



Weatherford International Ltd.

WFT Survey Report

**Weatherford**

Company: Devon Energy	Date: 1/13/2010	Time: 16:34:23	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: #12H, Grid:North		
Site: North Pure Gold 8 Federal #12H	Vertical (TVD) Reference: SITE 3344.0		
Well: #12H	Section (VS) Reference: Well (0.00N,0.00E,0.85Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy	Start Date: 12/8/2009
Company: Weatherford International Ltd.	Engineer: Russell W Joyner
Tool: MWD;MWD - Standard	Tied-to: User Defined

Field: Eddy Co., NM (NAD 83)	
Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Eastern Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf200510

Site: North Pure Gold 8 Federal #12H			
2080' FSL 2300' FEL of Sec 8, T23S, R31E			
Site Position:	Northing: 479643.20 ft	Latitude: 32 19 2.917 N	
From: Map	Easting: 706468.70 ft	Longitude: 103 47 55.642 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 3319.00 ft		Grid Convergence: 0.29 deg	

Well: #12H	Slot Name:		
Well Position: +N/-S 0.00 ft	Northing: 479643.20 ft	Latitude: 32 19 2.917 N	
+E/-W 0.00 ft	Easting: 706468.70 ft	Longitude: 103 47 55.642 W	
Position Uncertainty: 0.00 ft			

Wellpath: 1	Drilled From: Surface		
Current Datum: SITE	Tie-on Depth: 0.00 ft		
Magnetic Data: 10/6/2009	Above System Datum: Mean Sea Level		
Field Strength: 48872 nT	Declination: 7.89 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.29 deg		
ft	+N/-S ft	+E/-W ft	Direction deg
0.00	0.00	0.00	0.85

Survey										
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
7176.00	0.31	214.74	7172.24	-108.50	18.53	-108.21	0.00	0.00	0.00	Tie On Scientific First Wft Svy
7200.00	0.31	214.74	7196.24	-108.61	18.46	-108.32	0.00	0.00	0.00	
7238.00	0.88	325.64	7234.24	-108.45	18.23	-108.17	2.72	1.50	291.84	
7269.00	2.06	5.89	7265.23	-107.70	18.16	-107.42	4.84	3.81	129.84	
7301.00	4.13	3.01	7297.18	-105.98	18.28	-105.69	6.48	6.47	-9.00	
7332.00	6.75	1.14	7328.04	-103.04	18.37	-102.76	8.47	8.45	-6.03	
7363.00	9.38	359.64	7358.73	-98.69	18.39	-98.41	8.51	8.48	-4.84	
7395.00	11.88	359.64	7390.18	-92.79	18.35	-92.51	7.81	7.81	0.00	
7426.00	14.63	0.14	7420.35	-85.68	18.34	-85.40	8.88	8.87	1.61	
7458.00	17.63	1.14	7451.09	-76.79	18.45	-76.51	9.41	9.37	3.12	
7489.00	20.63	2.14	7480.37	-66.64	18.75	-66.35	9.73	9.68	3.23	
7521.00	23.75	1.64	7510.00	-54.56	19.14	-54.27	9.77	9.75	-1.56	
7552.00	27.00	1.14	7538.00	-41.28	19.46	-40.99	10.51	10.48	-1.61	
7583.00	30.13	1.64	7565.23	-26.47	19.82	-26.17	10.13	10.10	1.61	
7615.00	33.50	1.64	7592.41	-9.61	20.31	-9.30	10.53	10.53	0.00	
7646.00	37.00	0.64	7617.73	8.28	20.65	8.58	11.44	11.29	-3.23	
7678.00	40.38	0.14	7642.70	28.28	20.79	28.58	10.61	10.56	-1.56	
7709.00	43.88	0.64	7665.69	49.07	20.93	49.37	11.34	11.29	1.61	
7740.00	47.13	1.64	7687.41	71.17	21.38	71.48	10.73	10.48	3.23	
7772.00	50.25	2.64	7708.53	95.19	22.28	95.51	10.03	9.75	3.12	
7803.00	54.25	3.14	7727.51	119.66	23.52	120.00	12.97	12.90	1.61	
7835.00	58.00	2.64	7745.34	146.19	24.86	146.55	11.79	11.72	-1.56	
7866.00	61.50	1.64	7760.96	172.95	25.85	173.31	11.63	11.29	-3.23	
7897.00	65.75	0.64	7774.72	200.71	26.40	201.08	14.01	13.71	-3.23	



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Site: North Pure Gold 8 Federal #12H	Vertical (TVD) Reference:	SITE 3344.0	
Well: #12H	Section (VS) Reference:	Well (0.00N,0.00E,0.85Azi)	
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	Build deg/100ft	Turn deg/100ft	Comment
7929.00	69.50	0.14	7786.90	230.30	26.60	230.67	11.81	11.72	-1.56	
7960.00	71.75	359.64	7797.19	259.54	26.54	259.90	7.42	7.26	-1.61	
7992.00	73.88	359.14	7806.64	290.11	26.22	290.46	6.82	6.66	-1.56	
8023.00	75.75	359.14	7814.76	320.02	25.77	320.37	6.03	6.03	0.00	
8054.00	77.50	359.64	7821.93	350.18	25.45	350.51	5.86	5.65	1.61	
8086.00	79.63	359.64	7828.28	381.54	25.25	381.87	6.66	6.66	0.00	
8117.00	82.13	0.14	7833.19	412.14	25.19	412.47	8.22	8.06	1.61	
8149.00	82.25	0.14	7837.54	443.85	25.27	444.17	0.37	0.37	0.00	
8180.00	82.00	0.14	7841.78	474.55	25.34	474.88	0.81	-0.81	0.00	
8211.00	84.13	0.64	7845.53	505.32	25.55	505.65	7.06	6.87	1.61	
8246.00	86.90	1.70	7848.26	540.21	26.27	540.54	8.47	7.91	3.03	
8278.00	87.70	2.00	7849.77	572.15	27.30	572.50	2.67	2.50	0.94	
8309.00	88.80	1.70	7850.72	603.12	28.30	603.48	3.68	3.55	-0.97	
8341.00	89.60	1.30	7851.17	635.11	29.14	635.47	2.80	2.50	-1.25	
8372.00	90.20	1.10	7851.22	666.10	29.78	666.47	2.04	1.94	-0.65	
8403.00	91.20	0.80	7850.84	697.09	30.30	697.47	3.37	3.23	-0.97	
8435.00	91.40	0.40	7850.11	729.08	30.63	729.46	1.40	0.62	-1.25	
8529.00	90.10	359.70	7848.88	823.07	30.72	823.44	1.57	-1.38	-0.74	
8623.00	90.30	359.20	7848.56	917.07	29.81	917.41	0.57	0.21	-0.53	
8717.00	91.40	359.40	7847.16	1011.05	28.66	1011.36	1.19	1.17	0.21	
8811.00	91.10	0.30	7845.11	1105.03	28.42	1105.33	1.01	-0.32	0.96	
8906.00	89.10	359.90	7844.95	1200.02	28.58	1200.31	2.15	-2.11	-0.42	
9000.00	89.50	359.40	7846.09	1294.01	28.01	1294.28	0.68	0.43	-0.53	
9094.00	90.10	359.00	7846.42	1388.00	26.70	1388.24	0.77	0.64	-0.43	
9188.00	90.60	0.80	7845.85	1481.99	26.53	1482.22	1.99	0.53	1.91	
9283.00	88.10	0.40	7846.93	1576.98	27.53	1577.21	2.67	-2.63	-0.42	
9377.00	90.00	1.30	7848.48	1670.95	28.92	1671.19	2.24	2.02	0.96	
9471.00	88.30	0.40	7849.88	1764.92	30.32	1765.18	2.05	-1.81	-0.96	
9565.00	88.60	359.40	7852.42	1858.89	30.15	1859.13	1.11	0.32	-1.06	
9659.00	87.90	357.80	7855.29	1952.81	27.86	1953.01	1.86	-0.74	-1.70	
9753.00	89.40	356.90	7857.51	2046.68	23.51	2046.80	1.86	1.60	-0.96	
9848.00	90.60	357.30	7857.51	2141.56	18.71	2141.60	1.33	1.26	0.42	
9942.00	91.20	358.00	7856.03	2235.46	14.85	2235.44	0.98	0.64	0.74	
10036.00	92.10	359.50	7853.32	2329.40	12.80	2329.33	1.86	0.96	1.60	
10130.00	91.60	1.30	7850.29	2423.34	13.46	2423.28	1.99	-0.53	1.91	
10225.00	90.90	1.50	7848.22	2518.29	15.78	2518.25	0.77	-0.74	0.21	
10319.00	90.00	0.60	7847.48	2612.27	17.50	2612.24	1.35	-0.96	-0.96	
10413.00	90.10	359.70	7847.40	2706.27	17.75	2706.24	0.96	0.11	-0.96	
10507.00	89.60	358.90	7847.64	2800.26	16.60	2800.20	1.00	-0.53	-0.85	
10513.00	89.60	358.90	7847.68	2806.26	16.48	2806.20	0.00	0.00	0.00	Last Svy
10560.00	89.60	358.90	7848.01	2853.25	15.58	2853.17	0.00	0.00	0.00	Ext. TD

Annotation

MD ft	TVD ft	
7176.00	7172.24	Tie On Scientific
7200.00	7196.24	First Wft Svy
10513.00	7847.68	Last Svy
10560.00	7848.01	Ext. TD