



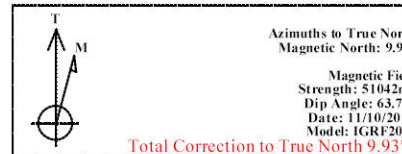
Tiffany 2 #3
La Plata County, CO

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	35.96	0.00	0.00	0.00	0.00	0.00	0.00	
2	500.00	0.00	35.96	500.00	0.00	0.00	0.00	0.00	0.00	
3	1642.86	40.00	35.96	1552.26	310.02	224.87	3.50	35.96	382.99	
4	2049.94	40.00	35.96	1864.10	521.84	378.51	0.00	0.00	644.66	
5	2907.08	10.00	35.96	2632.09	811.72	588.79	3.50	180.00	1002.78	
6	3229.89	10.00	35.96	2950.00	857.10	621.70	0.00	0.00	1058.83	Pbhl

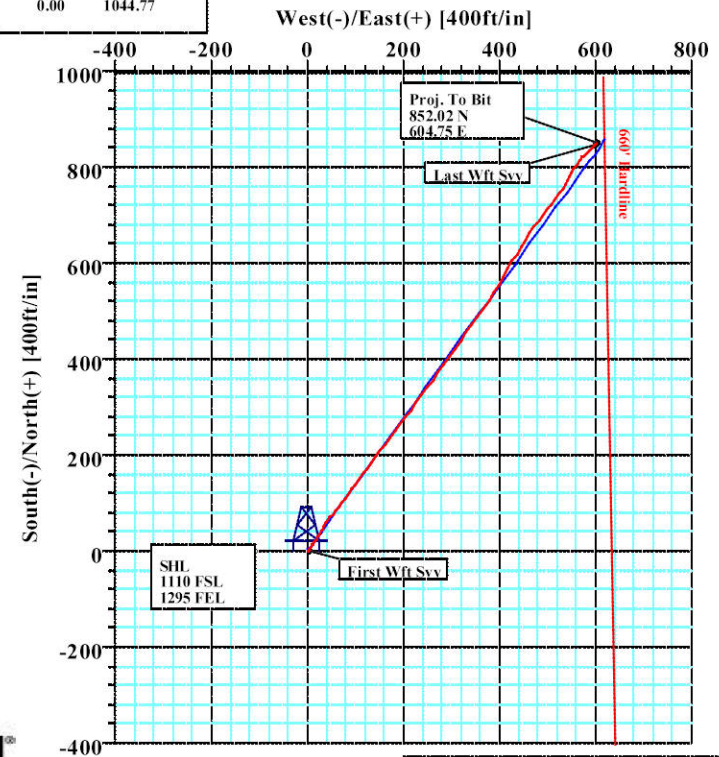
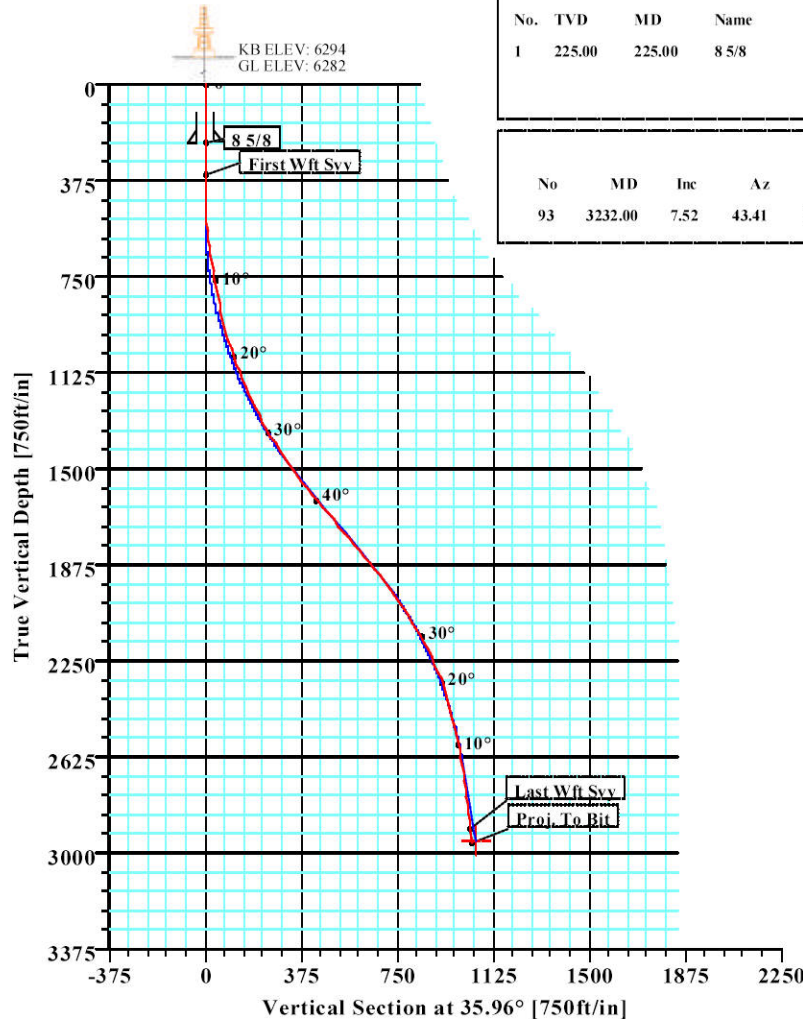
WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Tiffany 2 #3	0.00	0.00	1143387.74	2394904.14	37°02'31.222N	107°34'23.736W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Pbhl	2950.00	857.10	621.70	37°02'39.696N	107°34'16.068W	Point

CASING DETAILS				
No.	TVD	MD	Name	Size
1	225.00	225.00	8 5/8	8.625



Survey: Wft Svy (Tiffany 2 #3/1)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
93	3232.00	7.52	43.41	2959.25	852.02	604.75	0.00	0.00	1044.77



FIELD DETAILS

La Plata County, CO (NAD 83)

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: Colorado, Southern Zone
Magnetic Model: IGRF2010

System Datum: Mean Sea Level
Local North: True North

SITE DETAILS

Tiffany 2 #3

Site Centre Latitude: 37°02'31.222N
Longitude: 107°34'23.736W

Ground Level: 6282.00
Positional Uncertainty: 0.00
Convergence: -1.27

Survey: Wft Svy (Tiffany 2 #3/1)
Created By: Russell W. Joyner
Date: 11/4/2010



Weatherford International Ltd.

WFT Survey Report Lat, Long



Company: XTO	Date: 11/4/2010	Time: 06:58:01	Page: 1
Field: La Plata County, CO (NAD 83)	Co-ordinate(NE) Reference:	Well: Tiffany 2 #3, True North	
Site: Tiffany 2 #3	Vertical (TVD) Reference:	SITE 6294.0	
Well: Tiffany 2 #3	Section (VS) Reference:	Well (0.00N,0.00E,35.96Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: Wft Svy	Start Date: 11/2/2010
Company: Weatherford International Ltd.	Engineer: Russell W. Joyner
Tool: MWD;MWD - Standard	Tied-to: From Surface

Field: La Plata County, CO (NAD 83)

Map System:US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: Colorado, Southern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Tiffany 2 #3

Site Position:	Northing: 1143387.74 ft	Latitude: 37 2 31.222 N
From: Geographic	Easting: 2394904.14 ft	Longitude: 107 34 23.736 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 6282.00 ft		Grid Convergence: -1.27 deg

Well: Tiffany 2 #3	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 37 2 31.222 N
+E/-W 0.00 ft	Longitude: 107 34 23.736 W
Position Uncertainty: 0.00 ft	

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 11/10/2010	Above System Datum: Mean Sea Level
Field Strength: 51042 nT	Declination: 9.93 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 63.77 deg
ft	+E/-W
	ft
	Direction
	deg
0.00	0.00
0.00	0.00
0.00	35.96

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	2	31.222	107	34	23.736	8 5/8 First Wft Sv
225.00	0.48	67.20	225.00	0.37	0.87	0.81	0.21	37	2	31.226	107	34	23.725	
355.00	0.76	67.20	354.99	0.91	2.17	2.01	0.21	37	2	31.231	107	34	23.709	
386.00	0.79	71.00	385.99	1.06	2.56	2.36	0.19	37	2	31.232	107	34	23.704	
418.00	0.75	60.56	417.98	1.24	2.95	2.73	0.46	37	2	31.234	107	34	23.700	
449.00	0.94	54.56	448.98	1.48	3.34	3.16	0.68	37	2	31.237	107	34	23.695	
480.00	1.69	34.93	479.97	2.01	3.81	3.86	2.79	37	2	31.242	107	34	23.689	
512.00	3.00	28.18	511.94	3.13	4.47	5.16	4.18	37	2	31.253	107	34	23.681	
543.00	4.50	26.31	542.88	4.94	5.39	7.16	4.85	37	2	31.271	107	34	23.669	
574.00	5.88	27.68	573.75	7.43	6.67	9.93	4.47	37	2	31.295	107	34	23.654	
606.00	7.25	32.68	605.54	10.58	8.52	13.57	4.64	37	2	31.327	107	34	23.631	
637.00	8.13	34.06	636.26	14.05	10.81	17.71	2.90	37	2	31.361	107	34	23.603	
667.00	8.75	34.56	665.94	17.68	13.29	22.12	2.08	37	2	31.397	107	34	23.572	
698.00	9.19	34.56	696.56	21.66	16.03	26.95	1.42	37	2	31.436	107	34	23.538	
730.00	9.75	35.18	728.12	25.98	19.04	32.21	1.78	37	2	31.479	107	34	23.501	
761.00	9.81	36.31	758.67	30.26	22.12	37.48	0.65	37	2	31.521	107	34	23.463	
793.00	10.44	33.56	790.17	34.87	25.33	43.10	2.48	37	2	31.567	107	34	23.424	
825.00	11.31	29.31	821.60	40.02	28.47	49.11	3.70	37	2	31.618	107	34	23.385	
857.00	11.94	28.81	852.94	45.66	31.60	55.52	1.99	37	2	31.673	107	34	23.346	
888.00	12.56	29.56	883.23	51.40	34.81	62.05	2.06	37	2	31.730	107	34	23.307	
919.00	13.19	31.93	913.45	57.33	38.35	68.93	2.65	37	2	31.789	107	34	23.263	
950.00	14.31	35.06	943.57	63.47	42.42	76.28	4.34	37	2	31.849	107	34	23.213	
981.00	15.81	36.56	973.50	70.00	47.13	84.34	5.00	37	2	31.914	107	34	23.155	
1011.00	17.06	37.93	1002.27	76.75	52.27	92.82	4.36	37	2	31.981	107	34	23.091	



Weatherford International Ltd.

WFT Survey Report Lat, Long



Company: XTO	Date: 11/4/2010	Time: 06:58:01	Page: 2
Field: La Plata County, CO (NAD 83)	Co-ordinate(NE) Reference:	Well: Tiffany 2 #3, True North	
Site: Tiffany 2 #3	Vertical (TVD) Reference:	SITE 6294.0	
Well: Tiffany 2 #3	Section (VS) Reference:	Well (0.00N,0.00E,35.96Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: 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
1043.00	18.56	38.43	1032.74	84.45	58.33	102.60	4.71	37	2	32.057	107	34	23.017	
1075.00	19.94	38.43	1062.95	92.71	64.88	113.14	4.31	37	2	32.139	107	34	22.936	
1106.00	21.13	37.93	1091.98	101.26	71.60	124.01	3.88	37	2	32.223	107	34	22.853	
1137.00	22.06	37.81	1120.80	110.27	78.61	135.41	3.00	37	2	32.312	107	34	22.766	
1168.00	22.69	37.43	1149.47	119.61	85.81	147.21	2.09	37	2	32.405	107	34	22.678	
1198.00	23.50	36.56	1177.07	129.01	92.89	158.97	2.93	37	2	32.497	107	34	22.590	
1230.00	23.88	36.18	1206.37	139.36	100.51	171.83	1.28	37	2	32.600	107	34	22.496	
1261.00	24.69	35.31	1234.63	149.71	107.96	184.58	2.86	37	2	32.702	107	34	22.404	
1292.00	25.69	35.43	1262.68	160.47	115.60	197.77	3.23	37	2	32.809	107	34	22.310	
1323.00	26.88	35.31	1290.47	171.67	123.54	211.50	3.84	37	2	32.919	107	34	22.212	
1355.00	28.13	36.06	1318.85	183.67	132.17	226.28	4.05	37	2	33.038	107	34	22.106	
1386.00	29.50	36.93	1346.01	195.68	141.05	241.22	4.62	37	2	33.157	107	34	21.996	
1417.00	30.81	37.68	1372.82	208.06	150.49	256.78	4.40	37	2	33.279	107	34	21.880	
1449.00	32.00	38.06	1400.13	221.22	160.73	273.45	3.77	37	2	33.409	107	34	21.754	
1481.00	33.06	37.68	1427.11	234.81	171.29	290.65	3.37	37	2	33.543	107	34	21.623	
1512.00	34.38	37.31	1452.89	248.46	181.77	307.85	4.31	37	2	33.678	107	34	21.494	
1544.00	35.25	36.68	1479.17	263.06	192.76	326.12	2.94	37	2	33.823	107	34	21.359	
1576.00	36.06	36.18	1505.17	278.06	203.83	344.77	2.69	37	2	33.971	107	34	21.222	
1607.00	37.19	36.18	1530.05	292.99	214.75	363.26	3.65	37	2	34.119	107	34	21.087	
1637.00	38.06	36.43	1553.81	307.75	225.60	381.58	2.94	37	2	34.265	107	34	20.954	
1669.00	39.00	35.93	1578.84	323.84	237.36	401.51	3.09	37	2	34.424	107	34	20.808	
1700.00	39.13	35.93	1602.91	339.66	248.83	421.04	0.42	37	2	34.580	107	34	20.667	
1731.00	40.19	35.81	1626.77	355.69	260.42	440.83	3.43	37	2	34.739	107	34	20.524	
1762.00	40.44	35.56	1650.41	371.98	272.12	460.89	0.96	37	2	34.900	107	34	20.380	
1794.00	40.06	36.06	1674.83	388.75	284.21	481.56	1.56	37	2	35.065	107	34	20.231	
1825.00	40.13	35.93	1698.55	404.90	295.95	501.53	0.35	37	2	35.225	107	34	20.086	
1857.00	39.88	35.68	1723.06	421.59	307.98	522.10	0.93	37	2	35.390	107	34	19.937	
1889.00	39.63	34.68	1747.66	438.31	319.77	542.56	2.15	37	2	35.555	107	34	19.792	
1920.00	40.63	34.93	1771.36	454.72	331.18	562.54	3.27	37	2	35.718	107	34	19.651	
1951.00	41.06	34.56	1794.81	471.38	342.73	582.81	1.59	37	2	35.882	107	34	19.509	
1983.00	40.94	34.06	1818.97	488.72	354.57	603.79	1.09	37	2	36.054	107	34	19.363	
2014.00	41.00	33.96	1842.37	505.57	365.94	624.10	0.29	37	2	36.220	107	34	19.223	
2045.00	39.94	33.56	1865.95	522.29	377.12	644.21	3.52	37	2	36.386	107	34	19.085	
2076.00	38.81	32.56	1889.92	538.77	387.85	663.85	4.18	37	2	36.549	107	34	18.952	
2108.00	37.38	31.56	1915.10	555.50	398.33	683.55	4.87	37	2	36.714	107	34	18.823	
2139.00	36.06	30.93	1939.95	571.35	407.94	702.02	4.43	37	2	36.871	107	34	18.704	
2171.00	35.37	31.18	1965.93	587.35	417.58	720.63	2.20	37	2	37.029	107	34	18.586	
2203.00	34.44	31.18	1992.17	603.02	427.06	738.88	2.91	37	2	37.184	107	34	18.469	
2234.00	33.77	31.04	2017.84	617.90	436.04	756.20	2.18	37	2	37.331	107	34	18.358	
2266.00	32.94	30.93	2044.57	632.98	445.10	773.73	2.60	37	2	37.480	107	34	18.246	
2298.00	32.19	32.18	2071.54	647.66	454.11	790.90	3.15	37	2	37.625	107	34	18.135	
2329.00	31.50	34.43	2097.87	661.33	463.09	807.23	4.43	37	2	37.760	107	34	18.024	
2360.00	31.19	36.43	2124.35	674.47	472.43	823.36	3.50	37	2	37.890	107	34	17.909	
2392.00	30.38	38.06	2151.84	687.51	482.34	839.73	3.63	37	2	38.019	107	34	17.787	
2424.00	28.94	39.06	2179.65	699.89	492.21	855.55	4.76	37	2	38.142	107	34	17.665	
2455.00	27.44	38.43	2206.97	711.31	501.38	870.17	4.93	37	2	38.255	107	34	17.552	
2487.00	25.94	37.93	2235.56	722.61	510.26	884.54	4.74	37	2	38.366	107	34	17.442	
2519.00	24.48	37.06	2264.51	733.42	518.56	898.16	4.71	37	2	38.473	107	34	17.340	
2551.00	22.75	34.06	2293.83	743.84	526.02	910.97	6.58	37	2	38.576	107	34	17.248	
2582.00	20.88	30.93	2322.61	753.54	532.22	922.47	7.10	37	2	38.672	107	34	17.172	
2613.00	18.94	28.81	2351.76	762.69	537.48	932.97	6.68	37	2	38.763	107	34	17.107	
2645.00	17.50	27.93	2382.15	771.49	542.24	942.88	4.58	37	2	38.850	107	34	17.048	



Weatherford International Ltd.

WFT Survey Report Lat, Long



Company: XTO	Date: 11/4/2010	Time: 06:58:01	Page: 3
Field: La Plata County, CO (NAD 83)	Co-ordinate(NE) Reference:	Well: Tiffany 2 #3, True North	
Site: Tiffany 2 #3	Vertical (TVD) Reference:	SITE 6294.0	
Well: Tiffany 2 #3	Section (VS) Reference:	Well (0.00N,0.00E,35.96Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: 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
2677.00	16.31	29.18	2412.77	779.67	546.69	952.11	3.89	37	2	38.930	107	34	16.993	
2709.00	15.38	29.81	2443.55	787.27	550.99	960.79	2.96	37	2	39.006	107	34	16.940	
2740.00	14.31	29.81	2473.52	794.16	554.93	968.69	3.45	37	2	39.074	107	34	16.891	
2771.00	12.94	31.93	2503.65	800.43	558.67	975.96	4.70	37	2	39.136	107	34	16.845	
2802.00	12.00	33.81	2533.91	806.06	562.30	982.64	3.30	37	2	39.191	107	34	16.801	
2834.00	10.75	37.31	2565.29	811.20	565.96	988.95	4.46	37	2	39.242	107	34	16.755	
2866.00	9.25	42.06	2596.80	815.48	569.50	994.49	5.35	37	2	39.284	107	34	16.712	
2897.00	8.44	44.56	2627.43	818.95	572.76	999.22	2.89	37	2	39.319	107	34	16.672	
2929.00	8.31	44.56	2659.09	822.27	576.03	1003.83	0.41	37	2	39.352	107	34	16.631	
2960.00	8.19	44.68	2689.77	825.44	579.16	1008.22	0.39	37	2	39.383	107	34	16.593	
2992.00	8.13	44.68	2721.44	828.67	582.35	1012.71	0.19	37	2	39.415	107	34	16.553	
3024.00	8.00	44.18	2753.13	831.87	585.49	1017.15	0.46	37	2	39.447	107	34	16.515	
3054.00	8.00	44.93	2782.84	834.85	588.42	1021.28	0.35	37	2	39.476	107	34	16.478	
3085.00	7.88	43.56	2813.54	837.91	591.41	1025.52	0.72	37	2	39.506	107	34	16.442	
3116.00	7.63	43.68	2844.25	840.94	594.30	1029.67	0.81	37	2	39.536	107	34	16.406	
3147.00	7.56	43.06	2874.98	843.92	597.11	1033.73	0.35	37	2	39.566	107	34	16.371	
3179.00	7.52	43.41	2906.71	846.98	599.99	1037.89	0.19	37	2	39.596	107	34	16.336	Last Wft Sys
3232.00	7.52	43.41	2959.25	852.02	604.75	1044.77	0.00	37	2	39.646	107	34	16.277	Proj. To Bit

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
225.00	225.00	8.625	12.250	8 5/8
	0.00	5.500	7.875	5 1/2"

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1323.59	1291.00	Ojo Alamo SS		0.00	0.00
1421.87	1377.00	Kirtland Shale		0.00	0.00
1595.68	1521.00	Farmington SS		0.00	0.00
2448.26	2201.00	Fruitland Formation		0.00	0.00
2702.20	2437.00	Upper Fruitland Coal		0.00	0.00
2815.37	2547.00	Middle Fruitland Coal		0.00	0.00
2893.53	2624.00	Pictured Cliffs Tongue		0.00	0.00
3092.53	2821.00	Lower Fruitland Coal		0.00	0.00
3099.60	2828.00	Pictured Cliffs SS		0.00	0.00