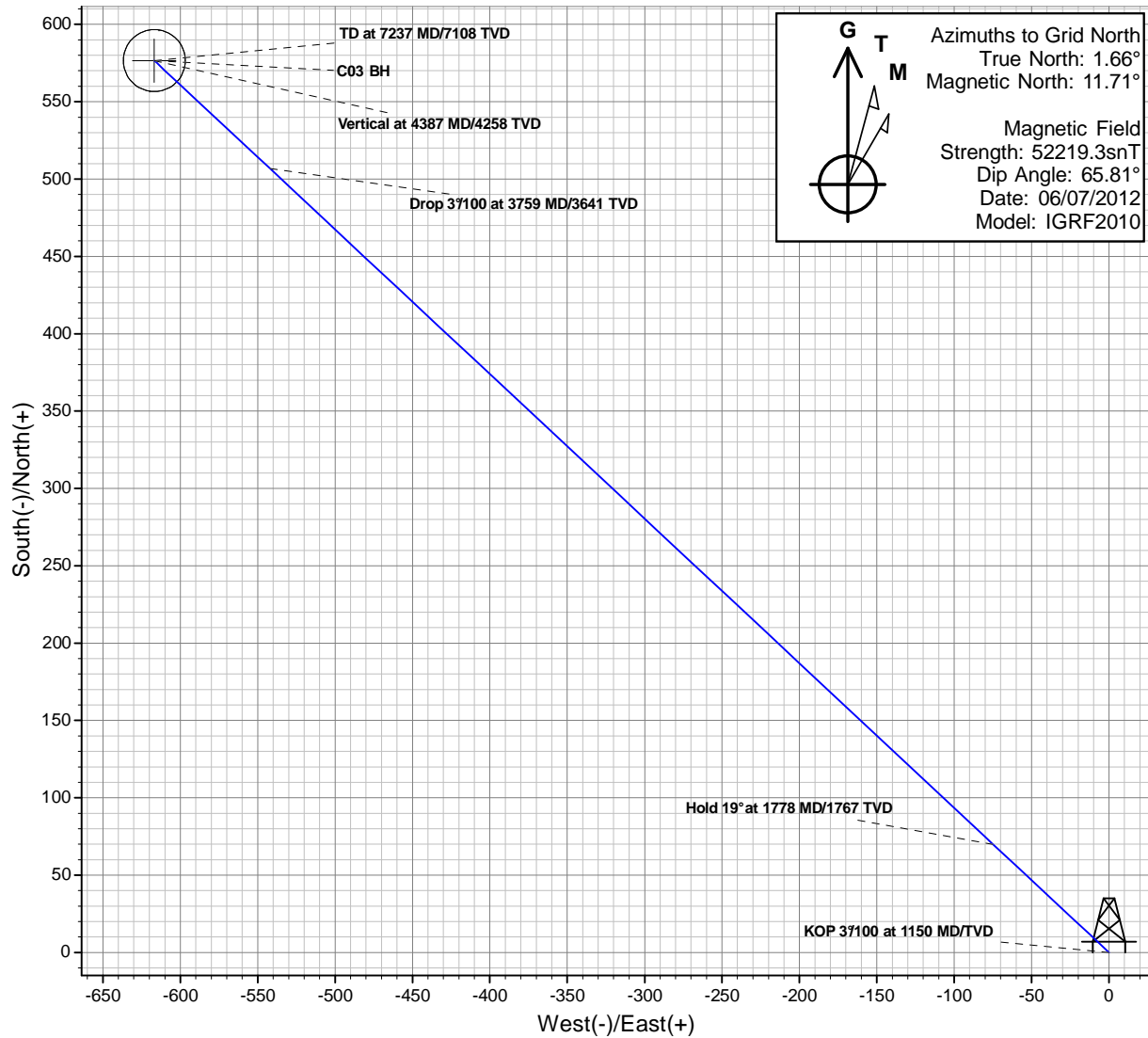
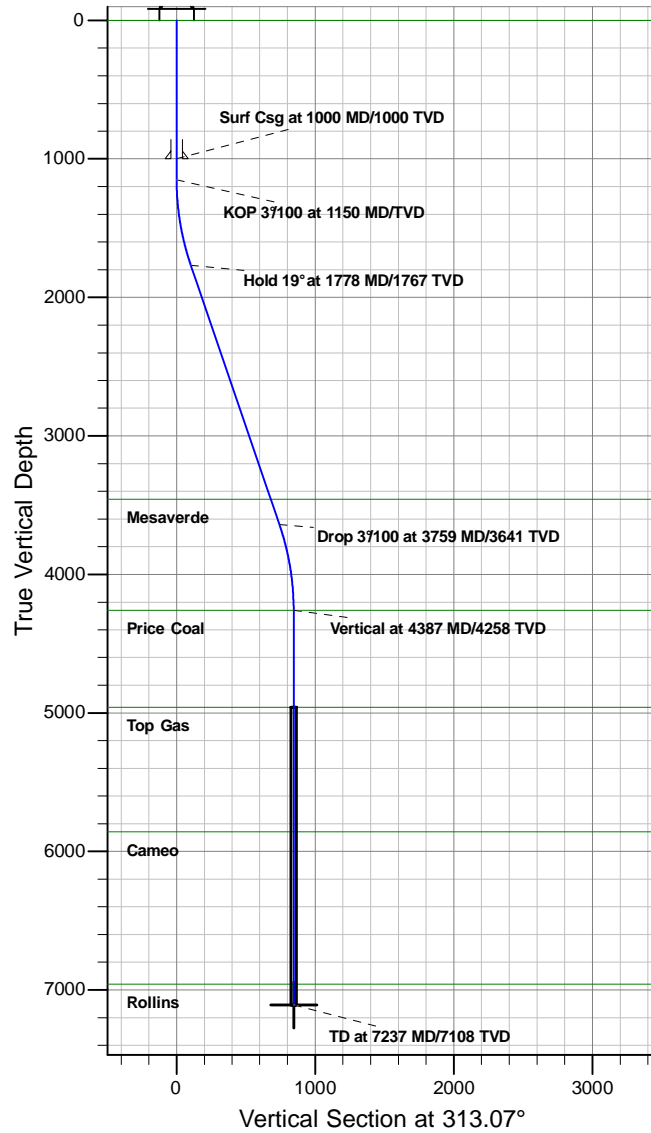




Antero Resources

McLin C03 (111224)
McLin C03 P02



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well McLin C03 (111224), Grid North
Vertical (TVD) Reference: KB @ 5750.00ft (Original Well Elev)
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: KB @ 5750.00ft (Original Well Elev)
Calculation Method: Minimum Curvature

PROJECT DETAILS: McLin

Geodetic System: Universal Transverse Mercator
Datum: NAD83 Colorado - HARN
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	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	
1778.10	18.84	313.07	1766.84	69.90	-74.77	3.00	313.07	102.35	
3758.56	18.84	313.07	3641.16	506.72	-542.03	0.00	0.00	741.99	
4386.66	0.00	313.07	4258.00	576.62	-616.79	3.00	180.00	844.35	
7236.66	0.00	313.07	7108.00	576.62	-616.79	0.00	313.07	844.35	

Antero Resources

McLin

McLin C

McLin C03 (111224)

McLin C03

Plan: McLin C03 P02

Standard Planning Report - Geographic

22 March, 2012

Planning Report - Geographic

Database:	EDM5000-New	Local Co-ordinate Reference:	Well McLin C03 (111224)
Company:	Antero Resources	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Project:	McLin	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	North Reference:	Grid
Well:	McLin C03 (111224)	Survey Calculation Method:	Minimum Curvature
Wellbore:	McLin C03		
Design:	McLin C03 P02		

Project	McLin		
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		McLin C			
Site Position:		Northing:	14,364,522.75 usft	Latitude:	39.525275157°N
From:	Map	Easting:	905,235.88 usft	Longitude:	107.607030464°W
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence:	-1.66 °

Well	McLin C03 (111224)					
Well Position	+N/-S	0.00 ft	Northing:	14,364,543.86 usft	Latitude:	39.525331885°N
	+E/-W	0.00 ft	Easting:	905,221.16 usft	Longitude:	107.607084763°W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,726.00 ft

Wellbore	McLin C03				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/07/12	10.05	65.81	52,219

Design	McLin C03 P02			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	7,108.00	0.00	0.00	313.07

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	
1,778.10	18.84	313.07	1,766.84	69.90	-74.77	3.00	3.00	0.00	313.07	
3,758.56	18.84	313.07	3,641.16	506.72	-542.03	0.00	0.00	0.00	0.00	
4,386.66	0.00	313.07	4,258.00	576.62	-616.79	3.00	-3.00	0.00	180.00	
7,236.66	0.00	313.07	7,108.00	576.62	-616.79	0.00	0.00	0.00	313.07	

Planning Report - Geographic

Database:	EDM5000-New	Local Co-ordinate Reference:	Well McLin C03 (111224)
Company:	Antero Resources	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Project:	McLin	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	North Reference:	Grid
Well:	McLin C03 (111224)	Survey Calculation Method:	Minimum Curvature
Wellbore:	McLin C03		
Design:	McLin C03 P02		

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	14,364,543.86	905,221.16	39.525331885°N	107.607084763°W
Wasatch									
100.00	0.00	0.00	100.00	0.00	0.00	14,364,543.86	905,221.16	39.525331885°N	107.607084763°W
200.00	0.00	0.00	200.00	0.00	0.00	14,364,543.86	905,221.16	39.525331885°N	107.607084763°W
300.00	0.00	0.00	300.00	0.00	0.00	14,364,543.86	905,221.16	39.525331885°N	107.607084763°W
400.00	0.00	0.00	400.00	0.00	0.00	14,364,543.86	905,221.16	39.525331885°N	107.607084763°W
500.00	0.00	0.00	500.00	0.00	0.00	14,364,543.86	905,221.16	39.525331885°N	107.607084763°W
600.00	0.00	0.00	600.00	0.00	0.00	14,364,543.86	905,221.16	39.525331885°N	107.607084763°W
700.00	0.00	0.00	700.00	0.00	0.00	14,364,543.86	905,221.16	39.525331885°N	107.607084763°W
800.00	0.00	0.00	800.00	0.00	0.00	14,364,543.86	905,221.16	39.525331885°N	107.607084763°W
900.00	0.00	0.00	900.00	0.00	0.00	14,364,543.86	905,221.16	39.525331885°N	107.607084763°W
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,364,543.86	905,221.16	39.525331885°N	107.607084763°W
Surf Csg at 1000 MD/1000 TVD									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,364,543.86	905,221.16	39.525331885°N	107.607084763°W
1,150.00	0.00	0.00	1,150.00	0.00	0.00	14,364,543.86	905,221.16	39.525331885°N	107.607084763°W
KOP 3°/100 at 1150 MD/TVD									
1,200.00	1.50	313.07	1,199.99	0.45	-0.48	14,364,544.30	905,220.69	39.525333074°N	107.607086502°W
1,300.00	4.50	313.07	1,299.85	4.02	-4.30	14,364,547.88	905,216.86	39.525342574°N	107.607100412°W
1,400.00	7.50	313.07	1,399.29	11.16	-11.94	14,364,555.01	905,209.23	39.525361550°N	107.607128192°W
1,500.00	10.50	313.07	1,498.04	21.84	-23.36	14,364,565.70	905,197.80	39.525389948°N	107.607169768°W
1,600.00	13.50	313.07	1,595.85	36.04	-38.55	14,364,579.89	905,182.62	39.525427691°N	107.607225025°W
1,700.00	16.50	313.07	1,692.43	53.71	-57.45	14,364,597.57	905,163.71	39.525474675°N	107.607293812°W
1,778.10	18.84	313.07	1,766.84	69.90	-74.77	14,364,613.75	905,146.40	39.525517713°N	107.607356821°W
Hold 19° at 1778 MD/1767 TVD									
1,800.00	18.84	313.07	1,787.57	74.73	-79.94	14,364,618.59	905,141.23	39.525530556°N	107.607375625°W
1,900.00	18.84	313.07	1,882.21	96.79	-103.53	14,364,640.64	905,117.63	39.525589193°N	107.607461472°W
2,000.00	18.84	313.07	1,976.85	118.84	-127.12	14,364,662.70	905,094.04	39.525647830°N	107.607547320°W
2,100.00	18.84	313.07	2,071.49	140.90	-150.72	14,364,684.76	905,070.45	39.525706467°N	107.607633168°W
2,200.00	18.84	313.07	2,166.13	162.96	-174.31	14,364,706.81	905,046.86	39.525765104°N	107.607719016°W
2,300.00	18.84	313.07	2,260.77	185.01	-197.90	14,364,728.87	905,023.26	39.525823741°N	107.607804865°W
2,400.00	18.84	313.07	2,355.41	207.07	-221.50	14,364,750.92	904,999.67	39.525882378°N	107.607890713°W
2,500.00	18.84	313.07	2,450.05	229.12	-245.09	14,364,772.98	904,976.08	39.525941014°N	107.607976561°W
2,600.00	18.84	313.07	2,544.69	251.18	-268.68	14,364,795.04	904,952.48	39.52599651°N	107.608062410°W
2,700.00	18.84	313.07	2,639.33	273.24	-292.28	14,364,817.09	904,928.89	39.526058287°N	107.608148259°W
2,800.00	18.84	313.07	2,733.97	295.29	-315.87	14,364,839.15	904,905.30	39.526116924°N	107.608234108°W
2,900.00	18.84	313.07	2,828.61	317.35	-339.46	14,364,861.21	904,881.70	39.526175560°N	107.608319957°W
3,000.00	18.84	313.07	2,923.25	339.41	-363.06	14,364,883.26	904,858.11	39.526234197°N	107.608405806°W
3,100.00	18.84	313.07	3,017.90	361.46	-386.65	14,364,905.32	904,834.52	39.526292833°N	107.608491655°W
3,200.00	18.84	313.07	3,112.54	383.52	-410.24	14,364,927.37	904,810.92	39.526351469°N	107.608577505°W
3,300.00	18.84	313.07	3,207.18	405.58	-433.84	14,364,949.43	904,787.33	39.526410105°N	107.608663355°W
3,400.00	18.84	313.07	3,301.82	427.63	-457.43	14,364,971.49	904,763.74	39.526468741°N	107.608749204°W
3,500.00	18.84	313.07	3,396.46	449.69	-481.02	14,364,993.54	904,740.14	39.526527377°N	107.608835054°W
3,565.03	18.84	313.07	3,458.00	464.03	-496.36	14,365,007.89	904,724.80	39.526565506°N	107.608890880°W
Mesaverde									
3,600.00	18.84	313.07	3,491.10	471.75	-504.61	14,365,015.60	904,716.55	39.526586013°N	107.608920905°W
3,700.00	18.84	313.07	3,585.74	493.80	-528.21	14,365,037.66	904,692.96	39.526644649°N	107.609006755°W
3,758.56	18.84	313.07	3,641.16	506.72	-542.03	14,365,050.57	904,679.14	39.526678988°N	107.609057031°W
Drop 3°/100 at 3759 MD/3641 TVD									
3,800.00	17.60	313.07	3,680.52	515.57	-551.49	14,365,059.42	904,669.68	39.526702510°N	107.609091472°W
3,900.00	14.60	313.07	3,776.59	534.50	-571.75	14,365,078.36	904,649.42	39.526752850°N	107.609165176°W
4,000.00	11.60	313.07	3,873.98	549.98	-588.30	14,365,093.83	904,632.87	39.526793993°N	107.609225415°W
4,100.00	8.60	313.07	3,972.42	561.95	-601.11	14,365,105.81	904,620.06	39.526825826°N	107.609272023°W
4,200.00	5.60	313.07	4,071.64	570.39	-610.14	14,365,114.25	904,611.03	39.526848263°N	107.609304873°W
4,300.00	2.60	313.07	4,171.37	575.27	-615.36	14,365,119.13	904,605.81	39.526861241°N	107.609323875°W

Planning Report - Geographic

Database:	EDM5000-New	Local Co-ordinate Reference:	Well McLin C03 (111224)
Company:	Antero Resources	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Project:	McLin	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	North Reference:	Grid
Well:	McLin C03 (111224)	Survey Calculation Method:	Minimum Curvature
Wellbore:	McLin C03		
Design:	McLin C03 P02		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
4,386.66	0.00	313.07	4,258.00	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
Vertical at 4387 MD/4258 TVD - Price Coal										
4,400.00	0.00	313.07	4,271.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
4,500.00	0.00	313.07	4,371.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
4,600.00	0.00	313.07	4,471.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
4,700.00	0.00	313.07	4,571.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
4,800.00	0.00	313.07	4,671.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
4,900.00	0.00	313.07	4,771.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
5,000.00	0.00	313.07	4,871.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
5,086.66	0.00	313.07	4,958.00	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
Top Gas										
5,100.00	0.00	313.07	4,971.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
5,200.00	0.00	313.07	5,071.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
5,300.00	0.00	313.07	5,171.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
5,400.00	0.00	313.07	5,271.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
5,500.00	0.00	313.07	5,371.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
5,600.00	0.00	313.07	5,471.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
5,700.00	0.00	313.07	5,571.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
5,800.00	0.00	313.07	5,671.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
5,900.00	0.00	313.07	5,771.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
5,986.66	0.00	313.07	5,858.00	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
Cameo										
6,000.00	0.00	313.07	5,871.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
6,100.00	0.00	313.07	5,971.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
6,200.00	0.00	313.07	6,071.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
6,300.00	0.00	313.07	6,171.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
6,400.00	0.00	313.07	6,271.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
6,500.00	0.00	313.07	6,371.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
6,600.00	0.00	313.07	6,471.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
6,700.00	0.00	313.07	6,571.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
6,800.00	0.00	313.07	6,671.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
6,900.00	0.00	313.07	6,771.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
7,000.00	0.00	313.07	6,871.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
7,086.66	0.00	313.07	6,958.00	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
Rollins										
7,100.00	0.00	313.07	6,971.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
7,200.00	0.00	313.07	7,071.34	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
7,236.65	0.00	313.07	7,107.99	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
TD at 7237 MD/7108 TVD										
7,236.66	0.00	313.07	7,108.00	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
C03 BH	0.00	0.00	7,108.00	576.62	-616.79	14,365,120.47	904,604.37	39.526864810°N	107.609329100°W	
- plan hits target center										
- Circle (radius 20.00)										

Planning Report - Geographic

Database:	EDM5000-New	Local Co-ordinate Reference:	Well McLin C03 (111224)
Company:	Antero Resources	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Project:	McLin	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	North Reference:	Grid
Well:	McLin C03 (111224)	Survey Calculation Method:	Minimum Curvature
Wellbore:	McLin C03		
Design:	McLin C03 P02		

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/1000 TVD	5.50	6.00	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
0.00	0.00	Wasatch			
3,565.03	3,458.00	Mesaverde			
4,386.66	4,258.00	Price Coal			
5,086.66	4,958.00	Top Gas			
5,986.66	5,858.00	Cameo			
7,086.66	6,958.00	Rollins			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,150.00	1,150.00	0.00	0.00	KOP 3°/100 at 1150 MD/TVD	
1,778.10	1,766.84	69.90	-74.77	Hold 19° at 1778 MD/1767 TVD	
3,758.56	3,641.16	506.72	-542.03	Drop 3°/100 at 3759 MD/3641 TVD	
4,386.66	4,258.00	576.62	-616.79	Vertical at 4387 MD/4258 TVD	
7,236.65	7,107.99	576.62	-616.79	TD at 7237 MD/7108 TVD	