

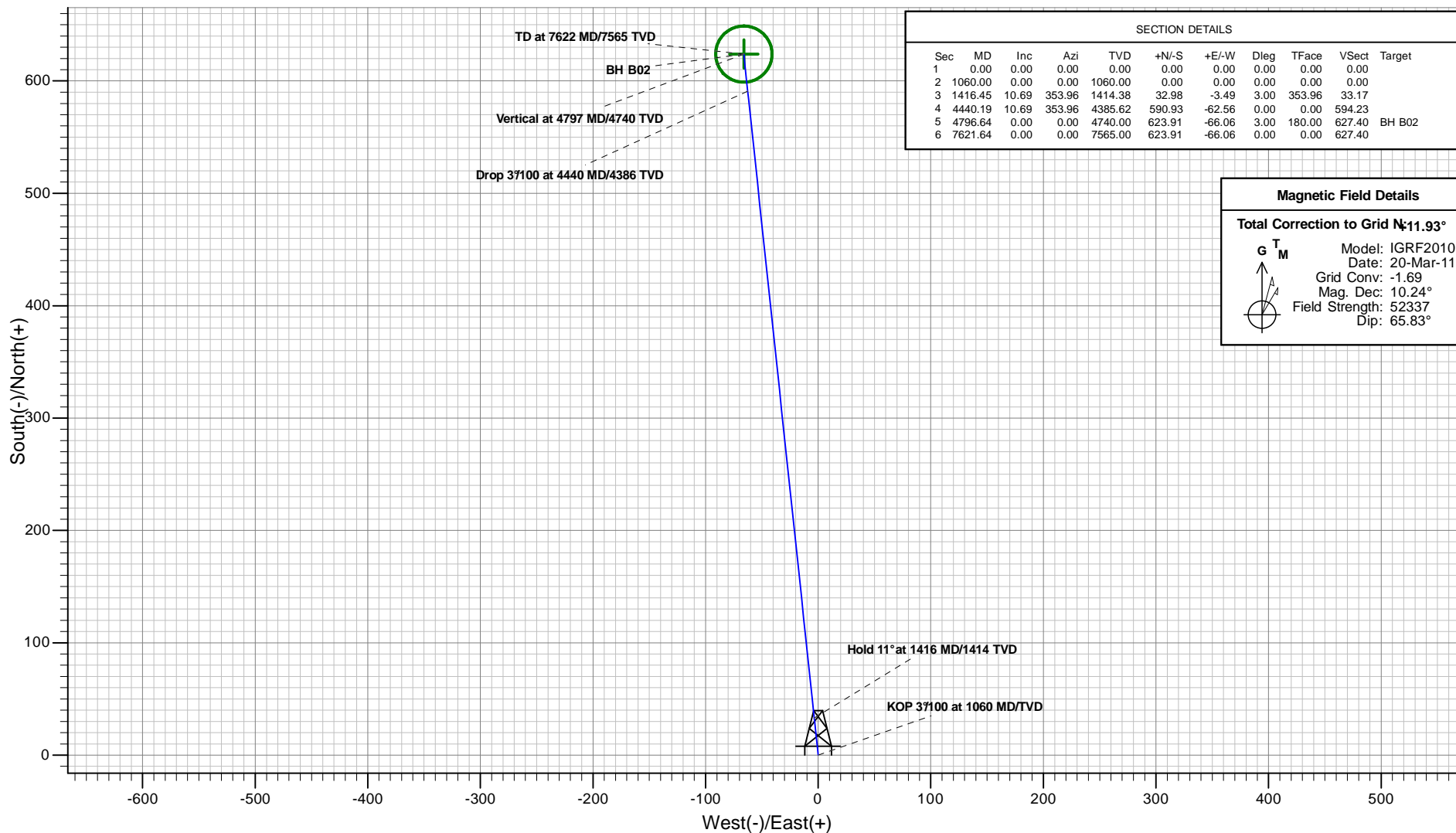


PLAN VIEW

Antero Resources

Antero Dixon B02 (111303)

Project: Dixon (NAD 83)
Site: Dixon B
Well: Antero Dixon B02 (111303)
Wellbore: Antero Dixon B02
Design: Antero Dixon B02 P01



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1060.00	0.00	0.00	1060.00	0.00	0.00	0.00	0.00	0.00	
3	1416.45	10.69	353.96	1414.38	32.98	-3.49	3.00	353.96	33.17	
4	4440.19	10.69	353.96	4385.62	590.93	-62.56	0.00	0.00	594.23	
5	4796.64	0.00	0.00	4740.00	623.91	-66.06	3.00	180.00	627.40	BH B02
6	7621.64	0.00	0.00	7565.00	623.91	-66.06	0.00	0.00	627.40	

Magnetic Field Details

Total Correction to Grid N: 11.93°

Model: IGRF2010
Date: 20-Mar-11
Grid Conv: -1.69
Mag. Dec: 10.24°
Field Strength: 52337
Dip: 65.83°



Plan: Antero Dixon B02 P01
Created By: ARK Directional Services
Date: 14:17, January 18 2011

PROJECT DETAILS: Dixon (NAD 83)
Geodetic System: Universal Transverse Mercator
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Zone 13N (108 W to 102 W)
System Datum: Mean Sea Level

REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well Antero Dixon B02 (111303) - Slot B02, Grid North
Vertical (TVD) Reference: KB @ 5544.00ft
Section (VS) Reference: Slot - B02(0.00N, 0.00E)
Measured Depth Reference: KB @ 5544.00ft
Calculation Method: Minimum Curvature

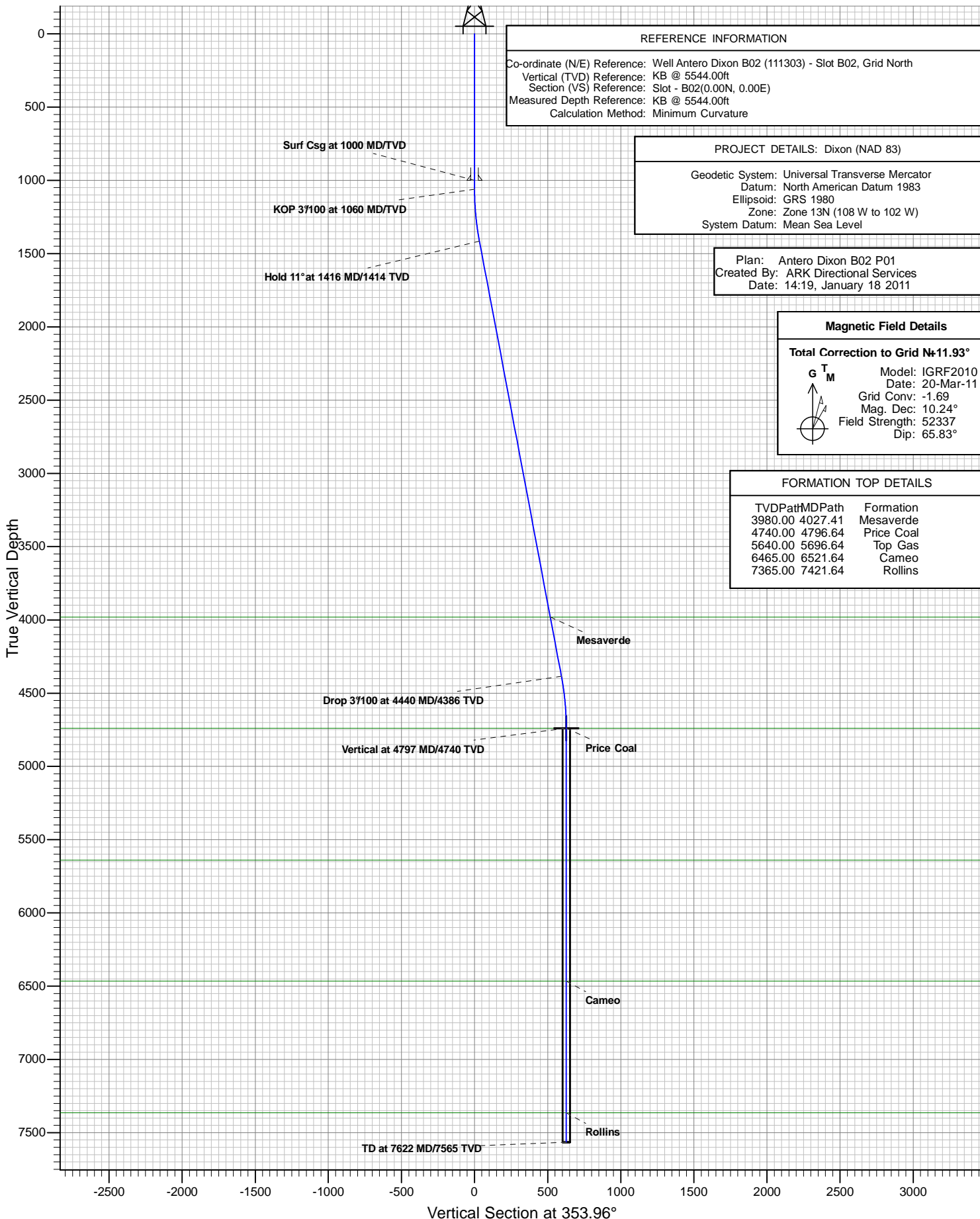


Antero Resources

Antero Dixon B02 (111303)



VERTICAL SECTION VIEW



Antero Resources

Dixon (NAD 83)

Dixon B

Antero Dixon B02 (111303) - Slot B02

Antero Dixon B02

Plan: Antero Dixon B02 P01

Standard Planning Report - Geographic

18 January, 2011

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well Antero Dixon B02 (111303) - Slot B02
Company:	Antero Resources	TVD Reference:	KB @ 5544.00ft
Project:	Dixon (NAD 83)	MD Reference:	KB @ 5544.00ft
Site:	Dixon B	North Reference:	Grid
Well:	Antero Dixon B02 (111303)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B02		
Design:	Antero Dixon B02 P01		

Project	Dixon (NAD 83)		
Map System:	Universal Transverse Mercator	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site	Dixon B				
Site Position:		Northing:	14,364,517.556 usft	Latitude:	39.524071000°N
From:	Lat/Long	Easting:	890,418.038 usft	Longitude:	107.659523000°W
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence:	-1.69 °

Well	Antero Dixon B02 (111303) - Slot B02					
Well Position	+N/-S	0.00 ft	Northing:	14,364,544.223 usft	Latitude:	39.524136338°N
	+E/-W	0.00 ft	Easting:	890,321.601 usft	Longitude:	107.659867417°W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,520.00 ft

Wellbore	Antero Dixon B02				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/03/20	10.24	65.83	52,337

Design	Antero Dixon B02 P01				
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	353.96	

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	
1,060.00	0.00	0.00	1,060.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,416.45	10.69	353.96	1,414.38	32.98	-3.49	3.00	3.00	0.00	353.96	
4,440.19	10.69	353.96	4,385.62	590.93	-62.56	0.00	0.00	0.00	0.00	
4,796.64	0.00	0.00	4,740.00	623.91	-66.06	3.00	-3.00	0.00	180.00	BH B02
7,621.64	0.00	0.00	7,565.00	623.91	-66.06	0.00	0.00	0.00	0.00	

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well Antero Dixon B02 (111303) - Slot B02
Company:	Antero Resources	TVD Reference:	KB @ 5544.00ft
Project:	Dixon (NAD 83)	MD Reference:	KB @ 5544.00ft
Site:	Dixon B	North Reference:	Grid
Well:	Antero Dixon B02 (111303)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B02		
Design:	Antero Dixon B02 P01		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,364,544.223	890,321.601	39.524136338°N	107.659867417°W
100.00	0.00	0.00	100.00	0.00	0.00	14,364,544.223	890,321.601	39.524136338°N	107.659867417°W
200.00	0.00	0.00	200.00	0.00	0.00	14,364,544.223	890,321.601	39.524136338°N	107.659867417°W
300.00	0.00	0.00	300.00	0.00	0.00	14,364,544.223	890,321.601	39.524136338°N	107.659867417°W
400.00	0.00	0.00	400.00	0.00	0.00	14,364,544.223	890,321.601	39.524136338°N	107.659867417°W
500.00	0.00	0.00	500.00	0.00	0.00	14,364,544.223	890,321.601	39.524136338°N	107.659867417°W
600.00	0.00	0.00	600.00	0.00	0.00	14,364,544.223	890,321.601	39.524136338°N	107.659867417°W
700.00	0.00	0.00	700.00	0.00	0.00	14,364,544.223	890,321.601	39.524136338°N	107.659867417°W
800.00	0.00	0.00	800.00	0.00	0.00	14,364,544.223	890,321.601	39.524136338°N	107.659867417°W
900.00	0.00	0.00	900.00	0.00	0.00	14,364,544.223	890,321.601	39.524136338°N	107.659867417°W
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,364,544.223	890,321.601	39.524136338°N	107.659867417°W
Surf Csg at 1000 MD/TVD									
1,060.00	0.00	0.00	1,060.00	0.00	0.00	14,364,544.223	890,321.601	39.524136338°N	107.659867417°W
KOP 3°/100 at 1060 MD/TVD									
1,100.00	1.20	353.96	1,100.00	0.42	-0.04	14,364,544.639	890,321.557	39.524137477°N	107.659867617°W
1,200.00	4.20	353.96	1,199.87	5.10	-0.54	14,364,549.323	890,321.061	39.524150287°N	107.659869864°W
1,300.00	7.20	353.96	1,299.37	14.98	-1.59	14,364,559.199	890,320.015	39.524177296°N	107.659874602°W
1,400.00	10.20	353.96	1,398.21	30.02	-3.18	14,364,574.239	890,318.423	39.524218429°N	107.659881818°W
1,416.45	10.69	353.96	1,414.38	32.98	-3.49	14,364,577.205	890,318.109	39.524226540°N	107.659883241°W
Hold 11° at 1416 MD/1414 TVD									
1,500.00	10.69	353.96	1,496.48	48.40	-5.12	14,364,592.622	890,316.477	39.524268704°N	107.659890638°W
1,600.00	10.69	353.96	1,594.75	66.85	-7.08	14,364,611.074	890,314.523	39.524319168°N	107.659899491°W
1,700.00	10.69	353.96	1,693.01	85.30	-9.03	14,364,629.527	890,312.569	39.524369633°N	107.659908344°W
1,800.00	10.69	353.96	1,791.27	103.76	-10.99	14,364,647.979	890,310.616	39.524420097°N	107.659917198°W
1,900.00	10.69	353.96	1,889.54	122.21	-12.94	14,364,666.431	890,308.662	39.524470561°N	107.659926051°W
2,000.00	10.69	353.96	1,987.80	140.66	-14.89	14,364,684.883	890,306.709	39.524521026°N	107.659934904°W
2,100.00	10.69	353.96	2,086.06	159.11	-16.85	14,364,703.335	890,304.755	39.524571490°N	107.659943757°W
2,200.00	10.69	353.96	2,184.33	177.57	-18.80	14,364,721.788	890,302.801	39.524621955°N	107.659952611°W
2,300.00	10.69	353.96	2,282.59	196.02	-20.75	14,364,740.240	890,300.848	39.524672419°N	107.659961464°W
2,400.00	10.69	353.96	2,380.85	214.47	-22.71	14,364,758.692	890,298.894	39.524722883°N	107.659970317°W
2,500.00	10.69	353.96	2,479.12	232.92	-24.66	14,364,777.144	890,296.941	39.524773348°N	107.659979170°W
2,600.00	10.69	353.96	2,577.38	251.37	-26.61	14,364,795.597	890,294.987	39.524823812°N	107.659988024°W
2,700.00	10.69	353.96	2,675.64	269.83	-28.57	14,364,814.049	890,293.033	39.524874277°N	107.659996877°W
2,800.00	10.69	353.96	2,773.91	288.28	-30.52	14,364,832.501	890,291.080	39.524924741°N	107.660005730°W
2,900.00	10.69	353.96	2,872.17	306.73	-32.47	14,364,850.953	890,289.126	39.524975205°N	107.660014584°W
3,000.00	10.69	353.96	2,970.43	325.18	-34.43	14,364,869.406	890,287.173	39.525025670°N	107.660023437°W
3,100.00	10.69	353.96	3,068.70	343.64	-36.38	14,364,887.858	890,285.219	39.525076134°N	107.660032291°W
3,200.00	10.69	353.96	3,166.96	362.09	-38.34	14,364,906.310	890,283.265	39.525126598°N	107.660041144°W
3,300.00	10.69	353.96	3,265.22	380.54	-40.29	14,364,924.762	890,281.312	39.525177063°N	107.660049997°W
3,400.00	10.69	353.96	3,363.49	398.99	-42.24	14,364,943.215	890,279.358	39.525227527°N	107.660058851°W
3,500.00	10.69	353.96	3,461.75	417.44	-44.20	14,364,961.667	890,277.405	39.525277992°N	107.660067704°W
3,600.00	10.69	353.96	3,560.01	435.90	-46.15	14,364,980.119	890,275.451	39.525328456°N	107.660076558°W
3,700.00	10.69	353.96	3,658.28	454.35	-48.10	14,364,998.571	890,273.497	39.525378920°N	107.660085411°W
3,800.00	10.69	353.96	3,756.54	472.80	-50.06	14,365,017.024	890,271.544	39.525429385°N	107.660094265°W
3,900.00	10.69	353.96	3,854.81	491.25	-52.01	14,365,035.476	890,269.590	39.525479849°N	107.660103118°W
4,000.00	10.69	353.96	3,953.07	509.71	-53.96	14,365,053.928	890,267.637	39.525530313°N	107.660111972°W
4,027.41	10.69	353.96	3,980.00	514.76	-54.50	14,365,058.985	890,267.101	39.525544144°N	107.660114398°W
Mesaverde									
4,100.00	10.69	353.96	4,051.33	528.16	-55.92	14,365,072.380	890,265.683	39.525580778°N	107.660120825°W
4,200.00	10.69	353.96	4,149.60	546.61	-57.87	14,365,090.833	890,263.729	39.525631242°N	107.660129679°W
4,300.00	10.69	353.96	4,247.86	565.06	-59.83	14,365,109.285	890,261.776	39.525681706°N	107.660138532°W
4,400.00	10.69	353.96	4,346.12	583.52	-61.78	14,365,127.737	890,259.822	39.525732171°N	107.660147386°W
4,440.19	10.69	353.96	4,385.62	590.93	-62.56	14,365,135.154	890,259.037	39.525752454°N	107.660150945°W
Drop 3°/100 at 4440 MD/4386 TVD									

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well Antero Dixon B02 (111303) - Slot B02
Company:	Antero Resources	TVD Reference:	KB @ 5544.00ft
Project:	Dixon (NAD 83)	MD Reference:	KB @ 5544.00ft
Site:	Dixon B	North Reference:	Grid
Well:	Antero Dixon B02 (111303)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B02		
Design:	Antero Dixon B02 P01		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,500.00	8.90	353.96	4,444.55	601.05	-63.64	14,365,145.272	890,257.966	39.525780128°N	107.660155800°W
4,600.00	5.90	353.96	4,543.71	613.86	-64.99	14,365,158.078	890,256.610	39.525815148°N	107.660161944°W
4,700.00	2.90	353.96	4,643.40	621.48	-65.80	14,365,165.705	890,255.802	39.525836007°N	107.660165603°W
4,796.64	0.00	0.00	4,740.00	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
Vertical at 4797 MD/4740 TVD - Price Coal - BH B02									
4,800.00	0.00	0.00	4,743.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
4,900.00	0.00	0.00	4,843.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
5,000.00	0.00	0.00	4,943.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
5,100.00	0.00	0.00	5,043.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
5,200.00	0.00	0.00	5,143.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
5,300.00	0.00	0.00	5,243.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
5,400.00	0.00	0.00	5,343.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
5,500.00	0.00	0.00	5,443.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
5,600.00	0.00	0.00	5,543.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
5,696.64	0.00	0.00	5,640.00	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
Top Gas									
5,700.00	0.00	0.00	5,643.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
5,800.00	0.00	0.00	5,743.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
5,900.00	0.00	0.00	5,843.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
6,000.00	0.00	0.00	5,943.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
6,100.00	0.00	0.00	6,043.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
6,200.00	0.00	0.00	6,143.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
6,300.00	0.00	0.00	6,243.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
6,400.00	0.00	0.00	6,343.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
6,500.00	0.00	0.00	6,443.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
6,521.64	0.00	0.00	6,465.00	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
Cameo									
6,600.00	0.00	0.00	6,543.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
6,700.00	0.00	0.00	6,643.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
6,800.00	0.00	0.00	6,743.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
6,900.00	0.00	0.00	6,843.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
7,000.00	0.00	0.00	6,943.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
7,100.00	0.00	0.00	7,043.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
7,200.00	0.00	0.00	7,143.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
7,300.00	0.00	0.00	7,243.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
7,400.00	0.00	0.00	7,343.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
7,421.64	0.00	0.00	7,365.00	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
Rollins									
7,500.00	0.00	0.00	7,443.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
7,600.00	0.00	0.00	7,543.36	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
7,621.64	0.00	0.00	7,565.00	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
TD at 7622 MD/7565 TVD									

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									
BH B02	0.00	360.00	4,740.00	623.91	-66.06	14,365,168.136	890,255.545	39.525842656°N	107.660166770°W
- plan hits target center									
- Circle (radius 25.00)									

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well Antero Dixon B02 (111303) - Slot B02
Company:	Antero Resources	TVD Reference:	KB @ 5544.00ft
Project:	Dixon (NAD 83)	MD Reference:	KB @ 5544.00ft
Site:	Dixon B	North Reference:	Grid
Well:	Antero Dixon B02 (111303)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B02		
Design:	Antero Dixon B02 P01		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,000.00	1,000.00	Surf Csg at 1000 MD/TVD	5.50	6.00	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,027.41	3,980.00	Mesaverde			
4,796.64	4,740.00	Price Coal			
5,696.64	5,640.00	Top Gas			
6,521.64	6,465.00	Cameo			
7,421.64	7,365.00	Rollins			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,060.00	1,060.00	0.00	0.00	KOP 3°/100 at 1060 MD/TVD	
1,416.45	1,414.38	32.98	-3.49	Hold 11° at 1416 MD/1414 TVD	
4,440.19	4,385.62	590.93	-62.56	Drop 3°/100 at 4440 MD/4386 TVD	
4,796.64	4,740.00	623.91	-66.06	Vertical at 4797 MD/4740 TVD	
7,621.64	7,565.00	623.91	-66.06	TD at 7622 MD/7565 TVD	