



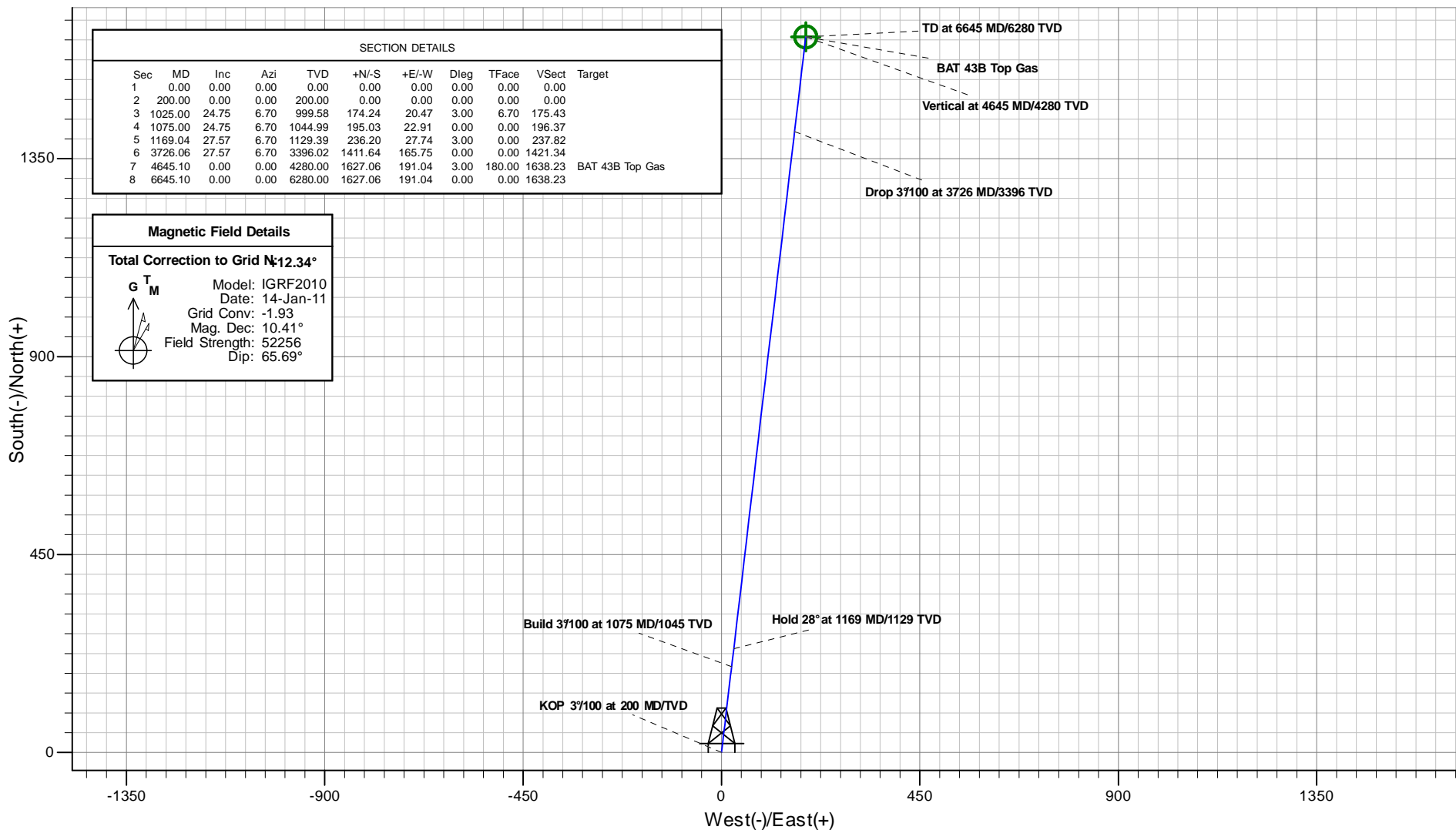
Antero Resources

BAT 43B-18-07-95 (111279)



PLAN VIEW

Project: Monument Ridge
Site: Monument Ridge Pad
Well: BAT 43B-18-07-95 (111279)
Wellbore: BAT 43B
Design: BAT 43B P01



Plan: BAT 43B P01
Created By: ARKDirectionalServices
Date: 9:08, October 14 2010

PROJECT DETAILS: MonumentRidge

Geodetic System: Universal Transverse Mercator
Datum: NAD83 Colorado - HARN
Ellipsoid: GRS1980
Zone: Zone 13N (108 W to 102 W)
System Datum: Mean Sea Level

REFERENCE INFORMATION

Co-ordinates (N/E) Reference: Well BAT 43B-18-07-95 (111279), Grid North
Vertical (TVD) Reference: KB @ 5465.00ft (Original Well Elev)
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: KB @ 5465.00ft (Original Well Elev)
Calculation Method: Minimum Curvature

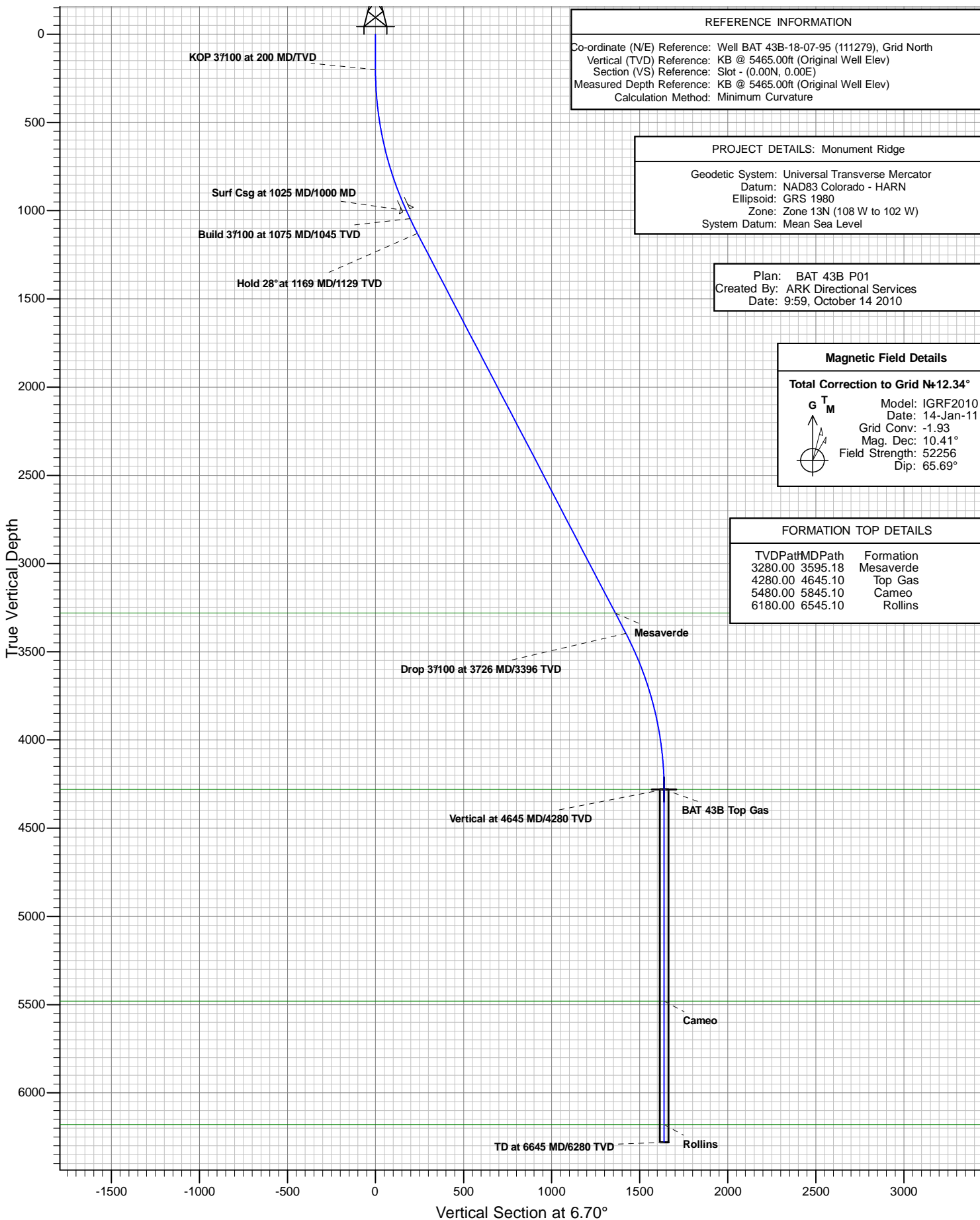


Antero Resources

BAT 43B-18-07-95 (111279)



VERTICAL SECTION VIEW



Antero Resources

Monument Ridge

Monument Ridge Pad

BAT 43B-18-07-95 (111279)

BAT 43B

Plan: BAT 43B P01

Standard Planning Report - Geographic

14 October, 2010

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well BAT 43B-18-07-95 (111279)
Company:	Antero Resources	TVD Reference:	KB @ 5465.00ft (Original Well Elev)
Project:	Monument Ridge	MD Reference:	KB @ 5465.00ft (Original Well Elev)
Site:	Monument Ridge Pad	North Reference:	Grid
Well:	BAT 43B-18-07-95 (111279)	Survey Calculation Method:	Minimum Curvature
Wellbore:	BAT 43B		
Design:	BAT 43B P01		

Project	Monument Ridge		
Map System:	Universal Transverse Mercator	System Datum:	Mean Sea Level
Geo Datum:	NAD83 Colorado - HARN		
Map Zone:	Zone 13N (108 W to 102 W)		

Site	Monument Ridge Pad		
Site Position:		Northing:	14,334,067.020 usft
From:	Lat/Long	Easting:	783,868.932 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in
		Latitude:	39.431305000°N
		Longitude:	108.033251000°W
		Grid Convergence:	-1.93 °

Well	BAT 43B-18-07-95 (111279)		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	
		Latitude:	39.431341000°N
		Longitude:	108.033173000°W
		Ground Level:	5,441.00 ft

Wellbore	BAT 43B				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/01/14	10.41	65.69	52,256

Design	BAT 43B P01				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	4,280.00	0.00	0.00	6.70	

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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,025.00	24.75	6.70	999.58	174.24	20.47	3.00	3.00	0.00	6.70	
1,075.00	24.75	6.70	1,044.99	195.03	22.91	0.00	0.00	0.00	0.00	
1,169.04	27.57	6.70	1,129.39	236.20	27.74	3.00	3.00	0.00	0.00	
3,726.06	27.57	6.70	3,396.02	1,411.64	165.75	0.00	0.00	0.00	0.00	
4,645.10	0.00	0.00	4,280.00	1,627.06	191.04	3.00	-3.00	0.00	180.00	BAT 43B Top Gas
6,645.10	0.00	0.00	6,280.00	1,627.06	191.04	0.00	0.00	0.00	0.00	

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well BAT 43B-18-07-95 (111279)
Company:	Antero Resources	TVD Reference:	KB @ 5465.00ft (Original Well Elev)
Project:	Monument Ridge	MD Reference:	KB @ 5465.00ft (Original Well Elev)
Site:	Monument Ridge Pad	North Reference:	Grid
Well:	BAT 43B-18-07-95 (111279)	Survey Calculation Method:	Minimum Curvature
Wellbore:	BAT 43B		
Design:	BAT 43B 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	14,334,079.390	783,891.404	39.431341000°N	108.033173000°W
100.00	0.00	0.00	100.00	0.00	0.00	14,334,079.390	783,891.404	39.431341000°N	108.033173000°W
200.00	0.00	0.00	200.00	0.00	0.00	14,334,079.390	783,891.404	39.431341000°N	108.033173000°W
KOP 3°/100 at 200 MD/TVD									
300.00	3.00	6.70	299.95	2.60	0.31	14,334,081.989	783,891.709	39.431348158°N	108.033172230°W
400.00	6.00	6.70	399.63	10.39	1.22	14,334,089.781	783,892.624	39.431369611°N	108.033169920°W
500.00	9.00	6.70	498.77	23.35	2.74	14,334,102.743	783,894.147	39.431405301°N	108.033166078°W
600.00	12.00	6.70	597.08	41.45	4.87	14,334,120.840	783,896.273	39.431455130°N	108.033160714°W
700.00	15.00	6.70	694.31	64.63	7.59	14,334,144.022	783,898.996	39.431518962°N	108.033153842°W
800.00	18.00	6.70	790.18	92.84	10.91	14,334,172.226	783,902.310	39.431596621°N	108.033145481°W
900.00	21.00	6.70	884.43	125.99	14.80	14,334,205.375	783,906.204	39.431687895°N	108.033135655°W
1,000.00	24.00	6.70	976.81	163.99	19.26	14,334,243.378	783,910.668	39.431792533°N	108.033124390°W
1,025.00	24.75	6.70	999.58	174.24	20.47	14,334,253.625	783,911.872	39.431820748°N	108.033121352°W
Surf Csg at 1025 MD/1000 MD									
1,075.00	24.75	6.70	1,044.99	195.03	22.91	14,334,274.415	783,914.313	39.431877992°N	108.033115194°W
Build 3°/100 at 1075 MD/1045 TVD									
1,100.00	25.50	6.70	1,067.62	205.57	24.15	14,334,284.957	783,915.550	39.431907020°N	108.033112071°W
1,169.04	27.57	6.70	1,129.39	236.20	27.74	14,334,315.589	783,919.147	39.431991363°N	108.033102998°W
Hold 28° at 1169 MD/1129 TVD									
1,200.00	27.57	6.70	1,156.83	250.43	29.41	14,334,329.821	783,920.818	39.432030550°N	108.033098782°W
1,300.00	27.57	6.70	1,245.47	296.40	34.81	14,334,375.790	783,926.215	39.432157124°N	108.033085166°W
1,400.00	27.57	6.70	1,334.12	342.37	40.21	14,334,421.760	783,931.612	39.432283698°N	108.033071549°W
1,500.00	27.57	6.70	1,422.76	388.34	45.61	14,334,467.729	783,937.010	39.432410272°N	108.033057933°W
1,600.00	27.57	6.70	1,511.41	434.31	51.00	14,334,513.698	783,942.407	39.432536846°N	108.033044316°W
1,700.00	27.57	6.70	1,600.05	480.28	56.40	14,334,559.667	783,947.804	39.432663419°N	108.033030699°W
1,800.00	27.57	6.70	1,688.69	526.25	61.80	14,334,605.637	783,953.201	39.432789993°N	108.033017083°W
1,900.00	27.57	6.70	1,777.34	572.22	67.19	14,334,651.606	783,958.599	39.432916567°N	108.033003466°W
2,000.00	27.57	6.70	1,865.98	618.19	72.59	14,334,697.575	783,963.996	39.433043141°N	108.032989849°W
2,100.00	27.57	6.70	1,954.62	664.16	77.99	14,334,743.545	783,969.393	39.433169715°N	108.032976233°W
2,200.00	27.57	6.70	2,043.27	710.13	83.39	14,334,789.514	783,974.790	39.433296288°N	108.032962616°W
2,300.00	27.57	6.70	2,131.91	756.10	88.78	14,334,835.483	783,980.188	39.433422862°N	108.032948999°W
2,400.00	27.57	6.70	2,220.55	802.06	94.18	14,334,881.452	783,985.585	39.433549436°N	108.032935382°W
2,500.00	27.57	6.70	2,309.20	848.03	99.58	14,334,927.422	783,990.982	39.433676010°N	108.032921765°W
2,600.00	27.57	6.70	2,397.84	894.00	104.98	14,334,973.391	783,996.379	39.433802584°N	108.032908148°W
2,700.00	27.57	6.70	2,486.48	939.97	110.37	14,335,019.360	784,001.776	39.433929157°N	108.032894531°W
2,800.00	27.57	6.70	2,575.13	985.94	115.77	14,335,065.330	784,007.174	39.434055731°N	108.032880914°W
2,900.00	27.57	6.70	2,663.77	1,031.91	121.17	14,335,111.299	784,012.571	39.434182305°N	108.032867297°W
3,000.00	27.57	6.70	2,752.42	1,077.88	126.56	14,335,157.268	784,017.968	39.434308879°N	108.032853680°W
3,100.00	27.57	6.70	2,841.06	1,123.85	131.96	14,335,203.237	784,023.365	39.434435452°N	108.032840063°W
3,200.00	27.57	6.70	2,929.70	1,169.82	137.36	14,335,249.207	784,028.763	39.434562026°N	108.032826446°W
3,300.00	27.57	6.70	3,018.35	1,215.79	142.76	14,335,295.176	784,034.160	39.434688600°N	108.032812829°W
3,400.00	27.57	6.70	3,106.99	1,261.76	148.15	14,335,341.145	784,039.557	39.434815174°N	108.032799212°W
3,500.00	27.57	6.70	3,195.63	1,307.73	153.55	14,335,387.114	784,044.954	39.434941748°N	108.032785594°W
3,595.18	27.57	6.70	3,280.00	1,351.48	158.69	14,335,430.866	784,050.091	39.435062215°N	108.032772634°W
Mesaverde									
3,600.00	27.57	6.70	3,284.28	1,353.70	158.95	14,335,433.084	784,050.352	39.435068321°N	108.032771977°W
3,700.00	27.57	6.70	3,372.92	1,399.67	164.35	14,335,479.053	784,055.749	39.435194895°N	108.032758360°W
3,726.06	27.57	6.70	3,396.02	1,411.65	165.75	14,335,491.033	784,057.155	39.435227880°N	108.032754811°W
Drop 3°/100 at 3726 MD/3396 TVD									
3,800.00	25.35	6.70	3,462.21	1,444.37	169.59	14,335,523.754	784,060.997	39.435317976°N	108.032745118°W
3,900.00	22.35	6.70	3,553.66	1,484.53	174.31	14,335,563.912	784,065.712	39.435428551°N	108.032733222°W
4,000.00	19.35	6.70	3,647.10	1,519.88	178.46	14,335,599.263	784,069.863	39.435525885°N	108.032722750°W
4,100.00	16.35	6.70	3,742.27	1,550.32	182.03	14,335,629.707	784,073.437	39.435609713°N	108.032713732°W
4,200.00	13.35	6.70	3,838.92	1,575.78	185.02	14,335,655.164	784,076.426	39.435679806°N	108.032706191°W

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well BAT 43B-18-07-95 (111279)
Company:	Antero Resources	TVD Reference:	KB @ 5465.00ft (Original Well Elev)
Project:	Monument Ridge	MD Reference:	KB @ 5465.00ft (Original Well Elev)
Site:	Monument Ridge Pad	North Reference:	Grid
Well:	BAT 43B-18-07-95 (111279)	Survey Calculation Method:	Minimum Curvature
Wellbore:	BAT 43B		
Design:	BAT 43B 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	
4,300.00	10.35	6.70	3,936.78	1,596.17	187.42	14,335,675.561	784,078.821	39.435735969°N	108.032700148°W	
4,400.00	7.35	6.70	4,035.57	1,611.46	189.21	14,335,690.844	784,080.615	39.435778051°N	108.032695621°W	
4,500.00	4.35	6.70	4,135.04	1,621.59	190.40	14,335,700.971	784,081.804	39.435805934°N	108.032692621°W	
4,600.00	1.35	6.70	4,234.90	1,626.53	190.98	14,335,705.914	784,082.385	39.435819544°N	108.032691157°W	
4,645.10	0.00	0.00	4,280.00	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
Vertical at 4645 MD/4280 TVD - Top Gas										
4,700.00	0.00	0.00	4,334.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
4,800.00	0.00	0.00	4,434.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
4,900.00	0.00	0.00	4,534.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
5,000.00	0.00	0.00	4,634.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
5,100.00	0.00	0.00	4,734.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
5,200.00	0.00	0.00	4,834.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
5,300.00	0.00	0.00	4,934.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
5,400.00	0.00	0.00	5,034.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
5,500.00	0.00	0.00	5,134.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
5,600.00	0.00	0.00	5,234.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
5,700.00	0.00	0.00	5,334.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
5,800.00	0.00	0.00	5,434.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
5,845.10	0.00	0.00	5,480.00	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
Cameo										
5,900.00	0.00	0.00	5,534.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
6,000.00	0.00	0.00	5,634.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
6,100.00	0.00	0.00	5,734.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
6,200.00	0.00	0.00	5,834.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
6,300.00	0.00	0.00	5,934.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
6,400.00	0.00	0.00	6,034.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
6,500.00	0.00	0.00	6,134.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
6,545.10	0.00	0.00	6,180.00	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
Rollins										
6,600.00	0.00	0.00	6,234.90	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
6,645.10	0.00	0.00	6,280.00	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
BAT 43B Top Gas	0.00	0.00	4,280.00	1,627.06	191.04	14,335,706.443	784,082.447	39.435821000°N	108.032691000°W	
- hit/miss target										
- Shape										
- plan hits target center										
- Circle (radius 25.00)										

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,025.00	999.58	Surf Csg at 1025 MD/1000 MD	5.50	6.00	

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well BAT 43B-18-07-95 (111279)
Company:	Antero Resources	TVD Reference:	KB @ 5465.00ft (Original Well Elev)
Project:	Monument Ridge	MD Reference:	KB @ 5465.00ft (Original Well Elev)
Site:	Monument Ridge Pad	North Reference:	Grid
Well:	BAT 43B-18-07-95 (111279)	Survey Calculation Method:	Minimum Curvature
Wellbore:	BAT 43B		
Design:	BAT 43B P01		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,595.18	3,280.00	Mesaverde			
4,645.10	4,280.00	Top Gas			
5,845.10	5,480.00	Cameo			
6,545.10	6,180.00	Rollins			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.00	200.00	0.00	0.00	KOP 3°/100 at 200 MD/TVD
1,075.00	1,044.99	174.24	20.47	Build 3°/100 at 1075 MD/1045 TVD
1,169.04	1,129.39	195.03	22.91	Hold 28° at 1169 MD/1129 TVD
3,726.06	3,396.02	236.20	27.74	Drop 3°/100 at 3726 MD/3396 TVD
4,645.10	4,280.00	1,411.64	165.75	Vertical at 4645 MD/4280 TVD
6,645.10	6,280.00	1,627.06	191.04	TD at 6645 MD/6280 TVD