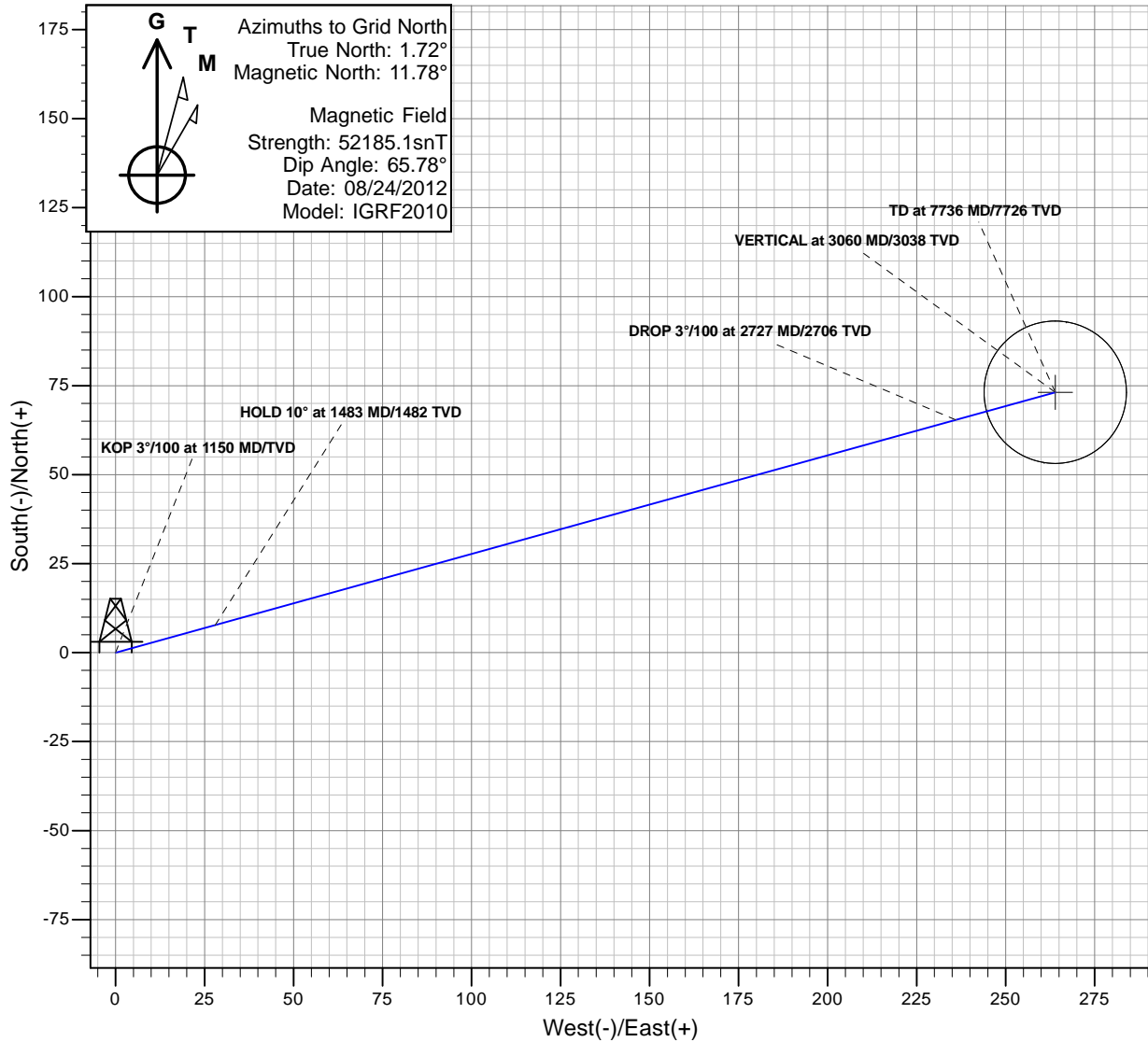
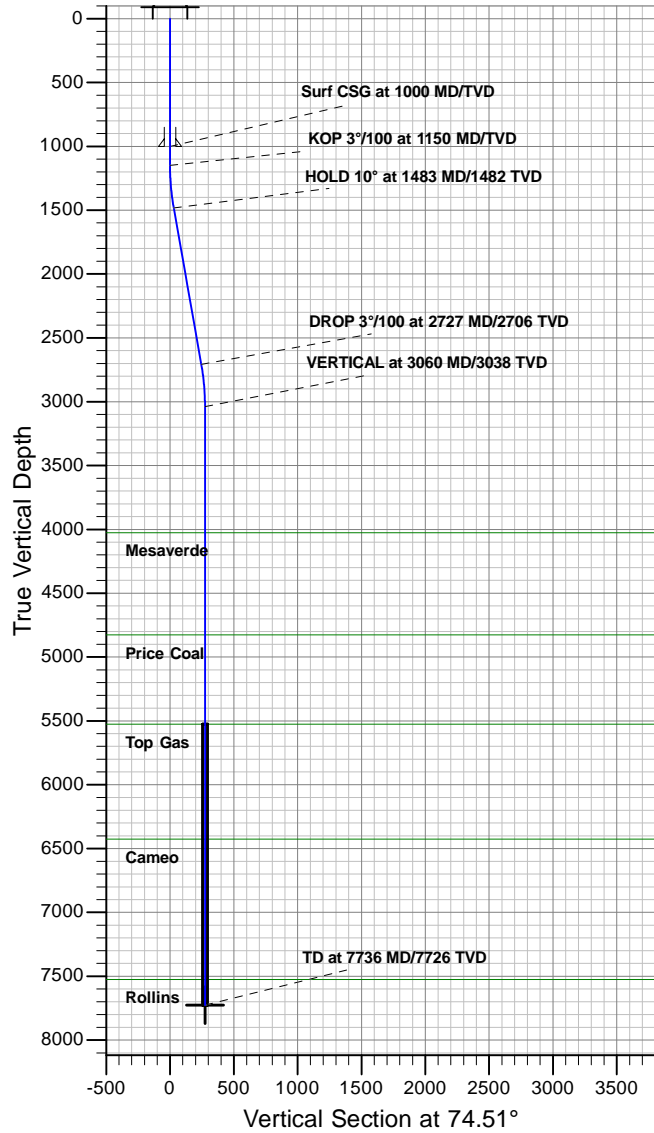




Antero Resources

Gentry E07 (112031)
Gentry E07 P01



REFERENCE INFORMATION	
Co-ordinate (N/E) Reference:	Well Gentry E07 (112031) - Slot E7, Grid North
Vertical (TVD) Reference:	KB @ 5690.00ft (Original Well Elev)
Section (VS) Reference:	Slot - E7(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	
1483.20	10.00	74.51	1481.51	7.74	27.94	3.00	74.51	28.99	
2727.06	10.00	74.51	2706.49	65.40	236.01	0.00	0.00	244.90	
3060.26	0.00	74.51	3038.00	73.14	263.94	3.00	180.00	273.89	
7748.26	0.00	74.51	7726.00	73.14	263.94	0.00	74.51	273.89	E07 BH



Antero Resources

Gentry

Gentry E

Gentry E07 (112031) - Slot E7

Gentry E07

Plan: Gentry E07 P01

Standard Planning Report - Geographic

31 May, 2012





Database:	EDM5000	Local Co-ordinate Reference:	Well Gentry E07 (112031) - Slot E7
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 E07 (112031)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gentry E07		
Design:	Gentry E07 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 E07 (112031) - Slot E7					
Well Position	+N/-S	0.00 ft	Northing:	14,363,902.66 usft	Latitude:	39.521590306°N
	+E/-W	0.00 ft	Easting:	880,693.05 usft	Longitude:	107.693907415°W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,666.00 ft

Wellbore	Gentry E07				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/24/12	10.07	65.78	52,185

Design	Gentry E07 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	74.51

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	
1,483.20	10.00	74.51	1,481.51	7.74	27.94	3.00	3.00	0.00	74.51	
2,727.06	10.00	74.51	2,706.49	65.40	236.01	0.00	0.00	0.00	0.00	
3,060.26	0.00	74.51	3,038.00	73.14	263.94	3.00	-3.00	0.00	180.00	
7,748.26	0.00	74.51	7,726.00	73.14	263.94	0.00	0.00	0.00	74.51	E07 BH



Database:	EDM5000	Local Co-ordinate Reference:	Well Gentry E07 (112031) - Slot E7
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 E07 (112031)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gentry E07		
Design:	Gentry E07 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	14,363,902.66	880,693.05	39.521590306°N	107.693907415°W	
100.00	0.00	0.00	100.00	0.00	0.00	14,363,902.66	880,693.05	39.521590306°N	107.693907415°W	
200.00	0.00	0.00	200.00	0.00	0.00	14,363,902.66	880,693.05	39.521590306°N	107.693907415°W	
300.00	0.00	0.00	300.00	0.00	0.00	14,363,902.66	880,693.05	39.521590306°N	107.693907415°W	
400.00	0.00	0.00	400.00	0.00	0.00	14,363,902.66	880,693.05	39.521590306°N	107.693907415°W	
500.00	0.00	0.00	500.00	0.00	0.00	14,363,902.66	880,693.05	39.521590306°N	107.693907415°W	
600.00	0.00	0.00	600.00	0.00	0.00	14,363,902.66	880,693.05	39.521590306°N	107.693907415°W	
700.00	0.00	0.00	700.00	0.00	0.00	14,363,902.66	880,693.05	39.521590306°N	107.693907415°W	
800.00	0.00	0.00	800.00	0.00	0.00	14,363,902.66	880,693.05	39.521590306°N	107.693907415°W	
900.00	0.00	0.00	900.00	0.00	0.00	14,363,902.66	880,693.05	39.521590306°N	107.693907415°W	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,363,902.66	880,693.05	39.521590306°N	107.693907415°W	
Surf CSG at 1000 MD/TVD										
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,363,902.66	880,693.05	39.521590306°N	107.693907415°W	
1,150.00	0.00	0.00	1,150.00	0.00	0.00	14,363,902.66	880,693.05	39.521590306°N	107.693907415°W	
KOP 3°/100 at 1150 MD/TVD										
1,200.00	1.50	74.51	1,199.99	0.17	0.63	14,363,902.84	880,693.68	39.521590838°N	107.693905200°W	
1,300.00	4.50	74.51	1,299.85	1.57	5.67	14,363,904.23	880,698.72	39.521595085°N	107.693887485°W	
1,400.00	7.50	74.51	1,399.29	4.36	15.75	14,363,907.02	880,708.79	39.521603569°N	107.693852103°W	
1,483.20	10.00	74.51	1,481.51	7.74	27.94	14,363,910.40	880,720.99	39.521613839°N	107.693809272°W	
HOLD 10° at 1483 MD/1482 TVD										
1,500.00	10.00	74.51	1,498.06	8.52	30.75	14,363,911.18	880,723.80	39.521616207°N	107.693799398°W	
1,600.00	10.00	74.51	1,596.54	13.16	47.48	14,363,915.82	880,740.53	39.521630297°N	107.693740637°W	
1,700.00	10.00	74.51	1,695.02	17.79	64.20	14,363,920.45	880,757.25	39.521644386°N	107.693681876°W	
1,800.00	10.00	74.51	1,793.50	22.43	80.93	14,363,925.09	880,773.98	39.521658476°N	107.693623116°W	
1,900.00	10.00	74.51	1,891.99	27.06	97.66	14,363,929.72	880,790.71	39.521672566°N	107.693564355°W	
2,000.00	10.00	74.51	1,990.47	31.70	114.39	14,363,934.36	880,807.44	39.521686655°N	107.693505594°W	
2,100.00	10.00	74.51	2,088.95	36.33	131.11	14,363,938.99	880,824.16	39.521700745°N	107.693446833°W	
2,200.00	10.00	74.51	2,187.43	40.97	147.84	14,363,943.63	880,840.89	39.521714834°N	107.693388072°W	
2,300.00	10.00	74.51	2,285.91	45.60	164.57	14,363,948.26	880,857.62	39.521728924°N	107.693329311°W	
2,400.00	10.00	74.51	2,384.40	50.24	181.30	14,363,952.90	880,874.34	39.521743014°N	107.693270550°W	
2,500.00	10.00	74.51	2,482.88	54.87	198.02	14,363,957.53	880,891.07	39.521757103°N	107.693211789°W	
2,600.00	10.00	74.51	2,581.36	59.51	214.75	14,363,962.17	880,907.80	39.521771192°N	107.693153027°W	
2,700.00	10.00	74.51	2,679.84	64.14	231.48	14,363,966.80	880,924.53	39.521785282°N	107.693094266°W	
2,727.06	10.00	74.51	2,706.49	65.40	236.01	14,363,968.06	880,929.05	39.521789094°N	107.693078365°W	
DROP 3°/100 at 2727 MD/2706 TVD										
2,800.00	7.81	74.51	2,778.55	68.41	246.88	14,363,971.07	880,939.93	39.521798255°N	107.693040159°W	
2,900.00	4.81	74.51	2,877.93	71.34	257.47	14,363,974.00	880,950.52	39.521807172°N	107.693002969°W	
3,000.00	1.81	74.51	2,977.75	72.88	263.03	14,363,975.54	880,956.08	39.521811855°N	107.692983439°W	
3,060.26	0.00	74.51	3,038.00	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
VERTICAL at 3060 MD/3038 TVD										
3,100.00	0.00	74.51	3,077.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
3,200.00	0.00	74.51	3,177.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
3,300.00	0.00	74.51	3,277.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
3,400.00	0.00	74.51	3,377.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
3,500.00	0.00	74.51	3,477.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
3,600.00	0.00	74.51	3,577.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
3,700.00	0.00	74.51	3,677.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
3,800.00	0.00	74.51	3,777.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
3,900.00	0.00	74.51	3,877.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
4,000.00	0.00	74.51	3,977.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
4,048.26	0.00	74.51	4,026.00	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
Mesaverde										
4,100.00	0.00	74.51	4,077.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
4,200.00	0.00	74.51	4,177.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	



Database:	EDM5000	Local Co-ordinate Reference:	Well Gentry E07 (112031) - Slot E7
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 E07 (112031)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gentry E07		
Design:	Gentry E07 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	0.00	74.51	4,277.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
4,400.00	0.00	74.51	4,377.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
4,500.00	0.00	74.51	4,477.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
4,600.00	0.00	74.51	4,577.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
4,700.00	0.00	74.51	4,677.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
4,800.00	0.00	74.51	4,777.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
4,848.26	0.00	74.51	4,826.00	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
Price Coal										
4,900.00	0.00	74.51	4,877.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
5,000.00	0.00	74.51	4,977.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
5,100.00	0.00	74.51	5,077.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
5,200.00	0.00	74.51	5,177.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
5,300.00	0.00	74.51	5,277.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
5,400.00	0.00	74.51	5,377.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
5,500.00	0.00	74.51	5,477.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
5,548.26	0.00	74.51	5,526.00	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
Top Gas										
5,600.00	0.00	74.51	5,577.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
5,700.00	0.00	74.51	5,677.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
5,800.00	0.00	74.51	5,777.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
5,900.00	0.00	74.51	5,877.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
6,000.00	0.00	74.51	5,977.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
6,100.00	0.00	74.51	6,077.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
6,200.00	0.00	74.51	6,177.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
6,300.00	0.00	74.51	6,277.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
6,400.00	0.00	74.51	6,377.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
6,448.26	0.00	74.51	6,426.00	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
Cameo										
6,500.00	0.00	74.51	6,477.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
6,600.00	0.00	74.51	6,577.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
6,700.00	0.00	74.51	6,677.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
6,800.00	0.00	74.51	6,777.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
6,900.00	0.00	74.51	6,877.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
7,000.00	0.00	74.51	6,977.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
7,100.00	0.00	74.51	7,077.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
7,200.00	0.00	74.51	7,177.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
7,300.00	0.00	74.51	7,277.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
7,400.00	0.00	74.51	7,377.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
7,500.00	0.00	74.51	7,477.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
7,548.26	0.00	74.51	7,526.00	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
Rollins										
7,600.00	0.00	74.51	7,577.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
7,700.00	0.00	74.51	7,677.74	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
7,748.26	0.00	74.51	7,726.00	73.14	263.94	14,363,975.80	880,956.99	39.521812627°N	107.692980221°W	
TD at 7748 MD/7726 TVD										

Database:	EDM5000	Local Co-ordinate Reference:	Well Gentry E07 (112031) - Slot E7
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 E07 (112031)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Gentry E07		
Design:	Gentry E07 P01		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
E07 BH - hit/miss target - Shape	0.00	0.00	7,726.00	73.14	263.94	14,363,975.80	880,956.99	39.521812626°N	107.692980221°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 (°)
4,048.26	4,026.00	Mesaverde			
4,848.26	4,826.00	Price Coal			
5,548.26	5,526.00	Top Gas			
6,448.26	6,426.00	Cameo			
7,548.26	7,526.00	Rollins			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,150.00	1,150.00	0.00	0.00	KOP 3°/100 at 1150 MD/TVD	
1,483.20	1,481.51	7.74	27.94	HOLD 10° at 1483 MD/1482 TVD	
2,727.06	2,706.49	65.40	236.01	DROP 3°/100 at 2727 MD/2706 TVD	
3,060.26	3,038.00	73.14	263.94	VERTICAL at 3060 MD/3038 TVD	
7,748.26	7,726.00	73.14	263.94	TD at 7748 MD/7726 TVD	