

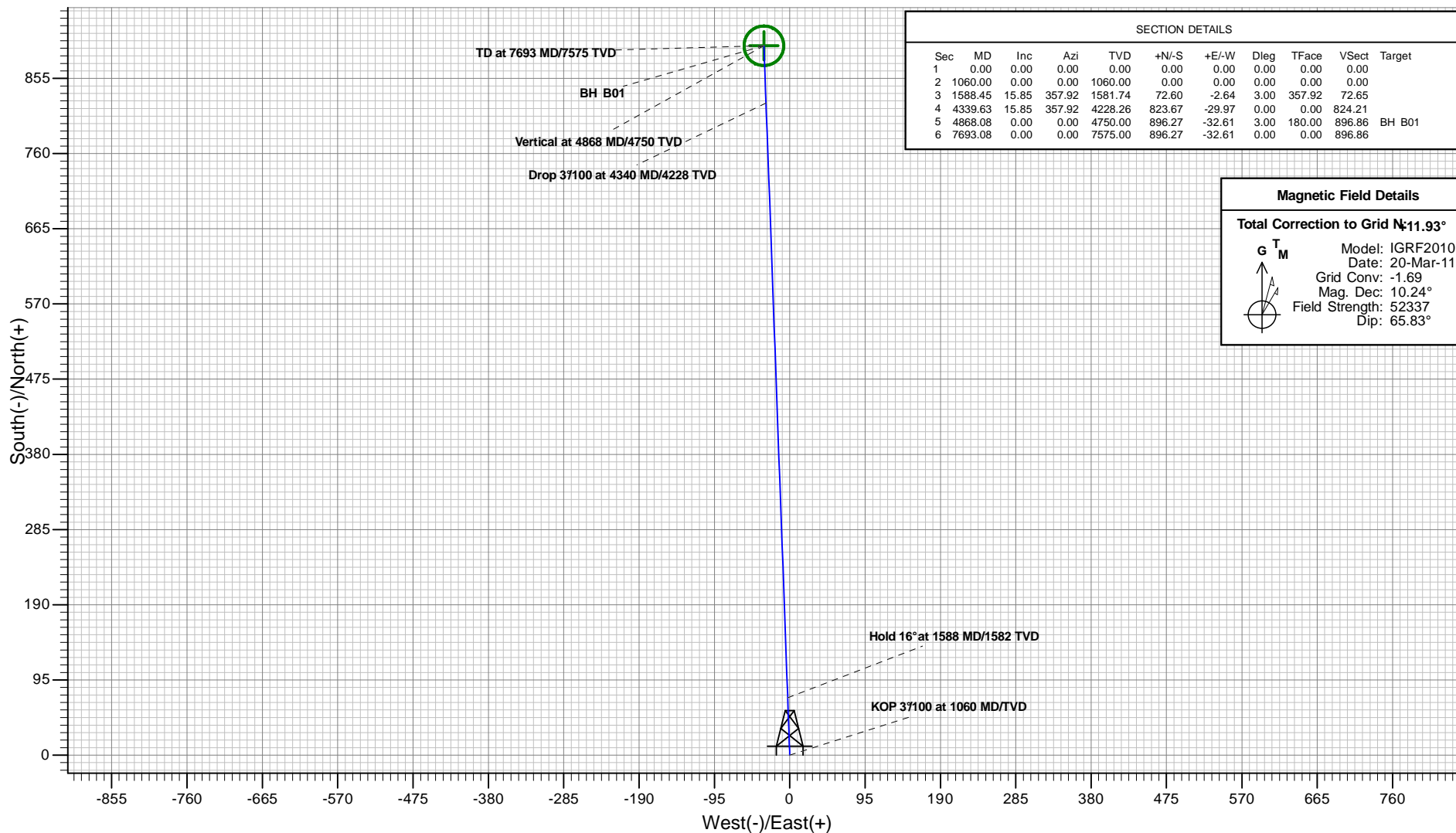


PLAN VIEW

Antero Resources

Antero Dixon B01 (111302)

Project: Dixon (NAD 83)
Site: Dixon B
Well: Antero Dixon B01 (111302)
Wellbore: Antero Dixon B01
Design: Antero Dixon B01 P01

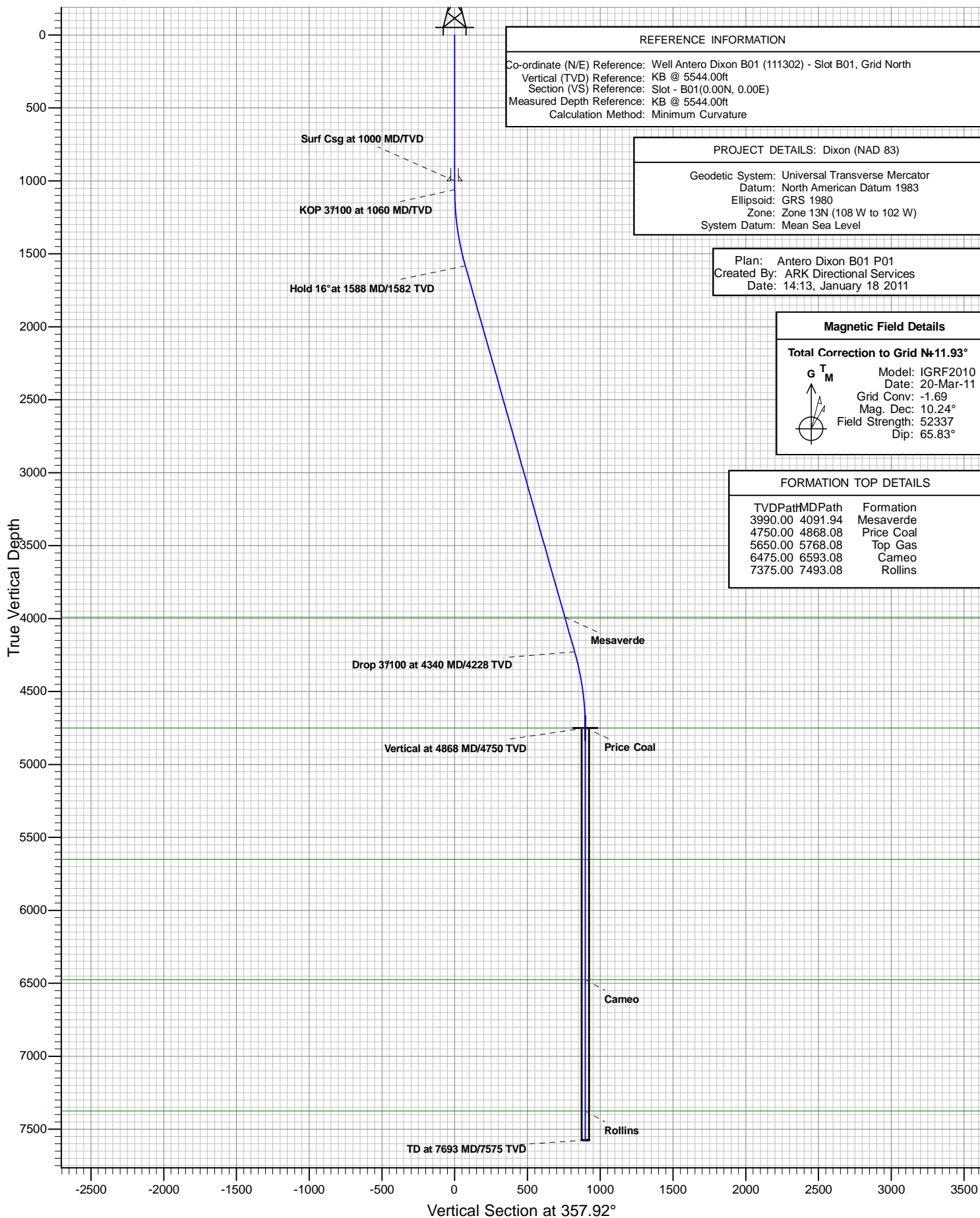


Plan: Antero Dixon B01 P01
Created By: ARK Directional Services
Date: 14:15, January 18 2011

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 B01 (111302) - Slot B01, Grid North
Vertical (TVD) Reference: KB @ 5544.00ft
Section (VS) Reference: Slot - B01(0.00N, 0.00E)
Measured Depth Reference: KB @ 5544.00ft
Calculation Method: Minimum Curvature

VERTICAL SECTION VIEW



Antero Resources

Dixon (NAD 83)

Dixon B

Antero Dixon B01 (111302) - Slot B01

Antero Dixon B01

Plan: Antero Dixon B01 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 B01 (111302) - Slot B01
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 B01 (111302)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B01		
Design:	Antero Dixon B01 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 B01 (111302) - Slot B01					
Well Position	+N/-S	0.00 ft	Northing:	14,364,541.570 usft	Latitude:	39.524129842°N
	+E/-W	0.00 ft	Easting:	890,331.242 usft	Longitude:	107.659832986°W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,520.00 ft

Wellbore	Antero Dixon B01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/03/20	10.24	65.83	52,337

Design	Antero Dixon B01 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	357.92	

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	
1,588.45	15.85	357.92	1,581.74	72.60	-2.64	3.00	3.00	0.00	357.92	
4,339.63	15.85	357.92	4,228.26	823.67	-29.97	0.00	0.00	0.00	0.00	
4,868.08	0.00	0.00	4,750.00	896.27	-32.61	3.00	-3.00	0.00	180.00	BH B01
7,693.08	0.00	0.00	7,575.00	896.27	-32.61	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 B01 (111302) - Slot B01
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 B01 (111302)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B01		
Design:	Antero Dixon B01 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	14,364,541.570	890,331.242	39.524129842°N	107.659832986°W
100.00	0.00	0.00	100.00	0.00	0.00	14,364,541.570	890,331.242	39.524129842°N	107.659832986°W
200.00	0.00	0.00	200.00	0.00	0.00	14,364,541.570	890,331.242	39.524129842°N	107.659832986°W
300.00	0.00	0.00	300.00	0.00	0.00	14,364,541.570	890,331.242	39.524129842°N	107.659832986°W
400.00	0.00	0.00	400.00	0.00	0.00	14,364,541.570	890,331.242	39.524129842°N	107.659832986°W
500.00	0.00	0.00	500.00	0.00	0.00	14,364,541.570	890,331.242	39.524129842°N	107.659832986°W
600.00	0.00	0.00	600.00	0.00	0.00	14,364,541.570	890,331.242	39.524129842°N	107.659832986°W
700.00	0.00	0.00	700.00	0.00	0.00	14,364,541.570	890,331.242	39.524129842°N	107.659832986°W
800.00	0.00	0.00	800.00	0.00	0.00	14,364,541.570	890,331.242	39.524129842°N	107.659832986°W
900.00	0.00	0.00	900.00	0.00	0.00	14,364,541.570	890,331.242	39.524129842°N	107.659832986°W
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,364,541.570	890,331.242	39.524129842°N	107.659832986°W
Surf Csg at 1000 MD/TVD									
1,060.00	0.00	0.00	1,060.00	0.00	0.00	14,364,541.570	890,331.242	39.524129842°N	107.659832986°W
KOP 3°/100 at 1060 MD/TVD									
1,100.00	1.20	357.92	1,100.00	0.42	-0.02	14,364,541.988	890,331.226	39.524130989°N	107.659833084°W
1,200.00	4.20	357.92	1,199.87	5.13	-0.19	14,364,546.695	890,331.055	39.524143888°N	107.659834183°W
1,300.00	7.20	357.92	1,299.37	15.05	-0.55	14,364,556.620	890,330.694	39.524171086°N	107.659836502°W
1,400.00	10.20	357.92	1,398.21	30.16	-1.10	14,364,571.734	890,330.144	39.524212507°N	107.659840033°W
1,500.00	13.20	357.92	1,496.12	50.43	-1.83	14,364,591.997	890,329.407	39.524268037°N	107.659844767°W
1,588.45	15.85	357.92	1,581.74	72.60	-2.64	14,364,614.167	890,328.600	39.524328796°N	107.659849946°W
Hold 16° at 1588 MD/1582 TVD									
1,600.00	15.85	357.92	1,592.84	75.75	-2.76	14,364,617.319	890,328.486	39.524337434°N	107.659850682°W
1,700.00	15.85	357.92	1,689.04	103.05	-3.75	14,364,644.619	890,327.493	39.524412250°N	107.659857060°W
1,800.00	15.85	357.92	1,785.24	130.35	-4.74	14,364,671.919	890,326.499	39.524487065°N	107.659863438°W
1,900.00	15.85	357.92	1,881.43	157.65	-5.74	14,364,699.219	890,325.506	39.524561881°N	107.659869815°W
2,000.00	15.85	357.92	1,977.63	184.95	-6.73	14,364,726.519	890,324.513	39.524636696°N	107.659876193°W
2,100.00	15.85	357.92	2,073.82	212.25	-7.72	14,364,753.819	890,323.520	39.524711512°N	107.659882571°W
2,200.00	15.85	357.92	2,170.02	239.55	-8.72	14,364,781.119	890,322.527	39.524786327°N	107.659888949°W
2,300.00	15.85	357.92	2,266.22	266.85	-9.71	14,364,808.419	890,321.533	39.524861143°N	107.659895326°W
2,400.00	15.85	357.92	2,362.41	294.15	-10.70	14,364,835.719	890,320.540	39.524935959°N	107.659901704°W
2,500.00	15.85	357.92	2,458.61	321.45	-11.69	14,364,863.019	890,319.547	39.525010774°N	107.659908082°W
2,600.00	15.85	357.92	2,554.81	348.75	-12.69	14,364,890.319	890,318.554	39.525085590°N	107.659914460°W
2,700.00	15.85	357.92	2,651.00	376.05	-13.68	14,364,917.619	890,317.560	39.525160405°N	107.659920838°W
2,800.00	15.85	357.92	2,747.20	403.35	-14.67	14,364,944.919	890,316.567	39.525235221°N	107.659927216°W
2,900.00	15.85	357.92	2,843.39	430.65	-15.67	14,364,972.219	890,315.574	39.525310036°N	107.659933594°W
3,000.00	15.85	357.92	2,939.59	457.95	-16.66	14,364,999.519	890,314.581	39.525384852°N	107.659939971°W
3,100.00	15.85	357.92	3,035.79	485.25	-17.65	14,365,026.819	890,313.588	39.525459668°N	107.659946349°W
3,200.00	15.85	357.92	3,131.98	512.55	-18.65	14,365,054.119	890,312.594	39.525534483°N	107.659952727°W
3,300.00	15.85	357.92	3,228.18	539.85	-19.64	14,365,081.419	890,311.601	39.525609299°N	107.659959105°W
3,400.00	15.85	357.92	3,324.38	567.15	-20.63	14,365,108.719	890,310.608	39.525684114°N	107.659965483°W
3,500.00	15.85	357.92	3,420.57	594.45	-21.63	14,365,136.018	890,309.615	39.525758930°N	107.659971861°W
3,600.00	15.85	357.92	3,516.77	621.75	-22.62	14,365,163.318	890,308.622	39.525833745°N	107.659978239°W
3,700.00	15.85	357.92	3,612.97	649.05	-23.61	14,365,190.618	890,307.628	39.525908561°N	107.659984617°W
3,800.00	15.85	357.92	3,709.16	676.35	-24.61	14,365,217.918	890,306.635	39.525983376°N	107.659990995°W
3,900.00	15.85	357.92	3,805.36	703.65	-25.60	14,365,245.218	890,305.642	39.526058192°N	107.659997374°W
4,000.00	15.85	357.92	3,901.55	730.95	-26.59	14,365,272.518	890,304.649	39.526133008°N	107.660003752°W
4,091.94	15.85	357.92	3,990.00	756.05	-27.51	14,365,297.619	890,303.735	39.526201795°N	107.660009616°W
Mesaverde									
4,100.00	15.85	357.92	3,997.75	758.25	-27.59	14,365,299.818	890,303.655	39.526207823°N	107.660010130°W
4,200.00	15.85	357.92	4,093.95	785.55	-28.58	14,365,327.118	890,302.662	39.526282639°N	107.660016508°W
4,300.00	15.85	357.92	4,190.14	812.85	-29.57	14,365,354.418	890,301.669	39.526357454°N	107.660022886°W
4,339.63	15.85	357.92	4,228.26	823.67	-29.97	14,365,365.236	890,301.275	39.526387102°N	107.660025414°W
Drop 3°/100 at 4340 MD/4228 TVD									
4,400.00	14.04	357.92	4,286.59	839.23	-30.53	14,365,380.798	890,300.709	39.526429749°N	107.660029049°W

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well Antero Dixon B01 (111302) - Slot B01
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 B01 (111302)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B01		
Design:	Antero Dixon B01 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	11.04	357.92	4,384.19	860.93	-31.32	14,365,402.497	890,299.920	39.526489216°N	107.660034119°W
4,600.00	8.04	357.92	4,482.80	877.49	-31.92	14,365,419.062	890,299.317	39.526534612°N	107.660037989°W
4,700.00	5.04	357.92	4,582.13	888.88	-32.34	14,365,430.448	890,298.903	39.526565813°N	107.660040649°W
4,800.00	2.04	357.92	4,681.93	895.05	-32.56	14,365,436.622	890,298.678	39.526582733°N	107.660042092°W
4,868.08	0.00	0.00	4,750.00	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
Vertical at 4868 MD/4750 TVD - Price Coal - BH B01									
4,900.00	0.00	0.00	4,781.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
5,000.00	0.00	0.00	4,881.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
5,100.00	0.00	0.00	4,981.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
5,200.00	0.00	0.00	5,081.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
5,300.00	0.00	0.00	5,181.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
5,400.00	0.00	0.00	5,281.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
5,500.00	0.00	0.00	5,381.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
5,600.00	0.00	0.00	5,481.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
5,700.00	0.00	0.00	5,581.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
5,768.08	0.00	0.00	5,650.00	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
Top Gas									
5,800.00	0.00	0.00	5,681.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
5,900.00	0.00	0.00	5,781.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
6,000.00	0.00	0.00	5,881.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
6,100.00	0.00	0.00	5,981.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
6,200.00	0.00	0.00	6,081.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
6,300.00	0.00	0.00	6,181.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
6,400.00	0.00	0.00	6,281.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
6,500.00	0.00	0.00	6,381.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
6,593.08	0.00	0.00	6,475.00	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
Cameo									
6,600.00	0.00	0.00	6,481.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
6,700.00	0.00	0.00	6,581.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
6,800.00	0.00	0.00	6,681.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
6,900.00	0.00	0.00	6,781.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
7,000.00	0.00	0.00	6,881.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
7,100.00	0.00	0.00	6,981.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
7,200.00	0.00	0.00	7,081.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
7,300.00	0.00	0.00	7,181.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
7,400.00	0.00	0.00	7,281.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
7,493.08	0.00	0.00	7,375.00	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
Rollins									
7,500.00	0.00	0.00	7,381.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
7,600.00	0.00	0.00	7,481.92	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
7,693.08	0.00	0.00	7,575.00	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°W
TD at 7693 MD/7575 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 B01	0.00	360.00	4,750.00	896.27	-32.61	14,365,437.834	890,298.634	39.526586056°N	107.660042375°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 B01 (111302) - Slot B01
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 B01 (111302)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Antero Dixon B01		
Design:	Antero Dixon B01 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 (°)
4,091.94	3,990.00	Mesaverde			
4,868.08	4,750.00	Price Coal			
5,768.08	5,650.00	Top Gas			
6,593.08	6,475.00	Cameo			
7,493.08	7,375.00	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	
1,588.45	1,581.74	72.60	-2.64	Hold 16° at 1588 MD/1582 TVD	
4,339.63	4,228.26	823.67	-29.97	Drop 3°/100 at 4340 MD/4228 TVD	
4,868.08	4,750.00	896.27	-32.61	Vertical at 4868 MD/4750 TVD	
7,693.08	7,575.00	896.27	-32.61	TD at 7693 MD/7575 TVD	