SF	
	610.32	535.93	252.49	74.38	1.71	OSF1.50	14520.00	7950.00				MinPt-CiCt	
	612.29	540.86	251.18	71.43	1.70	OSF1.50	14600.00	7950.00				MINPT-O-EOU	
	615.44	544.65	251.80	70.79	1.70	OSF1.50	14660.00	7950.00				MinPt-O-ADP	
	616.74	545.87	252.29	70.87	1.70	OSF1.50	14680.00	7950.00				MinPt-O-SF	
	620.46	549.16	253.82	71.30	1.70	OSF1.50	14730.00	7950.00				MinPt-O-SF	
	639.24	569.27	259.19	69.97	1.68	OSF1.50	14970.00	7950.00				MINPT-O-EOU	
	654.45	630.57	233.53	23.87	1.56	OSF1.50	15720.00	7950.00				MinPt-CiCt	
	654.51	630.98	233.32	23.53	1.56	OSF1.50	15730.00	7950.00				MINPT-O-EOU	
	654.72	631.24	233.36	23.48	1.56	OSF1.50	15740.00	7950.00				MinPts	
	1219.29	367.33	973.87	851.96	4.99	OSF1.50	16750.00	7950.00	OSF>5.00			Exit Alert	
	2468.07	203.97	2331.55	2264.09	18.28	OSF1.50	18100.95	7950.00				TD	

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

Warning Alert

175.65	32.81	173.84	142.84	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
175.58	32.81	173.77	142.77	65180.10	MAS = 10.00 (m)	28.00	28.00					MinPts	
157.95	32.81	151.16	125.14	31.39	MAS = 10.00 (m)	1300.00	1299.45					MinPt-O-SF	
156.97	32.81	150.74	124.16	35.17	MAS = 10.00 (m)	1440.00	1438.43					MINPT-O-EOU	
156.47	32.81	149.28	123.66	28.79	MAS = 10.00 (m)	1800.00	1799.43					MinPts	
156.35	32.81	147.74	123.54	22.73	MAS = 10.00 (m)	2190.00	2189.43					MinPts	
155.27	32.81	146.34	122.46	20.97	MAS = 10.00 (m)	2610.00	2609.43					MinPts	
152.23	32.81	142.96	119.42	19.67	MAS = 10.00 (m)	2870.00	2869.43					MinPts	
152.24	32.81	142.96	119.43	19.65	MAS = 10.00 (m)	2880.00	2879.43					MINPT-O-EOU	
153.81	32.81	144.18	121.00	18.97	MAS = 10.00 (m)	3070.00	3069.43					MinPts	
153.83	32.81	144.16	121.03	18.87	MAS = 10.00 (m)	3090.00	3089.43					MINPT-O-EOU	
152.51	32.81	141.63	119.70	16.28	MAS = 10.00 (m)	3580.00	3579.43					MinPts	
152.45	32.81	140.44	119.64	14.51	MAS = 10.00 (m)	3960.00	3959.43					MinPts	
152.45	32.81	140.41	119.64	14.46	MAS = 10.00 (m)	3970.00	3969.43					MINPT-O-EOU	
155.52	32.81	143.13	122.71	14.27	MAS = 10.00 (m)	4080.00	4079.43					MinPt-O-SF	
407.02	32.81	387.05	374.21	22.07	MAS = 10.00 (m)	5890.00	5881.58					MinPt-O-SF	
496.21	36.62	471.26	459.59	21.19	OSF1.50	6860.00	6833.30					MinPt-O-SF	
532.04	39.95	504.87	492.09	20.75	OSF1.50	7260.00	7225.76					MinPt-O-SF	
602.71	43.81	572.96	558.90	21.36	OSF1.50	7750.00	7674.97					MinPt-O-SF	
665.10	63.72	622.08	601.38	16.02	OSF1.50	8290.00	7940.82					MinPt-CiCt	
639.12	108.05	566.55	531.07	8.98	OSF1.50	8980.00	7950.00					MinPt-CiCt	
643.21	128.44	557.05	514.77	7.59	OSF1.50	9260.00	7950.00					MinPt-CiCt	
670.24	202.38	534.79	467.86	5.00	OSF1.50	10240.00	7950.00	OSF<5.00				Enter Alert	
658.48	253.54	488.92	404.94	3.91	OSF1.50	10900.00	7950.00					MinPt-CiCt	
671.62	294.17	474.97	377.44	3.44	OSF1.50	11440.00	7950.00					MINPT-O-EOU	
680.11	304.16	476.80	375.95	3.36	OSF1.50	11580.00	7950.00					MinPt-O-ADP	
695.69	339.26	468.98	356.42	3.08	OSF1.50	12000.00	7950.00					MinPt-CiCt	
705.10	366.80	460.03	338.30	2.89	OSF1.50	12370.00	7950.00					MINPT-O-EOU	
677.71	456.37	372.93	221.34	2.23	OSF1.50	13500.00	7950.00					MinPt-CiCt	
683.93	510.90	342.80	173.03	2.01	OSF1.50	14190.00	7950.00					MinPt-CiCt	
665.82	591.35	271.05	74.47	1.69	OSF1.50	15210.00	7950.00					MinPt-CiCt	
666.27	605.93	261.78	60.34	1.65	OSF1.50	15400.00	7950.00					MINPT-O-EOU	
666.48	606.21	261.80	60.27	1.65	OSF1.50	15410.00	7950.00					MinPts	
1200.57	364.94	956.74	835.63	4.95	OSF1.50	16390.00	7950.00	OSF>5.00				Exit Alert	
2790.41	183.06	2667.83	2607.35	23.05	OSF1.50	18100.95	7950.00					TD	

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

Warning Alert

7878.36	204.70	7741.29	7673.67	58.23	OSF1.50	0.00	0.00					Surface	
7850.39	204.83	7713.23	7645.56	57.99	OSF1.50	28.00	28.00					WRP	
1243.72	376.42	992.23	867.29	4.97	OSF1.50	6830.00	6803.86	OSF<5.00				Enter Alert	
860.19	594.95	462.03	265.24	2.17	OSF1.50	7640.00	7584.53					MinPt-O-SF	
860.53	596.28	461.44	264.25	2.17	OSF1.50	7660.00	7601.63					MINPT-O-EOU	
860.95	596.76	461.52	264.19	2.17	OSF1.50	7670.00	7610.08					MinPts	
1307.46	402.71	1036.06	904.75	4.95	OSF1.50	8520.00	7950.00	OSF>5.00				Exit Alert	
10664.13	66.13	10619.51	10598.00	247.88	OSF1.50	18100.95	7950.00					TD	

Grande 4-65 20-19 2CH Plan
#0 (Def Plan)

Warning Alert

2971.92	32.81	2970.90	2939.11	76854.80	MAS = 10.00 (m)	0.00	0.00					Surface	
2971.92	32.81	2970.84	2939.11	29455.36	MAS = 10.00 (m)	28.00	28.00					WRP	
2941.08	32.81	2934.73	2908.27	548.63	MAS = 10.00 (m)	1252.60	1252.07					MinPt-O-SF	
2939.81	32.81	2933.88	2907.00	595.51	MAS = 10.00 (m)	1410.00	1409.43					MINPT-O-EOU	
2939.66	32.81	2930.33	2906.85	352.39	MAS = 10.00 (m)	2460.00	2459.43					MinPt-O-SF	
1268.18	71.18	1219.59	1197.00	27.99	OSF1.50	8360.00	7948.56					MinPt-CiCt	
1268.42	71.80	1219.42	1196.63	27.74	OSF1.50	8390.00	7949.83					MINPT-O-EOU	
1275.87	385.59	1017.67	890.28	4.99	OSF1.50	14940.00	7950.00	OSF<5.00				Enter Alert	
1278.29	549.03	911.13	729.26	3.50	OSF1.50	18100.95	7950.00					MinPts	

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

Pass

75.04	32.81	74.05	42.23	N/A	MAS = 10.00 (m)	0.00	0.00
75.04	32.81	74.05	42.23	25641.09	MAS = 10.00 (m)	28.00	28.00
75.04	32.81	72.94	42.23	66.71	MAS = 10.00 (m)	240.00	240.00
75.05	32.81	72.87	42.24	61.84	MAS = 10.00 (m)	260.00	260.00
113.58	32.81	106.82	80.77	19.48	MAS = 10.00 (m)	1200.00	1199.50

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		
	118.46	32.81	109.78	86.65	15.22	MAS = 10.00 (m)	2500.00	2499.43				MINPT-O-EOU	
	118.86	32.81	110.11	86.06	15.17	MAS = 10.00 (m)	2560.00	2559.43				MinPt-O-SF	
	1252.31	51.09	1217.92	1201.22	37.49	OSF1.50	7440.00	7401.30				MinPt-O-SF	
	1276.86	51.67	1242.08	1225.19	37.76	OSF1.50	7970.00	7823.66				MinPt-O-SF	
	1281.91	51.87	1247.00	1230.03	37.76	OSF1.50	8030.00	7855.31				MinPt-O-SF	
	1341.12	53.89	1304.86	1287.23	38.00	OSF1.50	8460.00	7950.00				MinPt-O-SF	
	1360.42	54.66	1323.65	1305.76	37.99	OSF1.50	8540.00	7950.00				MinPt-O-SF	
	9994.94	64.19	9951.82	9930.75	237.19	OSF1.50	18100.95	7950.00				TD	
Sunset 4-65 21-22 2BH Plan #0 (Def Plan)													Pass
	2954.73	32.81	2953.71	2921.93	69975.64	MAS = 10.00 (m)	0.00	0.00				Surface	
	2954.73	32.81	2953.64	2921.93	28288.03	MAS = 10.00 (m)	28.00	28.00				WRP	
	2954.69	32.81	2952.63	2921.88	2742.07	MAS = 10.00 (m)	210.00	210.00				MinPt-O-SF	
	1571.23	58.57	1531.48	1512.66	41.70	OSF1.50	6970.00	6941.22				MinPt-O-SF	
	1212.26	60.47	1170.91	1151.79	31.62	OSF1.50	7920.00	7794.19				MinPts	
	1212.36	60.48	1171.01	1151.88	31.62	OSF1.50	7930.00	7800.30				MinPt-O-SF	
	10013.48	84.71	9956.68	9928.77	179.37	OSF1.50	18100.95	7950.00				TD	
Sunset 4-65 21-22 2AH Plan #0 (Def Plan)													Pass
	2989.22	32.81	2988.20	2956.41	81518.76	MAS = 10.00 (m)	0.00	0.00				Surface	
	2989.22	32.81	2988.14	2956.41	30226.06	MAS = 10.00 (m)	28.00	28.00				WRP	
	2080.99	55.05	2043.69	2025.94	58.57	OSF1.50	6930.00	6901.98				MinPt-O-SF	
	1794.13	56.55	1755.59	1737.58	49.72	OSF1.50	7900.00	7781.64				MinPt-CiCt	
	1794.13	56.58	1755.58	1737.55	49.69	OSF1.50	7910.00	7787.97				MinPts	
	2166.41	72.72	2117.45	2093.70	45.57	OSF1.50	9170.00	7950.00				MinPt-O-SF	
	10105.56	97.86	10039.99	10007.70	156.46	OSF1.50	18100.95	7950.00				TD	
Grande 4-65 20-19 2AH Plan #0 (Def Plan)													Pass
	3006.23	32.81	3005.21	2973.42	86712.53	MAS = 10.00 (m)	0.00	0.00				Surface	
	3006.23	32.81	3005.15	2973.42	31025.59	MAS = 10.00 (m)	28.00	28.00				WRP	
	2984.58	32.81	2978.10	2951.77	543.01	MAS = 10.00 (m)	1300.00	1299.45				MinPt-O-SF	
	2983.80	32.81	2977.61	2950.99	573.62	MAS = 10.00 (m)	1430.00	1429.43				MINPT-O-EOU	
	2983.66	32.81	2972.52	2950.85	293.87	MAS = 10.00 (m)	2970.00	2969.43				MinPt-O-SF	
	1899.66	63.87	1856.21	1835.79	46.45	OSF1.50	8270.00	7937.39				MinPt-CiCt	
	1900.07	65.03	1855.85	1835.04	45.60	OSF1.50	8320.00	7944.96				MINPT-O-EOU	
	1900.48	65.50	1855.95	1834.99	45.27	OSF1.50	8340.00	7947.03				MinPt-O-ADP	
	1910.99	548.68	1544.33	1362.31	5.24	OSF1.50	18100.95	7950.00				MinPts	
Sunset 4-65 21-22 1BH Plan #0 (Def Plan)													Pass
	3023.74	32.81	3022.73	2990.93	91315.40	MAS = 10.00 (m)	0.00	0.00				Surface	
	3023.74	32.81	3022.66	2990.93	31715.60	MAS = 10.00 (m)	28.00	28.00				WRP	
	2548.27	54.67	2511.33	2493.61	71.84	OSF1.50	7160.00	7127.64				MinPt-O-SF	
	2373.13	55.52	2335.48	2317.62	66.36	OSF1.50	7980.00	7829.23				MinPts	
	2373.19	55.58	2335.50	2317.61	66.28	OSF1.50	7990.00	7834.67				MinPt-O-SF	
	2941.49	85.80	2883.96	2855.69	52.01	OSF1.50	9790.00	7950.00				MinPt-O-ADP	
	10214.42	113.72	10138.28	10100.70	135.89	OSF1.50	18100.95	7950.00				TD	
Grande 4-65 20-19 1CH Plan #0 (Def Plan)													Pass
	3041.36	32.81	3040.35	3008.55	95701.45	MAS = 10.00 (m)	0.00	0.00				Surface	
	3041.36	32.81	3040.28	3008.55	32352.97	MAS = 10.00 (m)	28.00	28.00				WRP	
	3024.06	32.81	3017.44	2991.26	536.03	MAS = 10.00 (m)	1300.00	1299.45				MinPt-O-SF	
	3023.25	32.81	3016.87	2990.44	560.24	MAS = 10.00 (m)	1440.00	1439.43				MINPT-O-EOU	
	2521.32	58.02	2482.03	2463.29	67.22	OSF1.50	8160.00	7908.95				MinPt-CiCt	
	2521.89	59.56	2481.58	2462.34	65.46	OSF1.50	8220.00	7926.45				MINPT-O-EOU	
	2522.56	60.36	2481.72	2462.20	64.57	OSF1.50	8250.00	7933.41				MinPt-O-ADP	
	2537.48	549.00	2170.88	1988.48	6.93	OSF1.50	18100.95	7950.00				MinPts	
Sunset 4-65 21-22 1AH Plan #0 (Def Plan)													Pass
	3059.09	32.81	3058.07	3026.28	98322.03	MAS = 10.00 (m)	0.00	0.00				Surface	
	3059.09	32.81	3058.01	3026.28	32774.01	MAS = 10.00 (m)	28.00	28.00				WRP	
	3059.09	32.81	3057.11	3026.28	3072.44	MAS = 10.00 (m)	200.00	200.00				MinPts	
	3059.26	32.81	3056.12	3026.46	1416.83	MAS = 10.00 (m)	470.00	469.95				MinPts	
	3059.51	32.81	3055.90	3026.70	1165.93	MAS = 10.00 (m)	560.00	559.89				MINPT-O-EOU	
	3052.85	54.70	3016.02	2998.14	85.36	OSF1.50	7290.00	7255.19				MinPt-O-SF	
	2953.23	55.26	2915.95	2897.97	82.09	OSF1.50	7980.00	7829.23				MinPt-CiCt	
	2953.26	55.33	2915.93	2897.93	81.99	OSF1.50	7990.00	7834.67				MinPts	
	3728.66	98.94	3662.37	3629.72	57.08	OSF1.50	10370.00	7950.00				MinPt-O-SF	
	10360.79	130.26	10273.62	10230.53	120.21	OSF1.50	18100.95	7950.00				TD	
Grande 4-65 20-19 1AH Plan #0 (Def Plan)													Pass
	3076.55	32.81	3075.54	3043.74	102545.84	MAS = 10.00 (m)	0.00	0.00				Surface	
	3076.55	32.81	3075.47	3043.74	33358.29	MAS = 10.00 (m)	28.00	28.00				WRP	
	3076.55	32.81	3074.57	3043.74	3095.47	MAS = 10.00 (m)	200.00	200.00				MinPts	
	3076.65	32.81	3074.41	3043.84	2446.70	MAS = 10.00 (m)	250.00	250.00				MINPT-O-EOU	
	3087.44	32.81	3081.60	3054.63	636.10	MAS = 10.00 (m)	920.00	919.67				MinPt-O-SF	
	3082.77	32.81	3075.48	3049.96	488.70	MAS = 10.00 (m)	1300.00	1299.45				MinPt-O-SF	
	3081.93	32.81	3067.90	3049.13	236.00	MAS = 10.00 (m)	3450.00	3449.43				MinPts	
	3081.96	32.81	3067.83	3049.15	234.35	MAS = 10.00 (m)	3480.00	3479.43				MINPT-O-EOU	
	3127.99	53.02	3092.31	3074.96	90.13	OSF1.50	7680.00	7618.46				MinPt-CiCt	
	3128.07	53.26	3092.23	3074.81	89.73	OSF1.50	7710.00	7643.14				MINPT-O-EOU	
	3128.21	53.43	3092.26	3074.78	89.44	OSF1.50	7730.00	7659.22				MinPt-O-ADP	
	3169.09	548.66	2802.99	2620.43	8.68	OSF1.50	18100.95	7950.00				MinPts	
Grimm Motocross 4-65 23-24 1H ST1 7232 to 17548 - PR (Def Survey)													Pass
	9799.56	32.81	9797.50	9766.75	40214.82	MAS = 10.00 (m)	0.00	0.00				MinPts	
	9799.57	32.81	9797.45	9766.76	32154.97	MAS = 10.00 (m)	28.00	28.00				WRP	
	9799.77	32.81	9796.34	9766.96	6052.52	MAS = 10.00 (m)	280.00	280.00				MINPT-O-EOU	
	9835.22	32.81	9821.69	9802.41	838.95	MAS = 10.00 (m)	2190.00	2189.43				MINPT-O-EOU	
	9895.04	32.81	9879.34	9862.23	702.09	MAS = 10.00 (m)	3440.00	3439.43				MINPT-O-EOU	
	9927.13	32.81	9909.05	9894.32	602.46	MAS = 10.00 (m)	4110.00	4109.43				MinPt-O-SF	
	9946.63	32.81	9927.49	9913.82	567.19	MAS = 10.00 (m)	4520.00	4519.43				MinPt-O-SF	
	10012.22	33.11	9989.61	9979.11	476.67	OSF1.50	5560.00	5557.49				MinPt-O-SF	
	10120.30	37.39	10094.84	10082.91	424.14	OSF1.50	6420.00	6401.59				MinPt-O-SF	
	10166.60	39.21	10139.92	10127.39	405.45	OSF1.50	6770.00	6744.99				MinPt-O-SF	
	10183.36	39.80	10156.29	10143.55	399.83	OSF1.50	6910.00	6882.36				MinPt-O-SF	
	10410.25	42.91	10381.11	10367.34	377.99	OSF1.50	7780.00	7697.97				MinPt-O-SF	
	10431.63	42.99	10402.43	10388.63	378.00	OSF1.50	7810.00	7720.17				MinPt-O-SF	
	20638.76	44.86	20608.32	20593.90	715.66	OSF1.50	18100.95	7950.00				TD	

...Grande 4-65 20-19 3CH\Original Hole\Grande 4-65 20-19 3CH 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
9799.56	32.81	9797.50	9766.75	40214.82	MAS = 10.00 (m)	0.00	0.00					MinPts	
9799.57	32.81	9797.45	9766.76	32154.97	MAS = 10.00 (m)	28.00	28.00					WRP	
9799.77	32.81	9796.34	9766.96	6052.52	MAS = 10.00 (m)	280.00	280.00					MINPT-O-EOU	
9835.22	32.81	9821.69	9802.41	838.95	MAS = 10.00 (m)	2190.00	2189.43					MINPT-O-EOU	
9895.04	32.81	9879.34	9862.23	702.09	MAS = 10.00 (m)	3440.00	3439.43					MINPT-O-EOU	
9927.13	32.81	9909.05	9894.32	602.49	MAS = 10.00 (m)	4110.00	4109.43					MinPt-O-SF	
9946.63	32.81	9927.49	9913.82	567.19	MAS = 10.00 (m)	4520.00	4519.43					MinPt-O-SF	
10012.22	33.11	9989.61	9979.11	476.67	OSF1.50	5560.00	5557.49					MinPt-O-SF	
10120.30	37.39	10094.84	10082.91	424.14	OSF1.50	6420.00	6401.59					MinPt-O-SF	
10166.60	39.21	10139.92	10127.39	405.45	OSF1.50	6770.00	6744.99					MinPt-O-SF	
10183.36	39.80	10156.29	10143.55	399.83	OSF1.50	6910.00	6882.36					MinPt-O-SF	
10408.89	42.92	10379.74	10365.97	377.86	OSF1.50	7780.00	7697.97					MinPt-O-SF	
10430.19	43.00	10400.99	10387.19	377.87	OSF1.50	7810.00	7720.17					MinPt-O-SF	
20637.88	44.90	20607.41	20592.98	715.00	OSF1.50	18100.95	7950.00					TD	