



REFERENCE INFORMATION	
rdinate (N/E) Reference: Well Dixon A07 (112013) - Slot A07, Grid North	
ertical (TVD) Reference: KB @ 5559.00ft (Original Well Elev)	
Section (VS) Reference: Slot - A07(0.00N, 0.00E)	
asured Depth Reference: KB @ 5559.00ft (Original Well Elev)	
Calculation Method: Minimum Curvature	

PROJECT DETAILS: Dixon	
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	VSec	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	
1672.27	15.67	239.53	1665.78	-35.99	-61.16	3.00	239.53	-70.96	
4494.57	15.67	239.53	4383.22	-422.53	-718.07	0.00	0.00	833.16	
5016.84	0.00	239.53	4899.00	-458.52	-779.24	3.00	180.00	904.13	
7916.84	0.00	239.53	7799.00	-458.52	-779.24	0.00	239.53	904.13	BH A07

Antero Resources

Dixon

Dixon A

Dixon A07 (112013) - Slot A07

Dixon A07

Plan: Dixon A07 P01

Standard Planning Report - Geographic

26 April, 2012

Planning Report - Geographic

Database:	EDM5000-New	Local Co-ordinate Reference:	Well Dixon A07 (112013) - Slot A07
Company:	Antero Resources	TVD Reference:	KB @ 5559.00ft (Original Well Elev)
Project:	Dixon	MD Reference:	KB @ 5559.00ft (Original Well Elev)
Site:	Dixon A	North Reference:	Grid
Well:	Dixon A07 (112013)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dixon A07		
Design:	Dixon A07 P01		

Project	Dixon		
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 A		
Site Position:		Northing:	14,366,922.96 usft
From:	Map	Easting:	877,460.93 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	39.529609988°N
		Longitude:	107.705677999°W
		Grid Convergence:	-1.72 °

Well	Dixon A07 (112013) - Slot A07		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	
		Latitude:	39.529607016°N
		Longitude:	107.705926590°W
		Ground Level:	5,535.00 ft

Wellbore	Dixon A07		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	07/25/12	10.08
			Dip Angle
			(°)
			Field Strength
			(nT)
			65.79
			52,197

Design	Dixon A07 P01		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			239.53

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
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	
1,672.27	15.67	239.53	1,665.78	-35.99	-61.16	3.00	3.00	0.00	239.53	
4,494.57	15.67	239.53	4,383.22	-422.53	-718.07	0.00	0.00	0.00	0.00	
5,016.84	0.00	239.53	4,899.00	-458.52	-779.24	3.00	-3.00	0.00	180.00	
7,916.84	0.00	239.53	7,799.00	-458.52	-779.24	0.00	0.00	0.00	239.53	BH A07

Planning Report - Geographic

Database:	EDM5000-New	Local Co-ordinate Reference:	Well Dixon A07 (112013) - Slot A07
Company:	Antero Resources	TVD Reference:	KB @ 5559 00ft (Original Well Elev)
Project:	Dixon	MD Reference:	KB @ 5559 00ft (Original Well Elev)
Site:	Dixon A	North Reference:	Grid
Well:	Dixon A07 (112013)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dixon A07		
Design:	Dixon A07 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	14,366,923.99	877,390.79	39.529607016°N	107.705926590°W
Wasatch									
100.00	0.00	0.00	100.00	0.00	0.00	14,366,923.99	877,390.79	39.529607016°N	107.705926590°W
200.00	0.00	0.00	200.00	0.00	0.00	14,366,923.99	877,390.79	39.529607016°N	107.705926590°W
300.00	0.00	0.00	300.00	0.00	0.00	14,366,923.99	877,390.79	39.529607016°N	107.705926590°W
400.00	0.00	0.00	400.00	0.00	0.00	14,366,923.99	877,390.79	39.529607016°N	107.705926590°W
500.00	0.00	0.00	500.00	0.00	0.00	14,366,923.99	877,390.79	39.529607016°N	107.705926590°W
600.00	0.00	0.00	600.00	0.00	0.00	14,366,923.99	877,390.79	39.529607016°N	107.705926590°W
700.00	0.00	0.00	700.00	0.00	0.00	14,366,923.99	877,390.79	39.529607016°N	107.705926590°W
800.00	0.00	0.00	800.00	0.00	0.00	14,366,923.99	877,390.79	39.529607016°N	107.705926590°W
900.00	0.00	0.00	900.00	0.00	0.00	14,366,923.99	877,390.79	39.529607016°N	107.705926590°W
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,366,923.99	877,390.79	39.529607016°N	107.705926590°W
Surf Csg at 1000 MD/TVD									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,366,923.99	877,390.79	39.529607016°N	107.705926590°W
1,150.00	0.00	0.00	1,150.00	0.00	0.00	14,366,923.99	877,390.79	39.529607016°N	107.705926590°W
KOP 3°/100 at 1150 MD/TVD									
1,200.00	1.50	239.53	1,199.99	-0.33	-0.56	14,366,923.66	877,390.23	39.529606059°N	107.705928553°W
1,300.00	4.50	239.53	1,299.85	-2.99	-5.07	14,366,921.00	877,385.72	39.529598406°N	107.705944247°W
1,400.00	7.50	239.53	1,399.29	-8.29	-14.08	14,366,915.70	877,376.71	39.529583122°N	107.705975594°W
1,500.00	10.50	239.53	1,498.04	-16.22	-27.56	14,366,907.77	877,363.23	39.529560248°N	107.706022506°W
1,600.00	13.50	239.53	1,595.85	-26.76	-45.48	14,366,897.23	877,345.31	39.529529847°N	107.706084855°W
1,672.27	15.67	239.53	1,665.78	-35.99	-61.16	14,366,888.00	877,329.63	39.529503238°N	107.706139426°W
Hold 16° at 1672 MD/1666 TVD									
1,700.00	15.67	239.53	1,692.48	-39.79	-67.62	14,366,884.20	877,323.17	39.529492285°N	107.706161890°W
1,800.00	15.67	239.53	1,788.77	-53.48	-90.89	14,366,870.51	877,299.90	39.529452791°N	107.706242887°W
1,900.00	15.67	239.53	1,885.05	-67.18	-114.17	14,366,856.81	877,276.62	39.529413297°N	107.706323883°W
2,000.00	15.67	239.53	1,981.34	-80.88	-137.44	14,366,843.11	877,253.35	39.529373804°N	107.706404879°W
2,100.00	15.67	239.53	2,077.62	-94.57	-160.72	14,366,829.42	877,230.07	39.529334310°N	107.706485875°W
2,200.00	15.67	239.53	2,173.91	-108.27	-184.00	14,366,815.72	877,206.80	39.529294816°N	107.706566871°W
2,300.00	15.67	239.53	2,270.19	-121.96	-207.27	14,366,802.03	877,183.52	39.529255322°N	107.706647867°W
2,400.00	15.67	239.53	2,366.47	-135.66	-230.55	14,366,788.33	877,160.24	39.529215828°N	107.706728863°W
2,500.00	15.67	239.53	2,462.76	-149.36	-253.82	14,366,774.63	877,136.97	39.529176334°N	107.706809859°W
2,600.00	15.67	239.53	2,559.04	-163.05	-277.10	14,366,760.94	877,113.69	39.529136840°N	107.706890855°W
2,700.00	15.67	239.53	2,655.33	-176.75	-300.37	14,366,747.24	877,090.42	39.529097346°N	107.706971850°W
2,800.00	15.67	239.53	2,751.61	-190.44	-323.65	14,366,733.55	877,067.14	39.529057852°N	107.707052846°W
2,900.00	15.67	239.53	2,847.90	-204.14	-346.93	14,366,719.85	877,043.87	39.529018358°N	107.707133841°W
3,000.00	15.67	239.53	2,944.18	-217.83	-370.20	14,366,706.15	877,020.59	39.528978864°N	107.707214836°W
3,100.00	15.67	239.53	3,040.46	-231.53	-393.48	14,366,692.46	876,997.32	39.528939369°N	107.707295831°W
3,200.00	15.67	239.53	3,136.75	-245.23	-416.75	14,366,678.76	876,974.04	39.528899875°N	107.707376826°W
3,300.00	15.67	239.53	3,233.03	-258.92	-440.03	14,366,665.07	876,950.76	39.528860381°N	107.707457821°W
3,400.00	15.67	239.53	3,329.32	-272.62	-463.30	14,366,651.37	876,927.49	39.528820886°N	107.707538816°W
3,500.00	15.67	239.53	3,425.60	-286.31	-486.58	14,366,637.68	876,904.21	39.528781392°N	107.707619811°W
3,600.00	15.67	239.53	3,521.89	-300.01	-509.86	14,366,623.98	876,880.94	39.528741897°N	107.707700806°W
3,700.00	15.67	239.53	3,618.17	-313.71	-533.13	14,366,610.28	876,857.66	39.528702403°N	107.707781800°W
3,800.00	15.67	239.53	3,714.45	-327.40	-556.41	14,366,596.59	876,834.39	39.528662908°N	107.707862795°W
3,900.00	15.67	239.53	3,810.74	-341.10	-579.68	14,366,582.89	876,811.11	39.528623413°N	107.707943789°W
4,000.00	15.67	239.53	3,907.02	-354.79	-602.96	14,366,569.20	876,787.83	39.528583918°N	107.708024784°W
4,100.00	15.67	239.53	4,003.31	-368.49	-626.23	14,366,555.50	876,764.56	39.528544424°N	107.708105778°W
4,199.39	15.67	239.53	4,099.00	-382.10	-649.37	14,366,541.89	876,741.43	39.528505172°N	107.708186274°W
Mesaverde									
4,200.00	15.67	239.53	4,099.59	-382.19	-649.51	14,366,541.80	876,741.28	39.528504929°N	107.708186772°W
4,300.00	15.67	239.53	4,195.88	-395.88	-672.79	14,366,528.11	876,718.01	39.528465434°N	107.708267766°W
4,400.00	15.67	239.53	4,292.16	-409.58	-696.06	14,366,514.41	876,694.73	39.528425939°N	107.708348760°W

Planning Report - Geographic

Database:	EDM5000-New	Local Co-ordinate Reference:	Well Dixon A07 (112013) - Slot A07
Company:	Antero Resources	TVD Reference:	KB @ 5559.00ft (Original Well Elev)
Project:	Dixon	MD Reference:	KB @ 5559 00ft (Original Well Elev)
Site:	Dixon A	North Reference:	Grd
Well:	Dixon A07 (112013)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dixon A07		
Design:	Dixon A07 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	
4,494.57	15.67	239.53	4,383.22	-422.53	-718.07	14,366,501.46	876,672.72	39.528388587°N	107.708425358°W	
Drop 3"/100 at 4495 MD/4383 TVD										
4,500.00	15.51	239.53	4,388.45	-423.27	-719.33	14,366,500.72	876,671.46	39.528386455°N	107.708429732°W	
4,600.00	12.51	239.53	4,485.46	-435.54	-740.19	14,366,488.45	876,650.61	39.528351066°N	107.708502304°W	
4,700.00	9.51	239.53	4,583.61	-445.22	-756.64	14,366,478.77	876,634.16	39.528323152°N	107.708559549°W	
4,800.00	6.51	239.53	4,682.63	-452.28	-768.64	14,366,471.71	876,622.16	39.528302788°N	107.708601310°W	
4,900.00	3.51	239.53	4,782.23	-456.71	-776.16	14,366,467.28	876,614.64	39.528290030°N	107.708627472°W	
5,000.00	0.51	239.53	4,882.16	-458.48	-779.17	14,366,465.51	876,611.62	39.528284913°N	107.708637965°W	
5,016.84	0.00	239.53	4,899.00	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
Vertical at 5017 MD/4899 TVD - Price Coal										
5,100.00	0.00	239.53	4,982.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
5,200.00	0.00	239.53	5,082.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
5,300.00	0.00	239.53	5,182.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
5,400.00	0.00	239.53	5,282.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
5,500.00	0.00	239.53	5,382.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
5,600.00	0.00	239.53	5,482.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
5,700.00	0.00	239.53	5,582.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
5,716.84	0.00	239.53	5,599.00	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
Top Gas										
5,800.00	0.00	239.53	5,682.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
5,900.00	0.00	239.53	5,782.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
6,000.00	0.00	239.53	5,882.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
6,100.00	0.00	239.53	5,982.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
6,200.00	0.00	239.53	6,082.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
6,300.00	0.00	239.53	6,182.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
6,400.00	0.00	239.53	6,282.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
6,500.00	0.00	239.53	6,382.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
6,600.00	0.00	239.53	6,482.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
6,616.84	0.00	239.53	6,499.00	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
Cameo										
6,700.00	0.00	239.53	6,582.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
6,800.00	0.00	239.53	6,682.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
6,900.00	0.00	239.53	6,782.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
7,000.00	0.00	239.53	6,882.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
7,100.00	0.00	239.53	6,982.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
7,200.00	0.00	239.53	7,082.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
7,300.00	0.00	239.53	7,182.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
7,400.00	0.00	239.53	7,282.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
7,500.00	0.00	239.53	7,382.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
7,600.00	0.00	239.53	7,482.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
7,700.00	0.00	239.53	7,582.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
7,716.84	0.00	239.53	7,599.00	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
Rollins										
7,800.00	0.00	239.53	7,682.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
7,900.00	0.00	239.53	7,782.16	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
7,916.84	0.00	239.53	7,799.00	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708638187°W	
TD at 7917 MD/7799 TVD										

Planning Report - Geographic

Database:	EDM5000-New	Local Co-ordinate Reference:	Well Dixon A07 (112013) - Slot A07
Company:	Antero Resources	TVD Reference:	KB @ 5559.00ft (Original Well Elev)
Project:	Dixon	MD Reference:	KB @ 5559.00ft (Original Well Elev)
Site:	Dixon A	North Reference:	Grid
Well:	Dixon A07 (112013)	Survey Calculation Method:	Minimum Curvature
Wellbore:	Dixon A07		
Design:	Dixon A07 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)		
BH A07	0.00	360.00	7,799.00	-458.52	-779.24	14,366,465.47	876,611.56	39.528284805°N	107.708636187°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 MD/TVD	5.500	6.000

Formations				
Measured Depth	Vertical Depth			
(ft)	(ft)	Name	Lithology	Dip Direction
				(°)
0.00	0.00	Wasatch		
4,199.39	4,099.00	Mesaverde		
5,016.84	4,899.00	Price Coal		
5,716.84	5,599.00	Top Gas		
6,616.84	6,499.00	Cameo		
7,716.84	7,599.00	Rollins		

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(ft)	(ft)	+N/-S	+E/-W	Comment
		(ft)	(ft)	
1,150.00	1,150.00	0.00	0.00	KOP 3°/100 at 1150 MD/TVD
1,672.27	1,665.78	-35.99	-61.16	Hold 16° at 1672 MD/1666 TVD
4,494.57	4,383.22	-422.53	-718.07	Drop 3°/100 at 4495 MD/4383 TVD
5,016.84	4,899.00	-458.52	-779.24	Vertical at 5017 MD/4899 TVD
7,916.84	7,799.00	-458.52	-779.24	TD at 7917 MD/7799 TVD