

XTO Energy

LaPlata County Directionals

Tiffany 2 #3

Tiffany 2 #3

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Plan: Permitted Wellbore

Standard Planning Report

20 July, 2010

XTO Energy Inc.

Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Tiffany 2 #3
Company:	XTO Energy	TVD Reference:	Rig KB @ 6294.0ft (Aztec 507)
Project:	LaPlata County Directionals	MD Reference:	Rig KB @ 6294.0ft (Aztec 507)
Site:	Tiffany 2 #3	North Reference:	True
Well:	Tiffany 2 #3	Survey Calculation Method:	Minimum Curvature
Wellbore:	Tiffany 2 #3		
Design:	Permitted Wellbore		

Project	LaPlata County Directionals, LaPlata County, Colorado, Directional Fruitland Coal Wells		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Southern Zone		

Site	Tiffany 2 #3, Sec. 2, T32N, R07W			
Site Position:		Northing:	1,143,385.41 ft	Latitude: 37° 2' 31.222 N
From:	Lat/Long	Easting:	2,394,899.35 ft	Longitude: 107° 34' 23.736 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence: -1.27 °

Well	Tiffany 2 #3, Basin Fruitland Coal: SHL:1110' FSL & 1295' FEL, Sec 2, T32N, R07W			
Well Position	+N/-S	0.0 ft	Northing:	1,143,385.41 ft
	+E/-W	0.0 ft	Easting:	2,394,899.35 ft
Position Uncertainty		0.0 ft	Wellhead Elevation:	6,282.0 ft
			Ground Level:	6,282.0 ft

Wellbore	Tiffany 2 #3				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/23/2006	10.45	63.88	51,446

Design	Permitted Wellbore			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	35.95

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,642.9	40.00	35.95	1,552.3	310.0	224.9	3.50	3.50	0.00	35.95	
2,050.0	40.00	35.95	1,864.1	521.9	378.5	0.00	0.00	0.00	0.00	
2,907.1	10.00	35.95	2,632.1	811.8	588.8	3.50	-3.50	0.00	180.00	
3,229.9	10.00	35.95	2,950.0	857.1	621.7	0.00	0.00	0.00	0.00	Proposed BHL -- Tiffa

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Well:	Tiffany 2 #3	Survey Calculation Method:	Minimum Curvature
Wellbore:	Tiffany 2 #3		
Design:	Permitted Wellbore		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
225.0	0.00	0.00	225.0	0.0	0.0	0.0	0.00	0.00	0.00
8 5/8"									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	3.50	35.95	599.9	2.5	1.8	3.1	3.50	3.50	0.00
700.0	7.00	35.95	699.5	9.9	7.2	12.2	3.50	3.50	0.00
800.0	10.50	35.95	798.3	22.2	16.1	27.4	3.50	3.50	0.00
900.0	14.00	35.95	896.0	39.4	28.6	48.6	3.50	3.50	0.00
1,000.0	17.50	35.95	992.3	61.3	44.5	75.8	3.50	3.50	0.00
1,100.0	21.00	35.95	1,086.7	88.0	63.8	108.7	3.50	3.50	0.00
1,200.0	24.50	35.95	1,178.9	119.3	86.5	147.4	3.50	3.50	0.00
1,300.0	28.00	35.95	1,268.5	155.1	112.5	191.6	3.50	3.50	0.00
1,325.5	28.89	35.95	1,291.0	165.0	119.7	203.8	3.50	3.50	0.00
Ojo Alamo SS									
1,400.0	31.50	35.95	1,355.3	195.3	141.6	241.2	3.50	3.50	0.00
1,425.5	32.39	35.95	1,377.0	206.2	149.6	254.7	3.50	3.50	0.00
Kirtland Shale									
1,500.0	35.00	35.95	1,439.0	239.7	173.8	296.1	3.50	3.50	0.00
1,600.0	38.50	35.95	1,519.1	288.1	208.9	355.9	3.50	3.50	0.00
1,602.5	38.59	35.95	1,521.0	289.3	209.8	357.4	3.50	3.50	0.00
Farmington SS									
1,642.9	40.00	35.95	1,552.3	310.0	224.9	383.0	3.50	3.50	0.00
1,700.0	40.00	35.95	1,596.0	339.8	246.4	419.7	0.00	0.00	0.00
1,800.0	40.00	35.95	1,672.6	391.8	284.2	484.0	0.00	0.00	0.00
1,900.0	40.00	35.95	1,749.2	443.8	321.9	548.3	0.00	0.00	0.00
2,000.0	40.00	35.95	1,825.8	495.9	359.7	612.6	0.00	0.00	0.00
2,050.0	40.00	35.95	1,864.1	521.9	378.5	644.7	0.00	0.00	0.00
2,100.0	38.25	35.95	1,902.9	547.4	397.0	676.2	3.50	-3.50	0.00
2,200.0	34.75	35.95	1,983.3	595.6	432.0	735.7	3.50	-3.50	0.00
2,300.0	31.25	35.95	2,067.2	639.6	463.9	790.2	3.50	-3.50	0.00
2,400.0	27.75	35.95	2,154.2	679.5	492.8	839.4	3.50	-3.50	0.00
2,452.5	25.91	35.95	2,201.0	698.7	506.7	863.1	3.50	-3.50	0.00
Fruitland Formation									
2,500.0	24.25	35.95	2,244.0	715.0	518.6	883.2	3.50	-3.50	0.00
2,600.0	20.75	35.95	2,336.4	745.9	541.0	921.5	3.50	-3.50	0.00
2,700.0	17.25	35.95	2,431.0	772.3	560.2	954.1	3.50	-3.50	0.00
2,706.3	17.03	35.95	2,437.0	773.8	561.2	955.9	3.50	-3.50	0.00
Upper Fruitland Coal									
2,800.0	13.75	35.95	2,527.3	793.9	575.8	980.8	3.50	-3.50	0.00
2,820.2	13.04	35.95	2,547.0	797.7	578.6	985.5	3.50	-3.50	0.00
Middle Fruitland Coal									
2,898.9	10.29	35.95	2,624.0	810.6	587.9	1,001.4	3.50	-3.50	0.00
Pictured Cliffs Tongue									
2,907.1	10.00	35.95	2,632.1	811.8	588.8	1,002.8	3.50	-3.50	0.00
3,000.0	10.00	35.95	2,723.6	824.8	598.3	1,018.9	0.00	0.00	0.00
3,098.9	10.00	35.95	2,821.0	838.7	608.3	1,036.1	0.00	0.00	0.00
Lower Fruitland Coal									
3,100.0	10.00	35.95	2,822.1	838.9	608.4	1,036.3	0.00	0.00	0.00
3,106.0	10.00	35.95	2,828.0	839.7	609.1	1,037.4	0.00	0.00	0.00

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Project:	LaPlata County Directionals	MD Reference:	Rig KB @ 6294.0ft (Aztec 507)
Site:	Tiffany 2 #3	North Reference:	True
Well:	Tiffany 2 #3	Survey Calculation Method:	Minimum Curvature
Wellbore:	Tiffany 2 #3		
Design:	Permitted Wellbore		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Pictured Cliffs SS									
3,200.0	10.00	35.95	2,920.5	852.9	618.6	1,053.7	0.00	0.00	0.00
3,229.9	10.00	35.95	2,950.0	857.1	621.7	1,058.9	0.00	0.00	0.00
5 1/2"									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Proposed BHL -- Tiffany - plan hits target - Rectangle (sides W10.0 H10.0 D0.0)	0.00	0.00	2,950.0	857.1	621.7	1,144,228.54	2,395,539.91	37° 2' 39.696 N	107° 34' 16.068 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
225.0	225.0	8 5/8"	8-5/8	12-1/4	
3,229.9	2,950.0	5 1/2"	5-1/2	7-7/8	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,325.5	1,291.0	Ojo Alamo SS		0.00	
1,425.5	1,377.0	Kirtland Shale		0.00	
1,602.5	1,521.0	Farmington SS		0.00	
2,452.5	2,201.0	Fruitland Formation		0.00	
2,706.3	2,437.0	Upper Fruitland Coal		0.00	
2,820.2	2,547.0	Middle Fruitland Coal		0.00	
2,898.9	2,624.0	Pictured Cliffs Tongue		0.00	
3,098.9	2,821.0	Lower Fruitland Coal		0.00	
3,106.0	2,828.0	Pictured Cliffs SS		0.00	



Well Name: Tiffany 2 #3

San Juan Division
Drilling Department

Calculation Method: Minimum Curvature
Geodetic Datum: North American Datum 1983
Lat: 37° 2' 31.222 N
Long: 107° 34' 23.736 W



Azimuths to True North
Magnetic North: 10.45°

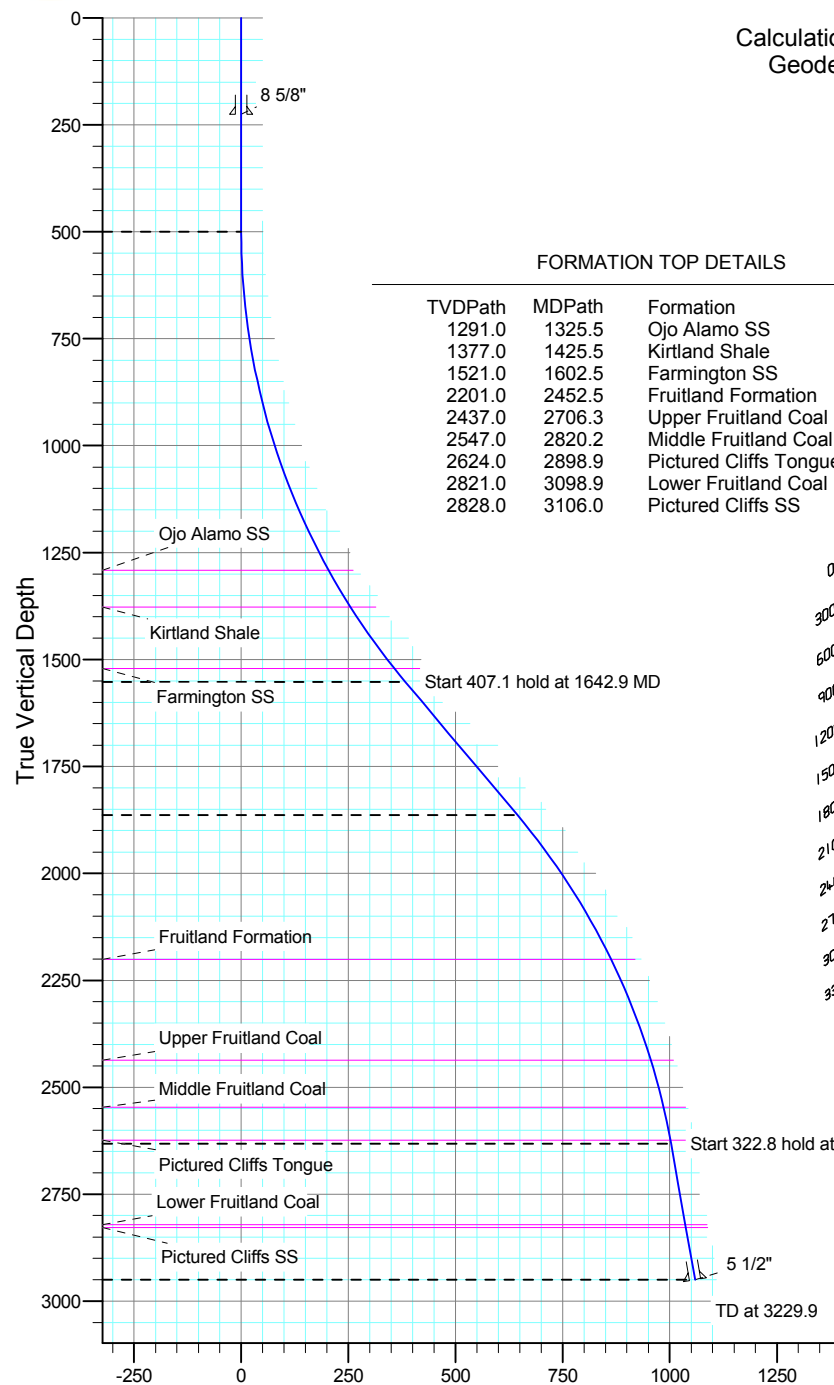
Magnetic Field
Strength: 51445.8snT
Dip Angle: 63.88°
Date: 6/23/2006
Model: IGRF200510

FORMATION TOP DETAILS

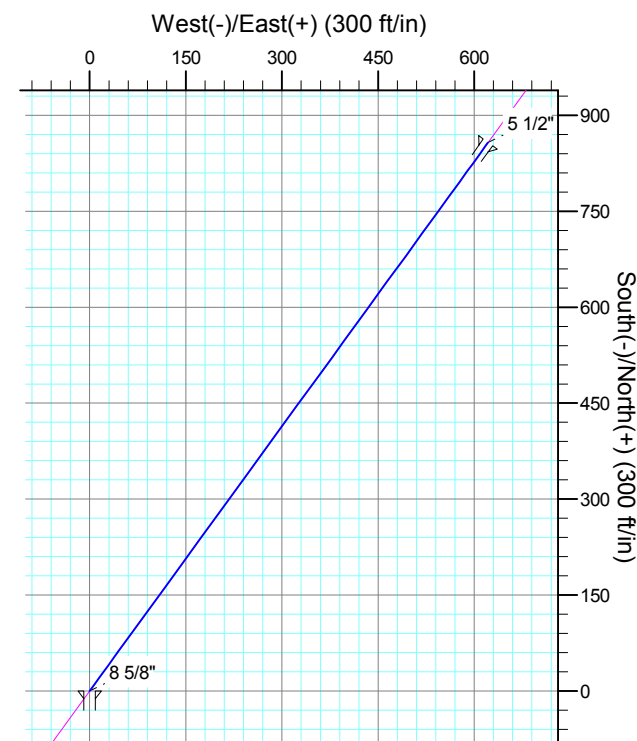
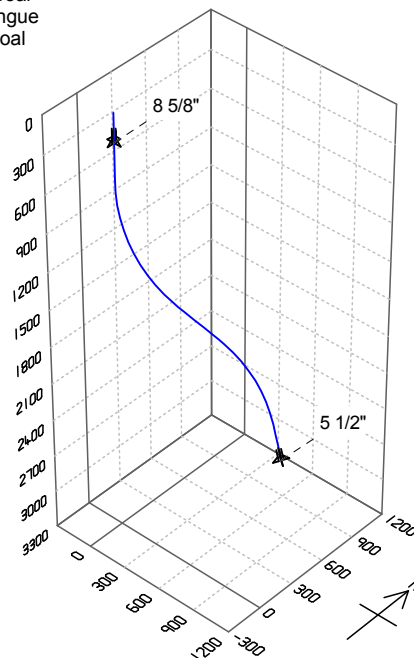
TVDPPath	MDPath	Formation
1291.0	1325.5	Ojo Alamo SS
1377.0	1425.5	Kirtland Shale
1521.0	1602.5	Farmington SS
2201.0	2452.5	Fruitland Formation
2437.0	2706.3	Upper Fruitland Coal
2547.0	2820.2	Middle Fruitland Coal
2624.0	2898.9	Pictured Cliffs Tongue
2821.0	3098.9	Lower Fruitland Coal
2828.0	3106.0	Pictured Cliffs SS

CASING DETAILS

TVD	MD	Name	Size
225.0	225.0	8 5/8"	8-5/8
2950.0	3229.9	5 1/2"	5-1/2



Vertical Section at 35.95°



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	1642.9	40.00	35.95	1552.3	310.0	224.9	3.50	35.95	383.0	
4	2050.0	40.00	35.95	1864.1	521.9	378.5	0.00	0.00	644.7	
5	2907.1	10.00	35.95	2632.1	811.8	588.8	3.50	180.00	1002.8	
6	3229.9	10.00	35.95	2950.0	857.1	621.7	0.00	0.00	1058.9	Proposed BHL -- Tiffany 2 #3