



Client : COMET RIDGE
Well : APACHE GOLD 34-20R
Location : FREMONT/CO
License :

UWI #:

Page: 1
Date : 5/27/2010
File : 4019443

Vertical Section Calculated Along Azimuth 347.33°
KB Elevation = 5258.00ft GR. Elevation = 5247.00ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	%100	%100	%100
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	742.00	1.26	130.61	741.94	-5.31	6.19	-6.54	0.17	0.17	17.60
2	805.00	1.25	127.63	804.93	-6.18	7.26	-7.62	0.10	-0.02	-4.73
3	868.00	1.12	83.42	867.91	-6.53	8.42	-8.22	1.43	-0.21	-70.17
4	933.00	0.31	264.75	932.91	-6.47	8.88	-8.26	2.20	-1.25	-274.88
5	997.00	0.44	280.50	996.91	-6.44	8.46	-8.14	0.26	0.20	24.61
6	1060.00	0.38	247.88	1059.91	-6.48	8.03	-8.08	0.38	-0.10	-51.78
7	1123.00	0.31	227.75	1122.91	-6.67	7.71	-8.20	0.22	-0.11	-31.95
8	1186.00	0.06	208.00	1185.91	-6.82	7.57	-8.31	0.40	-0.40	-31.35
9	1248.00	0.19	166.75	1247.91	-6.94	7.58	-8.44	0.24	0.21	-66.53
10	1312.00	0.31	135.13	1311.90	-7.17	7.72	-8.69	0.28	0.19	-49.41
11	1375.00	0.38	163.88	1374.90	-7.49	7.90	-9.04	0.29	0.11	45.63
12	1438.00	0.44	147.13	1437.90	-7.90	8.09	-9.48	0.21	0.10	-26.59
13	1500.00	0.50	308.38	1499.90	-7.93	8.01	-9.49	1.50	0.10	260.08
14	1563.00	0.69	304.88	1562.90	-7.54	7.48	-9.00	0.31	0.30	-5.56
15	1625.00	0.75	293.00	1624.89	-7.17	6.80	-8.49	0.26	0.10	-19.16
16	1688.00	0.63	279.75	1687.89	-6.95	6.08	-8.11	0.32	-0.19	-21.03
17	1751.00	0.63	276.63	1750.88	-6.85	5.40	-7.87	0.05	0.00	-4.95
18	1813.00	0.38	264.50	1812.88	-6.83	4.85	-7.73	0.44	-0.40	-19.56
19	1875.00	0.38	279.88	1874.88	-6.81	4.44	-7.62	0.16	0.00	24.81
20	1937.00	0.31	279.88	1936.88	-6.75	4.08	-7.48	0.11	-0.11	0.00
21	1999.00	0.25	280.50	1998.88	-6.70	3.78	-7.36	0.10	-0.10	1.00
22	2064.00	0.14	313.11	2063.88	-6.62	3.58	-7.24	0.23	-0.17	50.17
23	2126.00	0.06	101.88	2125.88	-6.57	3.56	-7.19	0.31	-0.13	239.95
24	2189.00	0.25	97.75	2188.88	-6.60	3.73	-7.25	0.30	0.30	-6.56
25	2221.00	0.13	126.50	2220.88	-6.63	3.82	-7.31	0.47	-0.38	89.84
26	2252.00	0.06	116.38	2251.88	-6.66	3.87	-7.34	0.23	-0.23	-32.65
27	2284.00	0.88	340.75	2283.88	-6.43	3.80	-7.11	2.89	2.56	-423.84
28	2316.00	2.31	349.25	2315.86	-5.57	3.60	-6.22	4.52	4.47	26.56
29	2348.00	3.50	348.88	2347.82	-3.97	3.29	-4.60	3.72	3.72	-1.16
30	2379.00	5.44	353.38	2378.73	-1.59	2.94	-2.19	6.35	6.26	14.52
31	2411.00	7.06	351.88	2410.53	1.87	2.49	1.28	5.09	5.06	-4.69
32	2442.00	8.88	349.75	2441.23	6.11	1.79	5.57	5.95	5.87	-6.87
33	2474.00	10.63	348.88	2472.77	11.44	0.78	10.99	5.49	5.47	-2.72
34	2505.00	12.31	347.88	2503.15	17.47	-0.46	17.15	5.46	5.42	-3.23
35	2537.00	13.75	346.63	2534.33	24.51	-2.06	24.36	4.59	4.50	-3.91
36	2569.00	15.25	348.00	2565.31	32.33	-3.81	32.37	4.81	4.69	4.28
37	2601.00	16.75	350.00	2596.07	40.98	-5.49	41.19	4.99	4.69	6.25
38	2633.00	18.50	354.13	2626.56	50.58	-6.81	50.84	6.72	5.47	12.91



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Vertical Section Calculated Along Azimuth 347.33°										
KB Elevation = 5258.00ft GR. Elevation = 5247.00ft										
	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg %/100	Build %/100	Turn %/100
39	2664.00	20.19	355.38	2655.81	60.80	-7.74	61.02	5.61	5.45	4.03
40	2695.00	22.06	355.75	2684.73	71.94	-8.60	72.08	6.05	6.03	1.19
41	2727.00	23.75	357.75	2714.20	84.37	-9.30	84.36	5.81	5.28	6.25
42	2759.00	26.00	0.88	2743.23	97.83	-9.45	97.52	8.14	7.03	9.78
43	2788.00	27.85	2.73	2769.09	110.95	-9.03	110.23	7.00	6.38	6.38
44	2820.00	28.81	2.25	2797.26	126.12	-8.37	124.89	3.08	3.00	-1.50
45	2852.00	28.94	358.50	2825.28	141.57	-8.27	139.93	5.67	0.41	-11.72
46	2883.00	29.50	354.63	2852.34	156.66	-9.18	154.86	6.36	1.81	-12.48
47	2915.00	30.88	352.00	2880.00	172.64	-11.06	170.86	5.97	4.31	-8.22
48	2947.00	31.81	350.00	2907.33	189.08	-13.67	187.47	4.36	2.91	-6.25
49	2979.00	33.19	348.25	2934.32	205.96	-16.92	204.66	5.22	4.31	-5.47
50	3011.00	34.75	345.88	2960.86	223.38	-20.92	222.53	6.39	4.87	-7.41
51	3043.00	36.94	344.00	2986.79	241.47	-25.80	241.25	7.66	6.84	-5.87
52	3075.00	39.38	343.00	3011.95	260.43	-31.42	260.98	7.87	7.62	-3.13
53	3106.00	42.00	343.13	3035.46	279.76	-37.31	281.13	8.46	8.45	0.42
54	3138.00	45.00	344.25	3058.67	300.90	-43.49	303.11	9.68	9.37	3.50
55	3170.00	47.56	344.25	3080.78	323.16	-49.76	326.20	8.00	8.00	0.00
56	3201.00	50.13	344.75	3101.18	345.65	-56.00	349.51	8.38	8.29	1.61
57	3233.00	52.75	345.63	3121.13	369.84	-62.39	374.52	8.47	8.19	2.75
58	3265.00	55.31	345.25	3139.92	394.90	-68.90	400.40	8.06	8.00	-1.19
59	3297.00	57.75	344.75	3157.57	420.68	-75.81	427.07	7.74	7.62	-1.56
60	3329.00	59.94	343.88	3174.12	447.05	-83.22	454.41	7.23	6.84	-2.72
61	3360.00	61.94	343.75	3189.18	473.07	-90.77	481.46	6.46	6.45	-0.42
62	3392.00	63.94	344.75	3203.74	500.49	-98.50	509.91	6.84	6.25	3.13
63	3424.00	65.81	345.13	3217.32	528.47	-106.03	538.86	5.94	5.84	1.19
64	3455.00	67.75	344.63	3229.54	555.97	-113.46	567.32	6.43	6.26	-1.61
65	3486.00	70.00	344.38	3240.72	583.83	-121.19	596.20	7.30	7.26	-0.81
66	3518.00	72.56	344.75	3250.99	613.05	-129.25	626.47	8.07	8.00	1.16
67	3550.00	74.56	344.63	3260.04	642.65	-137.35	657.13	6.26	6.25	-0.38
68	3581.00	76.50	344.75	3267.79	671.60	-145.28	687.11	6.27	6.26	0.39
69	3612.00	78.25	344.50	3274.56	700.76	-153.30	717.32	5.70	5.65	-0.81
70	3644.00	81.13	345.75	3280.29	731.19	-161.38	748.78	9.79	9.00	3.91
71	3676.00	84.25	345.75	3284.36	761.95	-169.19	780.50	9.75	9.75	0.00
EXT	3728.00	89.32	345.75	3287.28	812.25	-181.97	832.39	9.75	9.75	0.00

Bottom Hole Closure 832.39ft Along Azimuth 347.37°