



End of Well Report

Prepared for



McLin C16

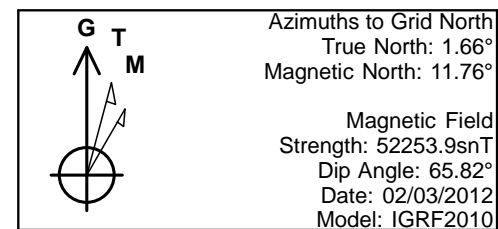
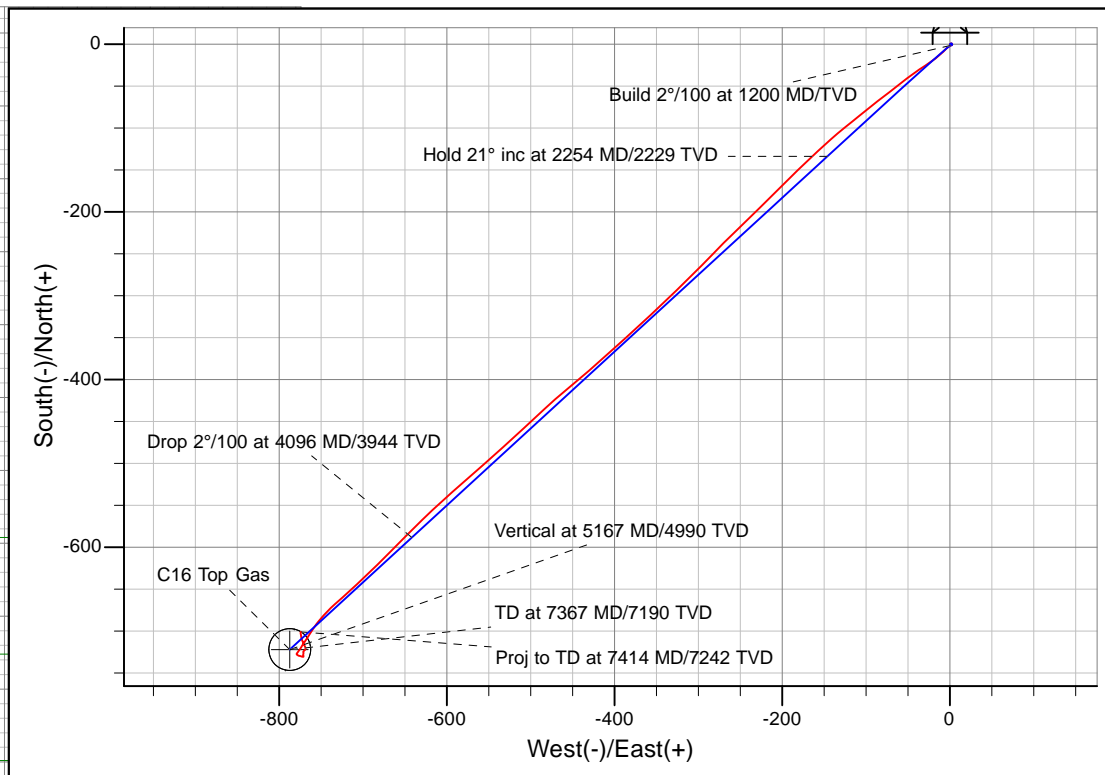
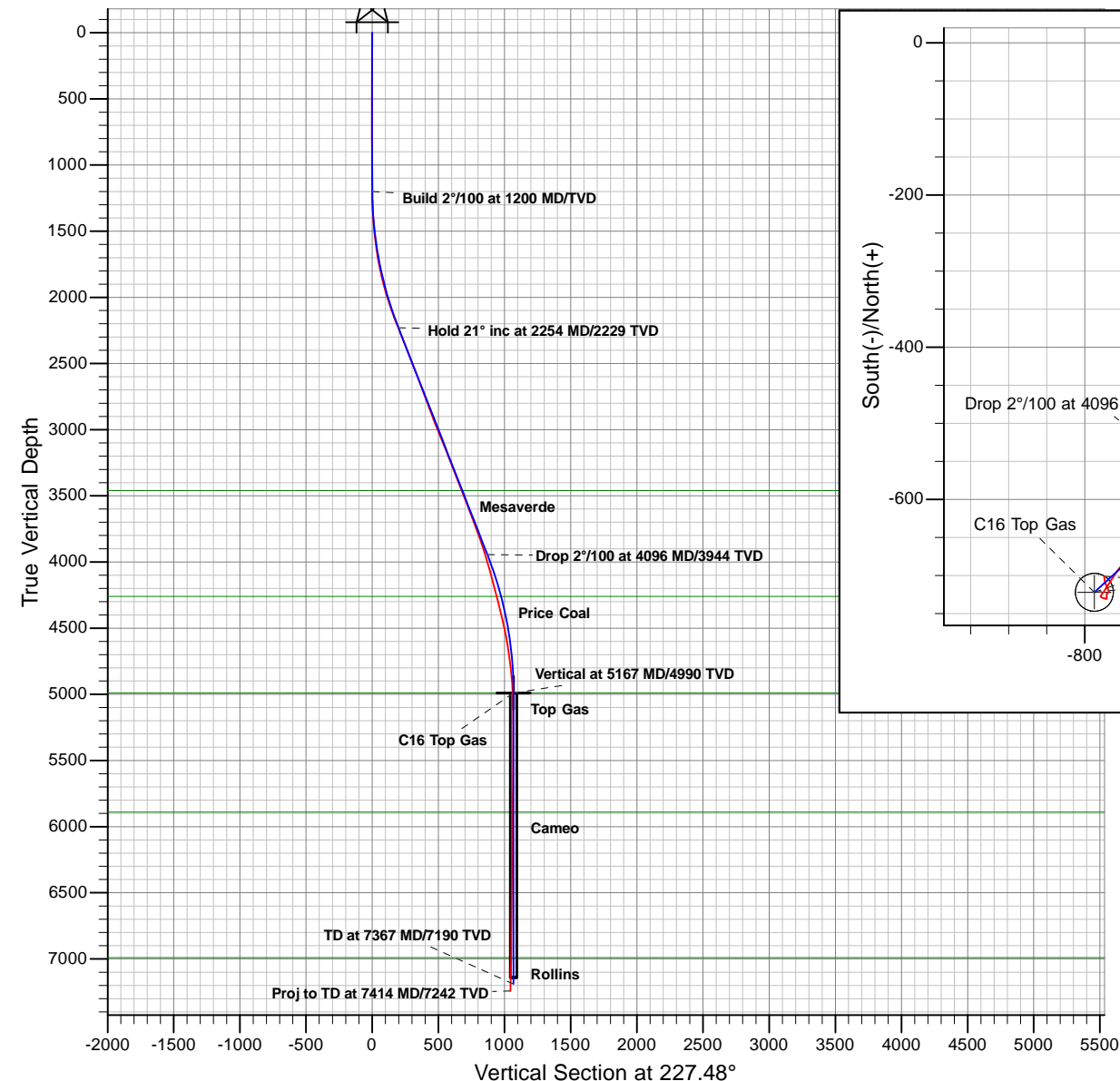
December 6, 2011

ARK Directional Services Inc
191 University Blvd, # 601
Denver, CO 80206



Antero Resources

McLin C
McLin C16 (111204)
Planned Vs. Actual



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 C16 (111204) - Slot C16, Grid North
Vertical (TVD) Reference: KB @ 5750.00ft (Original Well Elev)
Section (VS) Reference: Slot - C16(0.00N, 0.00E)
Measured Depth Reference: KB @ 5750.00ft (Original Well Elev)
Calculation Method: Minimum Curvature

Plan: McLin C16 P05
Created By: ARK Directional Services Inc.
Date: 9:48, December 06 2011

Antero Resources

McLin

McLin C

McLin C16 (111204) - Slot C16

McLin C16

Survey: McLin C16

Survey Report - Geographic

06 December, 2011

Survey Report - Geographic

Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C16 (111204) - Slot C16
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C16 (111204)	North Reference:	Grid
Wellbore:	McLin C16	Survey Calculation Method:	Minimum Curvature
Design:	McLin C16	Database:	EDM5000

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
From:	Map	Easting:	905,235.88 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 C16 (111204) - Slot C16		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	39.525118926°N
		Longitude:	107.607121949°W
		Ground Level:	5,726.00 ft

Wellbore	McLin C16		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	02/03/12	10.10
			Dip Angle
			(°)
			65.82
			Field Strength
			(nT)
			52,254

Design	McLin C16		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			227.48

Survey Program	Date	12/06/11		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
100.00	988.00	McLin C16 Surface (McLin C16)	NS-GYRO-MS	North sensing gyrocompassing m/s
1,150.00	7,414.00	McLin C16 (McLin C16)	MWD	MWD - Standard

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map	Latitude	Longitude
Depth	(°)	(°)	Depth	(ft)	(ft)	Northing	Easting		
(ft)			(ft)			(usft)	(usft)		
988.00	0.38	257.69	987.99	-1.30	1.96	14,364,465.31	905,210.38	39.525115526°N	107.607114889°W
1,150.00	0.22	46.74	1,149.99	-1.20	1.66	14,364,465.41	905,210.09	39.525115772°N	107.607115956°W
1,244.00	1.01	244.36	1,243.98	-1.43	1.04	14,364,465.17	905,209.47	39.525115079°N	107.607118113°W
1,338.00	2.99	234.56	1,337.92	-3.21	-1.70	14,364,463.39	905,206.73	39.525109977°N	107.607127653°W
1,432.00	4.79	223.75	1,431.70	-7.47	-6.41	14,364,459.13	905,202.01	39.525097923°N	107.607143908°W
1,526.00	6.02	230.74	1,525.28	-13.42	-12.95	14,364,453.18	905,195.48	39.525081067°N	107.607166433°W
1,620.00	7.69	233.46	1,618.61	-20.29	-21.82	14,364,446.32	905,186.61	39.525061528°N	107.607197153°W
1,714.00	10.20	237.24	1,711.46	-28.54	-33.87	14,364,438.07	905,174.56	39.525037937°N	107.607239009°W
1,808.00	12.39	232.85	1,803.63	-39.13	-48.91	14,364,427.47	905,159.52	39.525007672°N	107.607291200°W
1,902.00	14.50	232.37	1,895.05	-52.41	-66.27	14,364,414.19	905,142.16	39.524969866°N	107.607351336°W
1,996.00	16.70	231.44	1,985.58	-68.02	-86.15	14,364,398.59	905,122.28	39.524925470°N	107.607420174°W

Survey Report - Geographic

Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C16 (111204) - Slot C16
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C16 (111204)	North Reference:	Grid
Wellbore:	McLin C16	Survey Calculation Method:	Minimum Curvature
Design:	McLin C16	Database:	EDM5000

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
2,089.00	18.89	231.57	2,074.13	-85.70	-108.40	14,364,380.90	905,100.03	39.524875172°N	107.607497162°W
2,184.00	21.40	230.08	2,163.31	-106.39	-133.74	14,364,360.22	905,074.69	39.524816409°N	107.607584821°W
2,278.00	22.19	226.34	2,250.59	-129.65	-159.74	14,364,336.95	905,048.69	39.524750523°N	107.607674526°W
2,371.00	21.62	225.77	2,336.88	-153.73	-184.72	14,364,312.88	905,023.71	39.524682484°N	107.607760556°W
2,465.00	20.92	225.38	2,424.48	-177.59	-209.07	14,364,289.01	904,999.36	39.524615065°N	107.607844382°W
2,559.00	21.62	225.86	2,512.07	-201.44	-233.45	14,364,265.16	904,974.98	39.524547699°N	107.607928277°W
2,652.00	21.09	225.77	2,598.69	-225.04	-257.73	14,364,241.56	904,950.70	39.524481010°N	107.608011885°W
2,747.00	20.21	223.58	2,687.58	-248.85	-281.29	14,364,217.75	904,927.14	39.524413811°N	107.608092904°W
2,841.00	20.48	225.95	2,775.72	-272.05	-304.30	14,364,194.55	904,904.13	39.524348341°N	107.608172047°W
2,936.00	20.70	224.85	2,864.65	-295.51	-328.09	14,364,171.10	904,880.34	39.524282089°N	107.608253903°W
3,030.00	21.01	227.75	2,952.50	-318.62	-352.28	14,364,147.99	904,856.15	39.524216764°N	107.608337227°W
3,125.00	21.80	227.18	3,040.94	-342.06	-377.83	14,364,124.55	904,830.60	39.524150421°N	107.608425316°W
3,219.00	22.02	227.84	3,128.15	-365.75	-403.69	14,364,100.85	904,804.74	39.524083364°N	107.608514513°W
3,314.00	22.10	229.38	3,216.20	-389.34	-430.46	14,364,077.27	904,777.97	39.524016519°N	107.608606912°W
3,408.00	22.10	229.95	3,303.29	-412.23	-457.41	14,364,054.38	904,751.02	39.523951575°N	107.608700060°W
3,503.00	21.01	227.27	3,391.65	-435.28	-483.61	14,364,031.32	904,724.83	39.523886236°N	107.608790475°W
3,597.00	20.39	226.96	3,479.58	-457.89	-507.95	14,364,008.71	904,700.48	39.523822265°N	107.608874402°W
3,692.00	21.01	228.06	3,568.45	-480.57	-532.72	14,363,986.03	904,675.71	39.523758078°N	107.608959800°W
3,786.00	20.70	228.85	3,656.29	-502.77	-557.76	14,363,963.84	904,650.67	39.523695193°N	107.609046241°W
3,881.00	21.09	228.85	3,745.04	-525.06	-583.27	14,363,941.54	904,625.16	39.523631994°N	107.609134332°W
3,976.00	19.20	227.18	3,834.23	-546.93	-607.60	14,363,919.68	904,600.83	39.523570064°N	107.609218278°W
4,070.00	17.49	225.86	3,923.45	-567.27	-629.08	14,363,899.33	904,579.35	39.523512539°N	107.609292268°W
4,165.00	15.60	225.07	4,014.51	-586.24	-648.37	14,363,880.37	904,560.06	39.523458973°N	107.609358655°W
4,259.00	15.60	224.37	4,105.05	-604.20	-666.16	14,363,862.40	904,542.27	39.523408280°N	107.609419820°W
4,354.00	14.99	226.08	4,196.68	-621.85	-683.94	14,363,844.75	904,524.49	39.523358431°N	107.609481002°W
4,448.00	13.89	225.25	4,287.71	-638.23	-700.71	14,363,828.38	904,507.72	39.523312168°N	107.609538727°W
4,543.00	13.89	229.77	4,379.94	-653.62	-717.51	14,363,812.98	904,490.92	39.523268599°N	107.609596675°W
4,637.00	12.70	226.74	4,471.42	-667.99	-733.65	14,363,798.61	904,474.78	39.523227893°N	107.609652373°W
4,732.00	10.59	221.95	4,564.46	-681.64	-747.09	14,363,784.96	904,461.34	39.523189372°N	107.609698591°W
4,826.00	9.01	215.27	4,657.09	-694.08	-757.12	14,363,772.53	904,451.31	39.523154459°N	107.609732828°W
4,921.00	7.38	213.25	4,751.11	-705.25	-764.76	14,363,761.35	904,443.67	39.523123187°N	107.609758749°W
5,015.00	6.20	211.58	4,844.45	-714.63	-770.73	14,363,751.98	904,437.70	39.523096995°N	107.609778929°W
5,109.00	3.91	214.04	4,938.08	-721.61	-775.18	14,363,745.00	904,433.25	39.523077488°N	107.609793986°W
5,161.24	2.92	216.19	4,990.23	-724.16	-776.96	14,363,742.45	904,431.47	39.523070354°N	107.609800037°W
C16 Top Gas									
5,204.00	2.11	219.45	5,032.95	-725.64	-778.11	14,363,740.96	904,430.32	39.523066186°N	107.609803932°W
5,299.00	0.48	178.58	5,127.92	-727.39	-779.21	14,363,739.21	904,429.22	39.523061302°N	107.609807655°W
5,393.00	0.48	136.26	5,221.92	-728.07	-778.93	14,363,738.54	904,429.50	39.523059464°N	107.609806586°W
5,487.00	0.88	125.75	5,315.91	-728.78	-778.07	14,363,737.83	904,430.36	39.523057594°N	107.609803474°W
5,582.00	0.88	113.98	5,410.90	-729.50	-776.81	14,363,737.11	904,431.62	39.523055712°N	107.609798941°W
5,676.00	1.32	97.67	5,504.88	-729.94	-775.08	14,363,736.67	904,433.35	39.523054648°N	107.609792758°W
5,771.00	1.49	108.88	5,599.85	-730.48	-772.82	14,363,736.12	904,435.61	39.523053330°N	107.609784720°W
5,866.00	0.62	80.67	5,694.84	-730.80	-771.15	14,363,735.81	904,437.28	39.523052596°N	107.609778751°W
5,960.00	1.01	336.87	5,788.83	-729.95	-770.97	14,363,736.65	904,437.46	39.523054926°N	107.609778213°W
6,054.00	0.48	350.58	5,882.82	-728.80	-771.36	14,363,737.80	904,437.07	39.523058051°N	107.609779712°W
6,149.00	0.48	0.47	5,977.82	-728.01	-771.42	14,363,738.59	904,437.01	39.523060215°N	107.609780012°W
6,243.00	0.62	49.55	6,071.82	-727.29	-771.03	14,363,739.32	904,437.40	39.523062232°N	107.609778704°W
6,338.00	0.88	339.37	6,166.81	-726.27	-770.90	14,363,740.33	904,437.53	39.523065031°N	107.609778334°W
6,432.00	0.88	351.37	6,260.80	-724.88	-771.26	14,363,741.72	904,437.17	39.523068813°N	107.609779761°W
6,527.00	1.10	54.96	6,355.79	-723.64	-770.62	14,363,742.97	904,437.81	39.523072279°N	107.609777632°W
6,621.00	1.49	44.28	6,449.76	-722.25	-769.03	14,363,744.36	904,439.40	39.523076228°N	107.609772135°W
6,716.00	0.88	348.16	6,544.74	-720.65	-768.32	14,363,745.96	904,440.11	39.523080669°N	107.609769775°W
6,810.00	1.71	329.88	6,638.72	-718.73	-769.17	14,363,747.88	904,439.26	39.523085868°N	107.609772990°W
6,905.00	1.19	356.25	6,733.69	-716.52	-769.95	14,363,750.09	904,438.48	39.523091871°N	107.609775966°W
6,999.00	1.41	318.15	6,827.67	-714.68	-770.78	14,363,751.92	904,437.65	39.523096840°N	107.609779114°W

Survey Report - Geographic

Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C16 (111204) - Slot C16
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C16 (111204)	North Reference:	Grid
Wellbore:	McLin C16	Survey Calculation Method:	Minimum Curvature
Design:	McLin C16	Database:	EDM5000

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,093.00	1.89	342.05	6,921.63	-712.35	-772.03	14,363,754.26	904,436.40	39.523103150°N	107.609783780°W
7,188.00	2.11	341.66	7,016.57	-709.20	-773.07	14,363,757.41	904,435.37	39.523111711°N	107.609787763°W
7,282.00	2.11	348.86	7,110.51	-705.86	-773.94	14,363,760.75	904,434.49	39.523120806°N	107.609791220°W
7,368.00	2.11	359.06	7,196.45	-702.72	-774.28	14,363,763.89	904,434.15	39.523129384°N	107.609792718°W
7,414.00	2.11	359.06	7,242.42	-701.03	-774.30	14,363,765.58	904,434.13	39.523134028°N	107.609792990°W
Proj to TD at 7414 MD/7242 TVD									

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
7,414.00	7,242.42	-701.03	-774.30	Proj to TD at 7414 MD/7242 TVD	

Checked By: _____	Approved By: _____	Date: _____
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