

Job Number: 42DEF1205655
Company: OUICKSILVER
Lease/Well: SIMOES 12-30
Location: SIMOES 12-30 PAD
Rig Name: DHS 6
RKB: I
G.L. or M.S.L.: 6688'

State/Country: CO
Declination: 10.144
Grid: I
File name: D:\DOCUME~1\USER\DESKTOP\CIMOES~1\SIMOES30
Date/Time: 30-May-12 / 14:21
Curve Name: SIMOES 12-30 AS DRILLED

Scientific Drilling

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>C L O S U R E Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
130.00	.62	142.07	130.00	-.55	.43	-.55	.70	142.07	.48
223.00	.70	157.54	222.99	-1.48	.96	-1.48	1.76	147.01	.21
318.00	1.13	152.69	317.98	-2.85	1.61	-2.85	3.27	150.49	.46
412.00	1.24	160.53	411.96	-4.63	2.37	-4.63	5.20	152.84	.21
506.00	.97	158.40	505.94	-6.33	3.01	-6.33	7.00	154.58	.29
600.00	.53	126.86	599.93	-7.33	3.65	-7.33	8.18	153.54	.63
694.00	.66	15.76	693.93	-7.07	4.14	-7.07	8.19	149.62	1.05
788.00	.44	7.07	787.93	-6.19	4.33	-6.19	7.55	144.99	.25
883.00	.26	39.24	882.92	-5.66	4.51	-5.66	7.24	141.42	.27
933.00	.50	88.81	932.92	-5.57	4.80	-5.57	7.35	139.20	.77
1027.00	.24	104.54	1026.92	-5.61	5.41	-5.61	7.79	136.05	.29
1201.00	.53	180.12	1200.92	-6.50	5.76	-6.50	8.69	138.49	.30
1276.00	.70	176.52	1275.91	-7.31	5.78	-7.31	9.32	141.64	.23
1370.00	.26	30.62	1369.91	-7.70	5.93	-7.70	9.71	142.40	.99
1464.00	.18	10.50	1463.91	-7.37	6.06	-7.37	9.54	140.55	.12
1558.00	.97	308.01	1557.91	-6.73	5.46	-6.73	8.67	140.95	.96
1653.00	1.85	329.10	1652.88	-4.92	4.04	-4.92	6.37	140.61	1.06
1747.00	1.67	306.25	1746.83	-2.81	2.16	-2.81	3.54	142.49	.77
1841.00	1.85	269.69	1840.79	-2.01	-.46	-2.01	2.06	193.02	1.19
1935.00	1.85	252.37	1934.74	-2.48	-3.43	-2.48	4.23	234.15	.59
2029.00	2.20	228.90	2028.69	-4.12	-6.23	-4.12	7.47	236.52	.95
2124.00	2.20	227.59	2123.62	-6.55	-8.95	-6.55	11.09	233.81	.05
2218.00	1.32	202.98	2217.57	-8.76	-10.71	-8.76	13.84	230.70	1.21
2312.00	1.06	209.92	2311.55	-10.51	-11.57	-10.51	15.63	227.72	.32

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2407.00	.62	7.07	2406.55	-10.77	-11.94	-10.77	16.08	227.96	1.74
2501.00	2.11	13.75	2500.52	-8.58	-11.47	-8.58	14.32	233.19	1.59
2595.00	1.49	5.84	2594.47	-5.68	-10.93	-5.68	12.32	242.53	.71
2690.00	1.14	327.43	2689.45	-3.66	-11.31	-3.66	11.89	252.08	.97
2784.00	1.32	286.47	2783.43	-2.56	-12.86	-2.56	13.11	258.72	.93
2879.00	1.67	244.37	2878.40	-2.85	-15.15	-2.85	15.42	259.34	1.18
2973.00	.62	203.68	2972.38	-3.91	-16.59	-3.91	17.05	256.74	1.35
3067.00	1.93	197.79	3066.36	-5.88	-17.28	-5.88	18.25	251.20	1.40
3161.00	1.85	186.10	3160.30	-8.90	-17.92	-8.90	20.01	243.60	.42
3255.00	2.02	145.76	3254.25	-11.78	-17.15	-11.78	20.81	235.53	1.43
3349.00	1.58	124.58	3348.21	-13.88	-15.15	-13.88	20.55	227.51	.84
3444.00	1.32	79.40	3443.18	-14.42	-13.00	-14.42	19.42	222.03	1.20
3538.00	1.23	81.77	3537.16	-14.08	-10.94	-14.08	17.83	217.84	.11
3632.00	1.76	67.10	3631.13	-13.38	-8.61	-13.38	15.91	212.77	.69
3726.00	2.02	72.28	3725.08	-12.31	-5.70	-12.31	13.57	204.85	.33
3820.00	1.58	56.99	3819.03	-11.10	-3.04	-11.10	11.51	195.30	.69
3914.00	.97	98.83	3913.01	-10.52	-1.16	-10.52	10.58	186.32	1.14
4008.00	.70	122.91	4007.00	-10.95	.10	-10.95	10.95	179.46	.47
4102.00	1.49	5.40	4100.99	-10.04	.70	-10.04	10.07	176.01	2.04
4196.00	1.49	.48	4194.96	-7.61	.83	-7.61	7.65	173.80	.14
4290.00	.79	348.96	4288.94	-5.75	.71	-5.75	5.79	172.93	.78
4384.00	.26	262.21	4382.93	-5.14	.38	-5.14	5.15	175.80	.87
4479.00	.88	221.96	4477.93	-5.71	-.32	-5.71	5.72	183.25	.74
4572.00	1.41	218.09	4570.91	-7.14	-1.51	-7.14	7.30	191.92	.58
4667.00	2.11	217.65	4665.86	-9.45	-3.30	-9.45	10.01	199.24	.74
4761.00	1.41	211.77	4759.82	-11.80	-4.96	-11.80	12.80	202.81	.77
4855.00	.53	197.44	4853.80	-13.20	-5.70	-13.20	14.38	203.36	.96
4949.00	1.49	190.67	4947.79	-14.82	-6.06	-14.82	16.01	202.24	1.03
5043.00	2.46	179.69	5041.73	-18.03	-6.27	-18.03	19.09	199.18	1.10
5137.00	1.76	181.97	5135.67	-21.49	-6.31	-21.49	22.40	196.37	.75
5231.00	1.93	212.12	5229.62	-24.28	-7.20	-24.28	25.32	196.53	1.04
5325.00	5.72	237.69	5323.40	-28.12	-12.01	-28.12	30.58	203.12	4.32
5463.00	5.10	209.92	5460.81	-37.12	-20.88	-37.12	42.59	209.36	1.93
5557.00	2.37	195.59	5554.60	-42.61	-23.49	-42.61	48.66	208.86	3.05
5651.00	1.23	136.35	5648.56	-45.21	-23.31	-45.21	50.87	207.28	2.17
5745.00	1.23	29.22	5742.55	-45.06	-22.12	-45.06	50.20	206.15	2.11
5839.00	1.32	16.38	5836.52	-43.14	-21.33	-43.14	48.13	206.30	.32
5933.00	1.49	15.86	5930.50	-40.93	-20.69	-40.93	45.86	206.81	.18
6027.00	1.49	33.00	6024.46	-38.73	-19.69	-38.73	43.45	206.95	.47
6121.00	2.99	31.33	6118.39	-35.61	-17.75	-35.61	39.79	206.49	1.60
6215.00	3.08	30.97	6212.26	-31.35	-15.17	-31.35	34.83	205.82	.10
6309.00	2.64	27.11	6306.14	-27.26	-12.89	-27.26	30.15	205.30	.51
6445.00	1.76	38.01	6442.04	-22.82	-10.17	-22.82	24.99	204.02	.71
6534.00	.79	139.78	6531.02	-22.22	-8.93	-22.22	23.95	201.91	2.33
6597.00	1.76	185.66	6594.01	-23.51	-8.75	-23.51	25.09	200.41	2.12

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
6691.00	2.37	241.12	6687.96	-25.89	-10.59	-25.89	27.97	202.26	2.12
6782.00	.70	279.62	6778.92	-26.70	-12.79	-26.70	29.61	205.59	2.06
6877.00	2.99	27.02	6873.88	-24.40	-12.24	-24.40	27.29	206.64	3.44
6971.00	2.81	.21	6967.76	-19.91	-11.11	-19.91	22.80	209.17	1.44
7065.00	4.22	357.22	7061.59	-14.15	-11.27	-14.15	18.09	218.55	1.51
7160.00	2.37	326.37	7156.43	-9.02	-12.53	-9.02	15.44	234.25	2.63
7254.00	1.76	314.16	7250.37	-6.40	-14.64	-6.40	15.98	246.40	.80
7348.00	2.64	356.96	7344.31	-3.23	-15.79	-3.23	16.12	258.44	1.92
7443.00	1.67	307.40	7439.24	-.20	-17.01	-.20	17.01	269.31	2.12
7537.00	2.46	2.67	7533.19	2.64	-18.00	2.64	18.20	278.35	2.17
7631.00	2.81	23.50	7627.09	6.77	-16.99	6.77	18.29	291.73	1.08
7725.00	2.11	32.91	7721.01	10.34	-15.13	10.34	18.33	304.34	.86
7819.00	1.23	343.07	7814.97	12.76	-14.49	12.76	19.30	311.37	1.72
7913.00	2.20	60.33	7908.94	14.61	-13.21	14.61	19.70	317.89	2.42
8008.00	1.06	47.15	8003.90	16.11	-10.98	16.11	19.50	325.72	1.26
8102.00	.70	235.67	8097.89	16.38	-10.82	16.38	19.63	326.56	1.87
8135.00	1.06	236.26	8130.89	16.10	-11.24	16.10	19.63	325.08	1.09
8197.00	2.81	230.75	8192.85	14.82	-12.89	14.82	19.64	318.97	2.84
8291.00	1.14	214.31	8286.79	12.59	-15.21	12.59	19.74	309.62	1.86
8424.00	2.20	277.42	8419.74	11.82	-18.48	11.82	21.94	302.61	1.48
Project to bit									
8480.00	2.20	277.42	8475.70	12.10	-20.61	12.10	23.90	300.42	.00