



# Weatherford International Ltd.

## WFT Survey Report Lat, Long



<b>Company:</b> XTO	<b>Date:</b> 10/11/2010	<b>Time:</b> 08:06:07	<b>Page:</b> 1
<b>Field:</b> La Plata County, CO (NAD 83)	<b>Co-ordinate(NE) Reference:</b> Well: Zellitti 34-9 #34-4, True North		
<b>Site:</b> Zellitti 34-9 #34-4	<b>Vertical (TVD) Reference:</b> SITE 6704.0		
<b>Well:</b> Zellitti 34-9 #34-4	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,250.73Azi)		
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

<b>Survey:</b> Wft Svy	<b>Start Date:</b> 10/4/2010
<b>Company:</b> Weatherford International Ltd.	<b>Engineer:</b> Russell W. Joyner
<b>Tool:</b> MWD;MWD - Standard	<b>Tied-to:</b> From Surface

**Field:** La Plata County, CO (NAD 83)

<b>Map System:</b> US State Plane Coordinate System 1983	<b>Map Zone:</b> Colorado, Southern Zone
<b>Geo Datum:</b> GRS 1980	<b>Coordinate System:</b> Well Centre
<b>Sys Datum:</b> Mean Sea Level	<b>Geomagnetic Model:</b> IGRF2010

**Site:** Zellitti 34-9 #34-4

<b>Site Position:</b>	<b>Northing:</b> 1181870.36 ft	<b>Latitude:</b> 37 8 35.412 N
<b>From:</b> Geographic	<b>Easting:</b> 2325223.92 ft	<b>Longitude:</b> 107 48 54.648 W
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> True
<b>Ground Level:</b> 6692.00 ft		<b>Grid Convergence:</b> -1.42 deg

<b>Well:</b> Zellitti 34-9 #34-4	<b>Slot Name:</b>
<b>Well Position:</b> +N/-S 0.00 ft	<b>Latitude:</b> 37 8 35.412 N
+E/-W 0.00 ft	<b>Longitude:</b> 107 48 54.648 W
<b>Position Uncertainty:</b> 0.00 ft	

<b>Wellpath:</b> 1	<b>Drilled From:</b> Surface
<b>Current Datum:</b> SITE	<b>Tie-on Depth:</b> 0.00 ft
<b>Magnetic Data:</b> 10/5/2010	<b>Above System Datum:</b> Mean Sea Level
<b>Field Strength:</b> 51077 nT	<b>Declination:</b> 10.06 deg
<b>Vertical Section:</b> Depth From (TVD) ft	<b>Mag Dip Angle:</b> 63.81 deg
	<b>+E/-W</b> ft
	<b>Direction</b> deg
0.00	0.00 0.00 250.73

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat	Min	Sec	Long	Min	Sec	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37	8	35.412	107	48	54.648	First Wft Sv
225.00	0.61	335.84	225.00	1.09	-0.49	0.10	0.27	37	8	35.423	107	48	54.654	
256.00	0.94	343.31	255.99	1.49	-0.63	0.10	1.11	37	8	35.427	107	48	54.656	
287.00	1.06	328.81	286.99	1.98	-0.85	0.15	0.90	37	8	35.431	107	48	54.659	
318.00	1.25	310.31	317.98	2.44	-1.26	0.38	1.34	37	8	35.436	107	48	54.664	
349.00	1.69	293.44	348.97	2.84	-1.94	0.89	1.98	37	8	35.440	107	48	54.672	8 5/8
379.00	2.13	280.69	378.96	3.12	-2.89	1.70	2.03	37	8	35.443	107	48	54.684	
409.00	2.81	272.44	408.93	3.25	-4.17	2.86	2.55	37	8	35.444	107	48	54.700	
440.00	3.75	269.44	439.88	3.28	-5.95	4.53	3.08	37	8	35.444	107	48	54.721	
470.00	4.44	266.69	469.80	3.20	-8.09	6.58	2.39	37	8	35.444	107	48	54.748	
505.00	5.31	262.69	504.67	2.92	-11.04	9.46	2.67	37	8	35.441	107	48	54.784	
555.00	6.79	263.72	554.39	2.30	-16.28	14.60	2.96	37	8	35.435	107	48	54.849	
567.00	7.14	263.90	566.30	2.14	-17.72	16.02	2.96	37	8	35.433	107	48	54.867	
608.00	8.00	261.06	606.95	1.43	-23.07	21.31	2.29	37	8	35.426	107	48	54.933	
640.00	9.06	257.44	638.59	0.53	-27.73	26.00	3.71	37	8	35.417	107	48	54.991	
672.00	10.44	255.19	670.13	-0.76	-33.00	31.40	4.47	37	8	35.404	107	48	55.056	
703.00	11.88	253.06	700.54	-2.40	-38.76	37.38	4.83	37	8	35.388	107	48	55.127	
735.00	13.00	250.06	731.79	-4.59	-45.30	44.27	4.04	37	8	35.367	107	48	55.207	
767.00	14.50	246.69	762.87	-7.40	-52.36	51.87	5.31	37	8	35.339	107	48	55.295	
798.00	15.69	247.81	792.80	-10.52	-59.81	59.93	3.95	37	8	35.308	107	48	55.387	
829.00	16.81	248.81	822.57	-13.73	-67.87	68.59	3.72	37	8	35.276	107	48	55.486	
859.00	17.69	249.81	851.22	-16.87	-76.19	77.49	3.10	37	8	35.245	107	48	55.589	
891.00	18.69	250.69	881.62	-20.24	-85.59	87.48	3.24	37	8	35.212	107	48	55.705	
922.00	19.50	250.94	910.91	-23.57	-95.17	97.62	2.63	37	8	35.179	107	48	55.823	



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<b>Field:</b> La Plata County, CO (NAD 83)	<b>Co-ordinate(NE) Reference:</b> Well: Zellitti 34-9 #34-4, True North		
<b>Site:</b> Zellitti 34-9 #34-4	<b>Vertical (TVD) Reference:</b> SITE 6704.0		
<b>Well:</b> Zellitti 34-9 #34-4	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,250.73Azi)		
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat	Min	Sec	Long	Min	Sec	Comment
954.00	20.25	250.44	941.00	-27.17	-105.44	108.50	2.40	37	8	35.143	107	48	55.950	
985.00	21.06	250.31	970.01	-30.84	-115.74	119.43	2.62	37	8	35.107	107	48	56.077	
1016.00	22.06	250.56	998.84	-34.66	-126.47	130.82	3.24	37	8	35.069	107	48	56.210	
1047.00	22.75	251.06	1027.50	-38.54	-137.63	142.64	2.31	37	8	35.031	107	48	56.348	
1078.00	23.56	250.81	1056.00	-42.52	-149.15	154.83	2.63	37	8	34.992	107	48	56.490	
1110.00	24.63	250.94	1085.22	-46.80	-161.49	167.89	3.35	37	8	34.949	107	48	56.643	
1142.00	25.56	250.44	1114.19	-51.29	-174.30	181.46	2.98	37	8	34.905	107	48	56.801	
1173.00	26.50	249.44	1142.05	-55.96	-187.08	195.07	3.35	37	8	34.859	107	48	56.958	
1204.00	27.31	248.06	1169.69	-61.05	-200.15	209.08	3.30	37	8	34.808	107	48	57.120	
1236.00	28.06	247.31	1198.03	-66.69	-213.90	223.93	2.58	37	8	34.753	107	48	57.290	
1267.00	29.13	247.31	1225.25	-72.42	-227.59	238.74	3.45	37	8	34.696	107	48	57.459	
1297.00	30.25	247.19	1251.31	-78.16	-241.30	253.57	3.74	37	8	34.639	107	48	57.628	
1329.00	31.19	247.19	1278.82	-84.50	-256.36	269.89	2.94	37	8	34.576	107	48	57.814	
1361.00	31.94	248.56	1306.09	-90.81	-271.88	286.62	3.24	37	8	34.514	107	48	58.006	
1392.00	32.25	250.06	1332.35	-96.62	-287.29	303.08	2.76	37	8	34.457	107	48	58.196	
1424.00	33.19	251.31	1359.27	-102.34	-303.61	320.38	3.62	37	8	34.400	107	48	58.398	
1456.00	34.13	251.19	1385.90	-108.04	-320.41	338.11	2.94	37	8	34.344	107	48	58.605	
1487.00	35.00	252.56	1411.43	-113.51	-337.12	355.70	3.76	37	8	34.290	107	48	58.812	
1518.00	36.75	252.31	1436.55	-119.00	-354.44	373.85	5.66	37	8	34.235	107	48	59.025	
1548.00	37.81	252.56	1460.42	-124.48	-371.77	392.02	3.57	37	8	34.181	107	48	59.239	
1579.00	39.06	251.44	1484.70	-130.44	-390.09	411.28	4.62	37	8	34.122	107	48	59.466	
1609.00	39.63	251.06	1507.90	-136.55	-408.10	430.30	2.06	37	8	34.062	107	48	59.688	
1640.00	40.25	251.19	1531.67	-142.99	-426.93	450.20	2.02	37	8	33.998	107	48	59.921	
1671.00	41.69	250.94	1555.08	-149.58	-446.16	470.53	4.68	37	8	33.933	107	49	0.158	
1702.00	43.38	250.19	1577.92	-156.56	-465.92	491.48	5.69	37	8	33.864	107	49	0.402	
1733.00	44.81	250.44	1600.18	-163.82	-486.23	513.05	4.65	37	8	33.792	107	49	0.653	
1764.00	45.69	250.06	1622.01	-171.26	-506.95	535.07	2.97	37	8	33.719	107	49	0.909	
1795.00	45.63	250.06	1643.67	-178.83	-527.79	557.24	0.19	37	8	33.644	107	49	1.166	
1826.00	45.50	250.06	1665.38	-186.37	-548.60	579.37	0.42	37	8	33.569	107	49	1.423	
1856.00	45.56	250.56	1686.39	-193.59	-568.76	600.78	1.21	37	8	33.498	107	49	1.672	
1887.00	45.56	250.56	1708.10	-200.95	-589.63	622.91	0.00	37	8	33.425	107	49	1.930	
1918.00	45.94	250.31	1729.73	-208.39	-610.55	645.12	1.36	37	8	33.352	107	49	2.188	
1948.00	45.50	250.06	1750.67	-215.67	-630.76	666.59	1.58	37	8	33.280	107	49	2.438	
1979.00	44.50	248.69	1772.60	-223.39	-651.27	688.51	4.49	37	8	33.203	107	49	2.691	
2010.00	44.19	248.19	1794.76	-231.35	-671.42	710.16	1.51	37	8	33.124	107	49	2.940	
2041.00	44.00	247.94	1817.03	-239.41	-691.43	731.71	0.83	37	8	33.045	107	49	3.187	
2071.00	43.81	247.69	1838.64	-247.27	-710.70	752.48	0.86	37	8	32.967	107	49	3.425	
2102.00	43.81	247.81	1861.01	-255.39	-730.56	773.91	0.27	37	8	32.887	107	49	3.671	
2133.00	43.63	249.44	1883.42	-263.20	-750.51	795.32	3.68	37	8	32.810	107	49	3.917	
2164.00	43.19	250.06	1905.94	-270.57	-770.50	816.62	1.98	37	8	32.737	107	49	4.164	
2194.00	42.19	251.19	1927.99	-277.32	-789.68	836.96	4.20	37	8	32.670	107	49	4.401	
2225.00	42.13	251.56	1950.97	-283.97	-809.40	857.77	0.82	37	8	32.604	107	49	4.644	
2256.00	42.19	251.31	1973.95	-290.59	-829.13	878.58	0.57	37	8	32.539	107	49	4.888	
2299.00	42.06	251.31	2005.84	-299.84	-856.45	907.42	0.30	37	8	32.447	107	49	5.225	
2330.00	40.81	251.56	2029.08	-306.37	-875.89	927.93	4.07	37	8	32.383	107	49	5.465	
2361.00	39.13	251.31	2052.84	-312.71	-894.77	947.84	5.44	37	8	32.320	107	49	5.699	
2391.00	38.06	250.81	2076.29	-318.78	-912.47	966.55	3.72	37	8	32.260	107	49	5.917	
2422.00	36.88	250.19	2100.89	-325.07	-930.25	985.41	4.00	37	8	32.198	107	49	6.137	
2453.00	35.19	249.44	2125.96	-331.36	-947.37	1003.65	5.63	37	8	32.136	107	49	6.348	
2484.00	34.00	248.56	2151.48	-337.67	-963.80	1021.24	4.16	37	8	32.073	107	49	6.551	
2514.00	33.13	248.19	2176.47	-343.78	-979.22	1037.81	2.98	37	8	32.013	107	49	6.742	
2545.00	32.06	248.69	2202.59	-349.92	-994.75	1054.50	3.56	37	8	31.952	107	49	6.933	



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<b>Field:</b> La Plata County, CO (NAD 83)	<b>Co-ordinate(NE) Reference:</b> Well: Zellitti 34-9 #34-4, True North		
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<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

### Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat	Min	Sec	Long	Min	Sec	Comment
2576.00	31.56	249.56	2228.93	-355.74	-1010.01	1070.83	2.19	37	8	31.895	107	49	7.122	
2607.00	30.94	251.06	2255.44	-361.16	-1025.15	1086.91	3.21	37	8	31.841	107	49	7.309	
2636.00	30.25	252.06	2280.40	-365.83	-1039.16	1101.67	2.96	37	8	31.795	107	49	7.482	
2667.00	30.00	251.94	2307.21	-370.64	-1053.95	1117.22	0.83	37	8	31.747	107	49	7.665	
2698.00	29.25	251.94	2334.16	-375.39	-1068.52	1132.54	2.42	37	8	31.700	107	49	7.844	
2729.00	29.06	251.94	2361.23	-380.07	-1082.88	1147.64	0.61	37	8	31.654	107	49	8.022	
2760.00	28.75	252.19	2388.37	-384.69	-1097.14	1162.62	1.07	37	8	31.608	107	49	8.198	
2790.00	27.94	252.69	2414.77	-388.98	-1110.71	1176.86	2.81	37	8	31.566	107	49	8.366	
2821.00	27.50	253.81	2442.22	-393.14	-1124.52	1191.26	2.20	37	8	31.525	107	49	8.536	
2852.00	26.00	253.19	2469.90	-397.10	-1137.90	1205.20	4.92	37	8	31.486	107	49	8.701	
2882.00	24.81	253.94	2497.00	-400.74	-1150.24	1218.05	4.11	37	8	31.450	107	49	8.854	
2913.00	24.13	253.69	2525.21	-404.32	-1162.58	1230.88	2.22	37	8	31.414	107	49	9.006	
2944.00	23.31	253.94	2553.59	-407.80	-1174.55	1243.33	2.66	37	8	31.380	107	49	9.154	
2975.00	22.50	254.31	2582.15	-411.10	-1186.16	1255.37	2.65	37	8	31.347	107	49	9.297	
3006.00	21.88	254.69	2610.85	-414.23	-1197.44	1267.05	2.05	37	8	31.316	107	49	9.437	
3036.00	21.50	255.06	2638.73	-417.12	-1208.14	1278.11	1.35	37	8	31.288	107	49	9.569	
3068.00	20.50	253.81	2668.60	-420.20	-1219.19	1289.56	3.42	37	8	31.257	107	49	9.705	
3098.00	19.50	253.94	2696.79	-423.05	-1229.05	1299.80	3.34	37	8	31.229	107	49	9.827	
3129.00	18.31	253.69	2726.12	-425.85	-1238.69	1309.83	3.85	37	8	31.201	107	49	9.946	
3161.00	17.06	252.94	2756.61	-428.64	-1248.00	1319.54	3.97	37	8	31.174	107	49	10.061	
3191.00	15.69	251.31	2785.39	-431.23	-1256.05	1327.99	4.82	37	8	31.148	107	49	10.160	
3223.00	14.50	251.44	2816.28	-433.89	-1263.95	1336.33	3.72	37	8	31.122	107	49	10.258	
3254.00	13.31	250.56	2846.38	-436.31	-1270.99	1343.78	3.90	37	8	31.098	107	49	10.345	
3285.00	12.19	248.56	2876.61	-438.70	-1277.41	1350.62	3.88	37	8	31.074	107	49	10.424	
3316.00	11.25	248.06	2906.96	-441.02	-1283.26	1356.91	3.05	37	8	31.051	107	49	10.496	
3347.00	10.88	247.69	2937.39	-443.26	-1288.77	1362.85	1.22	37	8	31.029	107	49	10.564	
3379.00	10.38	248.06	2968.84	-445.49	-1294.24	1368.75	1.58	37	8	31.007	107	49	10.632	
3411.00	9.81	249.06	3000.34	-447.54	-1299.46	1374.35	1.86	37	8	30.987	107	49	10.696	
3442.00	9.44	249.94	3030.91	-449.35	-1304.31	1379.53	1.28	37	8	30.969	107	49	10.756	
3474.00	9.25	252.31	3062.48	-451.03	-1309.23	1384.73	1.34	37	8	30.952	107	49	10.817	
3504.00	9.06	253.44	3092.10	-452.44	-1313.79	1389.50	0.87	37	8	30.938	107	49	10.873	
3535.00	9.50	252.94	3122.69	-453.89	-1318.57	1394.49	1.44	37	8	30.924	107	49	10.933	
3566.00	9.81	253.06	3153.26	-455.41	-1323.55	1399.69	1.00	37	8	30.909	107	49	10.994	
3596.00	9.63	254.19	3182.82	-456.83	-1328.40	1404.74	0.87	37	8	30.895	107	49	11.054	
3638.00	9.50	255.06	3224.24	-458.69	-1335.13	1411.71	0.46	37	8	30.877	107	49	11.137	Last Wft Svy
3692.00	9.50	255.06	3277.50	-460.98	-1343.75	1420.59	0.00	37	8	30.854	107	49	11.243	5 1/2"

### Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
555.00	554.39	8.625	12.257	8 5/8
3692.00	3277.50	5.500	7.875	5 1/2"

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1224.65	1188.00	Ojo Alamo SS		0.00	0.00
1287.40	1243.00	Kirtland Shale		0.00	0.00
2733.31	2365.00	Fruitland Formation		0.00	0.00
3181.24	2776.00	Upper Fruitland Coal		0.00	0.00
3408.62	2998.00	Middle Fruitland Coal		0.00	0.00
3496.81	3085.00	Lower Fruitland Coal		0.00	0.00
3528.21	3116.00	Pictured Cliffs SS		0.00	0.00