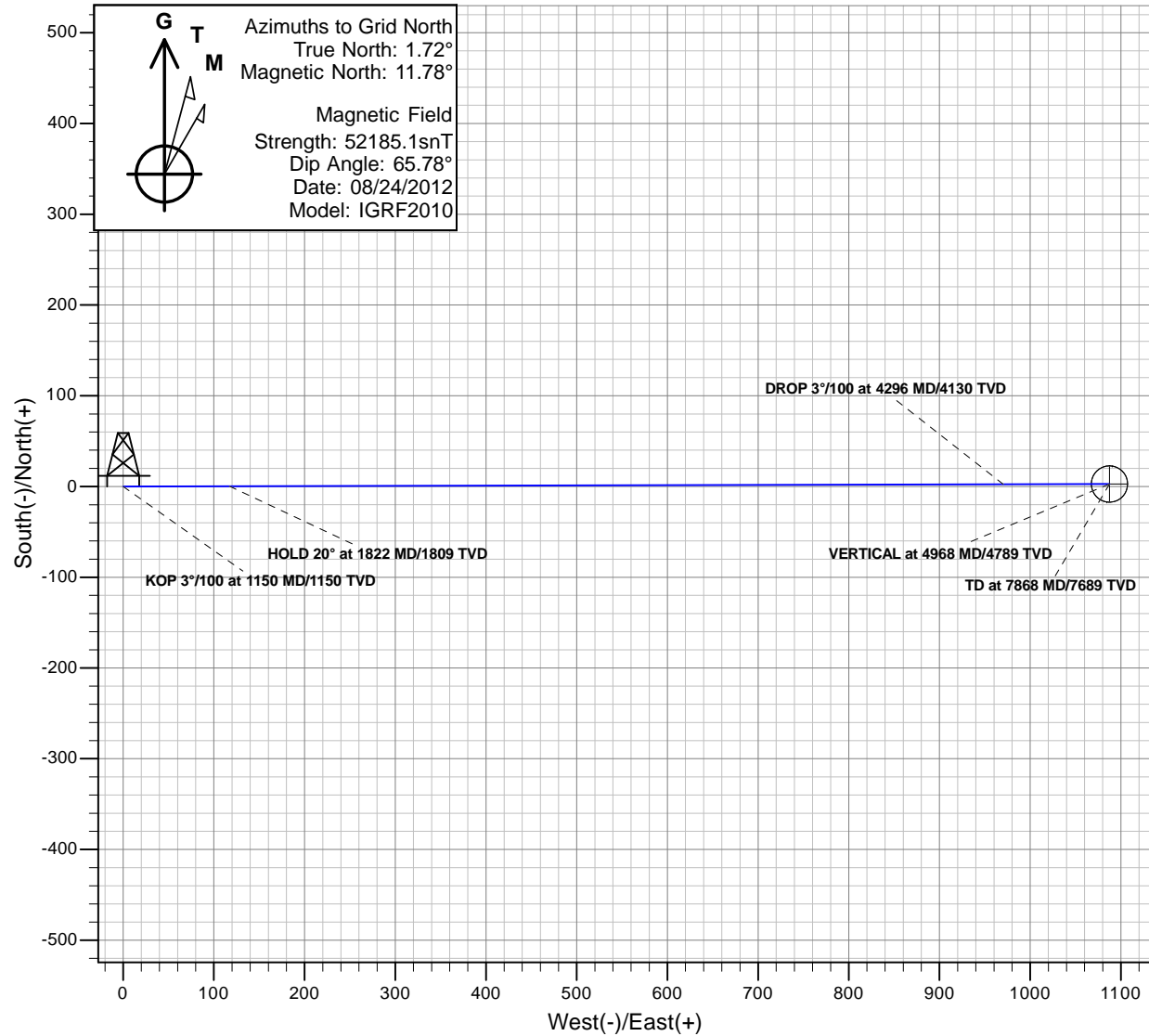
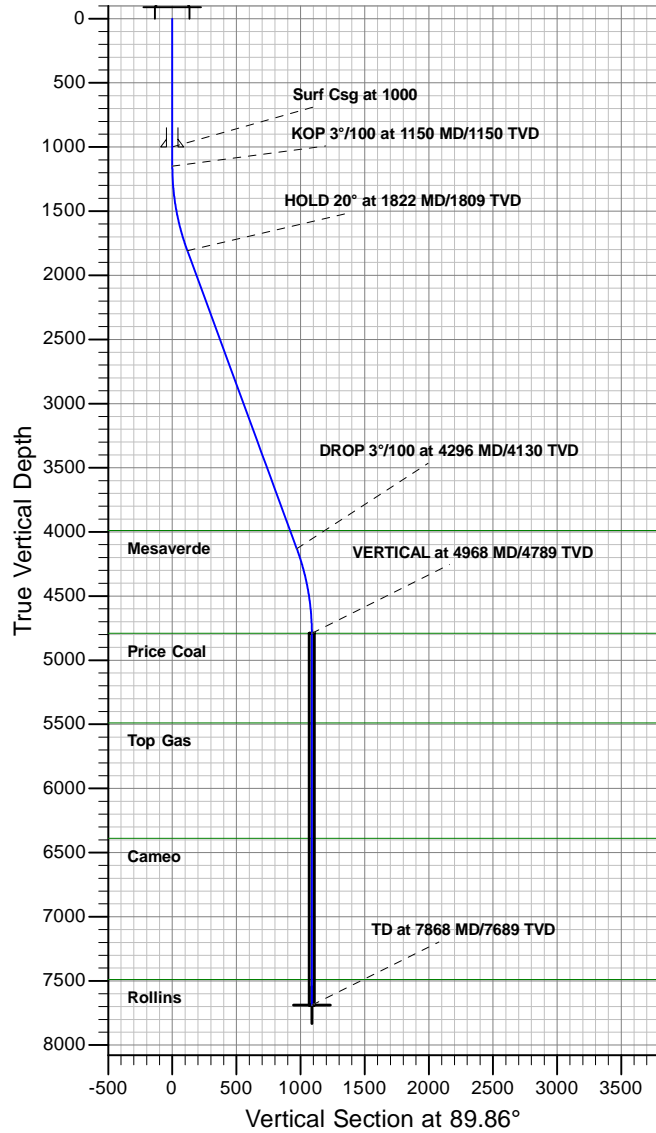




Antero Resources

Gentry E11 (112033)
Gentry E11 P01



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Gentry E11 (112033), Grid North
Vertical (TVD) Reference: KB @ 5690.00ft (Original Well Elev)
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: KB @ 5690.00ft (Original Well Elev)
Calculation Method: Minimum Curvature

PROJECT DETAILS: Gentry

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	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1150.00	0.00	0.00	1150.00	0.00	0.00	0.00	0.00	0.00	
1822.49	20.17	89.86	1808.68	0.29	117.18	3.00	89.86	117.18	
4295.88	20.17	89.86	4130.32	2.41	970.21	0.00	0.00	970.21	
4968.38	0.00	360.00	4789.00	2.70	1087.39	3.00	180.00	1087.39	
7868.38	0.00	360.00	7689.00	2.70	1087.39	0.00	360.00	1087.39	E11 BH 7689 TVD



Antero Resources

Gentry

Gentry E

Gentry E11 (112033)

Gentry E11

Plan: Gentry E11 P01

Standard Planning Report - Geographic

30 May, 2012



Database:	EDM5000	Local Co-ordinate Reference:	Well Gentry E11 (112033)
Company:	Antero Resources	TVD Reference:	KB @ 5690.00ft (Original Well Elev)
Project:	Gentry	MD Reference:	KB @ 5690.00ft (Original Well Elev)
Site:	Gentry E	North Reference:	Grid
Well:	Gentry E11 (112033)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gentry E11		
Design:	Gentry E11 P01		

Project	Gentry		
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	Gentry E					
Site Position:		Northing:	14,363,914.47 usft	Latitude:	39.521619566°N	
From:	Map	Easting:	880,654.83 usft	Longitude:	107.694044034°W	
Position Uncertainty:		0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.72 °

Well	Gentry E11 (112033)					
Well Position	+N/-S	0.00 ft	Northing:	14,363,896.75 usft	Latitude:	39.521575668°N
	+E/-W	0.00 ft	Easting:	880,712.16 usft	Longitude:	107.693839108°W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,666.00 ft

Wellbore	Gentry E11				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/24/12	10.07	65.78	52,185

Design	Gentry E11 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	89.86

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	
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,822.49	20.17	89.86	1,808.68	0.29	117.18	3.00	3.00	0.00	89.86	
4,295.88	20.17	89.86	4,130.32	2.41	970.21	0.00	0.00	0.00	0.00	
4,968.38	0.00	360.00	4,789.00	2.70	1,087.39	3.00	-3.00	0.00	180.00	
7,868.38	0.00	360.00	7,689.00	2.70	1,087.39	0.00	0.00	0.00	360.00	E11 BH 7689 TVD



Database:	EDM5000	Local Co-ordinate Reference:	Well Gentry E11 (112033)
Company:	Antero Resources	TVD Reference:	KB @ 5690.00ft (Original Well Elev)
Project:	Gentry	MD Reference:	KB @ 5690.00ft (Original Well Elev)
Site:	Gentry E	North Reference:	Grid
Well:	Gentry E11 (112033)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gentry E11		
Design:	Gentry E11 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	14,363,896.75	880,712.16	39.521575668°N	107.693839108°W
100.00	0.00	0.00	100.00	0.00	0.00	14,363,896.75	880,712.16	39.521575668°N	107.693839108°W
200.00	0.00	0.00	200.00	0.00	0.00	14,363,896.75	880,712.16	39.521575668°N	107.693839108°W
300.00	0.00	0.00	300.00	0.00	0.00	14,363,896.75	880,712.16	39.521575668°N	107.693839108°W
400.00	0.00	0.00	400.00	0.00	0.00	14,363,896.75	880,712.16	39.521575668°N	107.693839108°W
500.00	0.00	0.00	500.00	0.00	0.00	14,363,896.75	880,712.16	39.521575668°N	107.693839108°W
600.00	0.00	0.00	600.00	0.00	0.00	14,363,896.75	880,712.16	39.521575668°N	107.693839108°W
700.00	0.00	0.00	700.00	0.00	0.00	14,363,896.75	880,712.16	39.521575668°N	107.693839108°W
800.00	0.00	0.00	800.00	0.00	0.00	14,363,896.75	880,712.16	39.521575668°N	107.693839108°W
900.00	0.00	0.00	900.00	0.00	0.00	14,363,896.75	880,712.16	39.521575668°N	107.693839108°W
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,363,896.75	880,712.16	39.521575668°N	107.693839108°W
Surf Csg at 1000									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,363,896.75	880,712.16	39.521575668°N	107.693839108°W
1,150.00	0.00	0.00	1,150.00	0.00	0.00	14,363,896.75	880,712.16	39.521575668°N	107.693839108°W
KOP 3°/100 at 1150 MD/1150 TVD									
1,200.00	1.50	89.86	1,199.99	0.00	0.65	14,363,896.75	880,712.81	39.521575726°N	107.693836789°W
1,300.00	4.50	89.86	1,299.85	0.01	5.89	14,363,896.77	880,718.04	39.521576192°N	107.693818254°W
1,400.00	7.50	89.86	1,399.29	0.04	16.34	14,363,896.79	880,728.49	39.521577121°N	107.693781235°W
1,500.00	10.50	89.86	1,498.04	0.08	31.98	14,363,896.83	880,744.14	39.521578513°N	107.693725833°W
1,600.00	13.50	89.86	1,595.85	0.13	52.77	14,363,896.88	880,764.92	39.521580362°N	107.693652201°W
1,700.00	16.50	89.86	1,692.43	0.20	78.65	14,363,896.95	880,790.80	39.521582664°N	107.693560539°W
1,800.00	19.50	89.86	1,787.52	0.27	109.55	14,363,897.02	880,821.70	39.521585412°N	107.693451099°W
1,822.49	20.17	89.86	1,808.68	0.29	117.18	14,363,897.04	880,829.33	39.521586091°N	107.693424065°W
HOLD 20° at 1822 MD/1809 TVD									
1,900.00	20.17	89.86	1,881.43	0.36	143.91	14,363,897.11	880,856.07	39.521588468°N	107.693329384°W
2,000.00	20.17	89.86	1,975.30	0.44	178.40	14,363,897.20	880,890.55	39.521591535°N	107.693207227°W
2,100.00	20.17	89.86	2,069.16	0.53	212.89	14,363,897.28	880,925.04	39.521594602°N	107.693085071°W
2,200.00	20.17	89.86	2,163.03	0.61	247.38	14,363,897.37	880,959.53	39.521597669°N	107.692962915°W
2,300.00	20.17	89.86	2,256.89	0.70	281.86	14,363,897.45	880,994.02	39.521600736°N	107.692840758°W
2,400.00	20.17	89.86	2,350.76	0.79	316.35	14,363,897.54	881,028.51	39.521603803°N	107.692718602°W
2,500.00	20.17	89.86	2,444.62	0.87	350.84	14,363,897.62	881,063.00	39.521606869°N	107.692596445°W
2,600.00	20.17	89.86	2,538.49	0.96	385.33	14,363,897.71	881,097.48	39.521609936°N	107.692474289°W
2,700.00	20.17	89.86	2,632.35	1.04	419.82	14,363,897.80	881,131.97	39.521613002°N	107.692352132°W
2,800.00	20.17	89.86	2,726.21	1.13	454.31	14,363,897.88	881,166.46	39.521616068°N	107.692229976°W
2,900.00	20.17	89.86	2,820.08	1.21	488.79	14,363,897.97	881,200.95	39.521619134°N	107.692107819°W
3,000.00	20.17	89.86	2,913.94	1.30	523.28	14,363,898.05	881,235.44	39.521622200°N	107.691985663°W
3,100.00	20.17	89.86	3,007.81	1.38	557.77	14,363,898.14	881,269.93	39.521625266°N	107.691863506°W
3,200.00	20.17	89.86	3,101.67	1.47	592.26	14,363,898.22	881,304.41	39.521628332°N	107.691741350°W
3,300.00	20.17	89.86	3,195.54	1.56	626.75	14,363,898.31	881,338.90	39.521631397°N	107.691619193°W
3,400.00	20.17	89.86	3,289.40	1.64	661.24	14,363,898.39	881,373.39	39.521634463°N	107.691497037°W
3,500.00	20.17	89.86	3,383.27	1.73	695.72	14,363,898.48	881,407.88	39.521637528°N	107.691374880°W
3,600.00	20.17	89.86	3,477.13	1.81	730.21	14,363,898.57	881,442.37	39.521640593°N	107.691252723°W
3,700.00	20.17	89.86	3,571.00	1.90	764.70	14,363,898.65	881,476.85	39.521643658°N	107.691130567°W
3,800.00	20.17	89.86	3,664.86	1.98	799.19	14,363,898.74	881,511.34	39.521646723°N	107.691008410°W
3,900.00	20.17	89.86	3,758.72	2.07	833.68	14,363,898.82	881,545.83	39.521649788°N	107.690886253°W
4,000.00	20.17	89.86	3,852.59	2.16	868.17	14,363,898.91	881,580.32	39.521652853°N	107.690764097°W
4,100.00	20.17	89.86	3,946.45	2.24	902.65	14,363,898.99	881,614.81	39.521655917°N	107.690641940°W
4,145.33	20.17	89.86	3,989.00	2.28	918.29	14,363,899.03	881,630.44	39.521657306°N	107.690586569°W
Mesaverde									
4,200.00	20.17	89.86	4,040.32	2.33	937.14	14,363,899.08	881,649.30	39.521658982°N	107.690519783°W
4,295.88	20.17	89.86	4,130.32	2.41	970.21	14,363,899.16	881,682.37	39.521661920°N	107.690402654°W
DROP 3°/100 at 4296 MD/4130 TVD									
4,300.00	20.05	89.86	4,134.18	2.41	971.63	14,363,899.17	881,683.78	39.521662045°N	107.690397641°W
4,400.00	17.05	89.86	4,228.98	2.49	1,003.44	14,363,899.24	881,715.59	39.521664872°N	107.690284966°W



Database:	EDM5000	Local Co-ordinate Reference:	Well Gentry E11 (112033)
Company:	Antero Resources	TVD Reference:	KB @ 5690.00ft (Original Well Elev)
Project:	Gentry	MD Reference:	KB @ 5690.00ft (Original Well Elev)
Site:	Gentry E	North Reference:	Grid
Well:	Gentry E11 (112033)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gentry E11		
Design:	Gentry E11 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	14.05	89.86	4,325.30	2.56	1,030.25	14,363,899.31	881,742.40	39.521667253°N	107.690190016°W
4,600.00	11.05	89.86	4,422.90	2.61	1,051.97	14,363,899.36	881,764.13	39.521669184°N	107.690113053°W
4,700.00	8.05	89.86	4,521.51	2.65	1,068.56	14,363,899.41	881,780.72	39.521670658°N	107.690054288°W
4,800.00	5.05	89.86	4,620.84	2.68	1,079.97	14,363,899.43	881,792.13	39.521671671°N	107.690013882°W
4,900.00	2.05	89.86	4,720.64	2.70	1,086.17	14,363,899.45	881,798.32	39.521672221°N	107.689991945°W
4,968.38	0.00	360.00	4,789.00	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
VERTICAL at 4968 MD/4789 TVD - Price Coal									
5,000.00	0.00	360.00	4,820.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
5,100.00	0.00	360.00	4,920.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
5,200.00	0.00	360.00	5,020.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
5,300.00	0.00	360.00	5,120.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
5,400.00	0.00	360.00	5,220.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
5,500.00	0.00	360.00	5,320.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
5,600.00	0.00	360.00	5,420.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
5,668.38	0.00	360.00	5,489.00	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
Top Gas									
5,700.00	0.00	360.00	5,520.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
5,800.00	0.00	360.00	5,620.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
5,900.00	0.00	360.00	5,720.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
6,000.00	0.00	360.00	5,820.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
6,100.00	0.00	360.00	5,920.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
6,200.00	0.00	360.00	6,020.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
6,300.00	0.00	360.00	6,120.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
6,400.00	0.00	360.00	6,220.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
6,500.00	0.00	360.00	6,320.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
6,568.38	0.00	360.00	6,389.00	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
Cameo									
6,600.00	0.00	360.00	6,420.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
6,700.00	0.00	360.00	6,520.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
6,800.00	0.00	360.00	6,620.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
6,900.00	0.00	360.00	6,720.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
7,000.00	0.00	360.00	6,820.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
7,100.00	0.00	360.00	6,920.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
7,200.00	0.00	360.00	7,020.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
7,300.00	0.00	360.00	7,120.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
7,400.00	0.00	360.00	7,220.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
7,500.00	0.00	360.00	7,320.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
7,600.00	0.00	360.00	7,420.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
7,668.38	0.00	360.00	7,489.00	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
Rollins									
7,700.00	0.00	360.00	7,520.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
7,800.00	0.00	360.00	7,620.62	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
7,868.38	0.00	360.00	7,689.00	2.70	1,087.39	14,363,899.45	881,799.54	39.521672330°N	107.689987610°W
TD at 7868 MD/7689 TVD									

Database:	EDM5000	Local Co-ordinate Reference:	Well Gentry E11 (112033)
Company:	Antero Resources	TVD Reference:	KB @ 5690.00ft (Original Well Elev)
Project:	Gentry	MD Reference:	KB @ 5690.00ft (Original Well Elev)
Site:	Gentry E	North Reference:	Grid
Well:	Gentry E11 (112033)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gentry E11		
Design:	Gentry E11 P01		

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)		
E11 BH 7689 TVD	0.00	0.00	7,689.00	2.70	1,087.39	14,363,899.45	881,799.54	39.521672328°N	107.689987610°W
- plan hits target center									
- Circle (radius 20.00)									

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		5.500	6.000

Formations					
Measured Depth	Vertical Depth			Dip	Dip Direction
(ft)	(ft)	Name	Lithology	(°)	(°)
4,145.33	3,989.00	Mesaverde			
4,968.38	4,789.00	Price Coal			
5,668.38	5,489.00	Top Gas			
6,568.38	6,389.00	Cameo			
7,668.38	7,489.00	Rollins			

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W	Comment	
(ft)	(ft)	(ft)	(ft)		
1,150.00	1,150.00	0.00	0.00	KOP 3°/100 at 1150 MD/1150 TVD	
1,822.49	1,808.68	0.29	117.18	HOLD 20° at 1822 MD/1809 TVD	
4,295.88	4,130.32	2.41	970.21	DROP 3°/100 at 4296 MD/4130 TVD	
4,968.38	4,789.00	2.70	1,087.39	VERTICAL at 4968 MD/4789 TVD	
7,868.38	7,689.00	2.70	1,087.39	TD at 7868 MD/7689 TVD	