

SECTION DETAILS									
Sec	MD	Inc	Azi	TYD	+N/-S	+E/-W	DLeg	TFace	VSec
1	0.00	0.00	43.82	0.00	0.00	0.00	0.00	0.00	0.00
2	500.00	0.00	43.82	500.00	0.00	0.00	0.00	115.18	153.81
3	1166.67	20.00	43.82	1153.21	83.10	79.75	3.00	43.82	153.81
4	1779.60	5.00	43.82	1259.34	110.97	106.50	0.00	180.00	261.72
5	1779.60	5.00	43.82	1746.09	188.82	181.22	3.00	180.00	358.30
6	2887.73	5.00	43.82	2850.00	258.50	248.10	0.00	0.00	0.00

WELL DETAILS					
Name	+N/-S	+E/-W	Northing	Easting	Slot
Henry 2-3	0.00	0.00	1146585.34	2395302.07	N/A

TARGET DETAILS					
Name	TYD	+N/-S	+E/-W	Latitude	Longitude
Pbhl	2850.00	258.50	248.10	37°03'05.472N	107°34'16.444W

CASING DETAILS			
No.	TYD	MD	Name
1	322.00	322.00	8.5/8"
2	2869.25	2906.00	5.1/2"

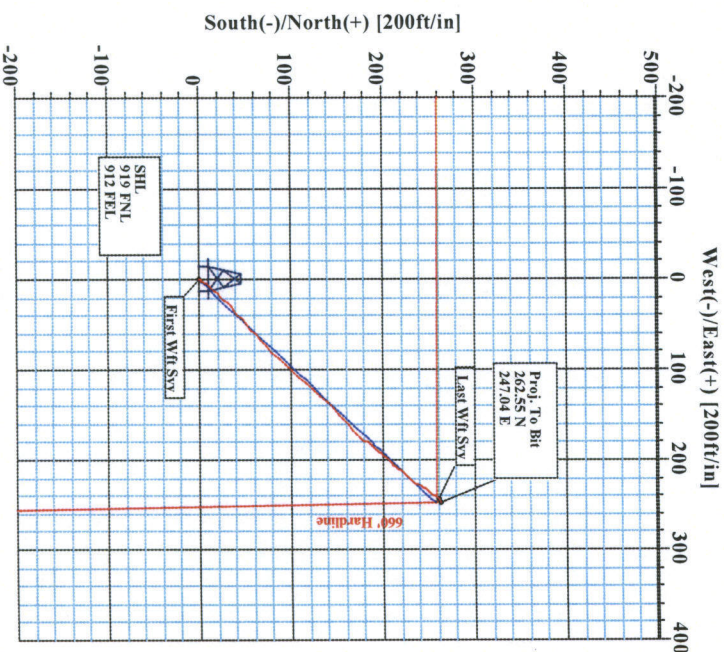
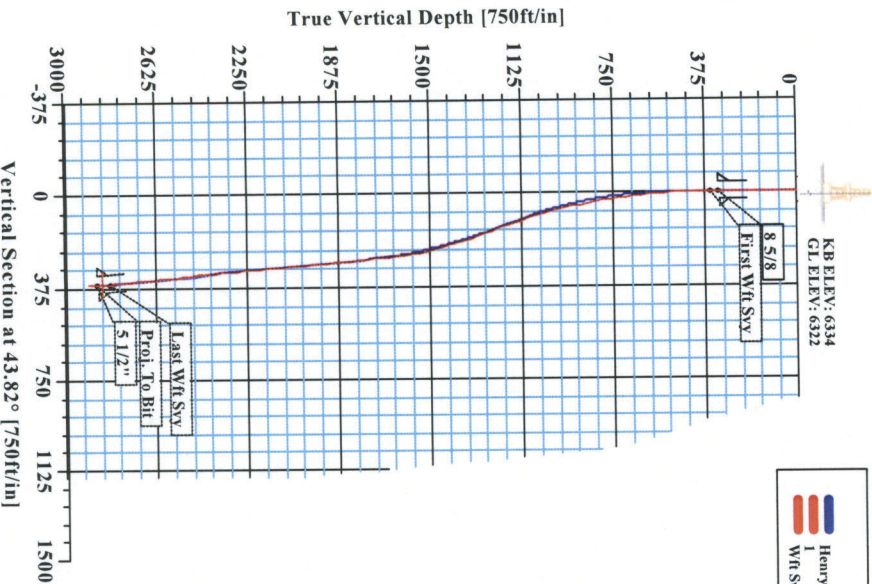
LEGEND	
	Henry 2-3, 1, Plan #1
	Wt Svy



FORMATION TOP DETAILS			
No.	TYD Path	MD Path	Formation
1	1165.00	1178.41	Ojo Alamo SS
2	1267.00	1286.28	Kirtland Shale
3	2119.00	2152.94	Fruitland Formation
4	2377.00	2411.88	Upper Fruitland Coal
5	2419.00	2454.04	Middle Fruitland Coal
6	2521.00	2556.45	Pictured Cliffs Tongue
7	2710.00	2746.14	Lower Fruitland Coal
8	2719.00	2755.17	Pictured Cliffs

SITE DETAILS	
Henry 2-3	
Site Centre Latitude: 37°03'02.916N	
Longitude: 107°34'19.704W	
Ground Level: 6322.00	
Positional Uncertainty: 0.00m	
Convergence: -1.27	

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	



Survey: Wt Svy (Henry 2-3/1)							
No	MD	Inc	Az	TYD	+N/-S	+E/-W	VSec
83	2906.00	4.94	45.50	2869.25	262.55	247.04	360.49



Weatherford International Ltd.

WFT Survey Report Lat, Long



Company: XTO Date: 11/10/2010 Time: 07:51:22 Page: 1
Field: La Plata County, CO (NAD 83) Co-ordinate(NE) Reference: Well: Henry 2-3, True North
Site: Henry 2-3 Vertical (TVD) Reference: SITE 6334.0
Well: Henry 2-3 Section (VS) Reference: Well (0.00N,0.00E,43.82Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 11/9/2010
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 Map Zone: Colorado, Southern Zone
Geo Datum: GRS 1980 Coordinate System: Well Centre
Sys Datum: Mean Sea Level Geomagnetic Model: IGRF2010

Site: Henry 2-3

Site Position: Northing: 1146585.34 ft Latitude: 37 3 2.916 N
From: Geographic Easting: 2395302.07 ft Longitude: 107 34 19.704 W
Position Uncertainty: 0.00 ft North Reference: True
Ground Level: 6322.00 ft Grid Convergence: -1.27 deg

Well: Henry 2-3 Slot Name:
Well Position: +N/-S 0.00 ft Northing: 1146585.34 ft Latitude: 37 3 2.916 N
+E/-W 0.00 ft Easting: 2395302.07 ft Longitude: 107 34 19.704 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 6334.00 ft Tie-on Depth: 0.00 ft
Magnetic Data: 11/3/2010 Above System Datum: Mean Sea Level
Field Strength: 51049 nT Declination: 9.93 deg
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 63.78 deg
ft ft +E/-W Direction
deg
0.00 0.00 0.00 43.82

Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	Lat	Min	Sec	Long	Min	Sec	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft							
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37	3	2.916	107	34	19.704	8 5/8 First Wft Svy
322.00	0.29	13.43	322.00	0.79	0.19	0.70	0.09	37	3	2.924	107	34	19.702	
356.00	0.32	13.43	356.00	0.97	0.23	0.86	0.09	37	3	2.926	107	34	19.701	
387.00	0.25	353.31	387.00	1.12	0.24	0.98	0.39	37	3	2.927	107	34	19.701	
418.00	0.44	3.31	418.00	1.30	0.24	1.11	0.64	37	3	2.929	107	34	19.701	
450.00	0.56	19.18	450.00	1.57	0.30	1.34	0.57	37	3	2.932	107	34	19.700	
482.00	1.50	28.31	481.99	2.09	0.55	1.89	2.97	37	3	2.937	107	34	19.697	
512.00	2.13	34.43	511.98	2.90	1.05	2.82	2.19	37	3	2.945	107	34	19.691	
544.00	3.44	37.68	543.94	4.15	1.98	4.36	4.12	37	3	2.957	107	34	19.680	
575.00	4.38	37.43	574.86	5.82	3.26	6.46	3.03	37	3	2.974	107	34	19.664	
606.00	5.19	36.59	605.76	7.89	4.82	9.03	2.62	37	3	2.994	107	34	19.645	
637.00	6.19	36.19	636.60	10.36	6.64	12.08	3.23	37	3	3.018	107	34	19.622	
668.00	7.31	38.06	667.39	13.27	8.84	15.69	3.68	37	3	3.047	107	34	19.595	
700.00	8.13	41.81	699.10	16.56	11.61	19.98	3.01	37	3	3.080	107	34	19.561	
732.00	8.69	44.68	730.75	19.96	14.82	24.66	2.19	37	3	3.113	107	34	19.521	
763.00	9.13	45.93	761.38	23.34	18.23	29.46	1.55	37	3	3.147	107	34	19.479	
795.00	9.50	45.93	792.96	26.94	21.95	34.64	1.16	37	3	3.182	107	34	19.433	
826.00	10.13	46.68	823.50	30.59	25.77	39.91	2.07	37	3	3.218	107	34	19.386	
858.00	10.69	47.43	854.98	34.53	30.01	45.69	1.80	37	3	3.257	107	34	19.334	
889.00	11.13	48.06	885.42	38.47	34.35	51.54	1.47	37	3	3.296	107	34	19.280	
921.00	11.88	49.68	916.77	42.67	39.16	57.90	2.55	37	3	3.338	107	34	19.221	
952.00	12.75	50.68	947.06	46.90	44.24	64.47	2.89	37	3	3.380	107	34	19.158	
983.00	13.63	50.18	977.24	51.41	49.69	71.50	2.86	37	3	3.424	107	34	19.091	
1015.00	14.38	48.93	1008.29	56.43	55.58	79.20	2.53	37	3	3.474	107	34	19.018	



Weatherford International Ltd.

WFT Survey Report Lat, Long



Company: XTO
Field: La Plata County, CO (NAD 83)
Site: Henry 2-3
Well: Henry 2-3
Wellpath: 1

Date: 11/10/2010 Time: 07:51:22 Page: 2
Co-ordinate(NE) Reference: Well: Henry 2-3, True North
Vertical (TVD) Reference: SITE 6334.0
Section (VS) Reference: Well (0.00N,0.00E,43.82Azi)
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
1046.00	15.19	46.81	1038.26	61.74	61.44	87.09	3.14	37	3	3.526	107	34	18.946	
1077.00	16.13	46.43	1068.11	67.49	67.53	95.45	3.05	37	3	3.583	107	34	18.871	
1108.00	16.88	45.68	1097.84	73.60	73.87	104.25	2.52	37	3	3.644	107	34	18.793	
1140.00	17.50	45.93	1128.41	80.19	80.65	113.70	1.95	37	3	3.709	107	34	18.709	
1171.00	17.75	45.68	1157.95	86.74	87.38	123.08	0.84	37	3	3.774	107	34	18.626	
1202.00	18.56	44.18	1187.41	93.58	94.19	132.74	3.02	37	3	3.841	107	34	18.542	
1232.00	19.13	42.68	1215.80	100.61	100.85	142.43	2.49	37	3	3.911	107	34	18.460	
1264.00	19.44	41.93	1246.00	108.43	107.97	152.99	1.24	37	3	3.988	107	34	18.372	
1295.00	19.81	41.68	1275.20	116.19	114.91	163.40	1.22	37	3	4.065	107	34	18.287	
1326.00	19.75	42.43	1304.37	123.98	121.93	173.88	0.84	37	3	4.142	107	34	18.200	
1357.00	19.00	43.18	1333.62	131.53	128.92	184.16	2.55	37	3	4.216	107	34	18.114	
1388.00	18.19	44.31	1363.00	138.67	135.76	194.05	2.86	37	3	4.287	107	34	18.029	
1419.00	17.44	45.31	1392.51	145.40	142.44	203.53	2.61	37	3	4.353	107	34	17.947	
1451.00	15.88	46.93	1423.17	151.76	149.05	212.70	5.09	37	3	4.416	107	34	17.865	
1481.00	14.68	49.31	1452.11	157.04	154.93	220.58	4.51	37	3	4.469	107	34	17.793	
1513.00	13.31	49.93	1483.16	162.06	160.82	228.28	4.31	37	3	4.518	107	34	17.720	
1544.00	11.94	50.68	1513.41	166.39	166.03	235.01	4.45	37	3	4.561	107	34	17.656	
1574.00	10.38	47.68	1542.84	170.17	170.43	240.79	5.55	37	3	4.598	107	34	17.602	
1606.00	8.55	37.19	1574.40	174.01	174.00	246.03	7.84	37	3	4.636	107	34	17.558	
1638.00	6.80	36.94	1606.12	177.42	176.58	250.27	5.47	37	3	4.670	107	34	17.526	
1669.00	5.38	35.56	1636.94	180.07	178.53	253.53	4.60	37	3	4.696	107	34	17.502	
1701.00	4.81	35.43	1668.81	182.38	180.18	256.35	1.78	37	3	4.719	107	34	17.481	
1732.00	4.81	35.43	1699.71	184.50	181.68	258.92	0.00	37	3	4.740	107	34	17.463	
1763.00	4.94	38.56	1730.59	186.60	183.27	261.53	0.95	37	3	4.761	107	34	17.443	
1795.00	5.00	41.81	1762.47	188.72	185.06	264.30	0.90	37	3	4.782	107	34	17.421	
1826.00	5.19	42.81	1793.35	190.76	186.91	267.05	0.68	37	3	4.802	107	34	17.398	
1857.00	5.38	40.93	1824.22	192.88	188.82	269.90	0.83	37	3	4.823	107	34	17.375	
1889.00	5.38	41.06	1856.08	195.15	190.78	272.90	0.04	37	3	4.845	107	34	17.351	
1920.00	5.38	41.31	1886.94	197.33	192.70	275.80	0.08	37	3	4.867	107	34	17.327	
1957.00	5.37	42.51	1923.78	199.91	195.01	279.27	0.31	37	3	4.892	107	34	17.298	
1983.00	5.25	42.93	1949.67	201.68	196.64	281.67	0.49	37	3	4.910	107	34	17.278	
2014.00	5.44	44.06	1980.53	203.78	198.63	284.56	0.70	37	3	4.931	107	34	17.254	
2045.00	5.00	45.18	2011.40	205.78	200.61	287.38	1.46	37	3	4.951	107	34	17.229	
2077.00	4.88	44.43	2043.28	207.74	202.55	290.14	0.43	37	3	4.970	107	34	17.205	
2106.00	4.31	40.43	2072.19	209.45	204.13	292.46	2.25	37	3	4.987	107	34	17.186	
2138.00	4.25	35.81	2104.10	211.33	205.60	294.83	1.09	37	3	5.005	107	34	17.168	
2169.00	4.38	35.06	2135.01	213.23	206.95	297.14	0.46	37	3	5.024	107	34	17.151	
2201.00	4.44	34.18	2166.92	215.25	208.35	299.57	0.28	37	3	5.044	107	34	17.134	
2233.00	4.50	37.18	2198.82	217.28	209.80	302.04	0.75	37	3	5.064	107	34	17.116	
2264.00	4.81	39.68	2229.72	219.25	211.37	304.54	1.19	37	3	5.084	107	34	17.097	
2296.00	5.00	40.93	2261.60	221.33	213.14	307.27	0.68	37	3	5.104	107	34	17.075	
2328.00	5.13	42.56	2293.48	223.44	215.02	310.09	0.61	37	3	5.125	107	34	17.052	
2359.00	5.38	43.31	2324.35	225.52	216.95	312.93	0.84	37	3	5.146	107	34	17.028	
2391.00	5.38	43.31	2356.21	227.70	219.01	315.93	0.00	37	3	5.167	107	34	17.002	
2422.00	5.06	41.30	2387.08	229.78	220.91	318.75	1.19	37	3	5.188	107	34	16.979	
2453.00	4.88	39.81	2417.96	231.82	222.66	321.43	0.71	37	3	5.208	107	34	16.957	
2484.00	5.06	37.31	2448.84	233.92	224.33	324.11	0.91	37	3	5.229	107	34	16.937	
2516.00	5.18	37.56	2480.72	236.19	226.07	326.94	0.38	37	3	5.251	107	34	16.915	
2547.00	5.31	36.93	2511.59	238.45	227.78	329.76	0.46	37	3	5.273	107	34	16.894	
2579.00	4.75	35.81	2543.46	240.71	229.45	332.54	1.78	37	3	5.296	107	34	16.874	
2611.00	4.63	31.31	2575.36	242.88	230.89	335.11	1.21	37	3	5.317	107	34	16.856	
2642.00	4.88	32.26	2606.25	245.07	232.25	337.63	0.85	37	3	5.339	107	34	16.839	



Weatherford International Ltd.

WFT Survey Report Lat, Long



Company: XTO
Field: La Plata County, CO (NAD 83)
Site: Henry 2-3
Well: Henry 2-3
Wellpath: 1

Date: 11/10/2010 Time: 07:51:22 Page: 3
Co-ordinate(NE) Reference: Well: Henry 2-3, True North
Vertical (TVD) Reference: SITE 6334.0
Section (VS) Reference: Well (0.00N,0.00E,43.82Azi)
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
2674.00	4.88	33.43	2638.13	247.36	233.72	340.30	0.31	37	3	5.362	107	34	16.821	
2706.00	5.06	34.31	2670.01	249.66	235.27	343.03	0.61	37	3	5.384	107	34	16.802	
2737.00	5.00	37.43	2700.89	251.86	236.86	345.72	0.90	37	3	5.406	107	34	16.782	
2768.00	5.00	42.31	2731.78	253.93	238.59	348.41	1.37	37	3	5.427	107	34	16.761	
2800.00	4.94	43.56	2763.66	255.96	240.48	351.19	0.39	37	3	5.447	107	34	16.738	
2832.00	4.94	44.18	2795.54	257.95	242.39	353.94	0.17	37	3	5.466	107	34	16.714	
2856.00	5.21	45.44	2819.44	259.45	243.88	356.06	1.22	37	3	5.481	107	34	16.696	Last Wft Svy
2906.00	4.94	45.50	2869.25	262.55	247.04	360.49	0.54	37	3	5.512	107	34	16.657	5 1/2"

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
322.00	322.00	8.625	12.257	8 5/8
2906.00	2869.25	5.500	7.875	5 1/2"

Annotation

MD ft	TVD ft	
356.00	356.00	First Wft Svy
2856.00	2819.44	Last Wft Svy
2906.00	2869.25	Proj. To Bit

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1178.41	1165.00	Ojo Alamo SS		0.00	0.00
1286.28	1267.00	Kirtland Shale		0.00	0.00
2152.94	2119.00	Fruitland Formation		0.00	0.00
2411.88	2377.00	Upper Fruitland Coal		0.00	0.00
2454.04	2419.00	Middle Fruitland Coal		0.00	0.00
2556.45	2521.00	Pictured Cliffs Tongue		0.00	0.00
2746.14	2710.00	Lower Fruitland Coal		0.00	0.00
2755.17	2719.00	Pictured Cliffs		0.00	0.00