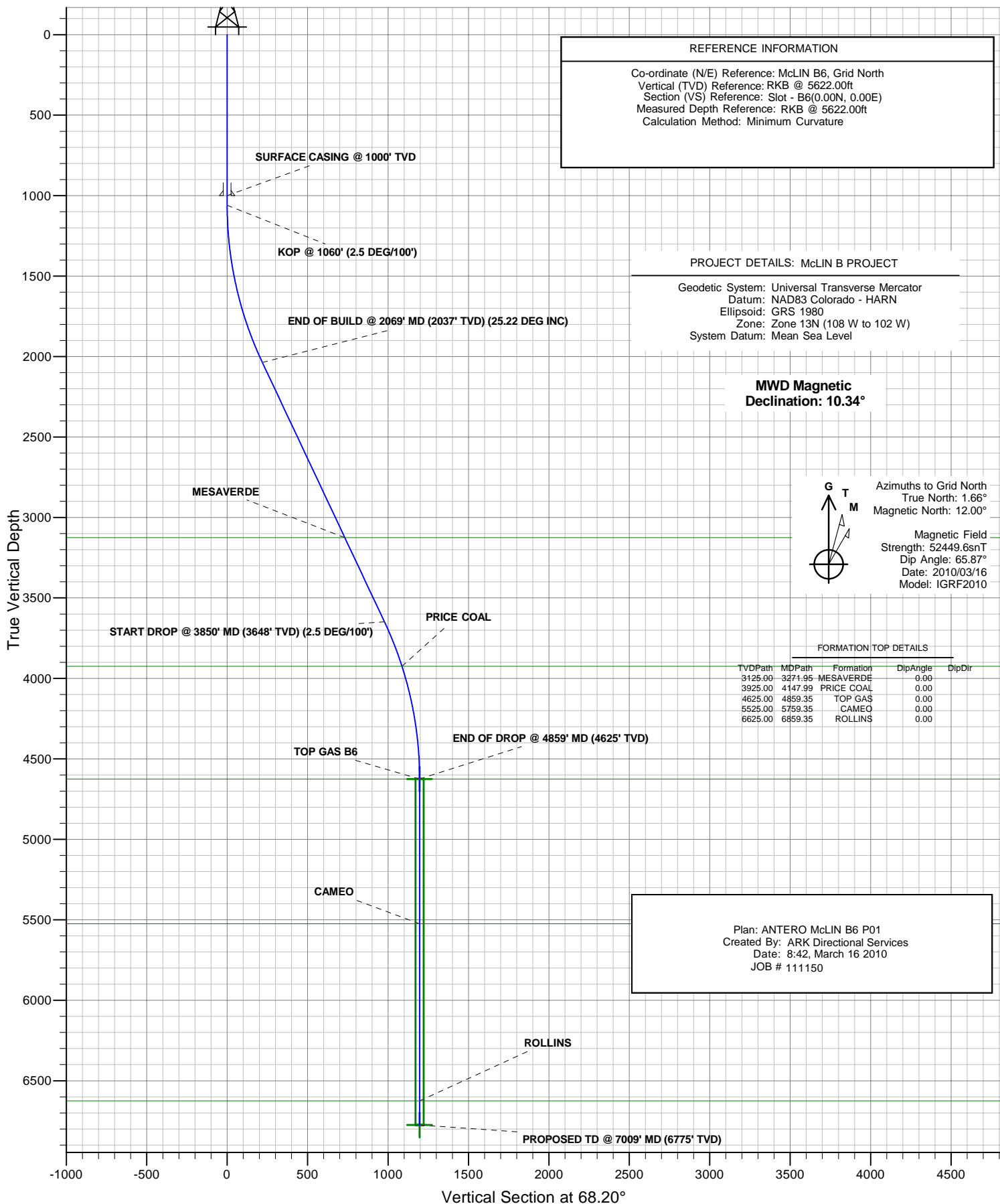




ANTERO RESOURCES

ANTERO McLIN B6

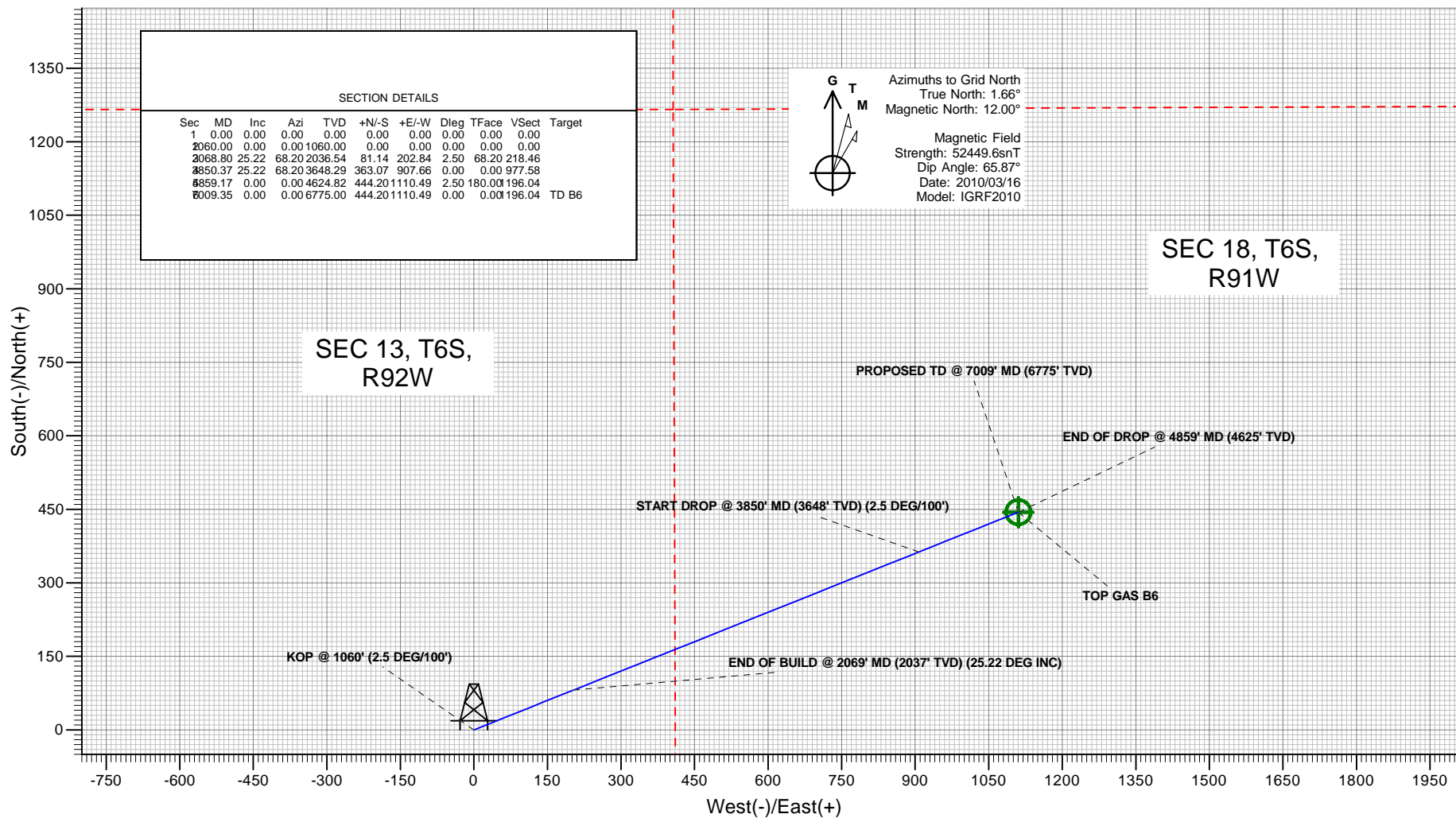




PLAN VIEW

ANTERO RESOURCES

Project: McLIN B PROJECT
Site: FRONTIER 12
Well: McLIN B6 (111150)
Wellbore: ANTERO McLIN B6
Design: ANTERO McLIN B6 P01
JOB # 111150



Plan: ANTERO McLIN B6 P01
Created By: ARK Directional Services
Date: 8:51, March 16 2010

PROJECT DETAILS: McLIN B PROJECT

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

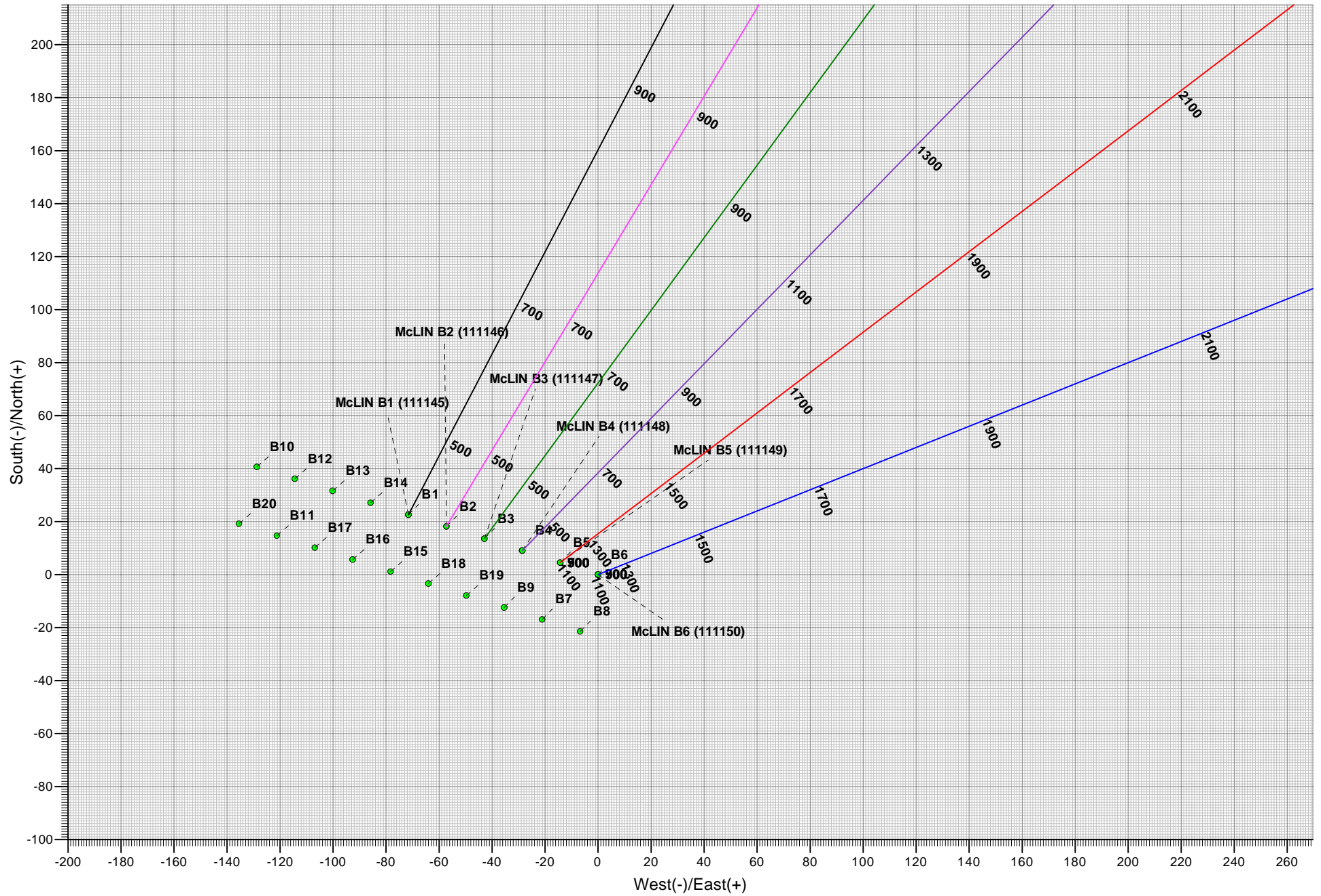
Co-ordinate (N/E) Reference: McLIN B6, Grid North
Vertical (TVD) Reference: RKB @ 5622.00ft
Section (VS) Reference: Slot - B6(0.00N, 0.00E)
Measured Depth Reference: RKB @ 5622.00ft
Calculation Method: Minimum Curvature



ANTERO McLIN B6



SPIDER PLOT



ANTERO RESOURCES

**McLIN B PROJECT
FRONTIER 12**

Plan: ANTERO McLIN B6 P01

Standard Planning Report - Geographic

16 March, 2010

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well McLIN B6 (111150) - Slot B6
Company:	ANTERO RESOURCES	TVD Reference:	RKB @ 5622.00ft
Project:	McLIN B PROJECT	MD Reference:	RKB @ 5622.00ft
Site:	FRONTIER 12	North Reference:	Grid
Well:	McLIN B6 (111150)	Survey Calculation Method:	Minimum Curvature
Wellbore:	ANTERO McLIN B6		
Design:	ANTERO McLIN B6 P01		

Project	McLIN B PROJECT		
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	FRONTIER 12		
Site Position:		Northing:	14,366,636.75 usft
From:	Lat/Long	Easting:	904,982.97 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in
		Latitude:	39° 31' 51.798 N
		Longitude:	107° 36' 29.317 W
		Grid Convergence:	-1.66 °

Well	McLIN B6 (111150) - Slot B6		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	
		Latitude:	39° 31' 51.595 N
		Longitude:	107° 36' 28.396 W
		Ground Level:	5,598.00 ft

Wellbore	ANTERO McLIN B6				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	2010/03/16	10.34	65.87	52,450

Design	ANTERO McLIN B6 P01				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	68.20	

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	
1,060.00	0.00	0.00	1,060.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,068.80	25.22	68.20	2,036.54	81.14	202.84	2.50	2.50	0.00	68.20	
3,850.37	25.22	68.20	3,648.29	363.07	907.66	0.00	0.00	0.00	0.00	
4,859.17	0.00	0.00	4,624.82	444.20	1,110.49	2.50	-2.50	0.00	180.00	
7,009.35	0.00	0.00	6,775.00	444.20	1,110.49	0.00	0.00	0.00	0.00	TD B6

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well McLIN B6 (111150) - Slot B6
Company:	ANTERO RESOURCES	TVD Reference:	RKB @ 5622.00ft
Project:	McLIN B PROJECT	MD Reference:	RKB @ 5622.00ft
Site:	FRONTIER 12	North Reference:	Grid
Well:	McLIN B6 (111150)	Survey Calculation Method:	Minimum Curvature
Wellbore:	ANTERO McLIN B6		
Design:	ANTERO McLIN B6 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	14,366,614.16	905,054.49	39° 31' 51.595 N	107° 36' 28.396 W
100.00	0.00	0.00	100.00	0.00	0.00	14,366,614.16	905,054.49	39° 31' 51.595 N	107° 36' 28.396 W
200.00	0.00	0.00	200.00	0.00	0.00	14,366,614.16	905,054.49	39° 31' 51.595 N	107° 36' 28.396 W
300.00	0.00	0.00	300.00	0.00	0.00	14,366,614.16	905,054.49	39° 31' 51.595 N	107° 36' 28.396 W
400.00	0.00	0.00	400.00	0.00	0.00	14,366,614.16	905,054.49	39° 31' 51.595 N	107° 36' 28.396 W
500.00	0.00	0.00	500.00	0.00	0.00	14,366,614.16	905,054.49	39° 31' 51.595 N	107° 36' 28.396 W
600.00	0.00	0.00	600.00	0.00	0.00	14,366,614.16	905,054.49	39° 31' 51.595 N	107° 36' 28.396 W
700.00	0.00	0.00	700.00	0.00	0.00	14,366,614.16	905,054.49	39° 31' 51.595 N	107° 36' 28.396 W
800.00	0.00	0.00	800.00	0.00	0.00	14,366,614.16	905,054.49	39° 31' 51.595 N	107° 36' 28.396 W
900.00	0.00	0.00	900.00	0.00	0.00	14,366,614.16	905,054.49	39° 31' 51.595 N	107° 36' 28.396 W
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,366,614.16	905,054.49	39° 31' 51.595 N	107° 36' 28.396 W
SURFACE CASING @ 1000' TVD									
1,060.00	0.00	0.00	1,060.00	0.00	0.00	14,366,614.16	905,054.49	39° 31' 51.595 N	107° 36' 28.396 W
KOP @ 1060' (2.5 DEG/100')									
1,100.00	1.00	68.20	1,100.00	0.13	0.32	14,366,614.29	905,054.81	39° 31' 51.597 N	107° 36' 28.392 W
1,200.00	3.50	68.20	1,199.91	1.59	3.97	14,366,615.75	905,058.46	39° 31' 51.612 N	107° 36' 28.346 W
1,300.00	6.00	68.20	1,299.56	4.66	11.66	14,366,618.82	905,066.15	39° 31' 51.645 N	107° 36' 28.249 W
1,400.00	8.50	68.20	1,398.75	9.35	23.37	14,366,623.51	905,077.86	39° 31' 51.694 N	107° 36' 28.102 W
1,500.00	11.00	68.20	1,497.30	15.64	39.10	14,366,629.80	905,093.59	39° 31' 51.761 N	107° 36' 27.903 W
1,600.00	13.50	68.20	1,595.02	23.52	58.79	14,366,637.68	905,113.28	39° 31' 51.844 N	107° 36' 27.655 W
1,700.00	16.00	68.20	1,691.71	32.97	82.43	14,366,647.13	905,136.92	39° 31' 51.944 N	107° 36' 27.357 W
1,800.00	18.50	68.20	1,787.21	43.99	109.96	14,366,658.15	905,164.45	39° 31' 52.061 N	107° 36' 27.010 W
1,900.00	21.00	68.20	1,881.32	56.53	141.33	14,366,670.70	905,195.82	39° 31' 52.194 N	107° 36' 26.615 W
2,000.00	23.50	68.20	1,973.87	70.60	176.49	14,366,684.76	905,230.98	39° 31' 52.343 N	107° 36' 26.171 W
2,068.80	25.22	68.20	2,036.54	81.14	202.84	14,366,695.30	905,257.33	39° 31' 52.455 N	107° 36' 25.839 W
END OF BUILD @ 2069' MD (2037' TVD) (25.22 DEG INC)									
2,100.00	25.22	68.20	2,064.76	86.07	215.18	14,366,700.23	905,269.67	39° 31' 52.507 N	107° 36' 25.684 W
2,200.00	25.22	68.20	2,155.23	101.90	254.74	14,366,716.06	905,309.23	39° 31' 52.674 N	107° 36' 25.185 W
2,300.00	25.22	68.20	2,245.70	117.72	294.30	14,366,731.88	905,348.79	39° 31' 52.842 N	107° 36' 24.686 W
2,400.00	25.22	68.20	2,336.17	133.55	333.86	14,366,747.71	905,388.35	39° 31' 53.010 N	107° 36' 24.187 W
2,500.00	25.22	68.20	2,426.64	149.37	373.43	14,366,763.53	905,427.92	39° 31' 53.177 N	107° 36' 23.689 W
2,600.00	25.22	68.20	2,517.10	165.20	412.99	14,366,779.36	905,467.48	39° 31' 53.345 N	107° 36' 23.190 W
2,700.00	25.22	68.20	2,607.57	181.02	452.55	14,366,795.18	905,507.04	39° 31' 53.513 N	107° 36' 22.691 W
2,800.00	25.22	68.20	2,698.04	196.85	492.11	14,366,811.01	905,546.60	39° 31' 53.680 N	107° 36' 22.192 W
2,900.00	25.22	68.20	2,788.51	212.67	531.67	14,366,826.83	905,586.16	39° 31' 53.848 N	107° 36' 21.694 W
3,000.00	25.22	68.20	2,878.97	228.50	571.24	14,366,842.66	905,625.72	39° 31' 54.015 N	107° 36' 21.195 W
3,100.00	25.22	68.20	2,969.44	244.32	610.80	14,366,858.48	905,665.29	39° 31' 54.183 N	107° 36' 20.696 W
3,200.00	25.22	68.20	3,059.91	260.15	650.36	14,366,874.31	905,704.85	39° 31' 54.351 N	107° 36' 20.197 W
3,271.95	25.22	68.20	3,125.00	271.53	678.82	14,366,885.69	905,733.31	39° 31' 54.471 N	107° 36' 19.838 W
MESAVERDE									
3,300.00	25.22	68.20	3,150.38	275.97	689.92	14,366,890.13	905,744.41	39° 31' 54.518 N	107° 36' 19.699 W
3,400.00	25.22	68.20	3,240.85	291.80	729.48	14,366,905.96	905,783.97	39° 31' 54.686 N	107° 36' 19.200 W
3,500.00	25.22	68.20	3,331.31	307.62	769.05	14,366,921.78	905,823.53	39° 31' 54.854 N	107° 36' 18.701 W
3,600.00	25.22	68.20	3,421.78	323.45	808.61	14,366,937.61	905,863.10	39° 31' 55.021 N	107° 36' 18.202 W
3,700.00	25.22	68.20	3,512.25	339.27	848.17	14,366,953.43	905,902.66	39° 31' 55.189 N	107° 36' 17.704 W
3,800.00	25.22	68.20	3,602.72	355.10	887.73	14,366,969.26	905,942.22	39° 31' 55.356 N	107° 36' 17.205 W
3,850.37	25.22	68.20	3,648.29	363.07	907.66	14,366,977.23	905,962.15	39° 31' 55.441 N	107° 36' 16.954 W
START DROP @ 3850' MD (3648' TVD) (2.5 DEG/100')									
3,900.00	23.98	68.20	3,693.41	370.74	926.84	14,366,984.90	905,981.33	39° 31' 55.522 N	107° 36' 16.712 W
4,000.00	21.48	68.20	3,785.64	385.09	962.71	14,366,999.25	906,017.20	39° 31' 55.674 N	107° 36' 16.259 W
4,100.00	18.98	68.20	3,879.46	397.93	994.81	14,367,012.09	906,049.30	39° 31' 55.810 N	107° 36' 15.855 W
4,147.99	17.78	68.20	3,925.00	403.55	1,008.86	14,367,017.71	906,063.35	39° 31' 55.870 N	107° 36' 15.678 W
PRICE COAL									
4,200.00	16.48	68.20	3,974.70	409.24	1,023.08	14,367,023.40	906,077.57	39° 31' 55.930 N	107° 36' 15.498 W

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well McLIN B6 (111150) - Slot B6
Company:	ANTERO RESOURCES	TVD Reference:	RKB @ 5622.00ft
Project:	McLIN B PROJECT	MD Reference:	RKB @ 5622.00ft
Site:	FRONTIER 12	North Reference:	Grid
Well:	McLIN B6 (111150)	Survey Calculation Method:	Minimum Curvature
Wellbore:	ANTERO McLIN B6		
Design:	ANTERO McLIN B6 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	13.98	68.20	4,071.19	418.99	1,047.47	14,367,033.15	906,101.96	39° 31' 56.033 N	107° 36' 15.191 W
4,400.00	11.48	68.20	4,168.72	427.18	1,067.93	14,367,041.34	906,122.42	39° 31' 56.120 N	107° 36' 14.933 W
4,500.00	8.98	68.20	4,267.12	433.77	1,084.42	14,367,047.93	906,138.90	39° 31' 56.190 N	107° 36' 14.725 W
4,600.00	6.48	68.20	4,366.21	438.77	1,096.90	14,367,052.93	906,151.39	39° 31' 56.243 N	107° 36' 14.568 W
4,700.00	3.98	68.20	4,465.78	442.15	1,105.36	14,367,056.31	906,159.85	39° 31' 56.278 N	107° 36' 14.461 W
4,800.00	1.48	68.20	4,565.66	443.92	1,109.78	14,367,058.08	906,164.27	39° 31' 56.297 N	107° 36' 14.405 W
4,859.17	0.00	0.00	4,624.82	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
END OF DROP @ 4859' MD (4625' TVD)									
4,859.35	0.00	0.00	4,625.00	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
TOP GAS - TOP GAS B6									
4,900.00	0.00	0.00	4,665.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
5,000.00	0.00	0.00	4,765.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
5,100.00	0.00	0.00	4,865.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
5,200.00	0.00	0.00	4,965.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
5,300.00	0.00	0.00	5,065.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
5,400.00	0.00	0.00	5,165.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
5,500.00	0.00	0.00	5,265.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
5,600.00	0.00	0.00	5,365.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
5,700.00	0.00	0.00	5,465.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
5,759.35	0.00	0.00	5,525.00	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
CAMEO									
5,800.00	0.00	0.00	5,565.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
5,900.00	0.00	0.00	5,665.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
6,000.00	0.00	0.00	5,765.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
6,100.00	0.00	0.00	5,865.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
6,200.00	0.00	0.00	5,965.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
6,300.00	0.00	0.00	6,065.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
6,400.00	0.00	0.00	6,165.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
6,500.00	0.00	0.00	6,265.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
6,600.00	0.00	0.00	6,365.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
6,700.00	0.00	0.00	6,465.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
6,800.00	0.00	0.00	6,565.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
6,859.35	0.00	0.00	6,625.00	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
ROLLINS									
6,900.00	0.00	0.00	6,665.65	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
7,009.32	0.00	0.00	6,774.97	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
PROPOSED TD @ 7009' MD (6775' TVD)									
7,009.35	0.00	0.00	6,775.00	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
TD B6									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TOP GAS B6	0.00	0.00	4,625.00	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
- hit/miss target									
- Shape									
- plan hits target center									
- Circle (radius 25.00)									
TD B6	0.00	360.00	6,775.00	444.20	1,110.49	14,367,058.36	906,164.98	39° 31' 56.300 N	107° 36' 14.396 W
- hit/miss target									
- Shape									
- plan hits target center									
- Circle (radius 25.00)									

ARK Directional Services

Planning Report - Geographic

Database:	EDM SERVER DB	Local Co-ordinate Reference:	Well McLIN B6 (111150) - Slot B6
Company:	ANTERO RESOURCES	TVD Reference:	RKB @ 5622.00ft
Project:	McLIN B PROJECT	MD Reference:	RKB @ 5622.00ft
Site:	FRONTIER 12	North Reference:	Grid
Well:	McLIN B6 (111150)	Survey Calculation Method:	Minimum Curvature
Wellbore:	ANTERO McLIN B6		
Design:	ANTERO McLIN B6 P01		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,000.00	1,000.00	SURFACE CASING @ 1000' TVD	9.62	12.25	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,271.95	3,125.00	MESAVERDE		0.00	
4,147.99	3,925.00	PRICE COAL		0.00	
4,859.35	4,625.00	TOP GAS		0.00	
5,759.35	5,525.00	CAMEO		0.00	
6,859.35	6,625.00	ROLLINS		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,060.00	1,060.00	0.00	0.00	KOP @ 1060' (2.5 DEG/100')	
2,068.80	2,036.54	81.14	202.84	END OF BUILD @ 2069' MD (2037' TVD) (25.22 DEG INC)	
3,850.37	3,648.29	363.07	907.66	START DROP @ 3850' MD (3648' TVD) (2.5 DEG/100')	
4,859.17	4,624.82	444.20	1,110.49	END OF DROP @ 4859' MD (4625' TVD)	
7,009.32	6,774.97	444.20	1,110.49	PROPOSED TD @ 7009' MD (6775' TVD)	