



Client : COMET RIDGE
 Well : ORCA 44-19
 Location : FREMONT/CO
 License :
 Comment : Actual

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 Date : 6/3/2010
 File : 4019548

UWI #:

Vertical Section Calculated Along Azimuth 343.29°
KB Elevation = 5436.00ft GR. Elevation = 5425.00ft

	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	901.00	0.92	79.55	900.96	1.31	7.11	-0.79	0.10	0.10	8.83
2	964.00	0.19	138.63	963.96	1.33	7.68	-0.94	1.33	-1.16	93.78
3	1030.00	0.50	181.50	1029.96	0.96	7.74	-1.31	0.58	0.47	64.95
4	1092.00	0.56	186.25	1091.95	0.38	7.70	-1.85	0.12	0.10	7.66
5	1156.00	0.63	181.75	1155.95	-0.28	7.66	-2.47	0.13	0.11	-7.03
6	1219.00	0.31	232.00	1218.95	-0.73	7.52	-2.86	0.78	-0.51	79.76
7	1282.00	0.31	281.13	1281.95	-0.80	7.21	-2.84	0.41	0.00	77.98
8	1346.00	0.31	304.25	1345.95	-0.67	6.90	-2.63	0.19	0.00	36.13
9	1409.00	0.25	322.50	1408.95	-0.47	6.68	-2.37	0.17	-0.10	28.97
10	1471.00	0.25	303.50	1470.95	-0.28	6.48	-2.14	0.13	0.00	-30.65
11	1533.00	0.13	7.38	1532.95	-0.14	6.38	-1.97	0.36	-0.19	103.03
12	1595.00	0.06	326.38	1594.95	-0.04	6.37	-1.87	0.15	-0.11	-66.13
13	1657.00	0.13	67.00	1656.95	0.01	6.41	-1.83	0.25	0.11	162.29
14	1719.00	0.13	86.00	1718.95	0.04	6.55	-1.84	0.07	0.00	30.65
15	1781.00	0.25	84.38	1780.94	0.06	6.75	-1.88	0.19	0.19	-2.61
16	1844.00	0.38	100.50	1843.94	0.04	7.10	-2.00	0.25	0.21	25.59
17	1906.00	0.33	108.08	1905.94	-0.06	7.47	-2.20	0.11	-0.08	12.23
18	1968.00	0.56	111.88	1967.94	-0.22	7.92	-2.49	0.37	0.37	6.13
19	2030.00	0.56	111.75	2029.94	-0.45	8.48	-2.87	0.00	0.00	-0.21
20	2093.00	0.69	110.88	2092.93	-0.70	9.12	-3.29	0.21	0.21	-1.38
21	2160.00	0.13	193.38	2159.93	-0.92	9.48	-3.60	1.02	-0.84	123.13
22	2224.00	0.38	235.88	2223.93	-1.11	9.29	-3.73	0.46	0.39	66.41
23	2288.00	0.31	240.63	2287.93	-1.31	8.96	-3.83	0.12	-0.11	7.42
24	2351.00	0.19	240.25	2350.93	-1.45	8.72	-3.89	0.19	-0.19	-0.60
25	2415.00	0.19	190.50	2414.93	-1.60	8.61	-4.01	0.25	0.00	-77.73
26	2479.00	0.38	188.75	2478.93	-1.92	8.56	-4.30	0.30	0.30	-2.73
27	2542.00	0.44	175.25	2541.93	-2.36	8.55	-4.72	0.18	0.10	-21.43
28	2606.00	0.25	210.88	2605.93	-2.73	8.50	-5.06	0.43	-0.30	55.67
29	2638.00	0.19	305.50	2637.93	-2.76	8.42	-5.06	1.02	-0.19	295.69
30	2670.00	1.63	336.88	2669.92	-2.31	8.20	-4.57	4.60	4.50	98.06
31	2701.00	3.13	335.50	2700.89	-1.13	7.67	-3.29	4.84	4.84	-4.45
32	2733.00	4.81	341.88	2732.82	0.94	6.89	-1.08	5.42	5.25	19.94
33	2765.00	6.31	342.50	2764.66	3.89	5.95	2.02	4.69	4.69	1.94
34	2797.00	7.88	342.13	2796.42	7.66	4.74	5.97	4.91	4.91	-1.16
35	2829.00	9.38	340.50	2828.06	12.20	3.20	10.77	4.75	4.69	-5.09
36	2860.00	11.19	341.88	2858.56	17.44	1.42	16.30	5.89	5.84	4.45
37	2892.00	13.31	342.00	2889.83	23.90	-0.68	23.08	6.63	6.62	0.37
38	2923.00	15.44	344.00	2919.85	31.26	-2.92	30.78	7.05	6.87	6.45



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	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg %100	Build %100	Turn %100
39	2959.00	17.75	345.63	2954.35	41.18	-5.61	41.05	6.55	6.42	4.53
40	2990.00	19.50	343.38	2983.73	50.72	-8.26	50.95	6.10	5.65	-7.26
41	3022.00	21.19	341.38	3013.73	61.32	-11.63	62.07	5.71	5.28	-6.25
42	3086.00	25.63	340.75	3072.45	85.36	-19.89	87.47	6.95	6.94	-0.98
43	3149.00	30.63	340.00	3127.99	113.32	-29.88	117.13	7.96	7.94	-1.19
44	3213.00	34.44	340.38	3181.93	145.70	-41.54	151.49	5.96	5.95	0.59
45	3276.00	37.56	339.38	3232.90	180.46	-54.29	188.45	5.04	4.95	-1.59
46	3340.00	41.50	339.75	3282.25	218.63	-68.50	229.09	6.17	6.16	0.58
47	3403.00	44.44	339.50	3328.34	258.88	-83.45	271.94	4.67	4.67	-0.40
48	3467.00	47.69	340.38	3372.74	302.17	-99.25	317.94	5.17	5.08	1.37
49	3530.00	51.50	341.63	3413.57	347.52	-114.85	365.87	6.23	6.05	1.98
50	3594.00	54.94	342.63	3451.89	396.30	-130.56	417.11	5.52	5.38	1.56
51	3657.00	59.44	342.00	3486.02	446.74	-146.65	470.04	7.19	7.14	-1.00
52	3720.00	64.38	342.50	3515.67	499.65	-163.59	525.59	7.87	7.84	0.79
53	3784.00	68.68	343.00	3541.15	555.71	-180.99	584.28	6.76	6.72	0.78
54	3846.00	73.69	344.88	3561.14	612.09	-197.20	642.94	8.57	8.08	3.03
55	3909.00	77.63	345.63	3576.75	671.10	-212.73	703.93	6.36	6.25	1.19
56	3972.00	79.94	345.13	3589.00	730.89	-228.33	765.68	3.75	3.67	-0.79
57	4036.00	84.19	345.50	3597.83	792.20	-244.39	829.01	6.67	6.64	0.58
58	4116.00	89.44	345.13	3602.27	869.44	-264.63	908.81	6.58	6.56	-0.46
59	4211.00	89.56	344.13	3603.10	961.03	-289.81	1003.78	1.06	0.13	-1.05
60	4306.00	89.00	344.00	3604.30	1052.38	-315.89	1098.76	0.61	-0.59	-0.14
61	4401.00	88.56	343.63	3606.32	1143.59	-342.37	1193.74	0.61	-0.46	-0.39
62	4494.00	88.81	343.38	3608.45	1232.74	-368.77	1286.71	0.38	0.27	-0.27
63	4587.00	90.00	343.25	3609.42	1321.82	-395.46	1379.71	1.29	1.28	-0.14
64	4681.00	89.44	342.88	3609.88	1411.74	-422.85	1473.70	0.71	-0.60	-0.39
65	4775.00	89.56	342.25	3610.70	1501.42	-451.01	1567.69	0.68	0.13	-0.67
66	4870.00	89.38	342.63	3611.58	1591.99	-479.67	1662.68	0.44	-0.19	0.40
67	4933.00	89.25	341.88	3612.33	1651.98	-498.87	1725.66	1.21	-0.21	-1.19
Projection to Bit										
EXT	4985.00	89.14	341.26	3613.06	1701.31	-515.31	1777.63	1.21	-0.21	-1.19

Bottom Hole Closure 1777.64ft Along Azimuth 343.15°