



End of Well Report

Prepared for



McLin C20

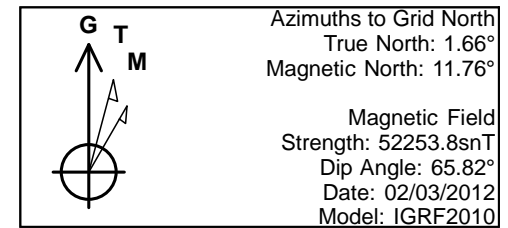
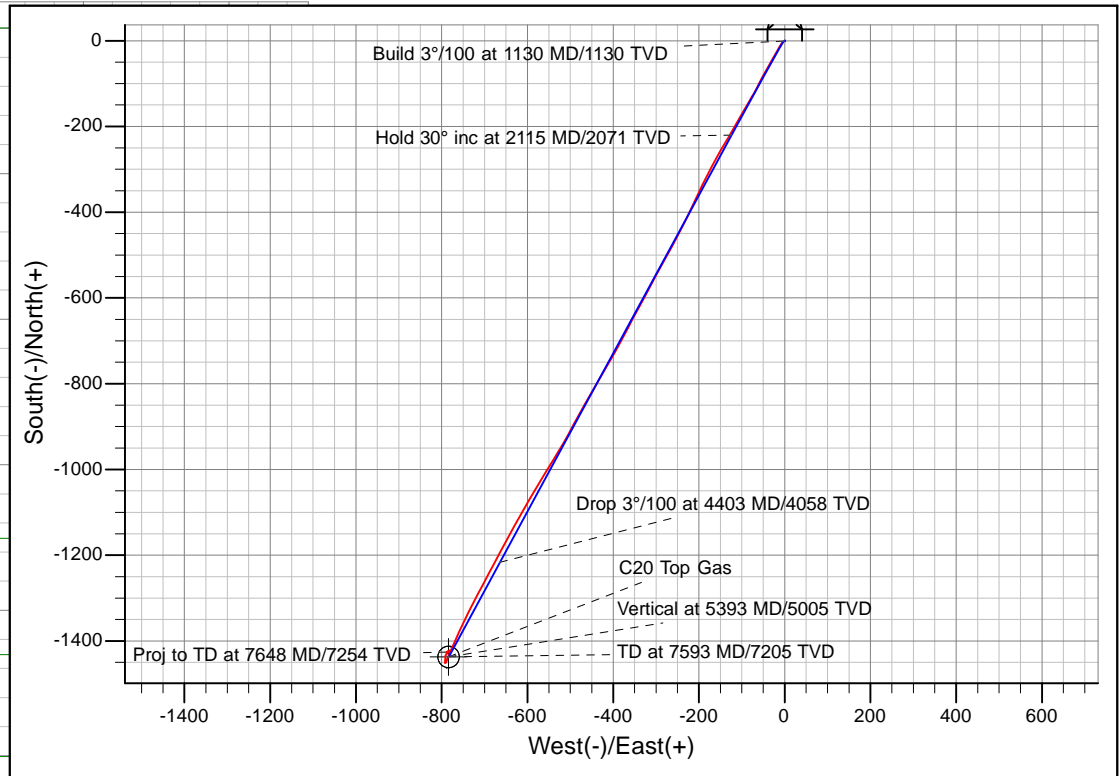
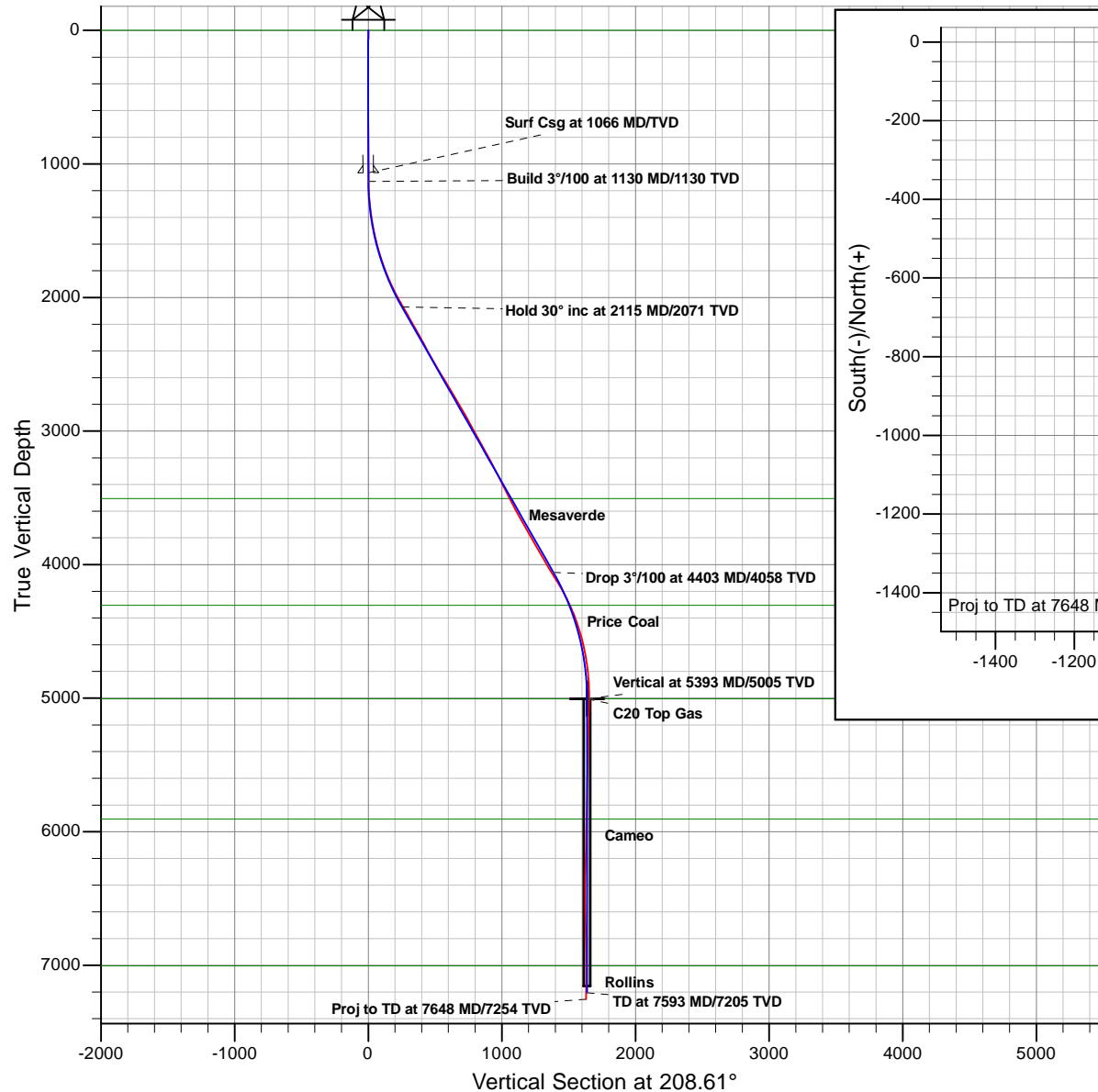
December 27, 2011

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



Antero Resources

McLin C
McLin C20 (111238)
Planned Vs. Actual



REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well McLin C20 (111238) - Slot C20, Grid North
Vertical (TVD) Reference: KB @ 5750.00ft (Original Well Elev)
Section (VS) Reference: Slot - C20(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

Plan: McLin C20 P04
Created By: ARK Directional Services Inc.
Date: 8:26, December 27 2011

Antero Resources

McLin

McLin C

McLin C20 (111238) - Slot C20

McLin C20

Survey: McLin C20 MWD

Survey Report - Geographic

27 December, 2011

Survey Report - Geographic

Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C20 (111238) - Slot C20
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C20 (111238)	North Reference:	Grid
Wellbore:	McLin C20	Survey Calculation Method:	Minimum Curvature
Design:	McLin C20	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 C20 (111238) - Slot C20		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	39.525025189°N
		Longitude:	107.607176838°W
		Ground Level:	5,726.00 ft

Wellbore	McLin C20				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	02/03/12	10.10	65.82	52,254

Design	McLin C20			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth:
				0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	208.61

Survey Program	Date	12/27/11		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
100.00	960.00	McLin C20 Surface (McLin C20)	NS-GYRO-MS	North sensing gyrocompassing m/s
1,089.00	7,648.00	McLin C20 MWD (McLin C20)	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)		
960.00	0.36	273.28	959.99	-0.66	-0.49	14,364,432.26	905,191.46	39.525023351°N	107.607178524°W
1,089.00	0.00	330.67	1,088.99	-0.63	-0.90	14,364,432.28	905,191.06	39.525023382°N	107.607179959°W
1,152.00	1.19	232.76	1,151.98	-1.03	-1.42	14,364,431.89	905,190.54	39.525022254°N	107.607181764°W
1,246.00	4.70	225.77	1,245.84	-4.31	-4.96	14,364,428.61	905,187.00	39.525012980°N	107.607193960°W
1,340.00	7.12	211.45	1,339.34	-11.96	-10.76	14,364,420.95	905,181.20	39.524991509°N	107.607213722°W
1,433.00	9.80	209.78	1,431.32	-23.75	-17.70	14,364,409.16	905,174.26	39.524958615°N	107.607237096°W
1,528.00	11.69	209.47	1,524.65	-39.15	-26.45	14,364,393.76	905,165.51	39.524915675°N	107.607266517°W
1,622.00	14.90	209.65	1,616.12	-57.95	-37.12	14,364,374.97	905,154.84	39.524863252°N	107.607302374°W
1,716.00	18.19	207.58	1,706.22	-81.46	-49.89	14,364,351.45	905,142.07	39.524797723°N	107.607345217°W
1,810.00	20.70	207.84	1,794.85	-109.16	-64.44	14,364,323.75	905,127.52	39.524720570°N	107.607393932°W
1,903.00	23.90	211.27	1,880.89	-139.81	-81.90	14,364,293.11	905,110.06	39.524635103°N	107.607452640°W

Survey Report - Geographic

Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C20 (111238) - Slot C20
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C20 (111238)	North Reference:	Grid
Wellbore:	McLin C20	Survey Calculation Method:	Minimum Curvature
Design:	McLin C20	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
1,997.00	27.29	208.77	1,965.65	-174.98	-102.17	14,364,257.93	905,089.79	39.524536985°N	107.607520809°W
2,091.00	30.01	211.05	2,048.14	-214.02	-124.67	14,364,218.89	905,067.29	39.524428096°N	107.607596513°W
2,185.00	29.71	209.87	2,129.66	-254.36	-148.39	14,364,178.56	905,043.57	39.524315538°N	107.607676423°W
2,279.00	29.18	207.76	2,211.52	-294.84	-170.67	14,364,138.08	905,021.29	39.524202711°N	107.607751178°W
2,373.00	29.00	206.17	2,293.66	-335.57	-191.39	14,364,097.35	905,000.57	39.524089322°N	107.607820409°W
2,467.00	28.52	204.86	2,376.07	-376.38	-210.87	14,364,056.54	904,981.08	39.523975801°N	107.607885242°W
2,561.00	29.31	206.57	2,458.35	-417.32	-230.60	14,364,015.60	904,961.36	39.523861908°N	107.607950919°W
2,654.00	30.50	207.36	2,538.97	-458.64	-251.63	14,363,974.27	904,940.33	39.523746868°N	107.608021173°W
2,748.00	31.50	209.56	2,619.54	-501.19	-274.71	14,363,931.73	904,917.25	39.523628295°N	107.608098563°W
2,843.00	30.98	208.24	2,700.77	-544.32	-298.52	14,363,888.60	904,893.44	39.523508074°N	107.608178495°W
2,937.00	30.40	207.14	2,781.60	-586.80	-320.82	14,363,846.12	904,871.14	39.523389758°N	107.608253120°W
3,032.00	29.62	209.56	2,863.87	-628.61	-343.37	14,363,804.30	904,848.59	39.523273248°N	107.608328702°W
3,126.00	28.52	206.97	2,946.03	-668.82	-365.01	14,363,764.10	904,826.95	39.523161210°N	107.608401229°W
3,221.00	28.78	208.37	3,029.40	-709.16	-386.16	14,363,723.76	904,805.80	39.523048864°N	107.608472020°W
3,315.00	29.40	210.96	3,111.54	-748.85	-408.78	14,363,684.06	904,783.18	39.522938152°N	107.608548084°W
3,410.00	28.52	209.95	3,194.67	-788.50	-432.10	14,363,644.41	904,759.86	39.522827521°N	107.608626620°W
3,504.00	27.69	209.87	3,277.58	-826.89	-454.18	14,363,606.03	904,737.78	39.522720456°N	107.608700900°W
3,599.00	25.71	209.07	3,362.45	-864.04	-475.19	14,363,568.88	904,716.77	39.522616848°N	107.609149556°W
3,693.00	27.29	207.67	3,446.57	-900.95	-495.10	14,363,531.97	904,696.86	39.522514004°N	107.608838261°W
3,788.00	27.29	210.88	3,531.00	-938.93	-516.40	14,363,493.99	904,675.56	39.522408106°N	107.608909787°W
3,883.00	28.92	211.76	3,614.80	-977.15	-539.67	14,363,455.76	904,652.29	39.522301383°N	107.608988295°W
3,977.00	30.01	210.74	3,696.64	-1,016.69	-563.65	14,363,416.23	904,628.31	39.522191019°N	107.609069183°W
4,072.00	29.09	210.48	3,779.28	-1,057.01	-587.50	14,363,375.91	904,604.46	39.522078494°N	107.609149556°W
4,166.00	30.14	210.17	3,861.00	-1,097.10	-610.96	14,363,335.81	904,581.01	39.521966621°N	107.609228514°W
4,261.00	30.14	208.77	3,943.16	-1,138.63	-634.42	14,363,294.29	904,557.54	39.521850824°N	107.609307375°W
4,355.00	30.59	207.05	4,024.26	-1,180.62	-656.66	14,363,252.30	904,535.30	39.521733856°N	107.609381832°W
4,450.00	32.21	209.25	4,105.35	-1,224.24	-680.02	14,363,208.67	904,511.94	39.521612314°N	107.609460124°W
4,544.00	30.01	207.05	4,185.83	-1,267.04	-702.96	14,363,165.87	904,489.00	39.521493064°N	107.609536973°W
4,639.00	25.49	207.98	4,269.88	-1,306.27	-723.36	14,363,126.64	904,468.60	39.521383807°N	107.609605226°W
4,733.00	22.41	206.88	4,355.78	-1,340.13	-740.96	14,363,092.79	904,451.00	39.521289530°N	107.609664078°W
4,828.00	18.59	204.15	4,444.75	-1,370.11	-755.35	14,363,062.81	904,436.61	39.521206130°N	107.609711967°W
4,922.00	15.91	204.37	4,534.51	-1,395.52	-766.80	14,363,037.40	904,425.17	39.521135498°N	107.609749911°W
5,016.00	12.00	202.88	4,625.72	-1,416.27	-775.91	14,363,016.65	904,416.05	39.521077852°N	107.609780083°W
5,111.00	9.18	202.26	4,719.09	-1,432.38	-782.63	14,363,000.53	904,409.33	39.521033104°N	107.609802203°W
5,206.00	5.80	200.46	4,813.27	-1,443.90	-787.18	14,362,989.02	904,404.78	39.521001153°N	107.609817138°W
5,300.00	2.81	219.75	4,906.99	-1,450.12	-790.31	14,362,982.80	904,401.65	39.520983830°N	107.609827602°W
5,395.00	0.40	346.27	5,001.96	-1,451.59	-791.88	14,362,981.33	904,400.08	39.520979676°N	107.609833006°W
5,398.39	0.47	349.24	5,005.35	-1,451.56	-791.88	14,362,981.35	904,400.08	39.520979744°N	107.609833028°W
C20 Top Gas									
5,489.00	2.42	2.44	5,095.93	-1,449.29	-791.87	14,362,983.63	904,400.09	39.520985991°N	107.609833219°W
5,584.00	1.58	356.64	5,190.87	-1,445.98	-791.86	14,362,986.94	904,400.10	39.520995077°N	107.609833529°W
5,678.00	1.49	7.98	5,284.83	-1,443.47	-791.77	14,362,989.45	904,400.19	39.521001954°N	107.609833454°W
5,773.00	1.58	5.96	5,379.80	-1,440.95	-791.46	14,362,991.97	904,400.50	39.521008908°N	107.609832624°W
5,867.00	1.32	353.74	5,473.77	-1,438.58	-791.45	14,362,994.34	904,400.52	39.521015399°N	107.609832809°W
5,962.00	1.01	4.77	5,568.75	-1,436.66	-791.50	14,362,996.26	904,400.47	39.521020668°N	107.609833182°W
6,056.00	1.10	14.57	5,662.73	-1,434.96	-791.20	14,362,997.96	904,400.76	39.521025352°N	107.609832309°W
6,150.00	1.10	27.05	5,756.72	-1,433.28	-790.56	14,362,999.63	904,401.40	39.521030004°N	107.609830224°W
6,245.00	1.19	40.68	5,851.70	-1,431.72	-789.50	14,363,001.20	904,402.46	39.521034368°N	107.609826637°W
6,339.00	1.01	31.45	5,945.68	-1,430.28	-788.44	14,363,002.64	904,403.53	39.521038423°N	107.609823001°W
6,434.00	1.19	46.08	6,040.66	-1,428.88	-787.29	14,363,004.04	904,404.67	39.521042352°N	107.609819080°W
6,528.00	1.19	30.26	6,134.64	-1,427.36	-786.09	14,363,005.56	904,405.87	39.521046617°N	107.609815003°W
6,623.00	1.71	36.37	6,229.61	-1,425.36	-784.76	14,363,007.55	904,407.21	39.521052193°N	107.609810469°W
6,717.00	1.58	31.14	6,323.57	-1,423.13	-783.25	14,363,009.79	904,408.71	39.521058454°N	107.609805379°W
6,812.00	1.01	113.76	6,418.56	-1,422.34	-781.81	14,363,010.58	904,410.15	39.521060719°N	107.609800345°W
6,906.00	1.41	249.37	6,512.55	-1,423.08	-782.13	14,363,009.84	904,409.83	39.521058659°N	107.609801417°W

Survey Report - Geographic

Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C20 (111238) - Slot C20
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C20 (111238)	North Reference:	Grid
Wellbore:	McLin C20	Survey Calculation Method:	Minimum Curvature
Design:	McLin C20	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
7,000.00	1.32	253.94	6,606.52	-1,423.79	-784.26	14,363,009.13	904,407.70	39.521056551°N	107.609808864°W
7,095.00	0.88	239.88	6,701.50	-1,424.46	-785.94	14,363,008.46	904,406.02	39.521054582°N	107.609814756°W
7,189.00	1.10	216.85	6,795.49	-1,425.54	-787.11	14,363,007.38	904,404.86	39.521051514°N	107.609818773°W
7,284.00	1.32	206.35	6,890.47	-1,427.25	-788.14	14,363,005.66	904,403.82	39.521046740°N	107.609822255°W
7,378.00	0.22	306.85	6,984.46	-1,428.12	-788.76	14,363,004.80	904,403.20	39.521044325°N	107.609824381°W
7,473.00	0.48	19.27	7,079.46	-1,427.63	-788.78	14,363,005.29	904,403.18	39.521045655°N	107.609824482°W
7,648.00	0.48	19.27	7,254.45	-1,426.25	-788.29	14,363,006.67	904,403.67	39.521049490°N	107.609822911°W
Proj to TD at 7648 MD/7254 TVD									

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
7,648.00	7,254.45	-1,426.25	-788.29	Proj to TD at 7648 MD/7254 TVD

Checked By: _____ Approved By: _____ Date: _____