

XTO Energy

LaPlata County Directionals

Hocker #4-35

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Plan: Permitted Wellbore

Standard Planning Report

18 March, 2011

XTO Energy Inc.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Hocker #4-35
Company:	XTO Energy	TVD Reference:	Rig KB @ 6355.00ft (Aztec 507)
Project:	LaPlata County Directionals	MD Reference:	Rig KB @ 6355.00ft (Aztec 507)
Site:	Hocker #4-35	North Reference:	True
Well:	Hocker #4-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hocker #4-35		
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 #4-35, T33N, R7W				
Site Position:		Northing:	1,151,816.55 ft	Latitude:	37° 3' 54.61 N
From:	Lat/Long	Easting:	2,395,139.04 ft	Longitude:	107° 34' 23.09 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	-1.27 °

Well	Hocker #4-35, S-well to top of FC					
Well Position	+N/-S	0.00 ft	Northing:	1,151,816.55 ft	Latitude:	37° 3' 54.61 N
	+E/-W	0.00 ft	Easting:	2,395,139.04 ft	Longitude:	107° 34' 23.09 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	6,343.00 ft	Ground Level:	6,343.00 ft

Wellbore	Hocker #4-35				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10.02	63.83	51,171

Design	Permitted Wellbore			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	62.58

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
360.00	0.00	0.00	360.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,193.33	25.00	62.58	1,167.14	82.41	158.83	3.00	3.00	0.00	62.58	
1,505.16	25.00	62.58	1,449.75	143.11	275.81	0.00	0.00	0.00	0.00	
2,005.16	10.00	62.58	1,925.25	212.15	408.88	3.00	-3.00	0.00	180.00	
2,949.25	10.00	62.58	2,855.00	287.66	554.40	0.00	0.00	0.00	0.00	Proposed BHL -- Hocl

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Well:	Hocker #4-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hocker #4-35		
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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
225.00	0.00	0.00	225.00	0.00	0.00	0.00	0.00	0.00	0.00	
8 5/8"										
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
360.00	0.00	0.00	360.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	1.20	62.58	400.00	0.19	0.37	0.42	3.00	3.00	0.00	
500.00	4.20	62.58	499.87	2.36	4.55	5.13	3.00	3.00	0.00	
600.00	7.20	62.58	599.37	6.94	13.37	15.06	3.00	3.00	0.00	
700.00	10.20	62.58	698.21	13.90	26.79	30.18	3.00	3.00	0.00	
800.00	13.20	62.58	796.12	23.24	44.79	50.46	3.00	3.00	0.00	
900.00	16.20	62.58	892.83	34.93	67.31	75.83	3.00	3.00	0.00	
1,000.00	19.20	62.58	988.09	48.93	94.30	106.23	3.00	3.00	0.00	
1,100.00	22.20	62.58	1,081.62	65.20	125.67	141.58	3.00	3.00	0.00	
1,193.33	25.00	62.58	1,167.14	82.41	158.83	178.94	3.00	3.00	0.00	
1,200.00	25.00	62.58	1,173.18	83.71	161.33	181.76	0.00	0.00	0.00	
1,300.00	25.00	62.58	1,263.81	103.17	198.85	224.02	0.00	0.00	0.00	
1,311.24	25.00	62.58	1,274.00	105.36	203.06	228.77	0.00	0.00	0.00	
Ojo Alamo SS										
1,382.96	25.00	62.58	1,339.00	119.32	229.97	259.08	0.00	0.00	0.00	
Kirtland Shale										
1,400.00	25.00	62.58	1,354.45	122.64	236.36	266.28	0.00	0.00	0.00	
1,505.16	25.00	62.58	1,449.75	143.11	275.81	310.72	0.00	0.00	0.00	
1,600.00	22.15	62.58	1,536.67	160.57	309.48	348.65	3.00	-3.00	0.00	
1,700.00	19.15	62.58	1,630.23	176.82	340.78	383.92	3.00	-3.00	0.00	
1,800.00	16.15	62.58	1,725.51	190.78	367.70	414.25	3.00	-3.00	0.00	
1,900.00	13.15	62.58	1,822.24	202.44	390.15	439.54	3.00	-3.00	0.00	
2,005.16	10.00	62.58	1,925.25	212.15	408.88	460.65	3.00	-3.00	0.00	
2,100.00	10.00	62.58	2,018.65	219.74	423.50	477.12	0.00	0.00	0.00	
2,200.00	10.00	62.58	2,117.13	227.74	438.92	494.48	0.00	0.00	0.00	
2,242.52	10.00	62.58	2,159.00	231.14	445.47	501.86	0.00	0.00	0.00	
Fruitland Formation										
2,300.00	10.00	62.58	2,215.61	235.73	454.33	511.85	0.00	0.00	0.00	
2,400.00	10.00	62.58	2,314.09	243.73	469.74	529.21	0.00	0.00	0.00	
2,466.93	10.00	62.58	2,380.00	249.08	480.06	540.83	0.00	0.00	0.00	
Upper Fruitland Coal										
2,500.00	10.00	62.58	2,412.57	251.73	485.16	546.58	0.00	0.00	0.00	
2,565.42	10.00	62.58	2,477.00	256.96	495.24	557.94	0.00	0.00	0.00	
Middle Fruitland Coal										
2,600.00	10.00	62.58	2,511.05	259.73	500.57	563.94	0.00	0.00	0.00	
2,628.38	10.00	62.58	2,539.00	262.00	504.94	568.87	0.00	0.00	0.00	
Pictured Cliffs Tongue										
2,700.00	10.00	62.58	2,609.53	267.72	515.98	581.30	0.00	0.00	0.00	
2,800.00	10.00	62.58	2,708.01	275.72	531.40	598.67	0.00	0.00	0.00	
2,830.45	10.00	62.58	2,738.00	278.16	536.09	603.96	0.00	0.00	0.00	
Lower Fruitland Coal										
2,842.63	10.00	62.58	2,750.00	279.13	537.97	606.07	0.00	0.00	0.00	
Pictured Cliffs SS										
2,900.00	10.00	62.58	2,806.50	283.72	546.81	616.03	0.00	0.00	0.00	
2,949.25	10.00	62.58	2,855.00	287.66	554.40	624.59	0.00	0.00	0.00	

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Project:	LaPlata County Directionals	MD Reference:	Rig KB @ 6355.00ft (Aztec 507)
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Well:	Hocker #4-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hocker #4-35		
Design:	Permitted Wellbore		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
Proposed BHL -- Hocker	0.00	0.00	2,855.00	287.66	554.40	1,152,091.84	2,395,699.69	37° 3' 57.46 N	107° 34' 16.25 W
- plan hits target									
- Rectangle (sides W10.00 H10.00 D0.00)									

Casing Points						
Measured Depth	Vertical Depth		Name	Casing Diameter	Hole Diameter	
(ft)	(ft)			(in)	(in)	
2,949.25	2,855.00	5 1/2"		5.500	7.875	
225.00	225.00	8 5/8"		8.625	12.250	

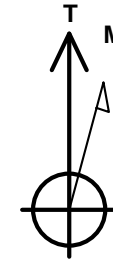
Formations						
Measured Depth	Vertical Depth		Name	Lithology	Dip	Dip Direction
(ft)	(ft)				(°)	(°)
1,311.24	1,274.00		Ojo Alamo SS		0.00	
1,382.96	1,339.00		Kirtland Shale		0.00	
2,242.52	2,159.00		Fruitland Formation		0.00	
2,466.93	2,380.00		Upper Fruitland Coal		0.00	
2,565.42	2,477.00		Middle Fruitland Coal		0.00	
2,628.38	2,539.00		Pictured Cliffs Tongue		0.00	
2,830.45	2,738.00		Lower Fruitland Coal		0.00	
2,842.63	2,750.00		Pictured Cliffs SS		0.00	



Well Name: Hocker #4-35

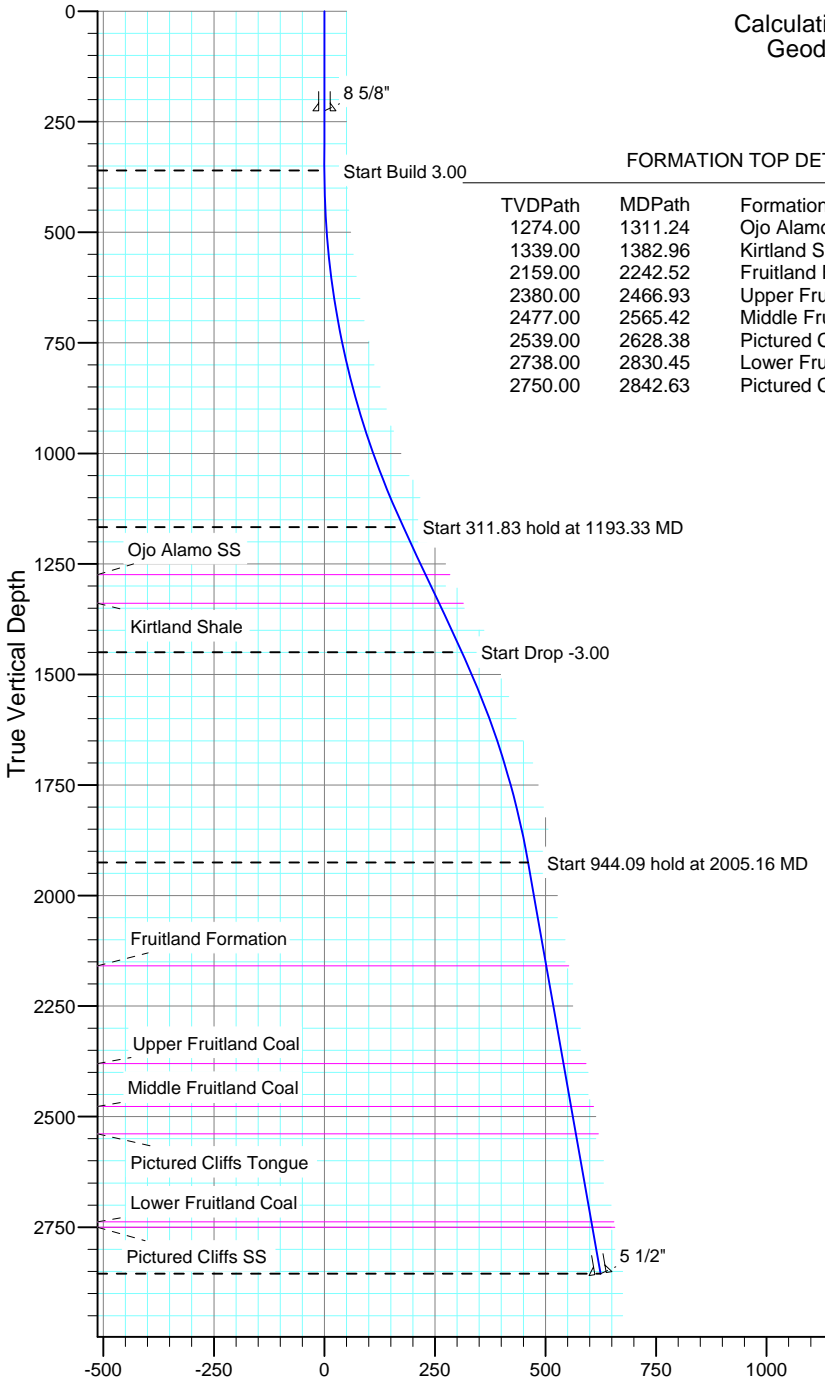
San Juan Division
Drilling Department

Calculation Method: Minimum Curvature
Geodetic Datum: North American Datum 1983
Lat: 37° 3' 54.61 N
Long: 107° 34' 23.09 W



Azimuths to True North
Magnetic North: 10.02°

Magnetic Field
Strength: 51171.2snT
Dip Angle: 63.83°
Date: 12/31/2009
Model: IGRF200510



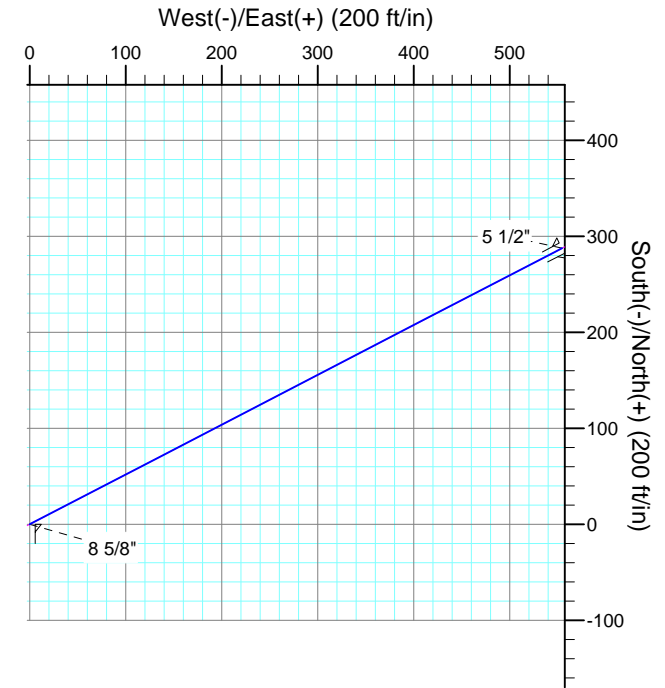
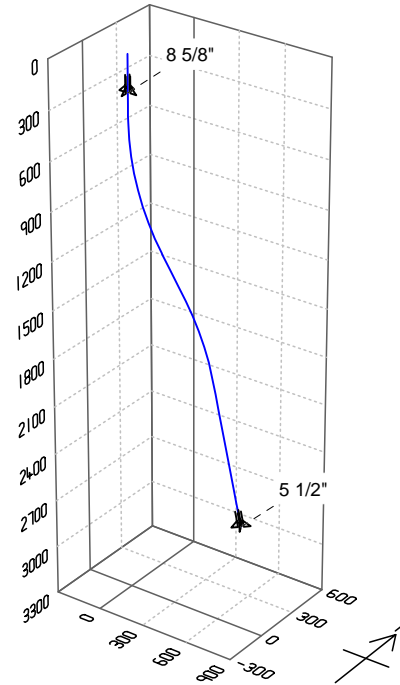
Vertical Section at 62.58°

FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
1274.00	1311.24	Ojo Alamo SS
1339.00	1382.96	Kirtland Shale
2159.00	2242.52	Fruitland Formation
2380.00	2466.93	Upper Fruitland Coal
2477.00	2565.42	Middle Fruitland Coal
2539.00	2628.38	Pictured Cliffs Tongue
2738.00	2830.45	Lower Fruitland Coal
2750.00	2842.63	Pictured Cliffs SS

CASING DETAILS

TVDP	MD	Name	Size
225.00	225.00	8 5/8"	8.625
2855.00	2949.25	5 1/2"	5.500



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	360.00	0.00	0.00	360.00	0.00	0.00	0.00	0.00	0.00	
3	1193.33	25.00	62.58	1167.14	82.41	158.83	3.00	62.58	178.94	
4	1505.16	25.00	62.58	1449.75	143.11	275.81	0.00	0.00	310.72	
5	2005.16	10.00	62.58	1925.25	212.15	408.88	3.00	180.00	460.65	
6	2949.25	10.00	62.58	2855.00	287.66	554.40	0.00	0.00	624.59	Proposed BHL -- Hocker #4-35