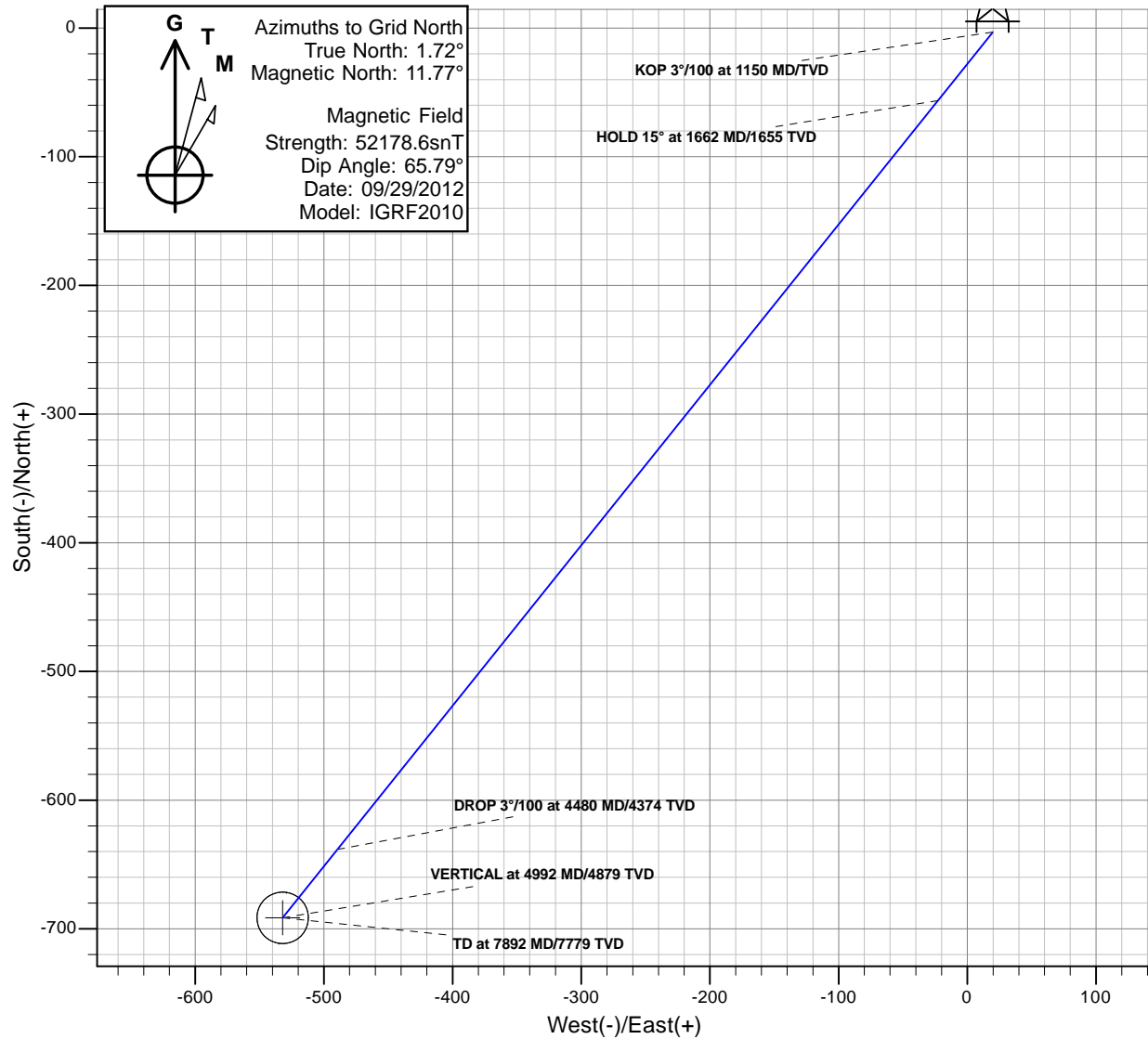
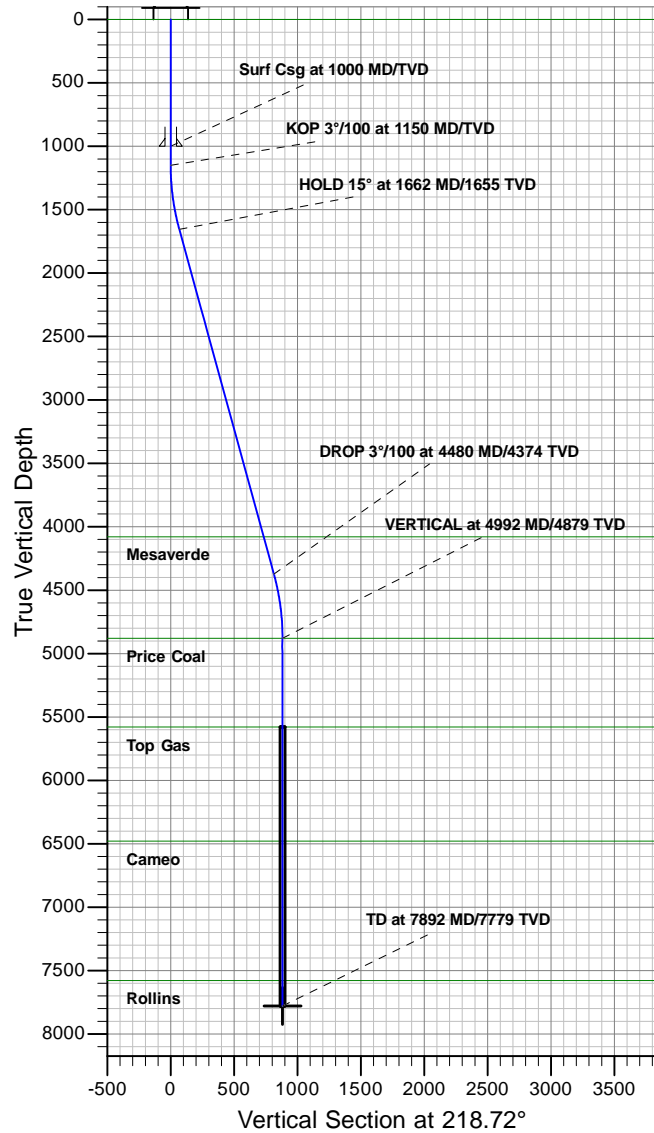




# Antero Resources

Dever C06 (112042)  
Dever C06 P01



## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Site Dever C, Grid North  
Vertical (TVD) Reference: KB @ 5609.00ft (Original Well Elev)  
Section (VS) Reference: Slot - C06(-3.22N, 19.72E)  
Measured Depth Reference: KB @ 5609.00ft (Original Well Elev)  
Calculation Method: Minimum Curvature

## PROJECT DETAILS: Dever

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

## SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
0.00	0.00	0.00	0.00	-3.22	19.72	0.00	0.00	0.00	
1150.00	0.00	0.00	1150.00	-3.22	19.72	0.00	0.00	0.00	
1661.53	15.35	218.72	1655.44	-56.35	-22.88	3.00	218.72	68.10	
4480.15	15.35	218.72	4373.56	-638.35	-489.47	0.00	0.00	814.04	
4991.69	0.00	218.72	4879.00	-691.48	-532.07	3.00	180.00	882.13	
7891.69	0.00	218.72	7779.00	-691.48	-532.07	0.00	218.72	882.13	BH C06



# **Antero Resources**

**Dever**

**Dever C**

**Dever C06 (112042) - Slot C06**

**Dever C06**

**Plan: Dever C06 P01**

## **Standard Planning Report - Geographic**

**10 July, 2012**



<b>Database:</b>	EDM5000	<b>Local Co-ordinate Reference:</b>	Site Dever C
<b>Company:</b>	Antero Resources	<b>TVD Reference:</b>	KB @ 5609.00ft (Original Well Elev)
<b>Project:</b>	Dever	<b>MD Reference:</b>	KB @ 5609.00ft (Original Well Elev)
<b>Site:</b>	Dever C	<b>North Reference:</b>	Grid
<b>Well:</b>	Dever C06 (112042)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Dever C06		
<b>Design:</b>	Dever C06 P01		

Project	Dever		
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	Dever C					
Site Position:		Northing:	14,366,374.09 usft	Latitude:	39.528240000°N	
From:	Map	Easting:	879,108.20 usft	Longitude:	107.699784000°W	
Position Uncertainty:		0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.72 °

Well	Dever C06 (112042) - Slot C06					
Well Position	+N/-S	-3.22 ft	Northing:	14,366,370.86 usft	Latitude:	39.528232781°N
	+E/-W	19.72 ft	Easting:	879,127.92 usft	Longitude:	107.699713809°W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,585.00 ft

Wellbore	Dever C06				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/29/12	10.06	65.79	52,179

Design	Dever C06 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	-3.22	19.72	218.72

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	-3.22	19.72	0.00	0.00	0.00	0.00	
1,150.00	0.00	0.00	1,150.00	-3.22	19.72	0.00	0.00	0.00	0.00	
1,661.53	15.35	218.72	1,655.44	-56.35	-22.88	3.00	3.00	0.00	218.72	
4,480.15	15.35	218.72	4,373.56	-638.35	-489.47	0.00	0.00	0.00	0.00	
4,991.69	0.00	218.72	4,879.00	-691.48	-532.07	3.00	-3.00	0.00	180.00	
7,891.69	0.00	218.72	7,779.00	-691.48	-532.07	0.00	0.00	0.00	218.72	BH C06

<b>Database:</b>	EDM5000	<b>Local Co-ordinate Reference:</b>	Site Dever C
<b>Company:</b>	Antero Resources	<b>TVD Reference:</b>	KB @ 5609.00ft (Original Well Elev)
<b>Project:</b>	Dever	<b>MD Reference:</b>	KB @ 5609.00ft (Original Well Elev)
<b>Site:</b>	Dever C	<b>North Reference:</b>	Grid
<b>Well:</b>	Dever C06 (112042)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Dever C06		
<b>Design:</b>	Dever C06 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	-3.22	19.72	14,366,370.86	879,127.92	39.528232781°N	107.699713809°W
<b>Wasatch</b>									
100.00	0.00	0.00	100.00	-3.22	19.72	14,366,370.86	879,127.92	39.528232781°N	107.699713809°W
200.00	0.00	0.00	200.00	-3.22	19.72	14,366,370.86	879,127.92	39.528232781°N	107.699713809°W
300.00	0.00	0.00	300.00	-3.22	19.72	14,366,370.86	879,127.92	39.528232781°N	107.699713809°W
400.00	0.00	0.00	400.00	-3.22	19.72	14,366,370.86	879,127.92	39.528232781°N	107.699713809°W
500.00	0.00	0.00	500.00	-3.22	19.72	14,366,370.86	879,127.92	39.528232781°N	107.699713809°W
600.00	0.00	0.00	600.00	-3.22	19.72	14,366,370.86	879,127.92	39.528232781°N	107.699713809°W
700.00	0.00	0.00	700.00	-3.22	19.72	14,366,370.86	879,127.92	39.528232781°N	107.699713809°W
800.00	0.00	0.00	800.00	-3.22	19.72	14,366,370.86	879,127.92	39.528232781°N	107.699713809°W
900.00	0.00	0.00	900.00	-3.22	19.72	14,366,370.86	879,127.92	39.528232781°N	107.699713809°W
1,000.00	0.00	0.00	1,000.00	-3.22	19.72	14,366,370.86	879,127.92	39.528232781°N	107.699713809°W
<b>Surf Csg at 1000 MD/TVD</b>									
1,100.00	0.00	0.00	1,100.00	-3.22	19.72	14,366,370.86	879,127.92	39.528232781°N	107.699713809°W
1,150.00	0.00	0.00	1,150.00	-3.22	19.72	14,366,370.86	879,127.92	39.528232781°N	107.699713809°W
<b>KOP 3°/100 at 1150 MD/TVD</b>									
1,200.00	1.50	218.72	1,199.99	-3.73	19.31	14,366,370.35	879,127.51	39.528231347°N	107.699715205°W
1,300.00	4.50	218.72	1,299.85	-7.82	16.03	14,366,366.27	879,124.24	39.528219877°N	107.699726367°W
1,400.00	7.50	218.72	1,399.29	-15.97	9.50	14,366,358.11	879,117.70	39.528196967°N	107.699748660°W
1,500.00	10.50	218.72	1,498.04	-28.17	-0.29	14,366,345.91	879,107.92	39.528162682°N	107.699782022°W
1,600.00	13.50	218.72	1,595.85	-44.39	-13.29	14,366,329.69	879,094.91	39.528117115°N	107.699826364°W
1,661.53	15.35	218.72	1,655.44	-56.35	-22.88	14,366,317.73	879,085.33	39.528083521°N	107.699859054°W
<b>HOLD 15° at 1662 MD/1655 TVD</b>									
1,700.00	15.35	218.72	1,692.53	-64.29	-29.25	14,366,309.79	879,078.96	39.528061208°N	107.699880767°W
1,800.00	15.35	218.72	1,788.97	-84.94	-45.80	14,366,289.14	879,062.40	39.528003200°N	107.699937214°W
1,900.00	15.35	218.72	1,885.40	-105.59	-62.35	14,366,268.49	879,045.85	39.527945191°N	107.699993662°W
2,000.00	15.35	218.72	1,981.84	-126.24	-78.91	14,366,247.85	879,029.30	39.527887183°N	107.700050109°W
2,100.00	15.35	218.72	2,078.27	-146.89	-95.46	14,366,227.20	879,012.74	39.527829174°N	107.700106557°W
2,200.00	15.35	218.72	2,174.71	-167.54	-112.02	14,366,206.55	878,996.19	39.527771165°N	107.700163004°W
2,300.00	15.35	218.72	2,271.14	-188.18	-128.57	14,366,185.90	878,979.63	39.527713157°N	107.700219451°W
2,400.00	15.35	218.72	2,367.58	-208.83	-145.12	14,366,165.25	878,963.08	39.527655148°N	107.700275898°W
2,500.00	15.35	218.72	2,464.01	-229.48	-161.68	14,366,144.60	878,946.53	39.527597140°N	107.700332346°W
2,600.00	15.35	218.72	2,560.45	-250.13	-178.23	14,366,123.96	878,929.97	39.527539131°N	107.700388792°W
2,700.00	15.35	218.72	2,656.88	-270.78	-194.79	14,366,103.31	878,913.42	39.527481122°N	107.700445239°W
2,800.00	15.35	218.72	2,753.31	-291.43	-211.34	14,366,082.66	878,896.86	39.527423114°N	107.700501686°W
2,900.00	15.35	218.72	2,849.75	-312.07	-227.89	14,366,062.01	878,880.31	39.527365105°N	107.700558133°W
3,000.00	15.35	218.72	2,946.18	-332.72	-244.45	14,366,041.36	878,863.76	39.527307096°N	107.700614579°W
3,100.00	15.35	218.72	3,042.62	-353.37	-261.00	14,366,020.72	878,847.20	39.527249087°N	107.700671026°W
3,200.00	15.35	218.72	3,139.05	-374.02	-277.56	14,366,000.07	878,830.65	39.527191078°N	107.700727472°W
3,300.00	15.35	218.72	3,235.49	-394.67	-294.11	14,365,979.42	878,814.09	39.527133070°N	107.700783918°W
3,400.00	15.35	218.72	3,331.92	-415.31	-310.66	14,365,958.77	878,797.54	39.527075061°N	107.700840365°W
3,500.00	15.35	218.72	3,428.36	-435.96	-327.22	14,365,938.12	878,780.99	39.527017052°N	107.700896811°W
3,600.00	15.35	218.72	3,524.79	-456.61	-343.77	14,365,917.47	878,764.43	39.526959043°N	107.700953257°W
3,700.00	15.35	218.72	3,621.22	-477.26	-360.33	14,365,896.83	878,747.88	39.526901034°N	107.701009703°W
3,800.00	15.35	218.72	3,717.66	-497.91	-376.88	14,365,876.18	878,731.32	39.526843025°N	107.701066148°W
3,900.00	15.35	218.72	3,814.09	-518.56	-393.43	14,365,855.53	878,714.77	39.526785016°N	107.701122594°W
4,000.00	15.35	218.72	3,910.53	-539.20	-409.99	14,365,834.88	878,698.22	39.526727007°N	107.701179040°W
4,100.00	15.35	218.72	4,006.96	-559.85	-426.54	14,365,814.23	878,681.66	39.526668998°N	107.701235485°W
4,174.70	15.35	218.72	4,079.00	-575.28	-438.91	14,365,798.81	878,669.30	39.526625665°N	107.701277650°W
<b>Mesaverde</b>									
4,200.00	15.35	218.72	4,103.40	-580.50	-443.10	14,365,793.59	878,665.11	39.526610989°N	107.701291931°W
4,300.00	15.35	218.72	4,199.83	-601.15	-459.65	14,365,772.94	878,648.55	39.526552980°N	107.701348376°W
4,400.00	15.35	218.72	4,296.27	-621.80	-476.20	14,365,752.29	878,632.00	39.526494971°N	107.701404821°W

<b>Database:</b>	EDM5000	<b>Local Co-ordinate Reference:</b>	Site Dever C
<b>Company:</b>	Antero Resources	<b>TVD Reference:</b>	KB @ 5609.00ft (Original Well Elev)
<b>Project:</b>	Dever	<b>MD Reference:</b>	KB @ 5609.00ft (Original Well Elev)
<b>Site:</b>	Dever C	<b>North Reference:</b>	Grid
<b>Well:</b>	Dever C06 (112042)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Dever C06		
<b>Design:</b>	Dever C06 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	
4,480.15	15.35	218.72	4,373.56	-638.35	-489.47	14,365,735.74	878,618.73	39.526448476°N	107.701450063°W	
DROP 3°/100 at 4480 MD/4374 TVD										
4,500.00	14.75	218.72	4,392.73	-642.37	-492.70	14,365,731.72	878,615.51	39.526437180°N	107.701461054°W	
4,600.00	11.75	218.72	4,490.05	-660.25	-507.03	14,365,713.84	878,601.17	39.526386944°N	107.701509935°W	
4,700.00	8.75	218.72	4,588.45	-674.13	-518.16	14,365,699.95	878,590.04	39.526347942°N	107.701547886°W	
4,800.00	5.75	218.72	4,687.64	-683.98	-526.05	14,365,690.11	878,582.15	39.526320281°N	107.701574801°W	
4,900.00	2.75	218.72	4,787.35	-689.76	-530.69	14,365,684.33	878,577.51	39.526304037°N	107.701590607°W	
4,991.69	0.00	218.72	4,879.00	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
VERTICAL at 4992 MD/4879 TVD - Price Coal										
5,000.00	0.00	218.72	4,887.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
5,100.00	0.00	218.72	4,987.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
5,200.00	0.00	218.72	5,087.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
5,300.00	0.00	218.72	5,187.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
5,400.00	0.00	218.72	5,287.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
5,500.00	0.00	218.72	5,387.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
5,600.00	0.00	218.72	5,487.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
5,691.69	0.00	218.72	5,579.00	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
Top Gas										
5,700.00	0.00	218.72	5,587.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
5,800.00	0.00	218.72	5,687.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
5,900.00	0.00	218.72	5,787.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
6,000.00	0.00	218.72	5,887.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
6,100.00	0.00	218.72	5,987.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
6,200.00	0.00	218.72	6,087.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
6,300.00	0.00	218.72	6,187.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
6,400.00	0.00	218.72	6,287.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
6,500.00	0.00	218.72	6,387.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
6,591.69	0.00	218.72	6,479.00	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
Cameo										
6,600.00	0.00	218.72	6,487.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
6,700.00	0.00	218.72	6,587.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
6,800.00	0.00	218.72	6,687.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
6,900.00	0.00	218.72	6,787.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
7,000.00	0.00	218.72	6,887.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
7,100.00	0.00	218.72	6,987.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
7,200.00	0.00	218.72	7,087.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
7,300.00	0.00	218.72	7,187.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
7,400.00	0.00	218.72	7,287.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
7,500.00	0.00	218.72	7,387.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
7,600.00	0.00	218.72	7,487.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
7,691.69	0.00	218.72	7,579.00	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
Rollins										
7,700.00	0.00	218.72	7,587.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
7,800.00	0.00	218.72	7,687.31	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
7,891.69	0.00	218.72	7,779.00	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W	
TD at 7892 MD/7779 TVD - BH C06										

<b>Database:</b>	EDM5000	<b>Local Co-ordinate Reference:</b>	Site Dever C
<b>Company:</b>	Antero Resources	<b>TVD Reference:</b>	KB @ 5609.00ft (Original Well Elev)
<b>Project:</b>	Dever	<b>MD Reference:</b>	KB @ 5609.00ft (Original Well Elev)
<b>Site:</b>	Dever C	<b>North Reference:</b>	Grid
<b>Well:</b>	Dever C06 (112042)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Dever C06		
<b>Design:</b>	Dever C06 P01		

Design Targets									
Target Name									
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
BH C06	0.00	0.00	7,779.00	-691.48	-532.07	14,365,682.61	878,576.14	39.526299214°N	107.701595300°W
- plan hits target center									
- Circle (radius 20.00)									

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	5.500	6.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
0.00	0.00	Wasatch			
4,174.70	4,079.00	Mesaverde			
4,991.69	4,879.00	Price Coal			
5,691.69	5,579.00	Top Gas			
6,591.69	6,479.00	Cameo			
7,691.69	7,579.00	Rollins			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,150.00	1,150.00	-3.22	19.72	KOP 3°/100 at 1150 MD/TVD	
1,661.53	1,655.44	-56.35	-22.88	HOLD 15° at 1662 MD/1655 TVD	
4,480.15	4,373.56	-638.35	-489.47	DROP 3°/100 at 4480 MD/4374 TVD	
4,991.69	4,879.00	-691.48	-532.07	VERTICAL at 4992 MD/4879 TVD	
7,891.69	7,779.00	-691.48	-532.07	TD at 7892 MD/7779 TVD	