

Reserve 3-65 35-34 2EH Plan #1 Anti-Collision Summary Report

Analysis Date-24hr Time: May 14, 2020 - 14:50
Client: Crestone Peak Resources
Field: CO, Adams County (NAD 83 NZ)
Structure: Crestone Peak 35-03S-65W (Reserve Pad)
Slot: Reserve 3-65 35-34 2EH
Well: Reserve 3-65 35-34 2EH
Borehole: Original Hole
Scan MD Range: 0.00ft - 17952.91ft

Analysis Method: 3D Least Distance
Reference Trajectory: Reserve 3-65 35-34 2EH Plan #1 (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: 2.10.787.0
Database \ Project: us1164app01\drilling-CO, Adams County 2.10

Trajectory Error Model: ISCSA0 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

Reserve 3-65 35-34 2AH

GYRO+MWD 0' to 17727' - PR
 (Def Survey)

Fail Minor

75.10	32.81	73.29	42.29	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
75.04	32.81	73.23	42.23	N/A	MAS = 10.00 (m)	28.00	28.00					MinPts
75.08	32.81	73.19	42.27	909.93	MAS = 10.00 (m)	50.00	50.00					MINPT-O-EOU
89.80	32.81	64.69	36.99	20.55	MAS = 10.00 (m)	950.00	945.39					MinPts
71.31	32.81	66.04	38.50	20.10	MAS = 10.00 (m)	1030.00	1023.64					MinPt-O-SF
958.95	32.81	939.54	926.14	53.77	MAS = 10.00 (m)	4750.00	4617.18					MinPt-O-SF
826.79	50.08	792.87	776.71	25.54	OSF1.50	7530.00	7290.43					MinPt-O-SF
628.77	158.89	522.30	469.88	5.98	OSF1.50	9910.00	7650.00					MinPt-CtCt
625.40	188.83	498.98	436.57	5.00	OSF1.50	10290.00	7650.00					Enter Alert
611.09	217.83	465.34	393.26	4.23	OSF1.50	10700.00	7650.00		OSF<5.00			MinPt-CtCt
616.32	233.82	459.91	382.51	3.97	OSF1.50	10940.00	7650.00					MINPT-O-EOU
619.31	237.35	460.54	381.96	3.93	OSF1.50	11000.00	7650.00					MinPt-O-ADP
625.49	298.00	426.29	327.49	3.16	OSF1.50	11750.00	7650.00					MinPt-CtCt
621.45	336.26	396.74	285.18	2.78	OSF1.50	12250.00	7650.00					MinPt-CtCt
633.80	384.68	376.81	249.11	2.48	OSF1.50	12910.00	7650.00					MINPT-O-EOU
644.77	436.80	353.03	207.96	2.22	OSF1.50	13550.00	7650.00					MinPt-CtCt
649.05	449.12	349.10	199.93	2.17	OSF1.50	13740.00	7650.00					MINPT-O-EOU
602.11	533.39	245.98	68.72	1.69	OSF1.50	14830.00	7650.00					MinPt-CtCt
602.43	534.51	245.55	67.92	1.69	OSF1.50	14860.00	7650.00					MINPT-O-EOU
602.67	534.84	245.58	67.83	1.69	OSF1.50	14870.00	7650.00					MinPt-O-ADP
602.98	535.14	245.68	67.84	1.69	OSF1.50	14880.00	7650.00					MinPt-O-SF
630.02	559.05	256.76	70.96	1.69	OSF1.50	15220.00	7650.00					MinPts
606.72	614.19	276.72	72.53	1.68	OSF1.50	15870.00	7650.00					MinPt-CtCt
652.94	654.40	216.14	-1.46	1.50	OSF1.50	16420.00	7650.00		OSF<1.50			Enter Minor
636.10	677.02	184.22	-40.92	1.41	OSF1.50	16760.00	7650.00					MinPt-CtCt
625.18	716.72	146.83	-91.54	1.31	OSF1.50	17330.00	7650.00					MinPt-CtCt
626.52	721.14	145.23	-94.61	1.30	OSF1.50	17420.00	7650.00					MINPT-O-EOU
627.59	722.55	145.35	-94.96	1.30	OSF1.50	17450.00	7650.00					MinPt-O-SF
628.46	723.49	145.60	-95.03	1.30	OSF1.50	17470.00	7650.00					MinPt-O-ADP
639.69	737.45	147.52	-97.76	1.30	OSF1.50	17650.00	7650.00					MinPts
640.13	737.92	147.65	-97.79	1.30	OSF1.50	17660.00	7650.00					MinPt-O-ADP
633.72	762.96	124.55	-129.24	1.25	OSF1.50	17952.91	7650.00					MinPts

Reserve 3-65 35-34 1CH

GYRO+MWD 0' to 17779' - PR
 (Def Survey)

Warning Alert

25.29	20.47	23.48	4.82	N/A	MAS = 6.24 (m)	0.00	0.00	CtCt<=15m<15.00				Enter Alert
25.13	20.47	23.32	4.66	N/A	MAS = 6.24 (m)	20.00	20.00					MinPts
25.13	20.47	23.32	4.66	74529.63	MAS = 6.24 (m)	28.00	28.00					WRP
25.16	20.47	23.30	4.69	521.91	MAS = 6.24 (m)	40.00	40.00					MINPT-O-EOU
31.76	20.47	27.96	11.29	15.12	MAS = 6.24 (m)	520.00	519.61					MinPt-O-SF
44.26	20.47	39.87	23.79	16.45	MAS = 6.24 (m)	890.00	886.45					MinPt-O-SF
48.50	20.47	43.84	28.02	16.40	MAS = 6.24 (m)	930.00	925.77	CtCt<=15m<15.00				Exit Alert
56.09	20.47	50.99	35.62	16.52	MAS = 6.24 (m)	990.00	984.57					MinPt-O-SF
58.99	20.47	53.72	38.52	16.52	MAS = 6.24 (m)	1010.00	1004.12					MinPt-O-SF
755.90	21.35	741.13	734.55	57.30	OSF1.50	3770.00	3670.65					MinPt-O-SF
858.67	23.82	842.25	834.84	57.86	OSF1.50	4160.00	4047.33					MinPt-O-SF
985.69	27.19	967.03	958.51	57.70	OSF1.50	4650.00	4520.60					MinPt-O-SF
1040.95	28.68	1021.29	1012.27	57.58	OSF1.50	4860.00	4723.43					MinPt-O-SF
1336.47	50.84	1302.04	1285.63	40.67	OSF1.50	7081.62	6869.17					MinPt-O-SF
1377.57	63.41	1334.77	1314.16	33.40	OSF1.50	8370.00	7650.00					MinPt-CtCt
1339.71	146.46	1241.53	1193.25	13.86	OSF1.50	9630.00	7650.00					MinPt-CtCt
1353.16	174.78	1236.10	1178.38	11.71	OSF1.50	10060.00	7650.00					MINPT-O-EOU
1339.47	334.52	1115.92	1004.95	6.03	OSF1.50	12080.00	7650.00					MinPt-CtCt
1340.88	339.38	1114.11	1001.53	5.95	OSF1.50	12180.00	7650.00					MINPT-O-EOU
1342.35	341.14	1114.39	1001.21	5.92	OSF1.50	12220.00	7650.00					MinPt-O-ADP
1348.13	346.37	1116.68	1001.75	5.86	OSF1.50	12320.00	7650.00					MinPt-O-ADP
1374.64	413.86	1098.19	960.77	5.00	OSF1.50	13080.00	7650.00					Enter Alert
1374.15	417.35	1095.38	956.80	4.95	OSF1.50	13140.00	7650.00		OSF<5.00			MinPt-CtCt
1376.02	423.48	1093.16	952.53	4.89	OSF1.50	13260.00	7650.00					MINPT-O-EOU
1364.80	488.16	1038.83	876.64	4.20	OSF1.50	14050.00	7650.00					MinPt-CtCt
1366.28	516.32	1021.54	849.96	3.98	OSF1.50	14410.00	7650.00					MinPt-CtCt
1367.94	609.90	960.80	758.04	3.37	OSF1.50	15610.00	7650.00					MinPt-CtCt
1370.62	617.18	958.63	753.43	3.34	OSF1.50	15750.00	7650.00					MINPT-O-EOU
1374.21	621.46	959.37	752.75	3.32	OSF1.50	15830.00	7650.00					MinPt-O-ADP
1384.06	666.27	939.35	717.79	3.12	OSF1.50	16330.00	7650.00					MinPt-CtCt
1358.39	722.69	876.06	635.70	2.82	OSF1.50	17060.00	7650.00					MinPt-CtCt
1348.09	795.80	817.02	552.29	2.54	OSF1.50	17952.91	7650.00					MinPts

Reserve 3-65 35-34 1DH

GYRO+MWD 0' to 17679' - PR
 (Def Survey)

Warning Alert

50.00	32.81	48.18	17.19	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
49.91	32.81	48.09	17.10	N/A	MAS = 10.00 (m)	28.00	28.00					MinPts
49.95	32.81	48.06	17.14	589.79	MAS = 10.00 (m)	50.00	50.00					MINPT-O-EOU
52.54	32.81	48.78	19.73	26.00	MAS = 10.00 (m)	440.00	439.86					MINPT-O-EOU
52.76	32.81	48.26	19.95	18.99	MAS = 10.00 (m)	740.00	738.28					MinPt-O-SF
52.61	32.81	48.17	19.80	19.31	MAS = 10.00 (m)	780.00	777.89					MINPT-O-EOU

...Reserve 3-65 35-34 2EH\Original Hole\Reserve 3-65 35-34 2EH Plan #1

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		
	52.61	32.81	48.19	19.89	19.44	MAS = 10.00 (m)	790.00	787.78				MinPts	
	1069.75	50.94	1035.26	1018.82	32.48	OSF1.50	7070.00	6857.94				MinPt-CtCt	
	1069.77	51.02	1035.26	1018.75	32.42	OSF1.50	7081.62	6869.17				MinPts	
	1069.84	51.09	1035.25	1018.75	32.39	OSF1.50	7100.00	6886.95				MinPts	
	1069.52	51.08	1034.94	1018.45	32.38	OSF1.50	7200.00	6984.13				MinPt-O-SF	
	1058.37	50.71	1024.03	1007.66	32.28	OSF1.50	7470.00	7238.22				MinPt-O-SF	
	989.55	93.80	926.49	895.75	16.07	OSF1.50	8940.00	7650.00				MinPt-CtCt	
	997.51	120.54	916.61	876.97	12.56	OSF1.50	9350.00	7650.00				MINPT-O-EOU	
	999.09	122.49	916.89	876.59	12.38	OSF1.50	9390.00	7650.00				MinPt-O-ADP	
	1022.64	144.37	925.86	878.27	10.73	OSF1.50	9700.00	7650.00				MINPT-O-EOU	
	1039.52	187.73	913.84	851.80	8.36	OSF1.50	10220.00	7650.00				MinPt-CtCt	
	994.43	272.22	812.41	722.20	5.50	OSF1.50	11320.00	7650.00				MinPt-CtCt	
	1000.33	301.33	798.91	699.00	5.00	OSF1.50	11710.00	7650.00	OSF<5.00			Enter Alert	
	1001.79	333.69	778.79	668.10	4.52	OSF1.50	12110.00	7650.00				MinPt-CtCt	
	1000.18	376.71	748.51	623.48	3.99	OSF1.50	12660.00	7650.00				MinPt-CtCt	
	1005.47	442.56	709.89	562.90	3.41	OSF1.50	13500.00	7650.00				MinPt-CtCt	
	1007.06	447.78	708.00	559.28	3.38	OSF1.50	13600.00	7650.00				MINPT-O-EOU	
	1008.24	449.20	708.23	559.03	3.37	OSF1.50	13630.00	7650.00				MinPt-O-ADP	
	981.01	579.39	594.22	401.62	2.54	OSF1.50	15250.00	7650.00				MinPt-CtCt	
	982.04	582.67	593.06	399.37	2.53	OSF1.50	15320.00	7650.00				MINPT-O-EOU	
	982.70	583.47	593.19	399.23	2.53	OSF1.50	15340.00	7650.00				MinPt-O-ADP	
	984.57	584.86	594.13	399.72	2.53	OSF1.50	15380.00	7650.00				MinPt-O-SF	
	961.03	694.24	497.67	266.79	2.08	OSF1.50	16720.00	7650.00				MinPt-CtCt	
	964.26	702.82	495.18	261.44	2.06	OSF1.50	16870.00	7650.00				MINPT-O-EOU	
	973.35	713.50	497.15	259.85	2.05	OSF1.50	17040.00	7650.00				MinPt-O-ADP	
	990.12	755.46	485.95	234.66	1.97	OSF1.50	17540.00	7650.00				MINPT-O-EOU	
	993.94	760.00	486.74	233.94	1.96	OSF1.50	17620.00	7650.00				MinPt-O-ADP	
	997.68	763.24	488.31	234.43	1.96	OSF1.50	17680.00	7650.00				MinPt-O-SF	
	1016.73	786.96	491.55	229.76	1.94	OSF1.50	17952.91	7650.00				MinPts	

Reserve 3-65 34-35 1H ST1
7045' to 16359' - PR (Def
Survey)

Warning Alert

225.35	32.81	223.54	192.55	N/A	MAS = 10.00 (m)	0.00	0.00	Surface
225.31	32.81	223.49	192.50	52016.80	MAS = 10.00 (m)	28.00	28.00	WRP
218.04	32.81	214.64	185.23	135.99	MAS = 10.00 (m)	500.00	499.68	MinPt-O-SF
214.20	32.81	210.81	181.39	134.53	MAS = 10.00 (m)	660.00	658.90	MinPts
448.40	32.81	438.70	415.60	55.14	MAS = 10.00 (m)	2000.00	1961.11	MinPt-O-SF
943.73	32.81	928.58	910.92	69.56	MAS = 10.00 (m)	3960.00	3854.16	MinPt-O-SF
1739.24	45.37	1708.46	1693.87	59.55	OSF1.50	7081.62	6869.17	MinPt-O-SF
1796.55	57.22	1757.87	1739.34	48.41	OSF1.50	8590.00	7650.00	MinPt-CtCt
1799.40	65.56	1755.18	1733.85	42.17	OSF1.50	8790.00	7650.00	MINPT-O-EOU
1807.51	97.19	1742.18	1710.32	28.34	OSF1.50	9270.00	7650.00	MinPt-CtCt
1805.24	134.93	1714.76	1670.32	20.29	OSF1.50	9800.00	7650.00	MinPt-CtCt
1805.71	165.37	1694.92	1640.33	16.52	OSF1.50	10210.00	7650.00	MinPt-CtCt
1788.17	251.04	1620.28	1537.14	10.74	OSF1.50	11330.00	7650.00	MinPt-CtCt
1800.68	389.03	1540.79	1411.65	6.97	OSF1.50	13100.00	7650.00	MinPt-CtCt
1802.61	500.99	1468.08	1301.62	5.41	OSF1.50	14530.00	7650.00	MinPt-CtCt
1797.09	540.59	1436.16	1256.50	5.00	OSF1.50	15020.00	7650.00	Enter Alert
1796.59	548.03	1430.70	1248.55	4.93	OSF1.50	15130.00	7650.00	MinPt-CtCt
1799.02	696.39	1334.22	1102.62	3.88	OSF1.50	17020.00	7650.00	MinPt-CtCt
1799.65	707.76	1327.28	1091.89	3.82	OSF1.50	17180.00	7650.00	MinPts
1799.97	707.94	1327.48	1092.04	3.82	OSF1.50	17200.00	7650.00	MinPt-O-SF
1966.04	659.20	1526.04	1306.85	4.48	OSF1.50	17952.91	7650.00	TD

Reserve 3-65 35-34 3BH Plan
#1 (Def Plan)

Warning Alert

224.03	32.81	223.04	191.22	N/A	MAS = 10.00 (m)	0.00	0.00	Surface
224.03	32.81	223.02	191.22	12549.46	MAS = 10.00 (m)	28.00	28.00	WRP
224.03	32.81	221.91	191.22	197.15	MAS = 10.00 (m)	240.00	240.00	MinPts
224.04	32.81	221.88	191.23	190.61	MAS = 10.00 (m)	250.00	250.00	MINPT-O-EOU
224.49	32.81	222.26	191.68	178.86	MAS = 10.00 (m)	300.00	300.00	MinPt-O-SF
308.90	32.81	294.83	276.09	23.53	MAS = 10.00 (m)	2160.00	2115.64	MinPt-O-SF
515.15	67.44	469.87	447.71	11.61	OSF1.50	7300.00	7080.71	MinPt-O-SF
584.27	176.09	466.55	408.19	5.00	OSF1.50	11040.00	7650.00	Enter Alert
584.01	527.43	232.06	56.57	1.66	OSF1.50	17950.00	7650.00	MinPt-CtCt
584.01	527.58	231.97	56.44	1.66	OSF1.50	17952.91	7650.00	MinPts

Reserve 3-65 35-34 3CH Plan
#1 (Def Plan)

Warning Alert

248.80	32.81	247.81	215.99	N/A	MAS = 10.00 (m)	0.00	0.00	Surface
248.80	32.81	247.80	215.99	13771.03	MAS = 10.00 (m)	28.00	28.00	WRP
248.80	32.81	246.68	215.99	218.98	MAS = 10.00 (m)	240.00	240.00	MinPts
248.81	32.81	246.65	216.00	211.85	MAS = 10.00 (m)	250.00	250.00	MINPT-O-EOU
249.27	32.81	247.04	216.47	199.03	MAS = 10.00 (m)	300.00	300.00	MinPt-O-SF
400.15	32.81	386.05	367.34	30.44	MAS = 10.00 (m)	2100.00	2057.69	MinPt-O-SF
997.24	69.44	950.62	927.80	21.83	OSF1.50	7100.00	6886.95	MinPt-O-SF
1159.64	348.91	926.70	810.73	5.00	OSF1.50	14350.00	7650.00	Enter Alert
1159.50	533.63	803.41	625.86	3.26	OSF1.50	17940.00	7650.00	MinPt-CtCt
1159.51	534.24	803.02	625.27	3.26	OSF1.50	17952.91	7650.00	MinPts

Reserve 3-65 35-34 4AH Plan
#1 (Def Plan)

Warning Alert

273.93	32.81	272.95	241.12	N/A	MAS = 10.00 (m)	0.00	0.00	Surface
273.93	32.81	272.93	241.12	15167.76	MAS = 10.00 (m)	28.00	28.00	WRP
273.93	32.81	271.82	241.12	241.19	MAS = 10.00 (m)	240.00	240.00	MinPts
273.94	32.81	271.79	241.13	233.39	MAS = 10.00 (m)	250.00	250.00	MINPT-O-EOU
274.41	32.81	272.18	241.61	219.28	MAS = 10.00 (m)	300.00	300.00	MinPt-O-SF
474.08	32.81	459.86	441.27	35.76	MAS = 10.00 (m)	2130.00	2086.67	MinPt-O-SF
1409.74	72.07	1361.36	1337.66	29.72	OSF1.50	7100.00	6886.95	MinPt-O-SF
1740.88	523.21	1391.75	1217.67	5.00	OSF1.50	17760.00	7650.00	Enter Alert
1740.87	532.50	1385.54	1208.37	4.91	OSF1.50	17940.00	7650.00	MinPt-CtCt
1740.88	533.04	1385.19	1207.84	4.91	OSF1.50	17952.91	7650.00	MinPts

Flader Industries-B 1 Blind 0' to
8780' - DA (Def Survey)

Warning Alert

9416.03	32.81	9413.70	9383.22	18073.99	MAS = 10.00 (m)	0.00	0.00	Surface
9416.03	32.81	9413.14	9383.22	8736.87	MAS = 10.00 (m)	28.00	28.00	WRP
9416.03	32.81	9406.93	9383.22	1290.73	MAS = 10.00 (m)	250.00	250.00	MinPts
9418.14	32.81	9404.67	9385.33	807.41	MAS = 10.00 (m)	360.00	359.97	MINPT-O-EOU
1889.50	569.71	1508.85	1319.79	4.99	OSF1.50	17260.00	7650.00	Enter Alert
1813.64	587.61	1421.36	1226.03	4.64	OSF1.50	17790.00	7650.00	MinPt-CtCt
1813.75	587.98	1421.22	1225.76	4.64	OSF1.50	17810.00	7650.00	MINPT-O-EOU
1813.88	588.16	1421.24	1225.72	4.63	OSF1.50	17820.00	7650.00	MinPt-O-ADP
1815.40	588.94	1422.23	1226.45	4.63	OSF1.50	17870.00	7650.00	MinPt-O-SF
1820.94	589.85	1427.17	1231.09	4.64	OSF1.50	17952.91	7650.00	TD

...Reserve 3-65 35-34 2EH\Original Hole\Reserve 3-65 35-34 2EH Plan #1

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		
Big Sandy 3-65 36-31 1DH GYRO+MWD 0' to 15399' - PR (Def Survey)													
	1980.58	32.81	1978.77	1947.77	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1980.57	32.81	1978.67	1947.76	23436.97	MAS = 10.00 (m)	28.00	28.00				WRP	
	190.06	50.52	155.84	139.53	5.78	OSF1.50	7690.00	7417.14				MinPt-O-SF	
	187.93	49.48	154.41	138.45	5.84	OSF1.50	7710.00	7431.48				MinPts	
	187.54	48.90	154.41	138.65	5.90	OSF1.50	7720.00	7438.50				MinPt-CtCt	
	4573.39	58.74	4533.69	4514.65	120.02	OSF1.50	12490.00	7650.00				MinPt-O-SF	
	4973.72	62.20	4931.71	4911.51	123.07	OSF1.50	12900.00	7650.00				MinPt-O-SF	
	9937.40	65.98	9892.88	9871.42	231.50	OSF1.50	17952.91	7650.00				TD	
Reserve 3-65 34-35 1H Pilot 0' to 8000' - PR (Def Survey)													
	225.35	32.81	223.54	192.55	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	225.31	32.81	223.49	192.50	52016.80	MAS = 10.00 (m)	28.00	28.00				WRP	
	218.04	32.81	214.64	185.23	135.99	MAS = 10.00 (m)	500.00	499.68				MinPt-O-SF	
	214.20	32.81	210.81	181.39	134.53	MAS = 10.00 (m)	660.00	658.90				MinPts	
	448.40	32.81	438.70	415.60	55.14	MAS = 10.00 (m)	2000.00	1961.11				MinPt-O-SF	
	943.73	32.81	928.58	910.92	69.56	MAS = 10.00 (m)	3960.00	3854.16				MinPt-O-SF	
	1739.24	45.37	1708.46	1693.87	59.55	OSF1.50	7081.62	6869.17				MinPt-O-SF	
	1786.65	46.86	1754.88	1739.79	59.17	OSF1.50	8150.00	7636.12				MinPt-CtCt	
	1786.77	47.18	1754.78	1739.59	58.76	OSF1.50	8180.00	7641.32				MINPT-O-EOU	
	1786.85	47.28	1754.79	1739.57	58.62	OSF1.50	8190.00	7642.78				MinPt-O-ADP	
	1787.09	47.52	1754.88	1739.57	58.33	OSF1.50	8210.00	7645.31				MinPt-O-ADP	
	2001.09	61.48	1959.57	1939.62	50.09	OSF1.50	9130.00	7650.00				MinPt-O-SF	
	9884.35	75.30	9833.62	9809.06	201.16	OSF1.50	17952.91	7650.00				TD	
Big Sandy 3-65 36-31 2CH GYRO_MWD 0' to 18415' - PR (Def Survey)													
	1861.49	32.81	1859.68	1828.68	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1861.49	32.81	1859.62	1828.68	35620.68	MAS = 10.00 (m)	28.00	28.00				WRP	
	288.91	47.17	256.93	241.74	9.46	OSF1.50	6080.00	5901.76				MinPt-CtCt	
	288.94	47.31	256.86	241.63	9.43	OSF1.50	6090.00	5911.42				MinPts	
	290.05	47.68	257.72	242.36	9.39	OSF1.50	6120.00	5940.39				MinPt-O-SF	
	10046.22	65.92	10001.74	9980.30	234.27	OSF1.50	17952.91	7650.00				TD	
Reserve 3-65 35-34 4BH Plan #1 (Def Plan)													
	298.70	32.81	297.72	265.89	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	298.70	32.81	297.70	265.89	16342.51	MAS = 10.00 (m)	28.00	28.00				WRP	
	298.70	32.81	296.59	265.89	263.00	MAS = 10.00 (m)	240.00	240.00				MinPts	
	298.71	32.81	296.56	265.90	254.59	MAS = 10.00 (m)	250.00	250.00				MINPT-O-EOU	
	299.19	32.81	296.96	266.38	239.18	MAS = 10.00 (m)	300.00	300.00				MinPt-O-SF	
	520.11	32.81	506.36	487.30	40.66	MAS = 10.00 (m)	2100.00	2057.69				MinPt-O-SF	
	1833.82	74.60	1783.76	1759.22	37.35	OSF1.50	7100.00	6886.95				MinPt-O-SF	
	2319.32	535.14	1962.22	1784.17	6.51	OSF1.50	17940.00	7650.00				MinPt-CtCt	
	2319.33	535.64	1961.92	1783.70	6.50	OSF1.50	17952.91	7650.00				MinPts	
Big Sandy 3-65 36-31 2AH GYRO+MWD 0' to 18177' - PR (Def Survey)													
	1900.87	32.81	1899.06	1868.06	N/A	MAS = 10.00 (m)	0.00	0.00				MinPts	Pass
	1900.88	32.81	1899.03	1868.07	50536.21	MAS = 10.00 (m)	28.00	28.00				WRP	
	1900.96	32.81	1898.99	1868.15	12645.79	MAS = 10.00 (m)	70.00	70.00				MINPT-O-EOU	
	386.79	50.48	352.61	336.32	11.82	OSF1.50	6560.00	6365.36				MinPt-CtCt	
	386.83	50.58	352.57	336.24	11.80	OSF1.50	6570.00	6375.02				MINPT-O-EOU	
	386.93	50.71	352.59	336.22	11.77	OSF1.50	6580.00	6384.68				MinPt-O-ADP	
	389.95	51.45	355.11	338.50	11.69	OSF1.50	6650.00	6452.29				MinPt-O-SF	
	9992.70	67.35	9947.26	9925.35	227.94	OSF1.50	17952.91	7650.00				TD	
Big Sandy 3-65 36-31 2BH GYRO+MWD 0' to 18220' - PR (Def Survey)													
	1941.28	32.81	1939.47	1908.47	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	1941.28	32.81	1939.38	1908.47	23884.97	MAS = 10.00 (m)	28.00	28.00				WRP	
	1935.76	32.81	1931.92	1902.96	956.57	MAS = 10.00 (m)	600.00	599.25				MinPt-O-SF	
	414.90	52.22	379.55	362.68	12.25	OSF1.50	6930.00	6722.73				MinPt-CtCt	
	414.93	52.32	379.51	362.61	12.22	OSF1.50	6940.00	6732.38				MINPT-O-EOU	
	415.03	52.42	379.54	362.60	12.20	OSF1.50	6950.00	6742.04				MinPt-O-ADP	
	418.85	53.24	382.82	365.61	12.12	OSF1.50	7040.00	6828.97				MinPt-O-SF	
	419.54	50.29	385.48	369.25	12.88	OSF1.50	7500.00	7264.60				MinPt-O-ADP	
	418.88	49.76	385.17	369.11	13.00	OSF1.50	7550.00	7307.32				MinPt-O-ADP	
	418.79	49.65	385.15	369.14	13.02	OSF1.50	7560.00	7315.67				MINPT-O-EOU	
	418.72	49.42	385.24	369.30	13.08	OSF1.50	7580.00	7332.14				MinPt-CtCt	
	419.96	49.44	386.46	370.52	13.12	OSF1.50	7650.00	7387.39				MinPt-O-ADP	
	420.75	49.82	387.00	370.93	13.04	OSF1.50	7680.00	7409.84				MinPt-O-SF	
	7969.54	65.42	7925.39	7904.11	187.28	OSF1.50	15950.00	7650.00				MinPt-O-SF	
	9730.37	73.67	9680.72	9656.70	202.51	OSF1.50	17740.00	7650.00				MinPt-O-SF	
	9939.19	74.09	9889.26	9865.10	205.65	OSF1.50	17952.91	7650.00				TD	
Blue 3-65 32-33 1H GYRO+MWD 0' to 17393' - PR (Def Survey)													
	10447.65	32.81	10445.69	10414.84	71115.12	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	10447.64	32.81	10445.65	10414.83	59826.00	MAS = 10.00 (m)	28.00	28.00				MinPts	
	10447.41	32.81	10444.66	10414.60	11077.94	MAS = 10.00 (m)	260.00	260.00				MinPts	
	11356.54	49.01	11323.33	11307.53	359.26	OSF1.50	7100.00	6886.95				MinPt-O-SF	
	2112.18	343.84	1881.54	1768.34	9.31	OSF1.50	17952.91	7650.00				MinPts	

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