



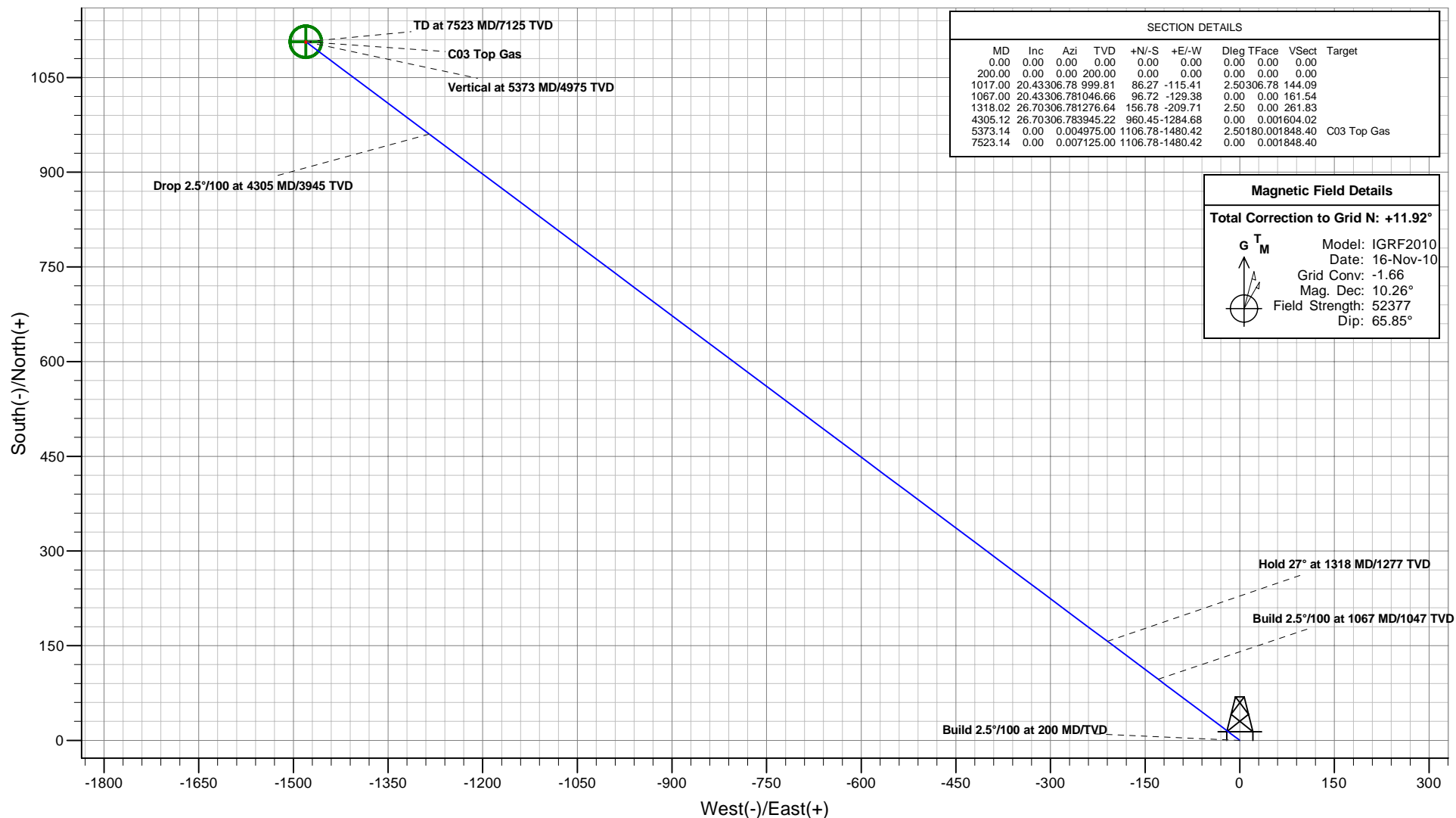
Antero Resources

McLin C03 (111224)




PLAN VIEW

Project: McLin
Site: McLin C
Well: McLin C03 (111224)
Wellbore: McLin C03
Design: McLin C03 P01



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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
1017.00	20.43	306.78	999.81	86.27	-115.41	2.50	306.78	144.09	
1067.00	20.43	306.78	1046.66	96.72	-129.38	0.00	0.00	161.54	
1318.02	26.70	306.78	1276.64	156.78	-209.71	2.50	0.00	261.83	
4305.12	26.70	306.78	3945.22	960.45	-1284.68	0.00	0.00	1604.02	
5373.14	0.00	0.00	4975.00	1106.78	-1480.42	2.50	180.00	1848.40	C03 Top Gas
7523.14	0.00	0.00	7125.00	1106.78	-1480.42	0.00	0.00	1848.40	

Magnetic Field Details	
Total Correction to Grid N: +11.92°	
	Model: IGRF2010
	Date: 16-Nov-10
	Grid Conv: -1.66
	Mag. Dec: 10.26°
	Field Strength: 52377
	Dip: 65.85°

Plan: McLin C03 P01
Created By: ARK Directional Services
Date: 15:06, August 16 2010

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

REFERENCE INFORMATION

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

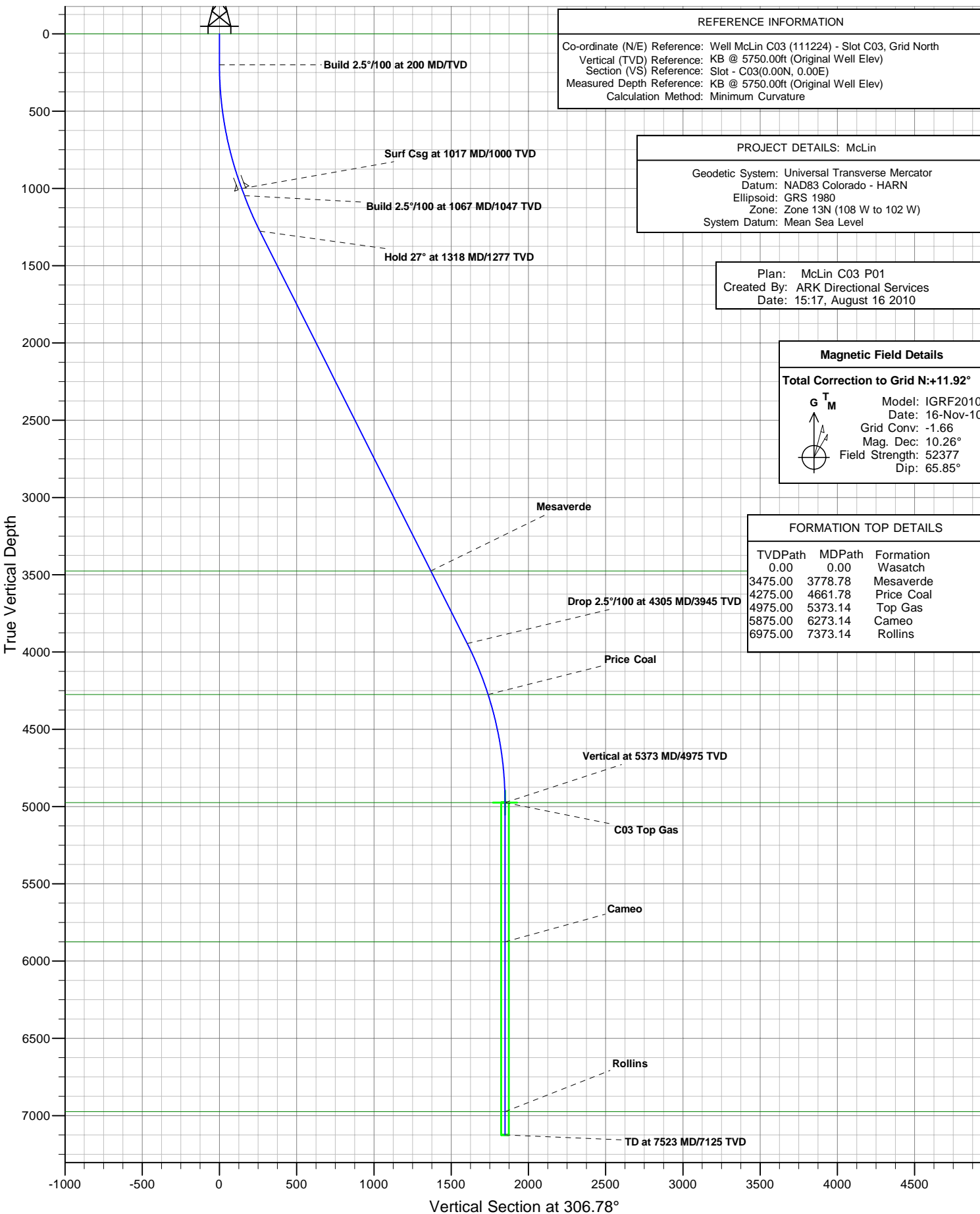


Antero Resources

McLin C03 (111224)



VERTICAL SECTION VIEW



Antero Resources

McLin

McLin C

McLin C03 (111224) - Slot C03

McLin C03

Plan: McLin C03 P01

Standard Planning Report - Geographic

16 August, 2010

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well McLin C03 (111224) - Slot C03
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 P01		

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:	14,364,522.752 usft
From:	Map	Easting:	905,235.880 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in
		Latitude:	39.525275157°N
		Longitude:	107.607030464°W
		Grid Convergence:	-1.66 °

Well	McLin C03 (111224) - Slot C03		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	
		Latitude:	39.525331909°N
		Longitude:	107.607084794°W
		Ground Level:	5,726.00 ft

Wellbore	McLin C03				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	2010/11/16	10.26	65.85	52,377

Design	McLin C03 P01			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	4,975.00	0.00	0.00	306.78

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,017.00	20.43	306.78	999.81	86.27	-115.41	2.50	2.50	0.00	306.78	
1,067.00	20.43	306.78	1,046.66	96.72	-129.38	0.00	0.00	0.00	0.00	
1,318.02	26.70	306.78	1,276.64	156.78	-209.71	2.50	2.50	0.00	0.00	
4,305.12	26.70	306.78	3,945.22	960.45	-1,284.68	0.00	0.00	0.00	0.00	
5,373.14	0.00	0.00	4,975.00	1,106.78	-1,480.42	2.50	-2.50	0.00	180.00	C03 Top Gas
7,523.14	0.00	0.00	7,125.00	1,106.78	-1,480.42	0.00	0.00	0.00	0.00	

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well McLin C03 (111224) - Slot C03
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 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	14,364,543.864	905,221.156	39.525331909°N	107.607084794°W
Wasatch									
100.00	0.00	0.00	100.00	0.00	0.00	14,364,543.864	905,221.156	39.525331909°N	107.607084794°W
200.00	0.00	0.00	200.00	0.00	0.00	14,364,543.864	905,221.156	39.525331909°N	107.607084794°W
Build 2.5°/100 at 200 MD/TVD									
300.00	2.50	306.78	299.97	1.31	-1.75	14,364,545.170	905,219.409	39.525335353°N	107.607091117°W
400.00	5.00	306.78	399.75	5.22	-6.99	14,364,549.085	905,214.171	39.525345680°N	107.607110075°W
500.00	7.50	306.78	499.14	11.74	-15.70	14,364,555.603	905,205.452	39.525362869°N	107.607141633°W
600.00	10.00	306.78	597.97	20.85	-27.89	14,364,564.711	905,193.269	39.525386887°N	107.607185729°W
700.00	12.50	306.78	696.04	32.53	-43.51	14,364,576.391	905,177.645	39.525417690°N	107.607242280°W
800.00	15.00	306.78	793.17	46.76	-62.55	14,364,590.621	905,158.609	39.525455218°N	107.607311178°W
900.00	17.50	306.78	889.17	63.51	-84.96	14,364,607.374	905,136.198	39.525499399°N	107.607392292°W
1,000.00	20.00	306.78	983.85	82.76	-110.70	14,364,626.619	905,110.455	39.525550151°N	107.607485468°W
1,017.00	20.43	306.78	999.81	86.27	-115.41	14,364,630.135	905,105.750	39.525559425°N	107.607502495°W
1,018.00	20.43	306.78	1,000.74	86.48	-115.69	14,364,630.344	905,105.471	39.525559976°N	107.607503507°W
Surf Csg at 1017 MD/1000 TVD									
1,067.00	20.43	306.78	1,046.66	96.72	-129.38	14,364,640.583	905,091.775	39.525586979°N	107.607553077°W
Build 2.5°/100 at 1067 MD/1047 TVD									
1,100.00	21.25	306.78	1,077.50	103.75	-138.78	14,364,647.612	905,082.374	39.525605515°N	107.607587106°W
1,200.00	23.75	306.78	1,169.88	126.66	-169.43	14,364,670.525	905,051.727	39.525665940°N	107.607698032°W
1,300.00	26.25	306.78	1,260.51	151.96	-203.28	14,364,695.828	905,017.881	39.525732670°N	107.607820533°W
1,318.02	26.70	306.78	1,276.64	156.78	-209.71	14,364,700.638	905,011.447	39.525745356°N	107.607843821°W
Hold 27° at 1318 MD/1277 TVD									
1,400.00	26.70	306.78	1,349.88	178.83	-239.21	14,364,722.695	904,981.945	39.525803523°N	107.607950604°W
1,500.00	26.70	306.78	1,439.21	205.74	-275.20	14,364,749.600	904,945.958	39.525874476°N	107.608080858°W
1,600.00	26.70	306.78	1,528.55	232.64	-311.19	14,364,776.505	904,909.971	39.525945429°N	107.608211113°W
1,700.00	26.70	306.78	1,617.89	259.55	-347.17	14,364,803.409	904,873.983	39.526016381°N	107.608341368°W
1,800.00	26.70	306.78	1,707.22	286.45	-383.16	14,364,830.314	904,837.996	39.526087334°N	107.608471623°W
1,900.00	26.70	306.78	1,796.56	313.36	-419.15	14,364,857.219	904,802.009	39.526158286°N	107.608601879°W
2,000.00	26.70	306.78	1,885.90	340.26	-455.13	14,364,884.124	904,766.022	39.526229238°N	107.608732134°W
2,100.00	26.70	306.78	1,975.23	367.17	-491.12	14,364,911.028	904,730.035	39.526300190°N	107.608862390°W
2,200.00	26.70	306.78	2,064.57	394.07	-527.11	14,364,937.933	904,694.048	39.526371141°N	107.608992647°W
2,300.00	26.70	306.78	2,153.91	420.98	-563.10	14,364,964.838	904,658.061	39.526442093°N	107.609122903°W
2,400.00	26.70	306.78	2,243.24	447.88	-599.08	14,364,991.743	904,622.073	39.526513044°N	107.609253160°W
2,500.00	26.70	306.78	2,332.58	474.78	-635.07	14,365,018.647	904,586.086	39.526583996°N	107.609383417°W
2,600.00	26.70	306.78	2,421.92	501.69	-671.06	14,365,045.552	904,550.099	39.526654947°N	107.609513674°W
2,700.00	26.70	306.78	2,511.25	528.59	-707.05	14,365,072.457	904,514.112	39.526725898°N	107.609643932°W
2,800.00	26.70	306.78	2,600.59	555.50	-743.03	14,365,099.362	904,478.125	39.526796848°N	107.609774190°W
2,900.00	26.70	306.78	2,689.93	582.40	-779.02	14,365,126.266	904,442.138	39.526867799°N	107.609904448°W
3,000.00	26.70	306.78	2,779.26	609.31	-815.01	14,365,153.171	904,406.150	39.526938750°N	107.610034706°W
3,100.00	26.70	306.78	2,868.60	636.21	-850.99	14,365,180.076	904,370.163	39.527009700°N	107.610164965°W
3,200.00	26.70	306.78	2,957.94	663.12	-886.98	14,365,206.981	904,334.176	39.527080650°N	107.610295224°W
3,300.00	26.70	306.78	3,047.27	690.02	-922.97	14,365,233.886	904,298.189	39.527151600°N	107.610425483°W
3,400.00	26.70	306.78	3,136.61	716.93	-958.96	14,365,260.790	904,262.202	39.527222550°N	107.610555742°W
3,500.00	26.70	306.78	3,225.95	743.83	-994.94	14,365,287.695	904,226.215	39.527293500°N	107.610686002°W
3,600.00	26.70	306.78	3,315.28	770.74	-1,030.93	14,365,314.600	904,190.228	39.527364449°N	107.610816262°W
3,700.00	26.70	306.78	3,404.62	797.64	-1,066.92	14,365,341.505	904,154.240	39.527435399°N	107.610946522°W
3,778.78	26.70	306.78	3,475.00	818.84	-1,095.27	14,365,362.700	904,125.890	39.527491292°N	107.611049141°W
Mesaverde									
3,800.00	26.70	306.78	3,493.96	824.55	-1,102.90	14,365,368.409	904,118.253	39.527506348°N	107.611076782°W
3,900.00	26.70	306.78	3,583.29	851.45	-1,138.89	14,365,395.314	904,082.266	39.527577297°N	107.611207043°W
4,000.00	26.70	306.78	3,672.63	878.36	-1,174.88	14,365,422.219	904,046.279	39.527648246°N	107.611337304°W
4,100.00	26.70	306.78	3,761.97	905.26	-1,210.87	14,365,449.124	904,010.292	39.527719195°N	107.611467565°W
4,200.00	26.70	306.78	3,851.30	932.17	-1,246.85	14,365,476.028	903,974.305	39.527790143°N	107.611597827°W

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well McLin C03 (111224) - Slot C03
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 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	26.70	306.78	3,940.64	959.07	-1,282.84	14,365,502.933	903,938.318	39.527861092°N	107.611728089°W	
4,305.12	26.70	306.78	3,945.22	960.45	-1,284.68	14,365,504.311	903,936.475	39.527864724°N	107.611734758°W	
Drop 2.5°/100 at 4305 MD/3945 TVD										
4,400.00	24.33	306.78	4,030.84	984.92	-1,317.41	14,365,528.780	903,903.745	39.527929251°N	107.611853230°W	
4,500.00	21.83	306.78	4,122.83	1,008.39	-1,348.81	14,365,552.250	903,872.352	39.527991141°N	107.611966862°W	
4,600.00	19.33	306.78	4,216.44	1,029.43	-1,376.96	14,365,573.295	903,844.203	39.528046637°N	107.612068753°W	
4,661.78	17.78	306.78	4,275.00	1,041.20	-1,392.70	14,365,585.067	903,828.458	39.528077678°N	107.612125746°W	
Price Coal										
4,700.00	16.83	306.78	4,311.49	1,048.01	-1,401.81	14,365,591.875	903,819.351	39.528095632°N	107.612158710°W	
4,800.00	14.33	306.78	4,407.81	1,064.09	-1,423.32	14,365,607.955	903,797.844	39.528138034°N	107.612236561°W	
4,900.00	11.83	306.78	4,505.21	1,077.64	-1,441.44	14,365,621.503	903,779.721	39.528173762°N	107.612302158°W	
5,000.00	9.33	306.78	4,603.50	1,088.63	-1,456.14	14,365,632.495	903,765.019	39.528202747°N	107.612355377°W	
5,100.00	6.83	306.78	4,702.50	1,097.05	-1,467.39	14,365,640.909	903,753.765	39.528224935°N	107.612396114°W	
5,200.00	4.33	306.78	4,802.02	1,102.87	-1,475.18	14,365,646.729	903,745.979	39.528240283°N	107.612424294°W	
5,300.00	1.83	306.78	4,901.87	1,106.08	-1,479.48	14,365,649.945	903,741.678	39.528248762°N	107.612439863°W	
5,373.14	0.00	0.00	4,975.00	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
Vertical at 5373 MD/4975 TVD - Top Gas										
5,400.00	0.00	0.00	5,001.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
5,500.00	0.00	0.00	5,101.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
5,600.00	0.00	0.00	5,201.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
5,700.00	0.00	0.00	5,301.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
5,800.00	0.00	0.00	5,401.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
5,900.00	0.00	0.00	5,501.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
6,000.00	0.00	0.00	5,601.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
6,100.00	0.00	0.00	5,701.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
6,200.00	0.00	0.00	5,801.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
6,273.14	0.00	0.00	5,875.00	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
Cameo										
6,300.00	0.00	0.00	5,901.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
6,400.00	0.00	0.00	6,001.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
6,500.00	0.00	0.00	6,101.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
6,600.00	0.00	0.00	6,201.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
6,700.00	0.00	0.00	6,301.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
6,800.00	0.00	0.00	6,401.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
6,900.00	0.00	0.00	6,501.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
7,000.00	0.00	0.00	6,601.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
7,100.00	0.00	0.00	6,701.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
7,200.00	0.00	0.00	6,801.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
7,300.00	0.00	0.00	6,901.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
7,373.14	0.00	0.00	6,975.00	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
Rollins										
7,400.00	0.00	0.00	7,001.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
7,500.00	0.00	0.00	7,101.86	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
7,523.14	0.00	0.00	7,125.00	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W	
TD at 7523 MD/7125 TVD										

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well McLin C03 (111224) - Slot C03
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 P01		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
C03 Top Gas	0.00	0.00	4,975.00	1,106.78	-1,480.42	14,365,650.644	903,740.744	39.528250605°N	107.612443246°W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(ft)	(ft)			(in)	(in)
1,018.00	1,000.74	Surf Csg at 1017 MD/1000 TVD		5.50	6.00

Formations						
Measured Depth	Vertical Depth	Name		Lithology	Dip	Dip Direction
(ft)	(ft)				(°)	(°)
0.00	0.00	Wasatch				
3,778.78	3,475.00	Mesaverde				
4,661.78	4,275.00	Price Coal				
5,373.14	4,975.00	Top Gas				
6,273.14	5,875.00	Cameo				
7,373.14	6,975.00	Rollins				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)		
200.00	200.00	0.00	0.00	Build 2.5°/100 at 200 MD/TVD	
1,067.00	1,046.66	96.72	-129.38	Build 2.5°/100 at 1067 MD/1047 TVD	
1,318.02	1,276.64	156.78	-209.71	Hold 27° at 1318 MD/1277 TVD	
4,305.12	3,945.22	960.45	-1,284.68	Drop 2.5°/100 at 4305 MD/3945 TVD	
5,373.14	4,975.00	1,106.78	-1,480.42	Vertical at 5373 MD/4975 TVD	
7,523.14	7,125.00	1,106.78	-1,480.42	TD at 7523 MD/7125 TVD	