

Rush 4-65 29-30 1AH Plan #0 Anti-Collision Summary Report

Analysis Date-24hr Time: June 23, 2020 - 15:10
Client: Crestone Peak Resources
Field: CO, Arapahoe County (NAD 83 CZ)
Structure: Crestone Peak 28-04S-65W (Rush North Pad)
Slot: Rush 4-65 29-30 1AH
Well: Rush 4-65 29-30 1AH
Borehole: Original Hole
Scan MD Range: 0.00ft - 18246.96ft

Analysis Method: 3D Least Distance
Reference Trajectory: Rush 4-65 29-30 1AH 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: ISCWSA0 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		
Cottonwood Creek 4-65 28-27 1AH Plan #0 (Def Plan)													
	25.04	20.22	24.05	4.82	N/A	MAS = 6.16 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	Warning Alert
	25.04	20.22	24.05	4.82	5413.65	MAS = 6.16 (m)	28.00	28.00				WRP	
	25.04	20.22	22.88	4.81	20.48	MAS = 6.16 (m)	250.00	250.00				MinPts	
	25.28	20.22	22.63	5.06	14.61	MAS = 6.16 (m)	330.00	329.99				MINPT-O-EOU	
	37.91	20.22	32.49	17.69	8.32	MAS = 6.16 (m)	770.00	767.15				MinPt-O-SF	
	48.83	20.22	42.26	28.61	8.57	MAS = 6.16 (m)	940.00	933.35	CtCt<=15m>15.00			Exit Alert	
	662.40	66.98	617.41	595.42	15.03	OSF1.50	7400.00	7152.78				MinPt-O-SF	
	164.90	50.92	130.62	113.98	4.92	OSF1.50	7970.00	7654.83	OSF<5.00			Enter Alert	
	82.30	77.02	30.63	5.29	1.60	OSF1.50	8120.00	7749.62				MinPts	
	153.18	47.61	121.11	105.57	4.90	OSF1.50	8270.00	7819.73	OSF>5.00			Exit Alert	
	9786.68	67.27	9741.50	9719.41	221.43	OSF1.50	18246.96	7875.00				TD	
Rush 4-65 29-30 1CH Plan #0 (Def Plan)													
	50.08	32.81	49.09	17.27	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Warning Alert
	50.08	32.81	49.09	17.27	7365.87	MAS = 10.00 (m)	28.00	28.00			WRP		
	50.08	32.81	47.91	17.27	41.67	MAS = 10.00 (m)	250.00	250.00				MinPts	
	50.13	32.81	47.84	17.32	37.70	MAS = 10.00 (m)	270.00	270.00				MINPT-O-EOU	
	166.24	32.81	151.71	133.43	12.20	MAS = 10.00 (m)	1990.00	1944.59				MinPt-O-SF	
	590.74	67.84	545.18	522.89	13.23	OSF1.50	7456.86	7207.53				MinPt-O-SF	
	598.93	86.68	540.81	512.25	10.47	OSF1.50	8735.48	7875.00	OSF<5.00			MinPt-CtCt	
	600.09	180.92	479.15	419.17	4.99	OSF1.50	10970.00	7875.00				Enter Alert	
	603.89	549.06	237.51	54.81	1.65	OSF1.50	18246.96	7875.00				MinPts	
Rush 4-65 29-30 2AH Plan #0 (Def Plan)													
	100.02	32.81	99.04	67.22	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Warning Alert
	100.02	32.81	99.03	67.22	8916.01	MAS = 10.00 (m)	28.00	28.00			WRP		
	100.02	32.81	97.86	67.22	83.61	MAS = 10.00 (m)	250.00	250.00				MinPts	
	100.08	32.81	97.79	67.27	75.64	MAS = 10.00 (m)	270.00	270.00				MINPT-O-EOU	
	297.00	32.81	282.71	264.19	22.25	MAS = 10.00 (m)	2000.00	1954.22				MinPt-O-SF	
	1113.12	63.86	1070.22	1049.26	26.53	OSF1.50	7360.00	7114.28	OSF<5.00			MinPt-O-SF	
	1194.54	81.56	1139.84	1112.99	22.22	OSF1.50	8735.48	7875.00				MinPt-CtCt	
	1197.64	359.98	957.32	837.66	5.00	OSF1.50	14620.00	7875.00				Enter Alert	
	1199.54	546.81	834.68	652.74	3.29	OSF1.50	18246.96	7875.00				MinPts	
Rush 4-65 29-30 2CH Plan #0 (Def Plan)													
	149.97	32.81	148.99	117.16	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Warning Alert
	149.97	32.81	148.97	117.16	9580.36	MAS = 10.00 (m)	28.00	28.00			WRP		
	149.97	32.81	147.80	117.16	125.10	MAS = 10.00 (m)	250.00	250.00				MinPts	
	150.03	32.81	147.73	117.22	113.22	MAS = 10.00 (m)	270.00	270.00				MINPT-O-EOU	
	443.96	32.81	430.18	411.15	34.63	MAS = 10.00 (m)	2000.00	1954.22				MinPt-O-SF	
	1685.13	62.60	1643.07	1622.53	41.00	OSF1.50	7456.86	7207.53	OSF<5.00			MinPt-O-SF	
	1795.41	82.41	1740.14	1713.00	33.06	OSF1.50	8735.48	7875.00				MinPt-CtCt	
	1800.68	541.05	1439.65	1259.63	5.00	OSF1.50	18100.00	7875.00				Enter Alert	
	1800.76	548.64	1434.67	1252.12	4.93	OSF1.50	18246.96	7875.00				MinPts	
Cottonwood Creek 4-65 28-27 1CH Plan #0 (Def Plan)													
	74.99	32.81	74.00	42.18	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	74.99	32.81	73.99	42.18	8327.44	MAS = 10.00 (m)	28.00	28.00			WRP		
	74.99	32.81	72.82	42.18	62.71	MAS = 10.00 (m)	250.00	250.00				MinPts	
	75.09	32.81	72.69	42.28	52.31	MAS = 10.00 (m)	290.00	290.00				MINPT-O-EOU	
	128.61	32.81	121.39	95.80	20.46	MAS = 10.00 (m)	1034.94	1025.15				MinPt-O-SF	
	270.58	32.81	256.30	237.77	20.27	MAS = 10.00 (m)	2000.00	1954.22				MinPt-O-SF	
	1058.18	64.36	1014.95	993.82	25.02	OSF1.50	7350.00	7104.65	OSF1.50			MinPt-O-SF	
	865.02	70.84	817.47	794.18	18.55	OSF1.50	8030.00	7695.46				MinPts	
	9825.50	64.54	9782.14	9760.96	231.87	OSF1.50	18246.96	7875.00				TD	
Cottonwood Creek 4-65 28-27 2AH Plan #0 (Def Plan)													
	124.93	32.81	123.95	92.13	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	124.93	32.81	123.94	92.13	9298.71	MAS = 10.00 (m)	28.00	28.00			WRP		
	124.93	32.81	122.83	92.13	110.18	MAS = 10.00 (m)	240.00	240.00				MinPts	
	125.01	32.81	122.73	92.20	96.29	MAS = 10.00 (m)	270.00	270.00				MINPT-O-EOU	
	446.34	32.81	432.52	413.53	34.70	MAS = 10.00 (m)	2000.00	1954.22				MinPt-O-SF	
	1603.02	67.18	1557.91	1535.84	36.30	OSF1.50	7690.00	7426.85	OSF1.50			MinPts	
	1603.59	67.23	1558.44	1536.36	36.29	OSF1.50	7730.00	7462.54				MinPt-O-SF	
	1713.04	66.24	1668.56	1646.81	39.35	OSF1.50	8570.00	7875.00				MinPt-O-SF	
	1725.04	66.71	1680.24	1658.34	39.35	OSF1.50	8640.00	7875.00				MinPt-O-SF	
	9926.19	75.67	9875.41	9850.51	199.34	OSF1.50	18246.96	7875.00				TD	
Cottonwood Creek 4-65 28-27 3AH Plan #0 (Def Plan)													
	174.88	32.81	173.90	142.07	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	174.88	32.81	173.88	142.07	9784.35	MAS = 10.00 (m)	28.00	28.00			WRP		
	174.88	32.81	172.77	142.07	153.71	MAS = 10.00 (m)	240.00	240.00				MinPts	
	174.93	32.81	172.73	142.12	142.34	MAS = 10.00 (m)	260.00	260.00				MINPT-O-EOU	
	614.67	32.81	601.35	581.86	49.76	MAS = 10.00 (m)	2000.00	1954.22	OSF1.50			MinPt-O-SF	
	2338.32	62.28	2296.48	2276.04	57.20	OSF1.50	7500.00	7248.99				MinPt-O-SF	

...Rush 4-65 29-30 1AH\Original Hole\Rush 4-65 29-30 1AH 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		
	2357.26	63.16	2314.83	2294.10	56.85	OSF1.50	7570.00	7315.71				MinPt-O-SF	
	2573.83	75.72	2523.02	2498.11	51.64	OSF1.50	9370.00	7875.00				MinPt-O-SF	
	2588.07	76.13	2536.99	2511.94	51.64	OSF1.50	9410.00	7875.00				MinPt-O-SF	
	10039.30	93.17	9976.86	9946.13	163.34	OSF1.50	18246.96	7875.00				TD	
Rush 4-65 29-30 3AH MWD 0' to 15645' - PR (Def Survey)													Pass
	1520.26	32.81	1518.16	1487.45	5198.05	MAS = 10.00 (m)	0.00	0.00				Surface	
	1519.51	32.81	1517.19	1486.70	2945.85	MAS = 10.00 (m)	28.00	28.00				WRP	
	1511.96	32.81	1508.26	1479.17	792.08	MAS = 10.00 (m)	330.00	329.99				MinPts	
	1512.04	32.81	1508.21	1479.23	747.33	MAS = 10.00 (m)	350.00	349.98				MINPT-O-EOU	
	1859.47	32.81	1844.89	1826.67	143.11	MAS = 10.00 (m)	2100.00	2050.49				MinPt-O-SF	
	1905.51	32.81	1890.54	1872.71	142.38	MAS = 10.00 (m)	2280.00	2223.77				MinPt-O-SF	
	1931.36	32.81	1916.20	1898.55	142.36	MAS = 10.00 (m)	2380.00	2320.04				MinPt-O-SF	
	2555.92	59.00	2516.05	2496.92	66.75	OSF1.50	7650.00	7390.40				MinPt-O-ADP	
	2545.31	81.04	2490.74	2464.26	48.03	OSF1.50	8710.00	7875.00				MinPt-CtCt	
	2543.55	112.97	2467.70	2430.58	34.24	OSF1.50	9210.00	7875.00				MinPt-CtCt	
	2544.63	116.38	2466.51	2428.25	33.23	OSF1.50	9310.00	7875.00				MINPT-O-EOU	
	2546.02	118.09	2466.75	2427.93	32.76	OSF1.50	9360.00	7875.00				MinPt-O-ADP	
	2548.83	120.99	2467.63	2427.84	32.00	OSF1.50	9430.00	7875.00				MinPt-O-ADP	
	2512.72	324.36	2295.94	2188.36	11.67	OSF1.50	12030.00	7875.00				MinPt-CtCt	
	2450.80	487.18	2125.48	1963.62	7.57	OSF1.50	14110.00	7875.00				MinPt-CtCt	
	2456.48	505.84	2118.72	1950.64	7.30	OSF1.50	14430.00	7875.00				MINPT-O-EOU	
	2461.59	514.35	2118.15	1947.24	7.20	OSF1.50	14560.00	7875.00				MINPT-O-EOU	
	2488.13	556.19	2116.84	1932.01	6.73	OSF1.50	15100.00	7875.00				MINPT-O-EOU	
	2491.43	560.22	2117.42	1931.21	6.69	OSF1.50	15170.00	7875.00				MinPt-O-ADP	
	2503.83	572.12	2121.88	1931.71	6.58	OSF1.50	15370.00	7875.00				MinPt-O-ADP	
	2522.49	626.08	2104.57	1896.41	6.06	OSF1.50	15890.00	7875.00				MinPt-CtCt	
	2522.53	626.15	2104.56	1896.38	6.05	OSF1.50	15900.00	7875.00				MinPts	
	2522.87	626.29	2104.80	1896.57	6.05	OSF1.50	15930.00	7875.00				MinPt-O-SF	
	3454.72	474.67	3137.74	2980.05	10.95	OSF1.50	18246.96	7875.00				TD	
Little Rush 4-65 28 1V MWD 0' to 8693' - PR (Def Survey)													Pass
	1559.53	32.81	1557.68	1526.73	33646.91	MAS = 10.00 (m)	0.00	0.00				Surface	
	1559.50	32.81	1557.58	1526.69	13990.98	MAS = 10.00 (m)	28.00	28.00				WRP	
	1558.63	32.81	1555.64	1525.82	1323.32	MAS = 10.00 (m)	260.00	260.00				MinPts	
	1558.64	32.81	1555.61	1525.83	1284.48	MAS = 10.00 (m)	270.00	270.00				MINPT-O-EOU	
	1939.47	32.81	1927.58	1906.66	188.48	MAS = 10.00 (m)	2100.00	2050.49				MinPt-O-SF	
	3380.42	49.68	3346.76	3330.74	105.42	OSF1.50	7500.00	7248.99				MinPt-O-SF	
	4518.43	82.77	4462.72	4435.67	83.48	OSF1.50	10480.00	7875.00				MinPt-O-SF	
	4543.56	83.22	4487.55	4460.35	83.48	OSF1.50	10520.00	7875.00				MinPt-O-SF	
	11148.61	111.56	11073.71	11037.05	152.07	OSF1.50	18246.96	7875.00				TD	
Rush 4-65 29-30 3CH Plan #0 (Def Plan)													Pass
	1734.31	32.81	1733.28	1701.50	39604.19	MAS = 10.00 (m)	0.00	0.00				Surface	
	1734.31	32.81	1733.22	1701.50	16356.45	MAS = 10.00 (m)	28.00	28.00				WRP	
	1729.50	32.81	1725.87	1696.69	654.30	MAS = 10.00 (m)	410.00	409.92				MinPts	
	1729.53	32.81	1725.78	1696.72	624.88	MAS = 10.00 (m)	430.00	429.88				MINPT-O-EOU	
	2012.12	32.81	1997.56	1979.31	148.21	MAS = 10.00 (m)	2100.00	2050.49				MinPt-O-SF	
	3190.73	545.77	2826.55	2644.96	8.78	OSF1.50	18246.96	7875.00				MinPts	
Cottonwood Creek 4-65 28-27 4DH Plan #0 (Def Plan)													Pass
	1759.28	32.81	1758.26	1726.47	41875.27	MAS = 10.00 (m)	0.00	0.00				Surface	
	1759.28	32.81	1758.19	1726.47	16875.11	MAS = 10.00 (m)	28.00	28.00				WRP	
	1759.28	32.81	1757.29	1726.47	1736.21	MAS = 10.00 (m)	200.00	200.00				MinPts	
	1759.38	32.81	1757.17	1726.57	1434.51	MAS = 10.00 (m)	250.00	250.00				MINPT-O-EOU	
	2453.04	32.81	2440.00	2420.24	203.32	MAS = 10.00 (m)	2460.00	2397.06				MinPt-O-SF	
	4632.30	69.31	4585.76	4562.99	101.67	OSF1.50	8660.00	7875.00				MinPt-CtCt	
	4632.35	69.46	4585.72	4562.89	101.46	OSF1.50	8670.00	7875.00				MINPT-O-EOU	
	4632.46	69.60	4585.73	4562.85	101.24	OSF1.50	8680.00	7875.00				MinPt-O-SF	
	5741.41	123.76	5658.58	5617.65	70.14	OSF1.50	11930.00	7875.00				MinPt-O-SF	
	10758.69	156.98	10653.71	10601.71	103.44	OSF1.50	18246.96	7875.00				TD	
Rush 4-65 29-30 4AH Plan #0 (Def Plan)													Pass
	1783.90	32.81	1782.85	1751.09	29723.03	MAS = 10.00 (m)	0.00	0.00				Surface	
	1783.90	32.81	1782.79	1751.09	14591.31	MAS = 10.00 (m)	28.00	28.00				WRP	
	1783.90	32.81	1781.56	1751.09	1318.08	MAS = 10.00 (m)	250.00	250.00				MinPts	
	1783.96	32.81	1781.50	1751.16	1206.88	MAS = 10.00 (m)	270.00	270.00				MINPT-O-EOU	
	2196.56	32.81	2184.38	2163.75	196.04	MAS = 10.00 (m)	2100.00	2050.49				MinPt-O-SF	
	3840.86	546.33	3476.31	3294.53	10.56	OSF1.50	18246.96	7875.00				MinPts	
Rush 4-65 29-30 4CH Plan #0 (Def Plan)													Pass
	1833.50	32.81	1832.44	1800.69	25857.33	MAS = 10.00 (m)	0.00	0.00				Surface	
	1833.50	32.81	1832.38	1800.69	13770.43	MAS = 10.00 (m)	28.00	28.00				WRP	
	1833.50	32.81	1831.52	1800.69	1836.45	MAS = 10.00 (m)	190.00	190.00				MinPts	
	1833.51	32.81	1831.50	1800.70	1788.80	MAS = 10.00 (m)	200.00	200.00				MINPT-O-EOU	
	2425.72	32.81	2412.41	2392.92	196.72	MAS = 10.00 (m)	2240.00	2185.26				MinPt-O-SF	
	2461.50	32.81	2448.00	2428.69	196.63	MAS = 10.00 (m)	2340.00	2281.53				MinPt-O-SF	
	4490.34	544.34	4127.12	3946.00	12.39	OSF1.50	18246.96	7875.00				MinPts	
Cottonwood Creek 4-65 27-28 3CH MWD 0' to 18345' - PR (Def Survey)													Pass
	7996.19	251.69	7827.79	7744.50	47.99	OSF1.50	0.00	0.00				Surface	
	7968.51	251.94	7799.95	7716.58	47.78	OSF1.50	28.00	28.00				WRP	
	3094.63	701.43	2626.47	2393.21	6.63	OSF1.50	7320.00	7075.77				MinPt-CtCt	
	3096.18	706.44	2624.65	2389.74	6.59	OSF1.50	7420.00	7172.04				MINPT-O-EOU	
	3097.71	708.26	2624.96	2389.44	6.57	OSF1.50	7460.00	7210.55				MinPt-O-ADP	
	3115.58	716.50	2637.27	2399.08	6.54	OSF1.50	7700.00	7435.85				MinPt-O-SF	
	10935.61	238.48	10776.09	10697.13	69.24	OSF1.50	18246.96	7875.00				TD	
Cottonwood Creek 4-65 27-28 3DH MWD 0' to 17955' - PR (Def Survey)													Pass
	8128.16	256.06	7956.86	7872.11	47.94	OSF1.50	0.00	0.00				Surface	
	8100.67	256.36	7929.16	7844.31	47.73	OSF1.50	28.00	28.00				WRP	
	3451.17	668.41	3004.85	2782.76	7.76	OSF1.50	7290.00	7046.89				MinPt-CtCt	
	3452.50	672.85	3003.21	2779.65	7.72	OSF1.50	7390.00	7143.16				MINPT-O-EOU	
	3453.85	674.48	3003.46	2779.36	7.70	OSF1.50	7430.00	7181.67				MinPt-O-SF	
	3468.74	680.78	3014.12	2787.97	7.66	OSF1.50	7630.00	7371.94				MinPt-O-ADP	
	11394.69	242.96	11232.18	11151.72	70.81	OSF1.50	18246.96	7875.00				TD	

...Rush 4-65 29-30 1AH\Original Hole\Rush 4-65 29-30 1AH 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		
Cottonwood Creek 4-65 27-28 4AH MWD 0' to 18257' - PR (Def Survey)													
	8127.94	274.24	7944.51	7853.70	44.74	OSF1.50	0.00	0.00				Surface	Pass
	8100.70	274.64	7917.00	7826.06	44.53	OSF1.50	28.00	28.00				WRP	
	3729.46	706.36	3258.02	3023.10	7.93	OSF1.50	7150.00	6912.11				MinPt-CtCt	
	3730.75	710.68	3256.43	3020.08	7.89	OSF1.50	7250.00	7008.38				MINPT-O-EOU	
	3732.40	712.66	3256.76	3019.74	7.87	OSF1.50	7300.00	7056.51				MinPt-O-ADP	
	3758.71	722.71	3276.37	3036.00	7.82	OSF1.50	7630.00	7371.94				MinPt-O-SF	
	11122.76	282.92	10933.61	10839.83	59.30	OSF1.50	18246.96	7875.00				TD	
Cottonwood Creek 4-65 27-28 4BH MWD 0' to 18288' - PR (Def Survey)													
	8282.09	282.32	8093.28	7999.78	44.28	OSF1.50	0.00	0.00				Surface	Pass
	8255.08	282.76	8065.97	7972.32	44.06	OSF1.50	28.00	28.00				WRP	
	4062.25	694.03	3599.02	3368.22	8.80	OSF1.50	7140.00	6902.48				MinPt-CtCt	
	4063.71	698.55	3597.47	3365.16	8.74	OSF1.50	7250.00	7008.38				MINPT-O-EOU	
	4064.97	700.08	3597.72	3364.89	8.73	OSF1.50	7290.00	7046.89				MinPt-O-ADP	
	4105.53	723.42	3622.71	3382.11	8.53	OSF1.50	7750.00	7480.07				MinPts	
	11242.90	301.44	11041.40	10941.45	56.24	OSF1.50	18246.96	7875.00				TD	
Cottonwood Creek 4-65 27 1H Pilot 0' to 8261' - PR (Def Survey)													
	5067.89	32.81	5066.01	5035.08	71905.28	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	5067.88	32.81	5065.93	5035.07	37638.64	MAS = 10.00 (m)	28.00	28.00				WRP	
	5067.87	32.81	5065.76	5035.06	17005.63	MAS = 10.00 (m)	70.00	70.00				MinPts	
	5067.89	32.81	5064.77	5035.09	3872.12	MAS = 10.00 (m)	260.00	260.00				MinPts	
	5068.39	32.81	5064.23	5035.58	2155.09	MAS = 10.00 (m)	460.00	459.81				MINPT-O-EOU	
	5132.63	32.81	5121.17	5099.82	520.59	MAS = 10.00 (m)	2350.00	2291.16				MinPt-O-SF	
	5697.20	49.69	5663.54	5647.51	177.66	OSF1.50	7760.00	7488.75				MinPt-O-SF	
	5769.33	50.40	5735.20	5718.94	177.32	OSF1.50	7890.00	7595.58				MinPt-O-SF	
	15877.60	55.61	15839.98	15821.98	440.91	OSF1.50	18246.96	7875.00				TD	
Cottonwood Creek 4-65 27 1H ST1 7234' to 12126' - PR (Def Survey)													
	5067.89	32.81	5066.01	5035.08	71905.28	MAS = 10.00 (m)	0.00	0.00				Surface	Pass
	5067.88	32.81	5065.93	5035.07	37638.64	MAS = 10.00 (m)	28.00	28.00				WRP	
	5067.87	32.81	5065.76	5035.06	17005.63	MAS = 10.00 (m)	70.00	70.00				MinPts	
	5067.89	32.81	5064.77	5035.09	3872.12	MAS = 10.00 (m)	260.00	260.00				MinPts	
	5068.39	32.81	5064.23	5035.58	2155.09	MAS = 10.00 (m)	460.00	459.81				MINPT-O-EOU	
	5132.63	32.81	5121.17	5099.82	520.59	MAS = 10.00 (m)	2350.00	2291.16				MinPt-O-SF	
	5652.37	49.04	5619.14	5603.33	178.70	OSF1.50	7650.00	7390.40				MinPt-O-SF	
	15898.20	52.38	15862.75	15845.82	469.65	OSF1.50	18246.96	7875.00				TD	
Chico 4-65 26-25 2BH MWD 0' to 17932' - PR (Def Survey)													
	10498.76	32.81	10496.89	10465.95	172487.21	MAS = 10.00 (m)	0.00	0.00				MinPts	Pass
	10499.04	32.81	10497.14	10466.24	117172.04	MAS = 10.00 (m)	28.00	28.00				WRP	
	10581.43	32.81	10569.98	10548.62	1075.14	MAS = 10.00 (m)	2100.00	2050.49				MinPt-O-SF	
	10409.90	43.47	10380.30	10366.44	375.50	OSF1.50	6520.00	6305.61				MinPt-CtCt	
	10410.05	43.89	10380.16	10366.16	371.77	OSF1.50	6580.00	6363.37				MINPT-O-EOU	
	10410.17	44.03	10380.19	10366.14	370.54	OSF1.50	6600.00	6382.63				MinPt-O-ADP	
	10685.88	51.64	10650.92	10634.24	320.31	OSF1.50	7990.00	7668.75				MinPt-O-SF	
	20831.63	50.79	20797.24	20780.85	635.25	OSF1.50	18246.96	7875.00				TD	
Chico 4-65 26-25 2DH MWD 0' to 17975' - PR (Def Survey)													
	10497.55	32.81	10495.59	10464.74	68415.49	MAS = 10.00 (m)	0.00	0.00				MinPt-O-SF	Pass
	10497.50	32.81	10495.56	10464.69	81142.72	MAS = 10.00 (m)	28.00	28.00				WRP	
	10497.40	32.81	10495.08	10464.60	20700.55	MAS = 10.00 (m)	170.00	170.00				MinPts	
	10497.57	32.81	10494.54	10464.76	8595.46	MAS = 10.00 (m)	310.00	310.00				MINPT-O-EOU	
	10484.96	43.25	10455.56	10441.71	378.33	OSF1.50	6400.00	6190.09				MinPt-CtCt	
	10485.10	43.67	10455.42	10441.43	374.60	OSF1.50	6460.00	6247.85				MINPT-O-EOU	
	10485.22	43.81	10455.45	10441.41	373.38	OSF1.50	6480.00	6267.10				MinPt-O-ADP	
	10712.04	52.05	10676.81	10659.99	318.45	OSF1.50	7900.00	7603.28				MinPt-O-SF	
	10761.18	52.30	10725.78	10708.88	318.37	OSF1.50	7970.00	7654.83				MinPt-O-SF	
	20882.00	53.68	20845.67	20828.31	601.40	OSF1.50	18246.96	7875.00				TD	
Chico 4-65 26-25 3AH MWD 0' to 17900' - PR (Def Survey)													
	10497.70	32.81	10495.76	10464.89	82013.71	MAS = 10.00 (m)	0.00	0.00				MinPts	Pass
	10497.88	32.81	10495.87	10465.07	53634.21	MAS = 10.00 (m)	28.00	28.00				WRP	
	10591.27	32.81	10579.71	10558.46	1063.27	MAS = 10.00 (m)	2190.00	2137.13				MinPt-O-SF	
	10548.47	44.69	10518.14	10503.78	367.19	OSF1.50	6290.00	6084.19				MinPt-CtCt	
	10548.56	45.02	10518.02	10503.55	364.42	OSF1.50	6340.00	6132.32				MINPT-O-EOU	
	10548.67	45.15	10518.03	10503.52	363.32	OSF1.50	6360.00	6151.58				MinPt-O-ADP	
	10790.00	53.90	10753.53	10736.10	309.43	OSF1.50	7900.00	7603.28				MinPt-O-SF	
	10832.10	54.10	10795.50	10778.00	309.47	OSF1.50	7960.00	7647.73				MinPt-O-SF	
	20941.67	56.57	20903.42	20885.10	571.44	OSF1.50	18246.96	7875.00				TD	
Chico 4-65 26-25 2CH MWD 0' to 17734' - PR (Def Survey)													
	10497.73	32.81	10495.61	10464.92	33361.94	MAS = 10.00 (m)	0.00	0.00				MinPts	Pass
	10497.78	32.81	10495.54	10464.97	24798.60	MAS = 10.00 (m)	28.00	28.00				WRP	
	10498.00	32.81	10495.29	10465.19	11657.65	MAS = 10.00 (m)	140.00	140.00				MINPT-O-EOU	
	10498.23	32.81	10495.24	10465.42	8964.39	MAS = 10.00 (m)	230.00	230.00				MINPT-O-EOU	
	10582.21	32.81	10570.70	10549.40	1068.18	MAS = 10.00 (m)	2270.00	2214.14				MinPt-O-SF	
	10542.99	40.51	10515.44	10502.48	406.78	OSF1.50	6350.00	6141.95				MinPt-CtCt	
	10543.12	40.88	10515.32	10502.24	403.02	OSF1.50	6400.00	6190.09				MINPT-O-EOU	
	10543.30	41.10	10515.35	10502.20	400.80	OSF1.50	6430.00	6218.97				MinPt-O-ADP	
	10838.71	50.48	10804.52	10788.23	332.60	OSF1.50	7990.00	7668.75				MinPt-O-SF	
	20967.71	50.35	20933.61	20917.36	645.21	OSF1.50	18246.96	7875.00				TD	

...Rush 4-65 29-30 1AH\Original Hole\Rush 4-65 29-30 1AH Plan #0