



Axia Energy

Mesa County, Colorado

Kimball Creek 14-2D1-995 Pad

Kimball Creek Fed 13-112D-995

Wellbore #1

Plan: plan1 16dec10 rbw

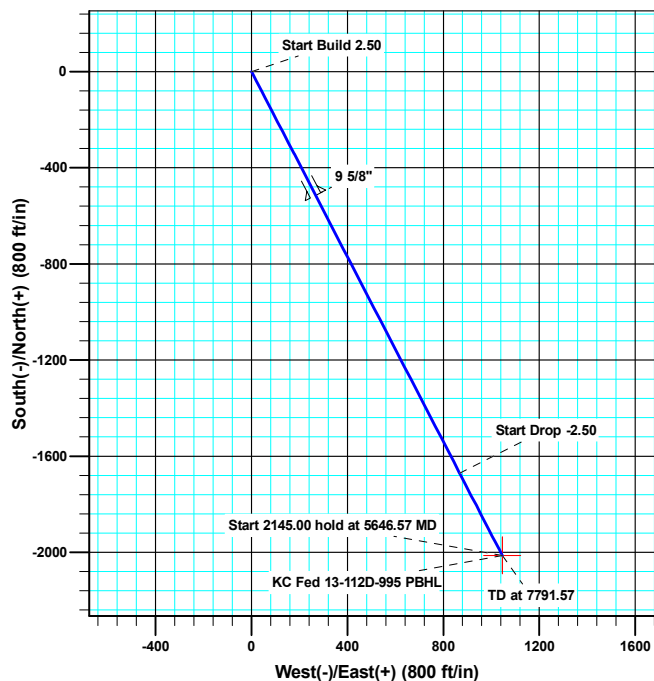
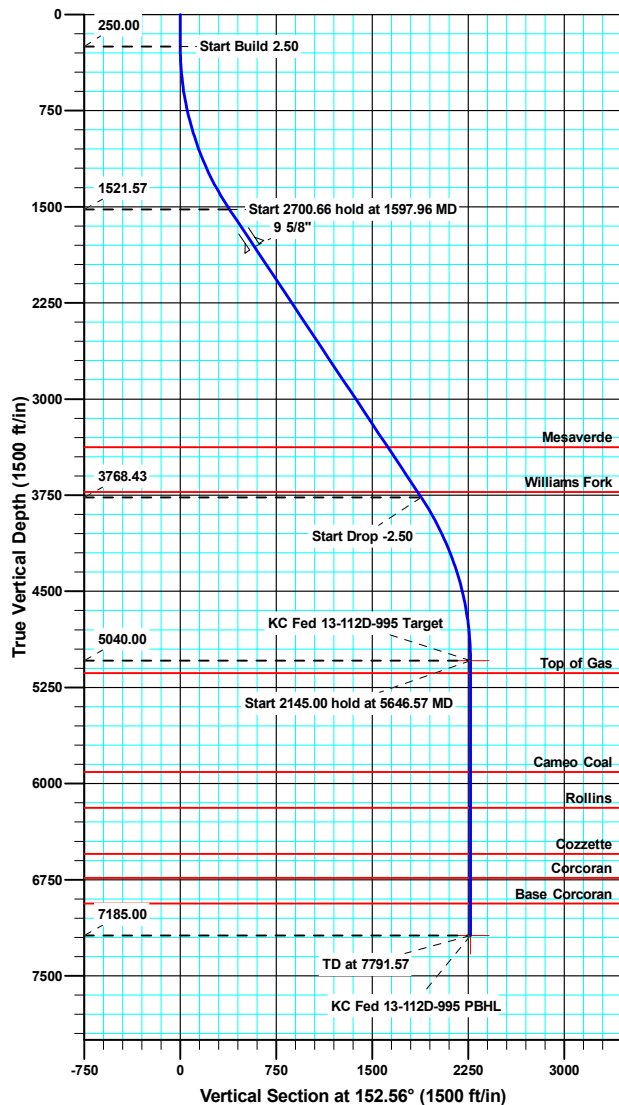
Standard Planning Report

16 December, 2010



WELL DETAILS: Kimball Creek Fed 13-112D-995

North American Datum 1983 US State Plane 1983 Colorado Central Zone
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 1536013.73 2305680.60 39° 16' 45.68 N 107° 57' 11.25 W
 Ground Level: 6874.00
 Kimball Creek 14-2D1-995 Pad



Azimuths to True North
 Magnetic North: 10.37°

Magnetic Field
 Strength: 52180.2snT
 Dip Angle: 65.58°
 Date: 12/16/2010
 Model: IGRF2010

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	
1597.96	33.70	152.56	1521.57	-341.78	177.47	2.50	152.56	385.11	
4298.62	33.70	152.56	3768.43	-1671.59	867.99	0.00	0.00	1883.51	
5646.57	0.00	0.00	5040.00	-2013.37	1045.46	2.50	180.00	2268.62	KC Fed 13-112D-995 Target
7791.57	0.00	0.00	7185.00	-2013.37	1045.46	0.00	0.00	2268.62	KC Fed 13-112D-995 PBHL



Sharewell Planning Report

Database:	CompassVM	Local Co-ordinate Reference:	Well Kimball Creek Fed 13-112D-995
Company:	Axia Energy	TVD Reference:	KB @ 6890.00ft
Project:	Mesa County, Colorado	MD Reference:	KB @ 6890.00ft
Site:	Kimball Creek 14-2D1-995 Pad	North Reference:	True
Well:	Kimball Creek Fed 13-112D-995	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 16dec10 rbw		

Project	Mesa County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	Kimball Creek 14-2D1-995 Pad			
Site Position:		Northing:	1,536,040.99 usft	Latitude: 39° 16' 45.95 N
From:	Lat/Long	Easting:	2,305,683.60 usft	Longitude: 107° 57' 11.22 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence: -1.55 °

Well	Kimball Creek Fed 13-112D-995			
Well Position	+N/-S	-27.33 ft	Northing:	1,536,013.73 usft
	+E/-W	-2.26 ft	Easting:	2,305,680.60 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Latitude: 39° 16' 45.68 N
				Longitude: 107° 57' 11.25 W
				Ground Level: 6,874.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/16/2010	10.37	65.58	52,180

Design	plan1 16dec10 rbw			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	152.56

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,597.96	33.70	152.56	1,521.57	-341.78	177.47	2.50	2.50	0.00	152.56	
4,298.62	33.70	152.56	3,768.43	-1,671.59	867.99	0.00	0.00	0.00	0.00	
5,646.57	0.00	0.00	5,040.00	-2,013.37	1,045.46	2.50	-2.50	0.00	180.00	KC Fed 13-112D-995
7,791.57	0.00	0.00	7,185.00	-2,013.37	1,045.46	0.00	0.00	0.00	0.00	KC Fed 13-112D-995



Sharewell Planning Report

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Company:	Axia Energy	TVD Reference:	KB @ 6890.00ft
Project:	Mesa County, Colorado	MD Reference:	KB @ 6890.00ft
Site:	Kimball Creek 14-2D1-995 Pad	North Reference:	True
Well:	Kimball Creek Fed 13-112D-995	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 16dec10 rbw		

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)
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	1.25	152.56	300.00	-0.48	0.25	0.55	2.50	2.50	0.00
400.00	3.75	152.56	399.89	-4.35	2.26	4.91	2.50	2.50	0.00
500.00	6.25	152.56	499.50	-12.09	6.28	13.62	2.50	2.50	0.00
600.00	8.75	152.56	598.64	-23.67	12.29	26.67	2.50	2.50	0.00
700.00	11.25	152.56	697.11	-39.08	20.29	44.04	2.50	2.50	0.00
800.00	13.75	152.56	794.74	-58.29	30.27	65.68	2.50	2.50	0.00
900.00	16.25	152.56	891.32	-81.26	42.19	91.56	2.50	2.50	0.00
1,000.00	18.75	152.56	986.69	-107.94	56.05	121.63	2.50	2.50	0.00
1,100.00	21.25	152.56	1,080.65	-138.29	71.81	155.83	2.50	2.50	0.00
1,200.00	23.75	152.56	1,173.03	-172.25	89.44	194.09	2.50	2.50	0.00
1,300.00	26.25	152.56	1,263.65	-209.76	108.92	236.35	2.50	2.50	0.00
1,400.00	28.75	152.56	1,352.35	-250.73	130.20	282.52	2.50	2.50	0.00
1,500.00	31.25	152.56	1,438.94	-295.10	153.24	332.52	2.50	2.50	0.00
1,597.96	33.70	152.56	1,521.57	-341.78	177.47	385.11	2.50	2.50	0.00
1,600.00	33.70	152.56	1,523.27	-342.78	177.99	386.24	0.00	0.00	0.00
1,700.00	33.70	152.56	1,606.47	-392.03	203.56	441.73	0.00	0.00	0.00
1,800.00	33.70	152.56	1,689.67	-441.27	229.13	497.21	0.00	0.00	0.00
1,900.00	33.70	152.56	1,772.86	-490.51	254.70	552.69	0.00	0.00	0.00
2,000.00	33.70	152.56	1,856.06	-539.75	280.27	608.17	0.00	0.00	0.00
2,100.00	33.70	152.56	1,939.26	-588.99	305.84	663.66	0.00	0.00	0.00
2,200.00	33.70	152.56	2,022.45	-638.23	331.40	719.14	0.00	0.00	0.00
2,300.00	33.70	152.56	2,105.65	-687.47	356.97	774.62	0.00	0.00	0.00
2,400.00	33.70	152.56	2,188.85	-736.71	382.54	830.11	0.00	0.00	0.00
2,500.00	33.70	152.56	2,272.04	-785.95	408.11	885.59	0.00	0.00	0.00
2,600.00	33.70	152.56	2,355.24	-835.19	433.68	941.07	0.00	0.00	0.00
2,700.00	33.70	152.56	2,438.44	-884.43	459.25	996.55	0.00	0.00	0.00
2,800.00	33.70	152.56	2,521.63	-933.67	484.81	1,052.04	0.00	0.00	0.00
2,900.00	33.70	152.56	2,604.83	-982.91	510.38	1,107.52	0.00	0.00	0.00
3,000.00	33.70	152.56	2,688.02	-1,032.15	535.95	1,163.00	0.00	0.00	0.00
3,100.00	33.70	152.56	2,771.22	-1,081.39	561.52	1,218.48	0.00	0.00	0.00
3,200.00	33.70	152.56	2,854.42	-1,130.63	587.09	1,273.97	0.00	0.00	0.00
3,300.00	33.70	152.56	2,937.61	-1,179.87	612.66	1,329.45	0.00	0.00	0.00
3,400.00	33.70	152.56	3,020.81	-1,229.11	638.23	1,384.93	0.00	0.00	0.00
3,500.00	33.70	152.56	3,104.01	-1,278.35	663.79	1,440.42	0.00	0.00	0.00
3,600.00	33.70	152.56	3,187.20	-1,327.59	689.36	1,495.90	0.00	0.00	0.00
3,700.00	33.70	152.56	3,270.40	-1,376.83	714.93	1,551.38	0.00	0.00	0.00
3,800.00	33.70	152.56	3,353.60	-1,426.07	740.50	1,606.86	0.00	0.00	0.00
3,900.00	33.70	152.56	3,436.79	-1,475.31	766.07	1,662.35	0.00	0.00	0.00
4,000.00	33.70	152.56	3,519.99	-1,524.55	791.64	1,717.83	0.00	0.00	0.00
4,100.00	33.70	152.56	3,603.19	-1,573.79	817.20	1,773.31	0.00	0.00	0.00
4,200.00	33.70	152.56	3,686.38	-1,623.03	842.77	1,828.80	0.00	0.00	0.00
4,298.62	33.70	152.56	3,768.43	-1,671.59	867.99	1,883.51	0.00	0.00	0.00
4,300.00	33.66	152.56	3,769.58	-1,672.27	868.34	1,884.28	2.50	-2.50	0.00
4,400.00	31.16	152.56	3,853.99	-1,719.84	893.04	1,937.88	2.50	-2.50	0.00
4,500.00	28.66	152.56	3,940.66	-1,764.10	916.02	1,987.74	2.50	-2.50	0.00
4,600.00	26.16	152.56	4,029.43	-1,804.95	937.24	2,033.78	2.50	-2.50	0.00
4,700.00	23.66	152.56	4,120.11	-1,842.34	956.65	2,075.91	2.50	-2.50	0.00
4,800.00	21.16	152.56	4,212.55	-1,876.17	974.22	2,114.03	2.50	-2.50	0.00
4,900.00	18.66	152.56	4,306.56	-1,906.40	989.91	2,148.09	2.50	-2.50	0.00
5,000.00	16.16	152.56	4,401.97	-1,932.96	1,003.71	2,178.02	2.50	-2.50	0.00
5,100.00	13.66	152.56	4,498.60	-1,955.80	1,015.57	2,203.75	2.50	-2.50	0.00
5,200.00	11.16	152.56	4,596.25	-1,974.88	1,025.47	2,225.25	2.50	-2.50	0.00
5,300.00	8.66	152.56	4,694.75	-1,990.16	1,033.41	2,242.46	2.50	-2.50	0.00



Sharewell Planning Report

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Company:	Axia Energy	TVD Reference:	KB @ 6890.00ft
Project:	Mesa County, Colorado	MD Reference:	KB @ 6890.00ft
Site:	Kimball Creek 14-2D1-995 Pad	North Reference:	True
Well:	Kimball Creek Fed 13-112D-995	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 16dec10 rbw		

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)	
5,400.00	6.16	152.56	4,793.90	-2,001.61	1,039.35	2,255.37	2.50	-2.50	0.00	
5,500.00	3.66	152.56	4,893.53	-2,009.21	1,043.30	2,263.93	2.50	-2.50	0.00	
5,600.00	1.16	152.56	4,993.43	-2,012.95	1,045.24	2,268.15	2.50	-2.50	0.00	
5,646.57	0.00	0.00	5,040.00	-2,013.37	1,045.46	2,268.62	2.50	-2.50	0.00	
5,700.00	0.00	0.00	5,093.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,193.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,293.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,393.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,493.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
6,200.00	0.00	0.00	5,593.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
6,300.00	0.00	0.00	5,693.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
6,400.00	0.00	0.00	5,793.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
6,500.00	0.00	0.00	5,893.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
6,600.00	0.00	0.00	5,993.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,093.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,193.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,293.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,393.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,493.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
7,200.00	0.00	0.00	6,593.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
7,300.00	0.00	0.00	6,693.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
7,400.00	0.00	0.00	6,793.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
7,500.00	0.00	0.00	6,893.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
7,600.00	0.00	0.00	6,993.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,093.43	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	
7,791.57	0.00	0.00	7,185.00	-2,013.37	1,045.46	2,268.62	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
KC Fed 13-112D-995 Ta	0.00	0.00	5,040.00	-2,013.37	1,045.46	1,533,972.87	2,306,671.31	39° 16' 25.78 N	107° 56' 57.96 W	
- plan hits target center										
- Point										
KC Fed 13-112D-995 PE	0.00	0.00	7,185.00	-2,013.37	1,045.46	1,533,972.87	2,306,671.31	39° 16' 25.78 N	107° 56' 57.96 W	
- plan hits target center										
- Point										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name			Casing Diameter (ft)	Hole Diameter (ft)
1,950.00	1,814.46	9 5/8"			0.80	1.02



Sharewell Planning Report

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Company:	Axia Energy	TVD Reference:	KB @ 6890.00ft
Project:	Mesa County, Colorado	MD Reference:	KB @ 6890.00ft
Site:	Kimball Creek 14-2D1-995 Pad	North Reference:	True
Well:	Kimball Creek Fed 13-112D-995	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 16dec10 rbw		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,825.73	3,375.00	Mesaverde		0.00	
4,246.42	3,725.00	Williams Fork		0.00	
5,746.57	5,140.00	Top of Gas		0.00	
6,516.57	5,910.00	Cameo Coal		0.00	
6,796.57	6,190.00	Rollins		0.00	
7,156.57	6,550.00	Cozzette		0.00	
7,341.57	6,735.00	Corcoran		0.00	
7,541.57	6,935.00	Base Corcoran		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
250.00	250.00	0.00	0.00	Start Build 2.50	
1,597.96	1,521.57	-341.78	177.47	Start 2700.66 hold at 1597.96 MD	
4,298.62	3,768.43	-1,671.59	867.99	Start Drop -2.50	
5,646.57	5,040.00	-2,013.37	1,045.46	Start 2145.00 hold at 5646.57 MD	
7,791.57	7,185.00	-2,013.37	1,045.46	TD at 7791.57	