

XTO Energy

LaPlata County Directionals

Hocker #3-35

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Plan: Permitted Wellbore

Standard Planning Report

15 March, 2011

XTO Energy Inc.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Hocker #3-35
Company:	XTO Energy	TVD Reference:	Rig KB @ 6328.0ft (Aztec 507)
Project:	LaPlata County Directionals	MD Reference:	Rig KB @ 6328.0ft (Aztec 507)
Site:	Hocker #3-35	North Reference:	True
Well:	Hocker #3-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hocker #3-35		
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		Hocker #3-35, 33N, 7W			
Site Position:		Northing:	1,148,508.33 ft	Latitude:	37° 3' 21.888 N
From:	Lat/Long	Easting:	2,395,030.58 ft	Longitude:	107° 34' 23.520 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	-1.27 °

Well	Hocker #3-35, S-well to top of FC					
Well Position	+N/-S	0.0 ft	Northing:	1,148,508.33 ft	Latitude:	37° 3' 21.888 N
	+E/-W	0.0 ft	Easting:	2,395,030.58 ft	Longitude:	107° 34' 23.520 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	6,316.0 ft	Ground Level:	6,316.0 ft

Wellbore	Hocker #3-35				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10.02	63.82	51,116

Design	Permitted Wellbore			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	29.81

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	
360.0	0.00	0.00	360.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,526.7	35.00	29.81	1,455.5	299.7	171.7	3.00	3.00	0.00	29.81	
1,838.7	35.00	29.81	1,711.0	455.0	260.7	0.00	0.00	0.00	0.00	
2,672.0	10.00	29.81	2,474.8	729.5	418.0	3.00	-3.00	0.00	180.00	
3,002.2	10.00	29.81	2,800.0	779.2	446.5	0.00	0.00	0.00	0.00	Proposed BHL -- Hock

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Well:	Hocker #3-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hocker #3-35		
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
360.0	0.00	0.00	360.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.20	29.81	400.0	0.4	0.2	0.4	3.00	3.00	0.00
500.0	4.20	29.81	499.9	4.5	2.5	5.1	3.00	3.00	0.00
600.0	7.20	29.81	599.4	13.1	7.5	15.1	3.00	3.00	0.00
700.0	10.20	29.81	698.2	26.2	15.0	30.2	3.00	3.00	0.00
800.0	13.20	29.81	796.1	43.8	25.1	50.5	3.00	3.00	0.00
900.0	16.20	29.81	892.8	65.8	37.7	75.8	3.00	3.00	0.00
1,000.0	19.20	29.81	988.1	92.2	52.8	106.2	3.00	3.00	0.00
1,100.0	22.20	29.81	1,081.6	122.8	70.4	141.6	3.00	3.00	0.00
1,160.2	24.01	29.81	1,137.0	143.3	82.1	165.2	3.00	3.00	0.00
Ojo Alamo SS									
1,200.0	25.20	29.81	1,173.2	157.7	90.4	181.8	3.00	3.00	0.00
1,264.4	27.13	29.81	1,231.0	182.4	104.5	210.2	3.00	3.00	0.00
Kirtland Shale									
1,300.0	28.20	29.81	1,262.5	196.7	112.7	226.7	3.00	3.00	0.00
1,400.0	31.20	29.81	1,349.4	239.7	137.3	276.2	3.00	3.00	0.00
1,500.0	34.20	29.81	1,433.5	286.5	164.2	330.3	3.00	3.00	0.00
1,526.7	35.00	29.81	1,455.5	299.7	171.7	345.4	3.00	3.00	0.00
1,600.0	35.00	29.81	1,515.5	336.2	192.6	387.5	0.00	0.00	0.00
1,700.0	35.00	29.81	1,597.4	385.9	221.1	444.8	0.00	0.00	0.00
1,800.0	35.00	29.81	1,679.4	435.7	249.7	502.2	0.00	0.00	0.00
1,838.7	35.00	29.81	1,711.0	455.0	260.7	524.4	0.00	0.00	0.00
1,900.0	33.16	29.81	1,761.8	484.8	277.8	558.7	3.00	-3.00	0.00
2,000.0	30.16	29.81	1,846.9	530.3	303.9	611.2	3.00	-3.00	0.00
2,100.0	27.16	29.81	1,934.7	571.9	327.7	659.2	3.00	-3.00	0.00
2,200.0	24.16	29.81	2,024.8	609.5	349.2	702.5	3.00	-3.00	0.00
2,261.2	22.33	29.81	2,081.0	630.4	361.2	726.6	3.00	-3.00	0.00
Fruitland Formation									
2,300.0	21.16	29.81	2,117.1	642.9	368.4	741.0	3.00	-3.00	0.00
2,400.0	18.16	29.81	2,211.2	672.1	385.1	774.6	3.00	-3.00	0.00
2,500.0	15.16	29.81	2,307.0	697.0	399.4	803.3	3.00	-3.00	0.00
2,528.9	14.29	29.81	2,335.0	703.4	403.0	810.6	3.00	-3.00	0.00
Upper Fruitland Coal									
2,583.4	12.66	29.81	2,388.0	714.4	409.3	823.3	3.00	-3.00	0.00
Middle Fruitland Coal									
2,600.0	12.16	29.81	2,404.2	717.5	411.1	826.9	3.00	-3.00	0.00
2,672.0	10.00	29.81	2,474.8	729.5	418.0	840.7	3.00	-3.00	0.00
2,681.3	10.00	29.81	2,484.0	730.9	418.8	842.3	0.00	0.00	0.00
Pictured Cliffs Tongue									
2,700.0	10.00	29.81	2,502.4	733.7	420.4	845.6	0.00	0.00	0.00
2,800.0	10.00	29.81	2,600.9	748.8	429.0	863.0	0.00	0.00	0.00
2,880.3	10.00	29.81	2,680.0	760.9	436.0	876.9	0.00	0.00	0.00
Lower Fruitland Coal									
2,892.5	10.00	29.81	2,692.0	762.7	437.0	879.0	0.00	0.00	0.00
Pictured Cliffs SS									
2,900.0	10.00	29.81	2,699.4	763.8	437.7	880.3	0.00	0.00	0.00
3,002.2	10.00	29.81	2,800.0	779.2	446.5	898.1	0.00	0.00	0.00

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Project:	LaPlata County Directionals	MD Reference:	Rig KB @ 6328.0ft (Aztec 507)
Site:	Hocker #3-35	North Reference:	True
Well:	Hocker #3-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hocker #3-35		
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)
5 1/2"									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Proposed BHL -- Hocker	0.00	0.00	2,800.0	779.2	446.5	1,149,277.44	2,395,494.25	37° 3' 29.592 N	107° 34' 18.012 W
- plan hits target									
- Point									

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
3,002.2	2,800.0	5 1/2"	5-1/2	7-7/8		
225.0	225.0	8 5/8"	8-5/8	12-1/4		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,160.2	1,137.0	Ojo Alamo SS		0.00		
1,264.4	1,231.0	Kirtland Shale		0.00		
2,261.2	2,081.0	Fruitland Formation		0.00		
2,528.9	2,335.0	Upper Fruitland Coal		0.00		
2,583.4	2,388.0	Middle Fruitland Coal		0.00		
2,681.3	2,484.0	Pictured Cliffs Tongue		0.00		
2,880.3	2,680.0	Lower Fruitland Coal		0.00		
2,892.5	2,692.0	Pictured Cliffs SS		0.00		



Well Name: Hocker #3-35

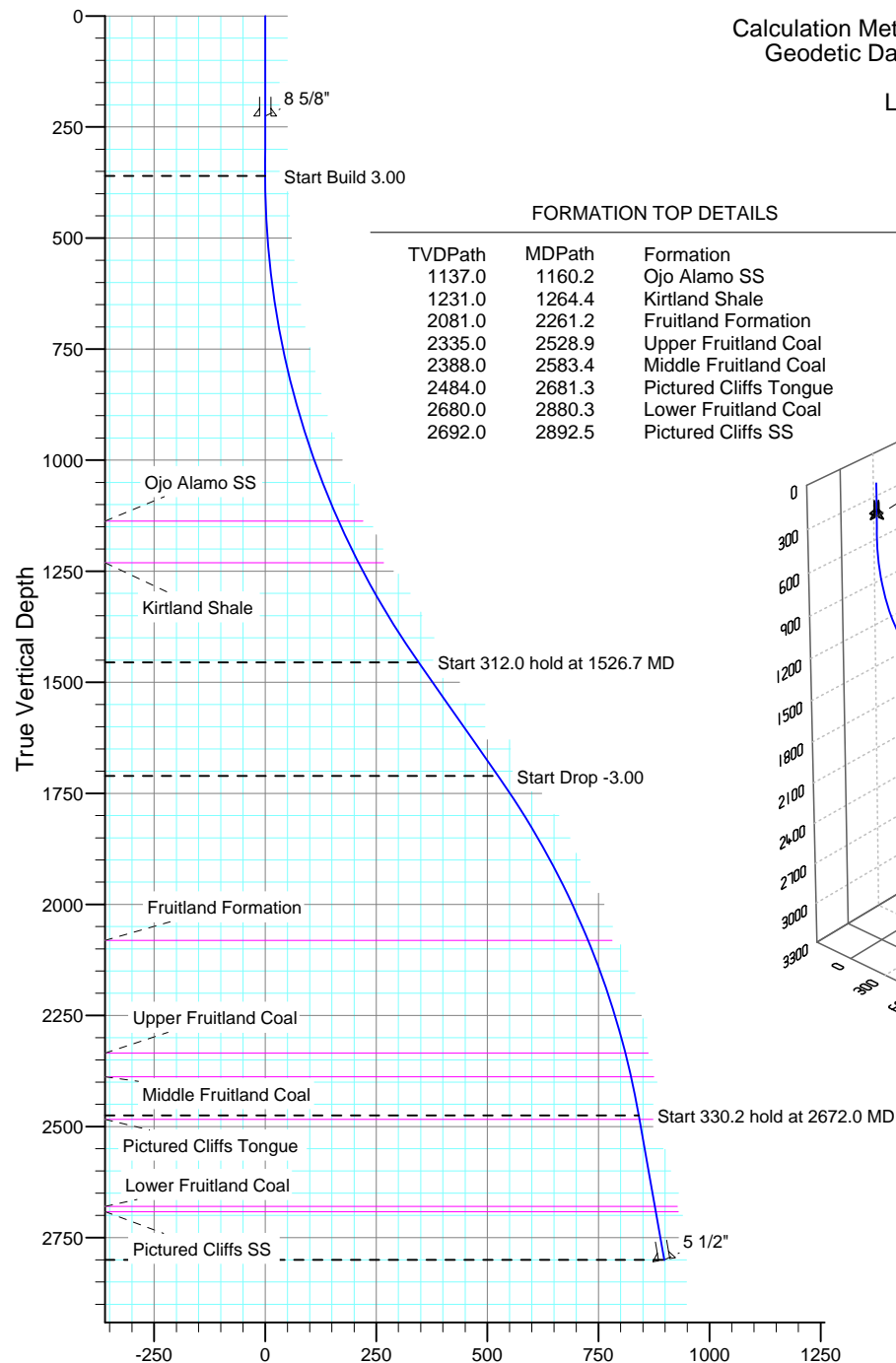
San Juan Division
Drilling Department

Calculation Method: Minimum Curvature
Geodetic Datum: North American Datum 1983
Lat: 37° 3' 21.888 N
Long: 107° 34' 23.520 W



Azimuths to True North
Magnetic North: 10.02°

Magnetic Field
Strength: 51116.4snT
Dip Angle: 63.82°
Date: 12/31/2009
Model: IGRF200510



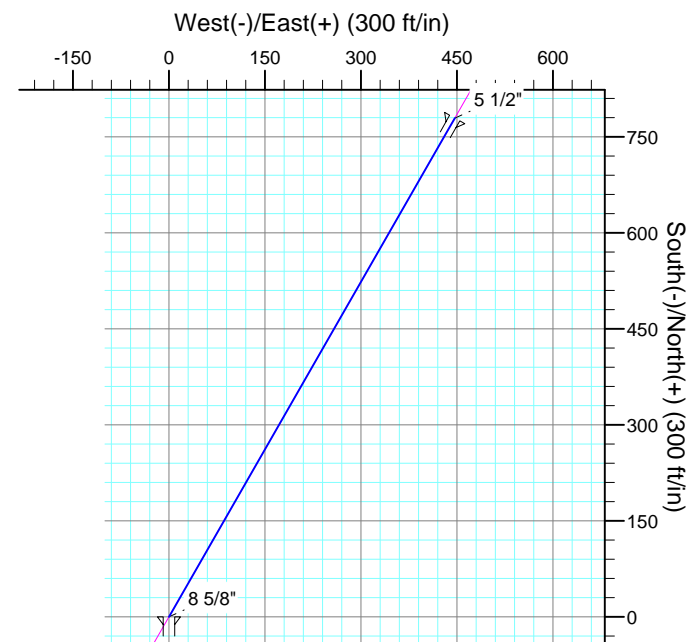
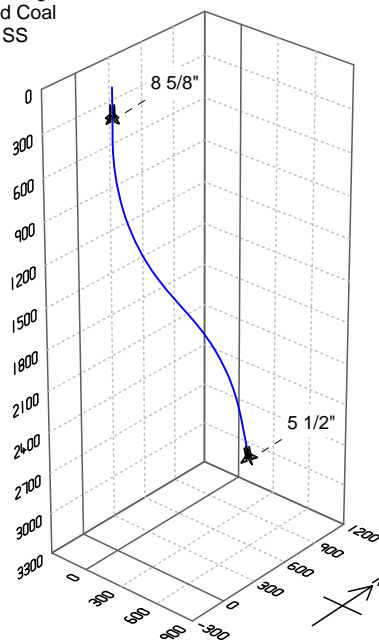
Vertical Section at 29.81°

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1137.0	1160.2	Ojo Alamo SS
1231.0	1264.4	Kirtland Shale
2081.0	2261.2	Fruitland Formation
2335.0	2528.9	Upper Fruitland Coal
2388.0	2583.4	Middle Fruitland Coal
2484.0	2681.3	Pictured Cliffs Tongue
2680.0	2880.3	Lower Fruitland Coal
2692.0	2892.5	Pictured Cliffs SS

CASING DETAILS

TVD	MD	Name	Size
225.0	225.0	8 5/8"	8-5/8
2800.0	3002.2	5 1/2"	5-1/2



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	360.0	0.00	0.00	360.0	0.0	0.0	0.00	0.00	0.0	
3	1526.7	35.00	29.81	1455.5	299.7	171.7	3.00	29.81	345.4	
4	1838.7	35.00	29.81	1711.0	455.0	260.7	0.00	0.00	524.4	
5	2672.0	10.00	29.81	2474.8	729.5	418.0	3.00	180.00	840.7	
6	3002.2	10.00	29.81	2800.0	779.2	446.5	0.00	0.00	898.1	Proposed BHL -- Hocker #3-35