

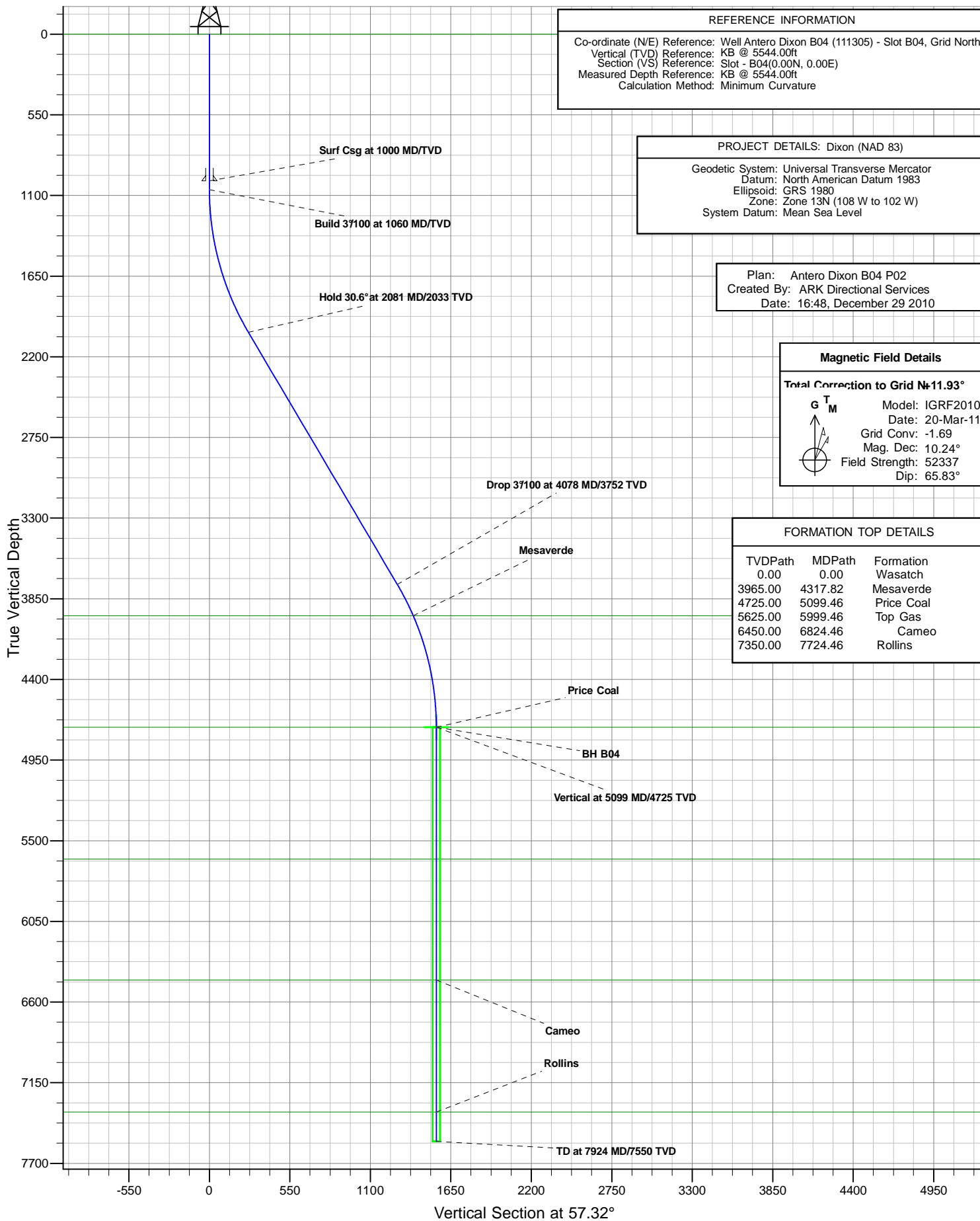


Antero Resources

Antero Dixon B04 (111305)



VERTICAL SECTION VIEW



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Antero Dixon B04 (111305) - Slot B04, Grid North
Vertical (TVD) Reference: KB @ 5544.00ft
Section (VS) Reference: Slot - B04(0.00N, 0.00E)
Measured Depth Reference: KB @ 5544.00ft
Calculation Method: Minimum Curvature

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

Plan: Antero Dixon B04 P02
Created By: ARK Directional Services
Date: 16:48, December 29 2010

Magnetic Field Details

Total Correction to Grid N=11.93°

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

FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
0.00	0.00	Wasatch
3965.00	4317.82	Mesaverde
4725.00	5099.46	Price Coal
5625.00	5999.46	Top Gas
6450.00	6824.46	Cameo
7350.00	7724.46	Rollins



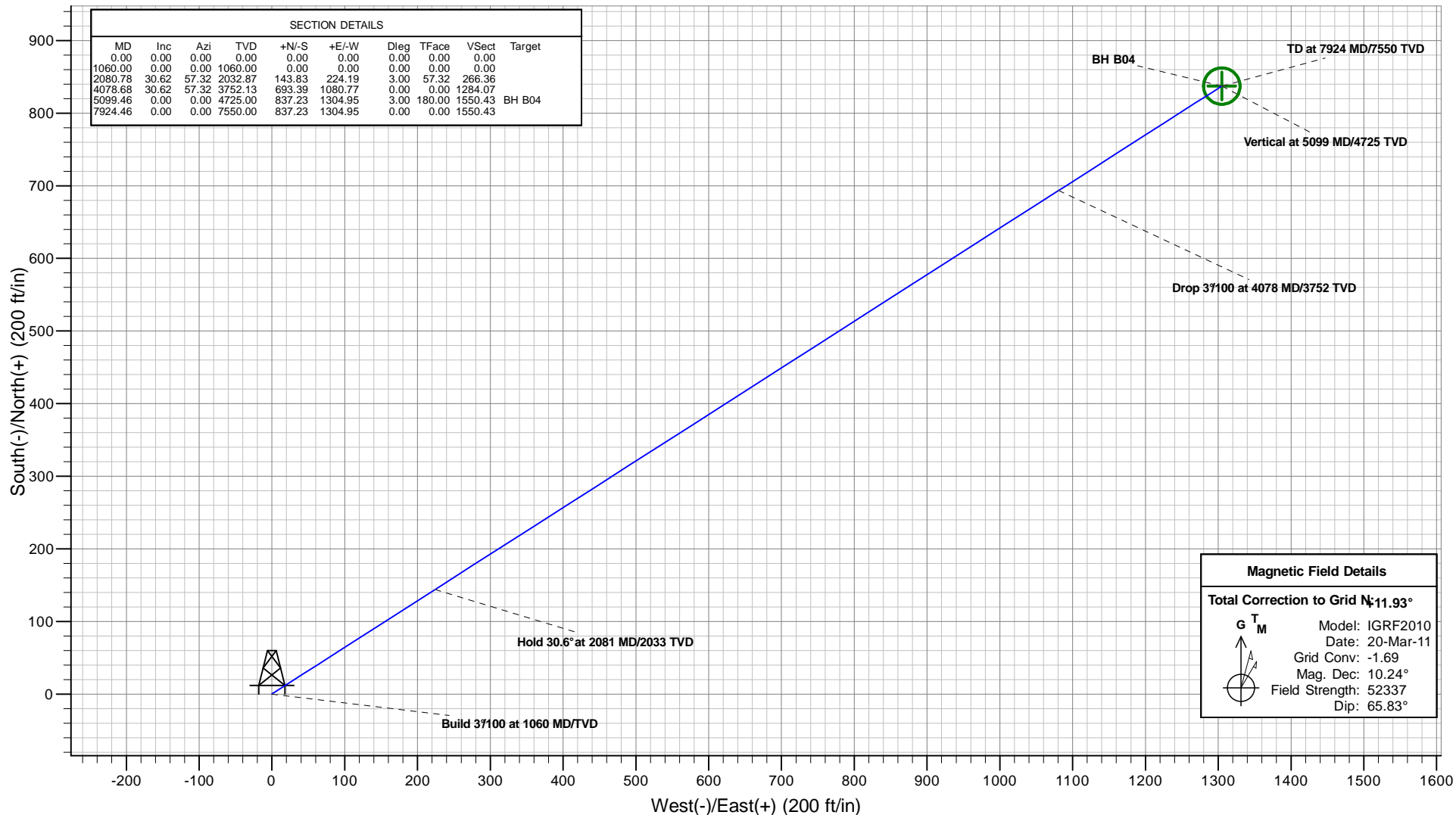
Antero Resources

Antero Dixon B04 (111305)



PLAN VIEW

Project: Dixon (NAD 83)
Site: Dixon B
Well: Antero Dixon B04 (111305)
Wellbore: Antero Dixon B04
Design: Antero Dixon B04 P02



Plan: Antero Dixon B04 P02
Created By: ARK Directional Services
Date: 16:49, December 29 2010

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 B04 (111305) - Slot B04, Grid North
Vertical (TVD) Reference: KB @ 5544.00ft
Section (VS) Reference: Slot - B04(0.00N, 0.00E)
Measured Depth Reference: KB @ 5544.00ft
Calculation Method: Minimum Curvature

Antero Resources

Dixon (NAD 83)

Dixon B

Antero Dixon B04 (111305) - Slot B04

Antero Dixon B04

Plan: Antero Dixon B04 P02

Standard Planning Report - Geographic

29 December, 2010

Planning Report - Geographic

Database:	EDM 5000 SERVER DB	Local Co-ordinate Reference:	Well Antero Dixon B04 (111305) - Slot B04
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 B04 (111305)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B04		
Design:	Antero Dixon B04 P02		

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 B04 (111305) - Slot B04					
Well Position	+N/-S	0.00 ft	Northing:	14,364,552.169 usft	Latitude:	39.524162521°N
	+E/-W	0.00 ft	Easting:	890,375.646 usft	Longitude:	107.659676797°W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,520.00 ft

Wellbore	Antero Dixon B04				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/20/2011	10.24	65.83	52,337

Design	Antero Dixon B04 P02			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	4,725.00	0.00	0.00	57.32

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	
2,080.78	30.62	57.32	2,032.87	143.83	224.19	3.00	3.00	0.00	57.32	
4,078.68	30.62	57.32	3,752.13	693.39	1,080.77	0.00	0.00	0.00	0.00	
5,099.46	0.00	0.00	4,725.00	837.23	1,304.95	3.00	-3.00	0.00	180.00	BH B04
7,924.46	0.00	0.00	7,550.00	837.23	1,304.95	0.00	0.00	0.00	0.00	

Planning Report - Geographic

Database:	EDM 5000 SERVER DB	Local Co-ordinate Reference:	Well Antero Dixon B04 (111305) - Slot B04
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 B04 (111305)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B04		
Design:	Antero Dixon B04 P02		

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	14,364,552.169	890,375.646	39.524162521°N	107.659676797°W
Wasatch									
100.00	0.00	0.00	100.00	0.00	0.00	14,364,552.169	890,375.646	39.524162521°N	107.659676797°W
200.00	0.00	0.00	200.00	0.00	0.00	14,364,552.169	890,375.646	39.524162521°N	107.659676797°W
300.00	0.00	0.00	300.00	0.00	0.00	14,364,552.169	890,375.646	39.524162521°N	107.659676797°W
400.00	0.00	0.00	400.00	0.00	0.00	14,364,552.169	890,375.646	39.524162521°N	107.659676797°W
500.00	0.00	0.00	500.00	0.00	0.00	14,364,552.169	890,375.646	39.524162521°N	107.659676797°W
600.00	0.00	0.00	600.00	0.00	0.00	14,364,552.169	890,375.646	39.524162521°N	107.659676797°W
700.00	0.00	0.00	700.00	0.00	0.00	14,364,552.169	890,375.646	39.524162521°N	107.659676797°W
800.00	0.00	0.00	800.00	0.00	0.00	14,364,552.169	890,375.646	39.524162521°N	107.659676797°W
900.00	0.00	0.00	900.00	0.00	0.00	14,364,552.169	890,375.646	39.524162521°N	107.659676797°W
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,364,552.169	890,375.646	39.524162521°N	107.659676797°W
Surf Csg at 1000 MD/TVD									
1,060.00	0.00	0.00	1,060.00	0.00	0.00	14,364,552.169	890,375.646	39.524162521°N	107.659676797°W
Build 3°/100 at 1060 MD/TVD									
1,100.00	1.20	57.32	1,100.00	0.23	0.35	14,364,552.395	890,375.998	39.524163170°N	107.659675572°W
1,200.00	4.20	57.32	1,199.87	2.77	4.32	14,364,554.938	890,379.963	39.524170470°N	107.659661795°W
1,300.00	7.20	57.32	1,299.37	8.13	12.68	14,364,560.301	890,388.321	39.524185860°N	107.659632747°W
1,400.00	10.20	57.32	1,398.21	16.30	25.41	14,364,568.468	890,401.051	39.524209298°N	107.659588508°W
1,500.00	13.20	57.32	1,496.12	27.25	42.47	14,364,579.417	890,418.117	39.524240720°N	107.659529199°W
1,600.00	16.20	57.32	1,592.83	40.95	63.83	14,364,593.118	890,439.472	39.524280041°N	107.659454982°W
1,700.00	19.20	57.32	1,688.09	57.37	89.41	14,364,609.534	890,465.059	39.524327152°N	107.659366062°W
1,800.00	22.20	57.32	1,781.62	76.45	119.16	14,364,628.619	890,494.806	39.524381924°N	107.659262681°W
1,900.00	25.20	57.32	1,873.18	98.15	152.99	14,364,650.322	890,528.633	39.524444206°N	107.659145123°W
2,000.00	28.20	57.32	1,962.51	122.41	190.80	14,364,674.582	890,566.446	39.524513829°N	107.659013711°W
2,080.76	30.62	57.32	2,032.86	143.83	224.18	14,364,695.997	890,599.826	39.524575288°N	107.658897707°W
Hold 30.6° at 2081 MD/2033 TVD									
2,080.78	30.62	57.32	2,032.87	143.83	224.19	14,364,696.001	890,599.831	39.524575297°N	107.658897689°W
2,100.00	30.62	57.32	2,049.41	149.12	232.43	14,364,701.288	890,608.073	39.524590473°N	107.658869046°W
2,200.00	30.62	57.32	2,135.46	176.63	275.30	14,364,728.795	890,650.946	39.524669412°N	107.658720046°W
2,300.00	30.62	57.32	2,221.52	204.13	318.18	14,364,756.302	890,693.820	39.524748352°N	107.658571046°W
2,400.00	30.62	57.32	2,307.57	231.64	361.05	14,364,783.809	890,736.694	39.524827292°N	107.658422045°W
2,500.00	30.62	57.32	2,393.62	259.15	403.92	14,364,811.316	890,779.568	39.524906231°N	107.658273045°W
2,600.00	30.62	57.32	2,479.68	286.65	446.80	14,364,838.822	890,822.442	39.524985170°N	107.658124043°W
2,700.00	30.62	57.32	2,565.73	314.16	489.67	14,364,866.329	890,865.315	39.525064109°N	107.657975042°W
2,800.00	30.62	57.32	2,651.78	341.67	532.54	14,364,893.836	890,908.189	39.525143048°N	107.657826040°W
2,900.00	30.62	57.32	2,737.84	369.17	575.42	14,364,921.343	890,951.063	39.525221986°N	107.657677038°W
3,000.00	30.62	57.32	2,823.89	396.68	618.29	14,364,948.850	890,993.937	39.525300925°N	107.657528035°W
3,100.00	30.62	57.32	2,909.94	424.19	661.17	14,364,976.356	891,036.810	39.525379863°N	107.657379032°W
3,200.00	30.62	57.32	2,996.00	451.70	704.04	14,365,003.863	891,079.684	39.525458801°N	107.657230029°W
3,300.00	30.62	57.32	3,082.05	479.20	746.91	14,365,031.370	891,122.558	39.525537739°N	107.657081025°W
3,400.00	30.62	57.32	3,168.10	506.71	789.79	14,365,058.877	891,165.432	39.525616677°N	107.656932021°W
3,500.00	30.62	57.32	3,254.16	534.22	832.66	14,365,086.384	891,208.305	39.525695614°N	107.656783017°W
3,600.00	30.62	57.32	3,340.21	561.72	875.54	14,365,113.890	891,251.179	39.525774551°N	107.656634012°W
3,700.00	30.62	57.32	3,426.26	589.23	918.41	14,365,141.397	891,294.053	39.525853489°N	107.656485007°W
3,800.00	30.62	57.32	3,512.32	616.74	961.28	14,365,168.904	891,336.927	39.525932426°N	107.656336002°W
3,900.00	30.62	57.32	3,598.37	644.24	1,004.16	14,365,196.411	891,379.801	39.526011362°N	107.656186996°W
4,000.00	30.62	57.32	3,684.42	671.75	1,047.03	14,365,223.917	891,422.674	39.526090299°N	107.656037990°W
4,078.69	30.62	57.32	3,752.14	693.39	1,080.77	14,365,245.562	891,456.411	39.526152412°N	107.655920741°W
Drop 3°/100 at 4078 MD/3752 TVD									
4,100.00	29.98	57.32	3,770.54	699.20	1,089.82	14,365,251.369	891,465.462	39.526169076°N	107.655889284°W
4,200.00	26.98	57.32	3,858.42	724.95	1,129.95	14,365,277.119	891,505.597	39.526242971°N	107.655749795°W
4,300.00	23.98	57.32	3,948.68	748.18	1,166.16	14,365,300.350	891,541.806	39.526309636°N	107.655623951°W

Planning Report - Geographic

Database:	EDM 5000 SERVER DB	Local Co-ordinate Reference:	Well Antero Dixon B04 (111305) - Slot B04
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 B04 (111305)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B04		
Design:	Antero Dixon B04 P02		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
4,317.82	23.45	57.32	3,965.00	752.05	1,172.20	14,365,304.220	891,547.839	39.526320744°N	107.655602984°W	
Mesaverde										
4,400.00	20.98	57.32	4,041.07	768.83	1,198.35	14,365,320.998	891,573.990	39.526368890°N	107.655512098°W	
4,500.00	17.98	57.32	4,135.34	786.84	1,226.42	14,365,339.007	891,602.059	39.526420570°N	107.655414541°W	
4,600.00	14.98	57.32	4,231.21	802.16	1,250.30	14,365,354.327	891,625.938	39.526464534°N	107.655331550°W	
4,700.00	11.98	57.32	4,328.45	814.75	1,269.92	14,365,366.917	891,645.561	39.526500662°N	107.655263350°W	
4,800.00	8.98	57.32	4,426.77	824.57	1,285.23	14,365,376.741	891,660.874	39.526528855°N	107.655210130°W	
4,900.00	5.98	57.32	4,525.90	831.61	1,296.19	14,365,383.773	891,671.835	39.526549036°N	107.655172034°W	
5,000.00	2.98	57.32	4,625.59	835.83	1,302.77	14,365,387.994	891,678.414	39.526561149°N	107.655149169°W	
5,099.45	0.00	57.32	4,724.99	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
Vertical at 5099 MD/4725 TVD										
5,099.46	0.00	0.00	4,725.00	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
Price Coal										
5,100.00	0.00	0.00	4,725.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
5,200.00	0.00	0.00	4,825.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
5,300.00	0.00	0.00	4,925.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
5,400.00	0.00	0.00	5,025.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
5,500.00	0.00	0.00	5,125.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
5,600.00	0.00	0.00	5,225.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
5,700.00	0.00	0.00	5,325.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
5,800.00	0.00	0.00	5,425.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
5,900.00	0.00	0.00	5,525.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
5,999.46	0.00	0.00	5,625.00	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
Top Gas										
6,000.00	0.00	0.00	5,625.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
6,100.00	0.00	0.00	5,725.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
6,200.00	0.00	0.00	5,825.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
6,300.00	0.00	0.00	5,925.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
6,400.00	0.00	0.00	6,025.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
6,500.00	0.00	0.00	6,125.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
6,600.00	0.00	0.00	6,225.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
6,700.00	0.00	0.00	6,325.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
6,800.00	0.00	0.00	6,425.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
6,824.46	0.00	0.00	6,450.00	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
Cameo										
6,900.00	0.00	0.00	6,525.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
7,000.00	0.00	0.00	6,625.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
7,100.00	0.00	0.00	6,725.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
7,200.00	0.00	0.00	6,825.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
7,300.00	0.00	0.00	6,925.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
7,400.00	0.00	0.00	7,025.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
7,500.00	0.00	0.00	7,125.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
7,600.00	0.00	0.00	7,225.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
7,700.00	0.00	0.00	7,325.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
7,724.46	0.00	0.00	7,350.00	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
Rollins										
7,800.00	0.00	0.00	7,425.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
7,900.00	0.00	0.00	7,525.54	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
7,924.45	0.00	0.00	7,549.99	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	
TD at 7924 MD/7550 TVD										
7,924.46	0.00	0.00	7,550.00	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W	

Planning Report - Geographic

Database:	EDM 5000 SERVER DB	Local Co-ordinate Reference:	Well Antero Dixon B04 (111305) - Slot B04
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 B04 (111305)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B04		
Design:	Antero Dixon B04 P02		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
BH B04	0.00	360.00	4,725.00	837.23	1,304.95	14,365,389.392	891,680.594	39.526565161°N	107.655141595°W
- plan hits target center									
- Circle (radius 25.00)									

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

Formations					
Measured Depth	Vertical Depth			Dip	Dip Direction
(ft)	(ft)		Name	(°)	(°)
0.00	0.00		Wasatch	0.00	
4,317.82	3,965.00		Mesaverde	0.00	
5,099.46	4,725.00		Price Coal	0.00	
5,999.46	5,625.00		Top Gas	0.00	
6,824.46	6,450.00		Cameo	0.00	
7,724.46	7,350.00		Rollins	0.00	

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W		Comment
(ft)	(ft)	(ft)	(ft)		
1,060.00	1,060.00	0.00	0.00		Build 3°/100 at 1060 MD/TVD
2,080.76	2,032.86	143.83	224.18		Hold 30.6° at 2081 MD/2033 TVD
4,078.69	3,752.14	693.39	1,080.77		Drop 3°/100 at 4078 MD/3752 TVD
5,099.45	4,724.99	837.23	1,304.95		Vertical at 5099 MD/4725 TVD
7,924.45	7,549.99	837.23	1,304.95		TD at 7924 MD/7550 TVD