



End of Well Report

Prepared for



McLin C22

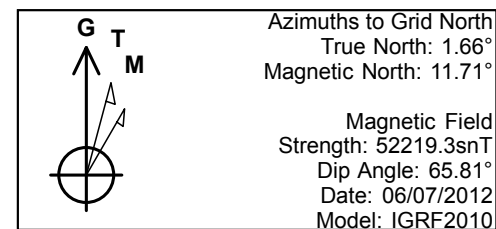
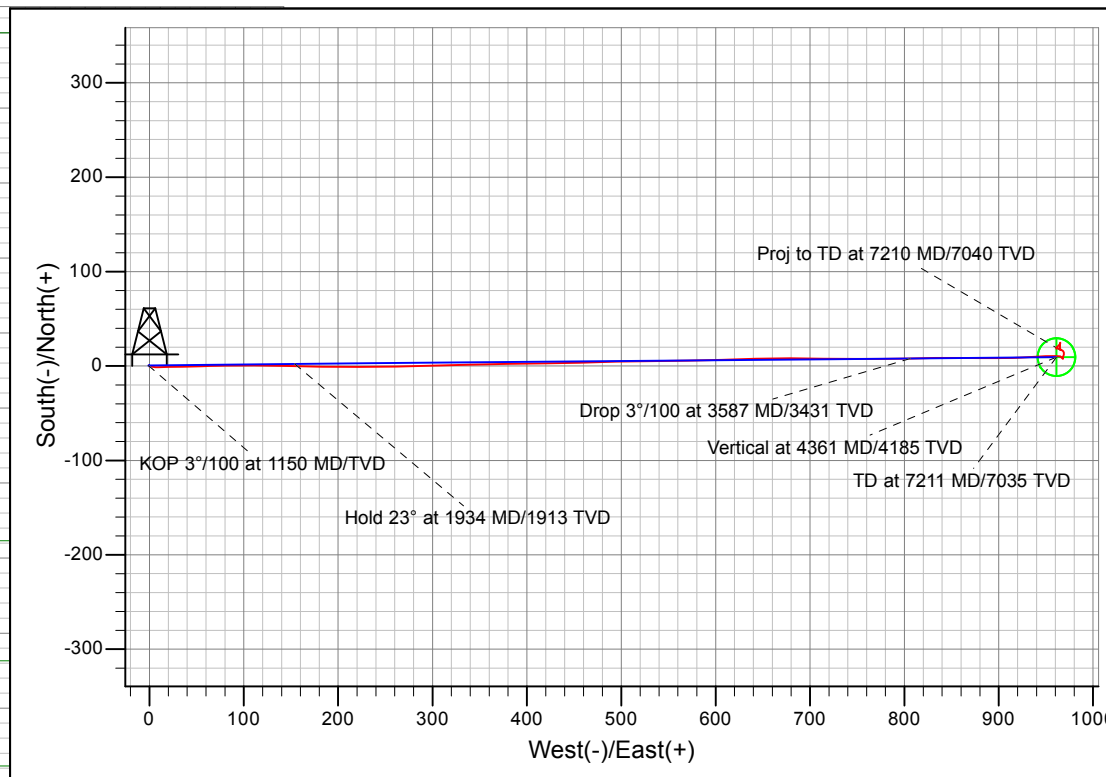
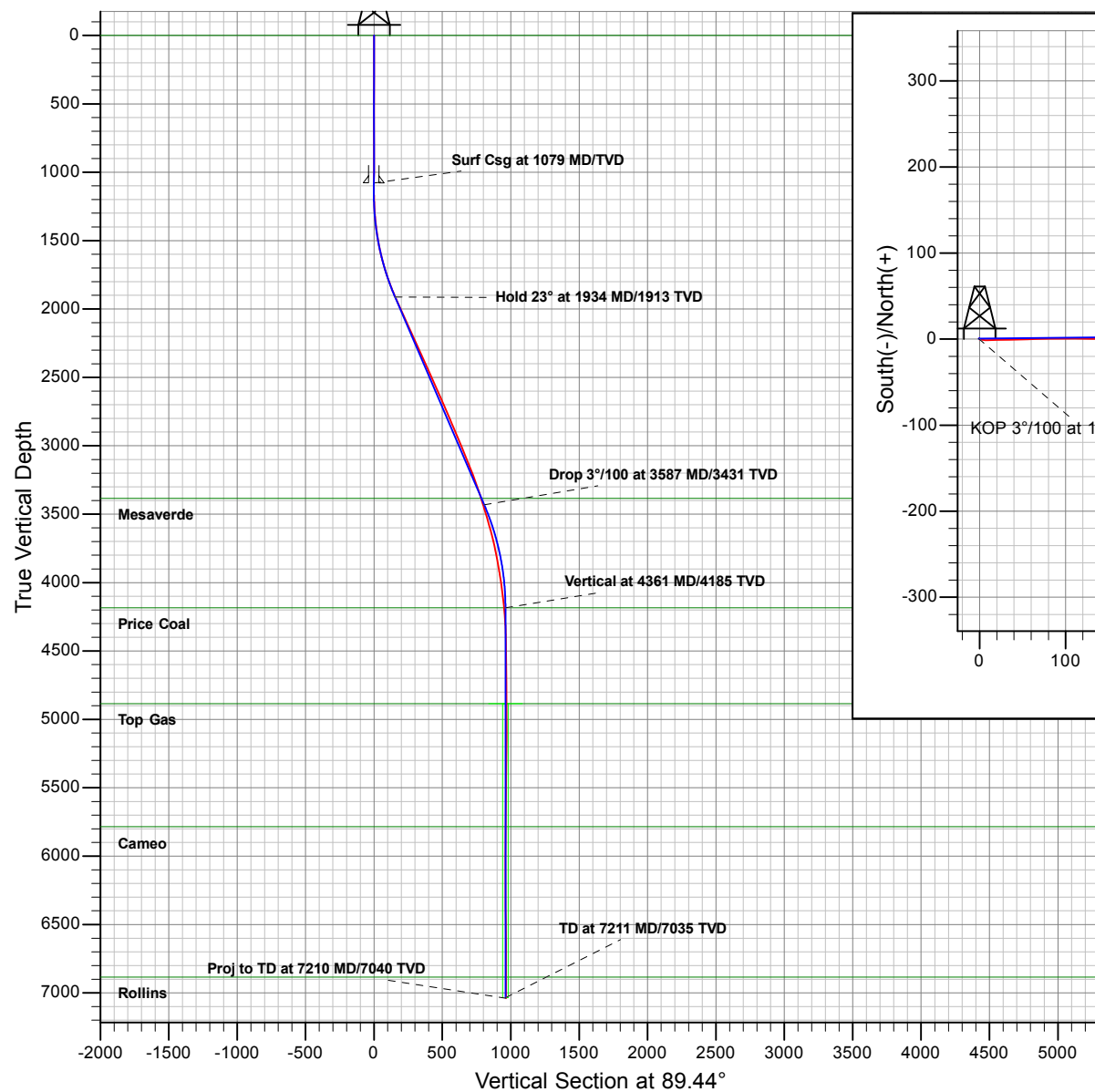
May, 22nd 2012

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



Antero Resources

McLin C
McLin C22 (111246)
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

Plan: P03
Created By: ARK Directional Services Inc.
Date: 9:50, May 22 2012

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well McLin C22 (111246) - Slot C22, Grid North
Vertical (TVD) Reference: KB @ 5750.00ft (Original Well Elev)
Section (VS) Reference: Slot - C22(0.00N, 0.00E)
Measured Depth Reference: KB @ 5750.00ft (Original Well Elev)
Calculation Method: Minimum Curvature



Antero Resources

McLin

McLin C

McLin C22 (111246) - Slot C22

McLin C22

Survey: McLin C22

Survey Report - Geographic

22 May, 2012





Survey Report - Geographic



Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C22 (111246) - Slot C22
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C22 (111246)	North Reference:	Grid
Wellbore:	McLin C22	Survey Calculation Method:	Minimum Curvature
Design:	McLin C22	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:	13.200 in
		Latitude:	39.525275157°N
		Longitude:	107.607030464°W
		Grid Convergence:	-1.66 °

Well	McLin C22 (111246) - Slot C22		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	McLin C22		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	06/07/12	10.05
			Dip Angle
			(°)
			65.81
			Field Strength
			(nT)
			52,219

Design	McLin C22		
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
			(°)
			89.44

Survey Program	Date	05/22/12		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
100.00	990.00	C22 gyro (McLin C22)	NS-GYRO-MS	North sensing gyrocompassing m/s
1,000.00	7,210.00	McLin C22 (McLin C22)	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)		
990.00	0.27	279.61	989.99	0.44	-0.36	14,364,489.50	905,219.05	39.525182600°N	107.607086670°W
1,000.00	0.27	279.61	999.99	0.45	-0.41	14,364,489.51	905,219.00	39.525182618°N	107.607086835°W
1,078.93	0.27	279.61	1,078.92	0.51	-0.77	14,364,489.57	905,218.64	39.525182759°N	107.607088141°W
1,091.00	0.31	212.63	1,090.99	0.49	-0.82	14,364,489.55	905,218.59	39.525182693°N	107.607088300°W
1,153.00	0.88	138.40	1,152.99	-0.01	-0.59	14,364,489.05	905,218.82	39.525181347°N	107.607087450°W
1,248.00	2.90	97.01	1,247.94	-0.85	2.28	14,364,488.22	905,221.69	39.525179273°N	107.607077196°W
1,342.00	5.41	89.70	1,341.68	-1.11	9.07	14,364,487.95	905,228.48	39.525179081°N	107.607053106°W
1,437.00	7.91	89.23	1,436.03	-1.00	20.09	14,364,488.06	905,239.50	39.525180262°N	107.607014090°W
1,531.00	10.68	88.53	1,528.79	-0.69	35.26	14,364,488.37	905,254.67	39.525182320°N	107.606960353°W
1,625.00	14.41	88.31	1,620.53	-0.12	55.67	14,364,488.94	905,275.08	39.525185503°N	107.606888120°W
1,720.00	16.70	89.41	1,712.04	0.37	81.14	14,364,489.43	905,300.55	39.525188869°N	107.606797946°W



Survey Report - Geographic



Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C22 (111246) - Slot C22
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C22 (111246)	North Reference:	Grid
Wellbore:	McLin C22	Survey Calculation Method:	Minimum Curvature
Design:	McLin C22	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
1,815.00	20.21	89.80	1,802.14	0.56	111.21	14,364,489.63	905,330.62	39.525191803°N	107.606691447°W
1,908.00	22.59	91.60	1,888.73	0.12	145.13	14,364,489.18	905,364.54	39.525193285°N	107.606571219°W
2,003.00	24.30	91.03	1,975.88	-0.74	182.92	14,364,488.32	905,402.33	39.525193926°N	107.606437268°W
2,098.00	24.61	89.80	2,062.36	-1.02	222.24	14,364,488.04	905,441.65	39.525196277°N	107.606297925°W
2,193.00	24.92	88.70	2,148.62	-0.50	262.03	14,364,488.56	905,481.44	39.525200875°N	107.606157016°W
2,287.00	24.39	88.39	2,234.05	0.49	301.23	14,364,489.56	905,520.64	39.525206719°N	107.606018247°W
2,381.00	24.61	88.70	2,319.59	1.48	340.20	14,364,490.55	905,559.61	39.525212530°N	107.605880297°W
2,476.00	24.39	88.79	2,406.04	2.35	379.59	14,364,491.41	905,599.00	39.525218028°N	107.605740853°W
2,571.00	23.69	89.63	2,492.79	2.88	418.28	14,364,491.95	905,637.69	39.525222577°N	107.605603823°W
2,665.00	23.99	88.39	2,578.78	3.54	456.27	14,364,492.61	905,675.68	39.525227403°N	107.605469321°W
2,760.00	23.29	88.13	2,665.80	4.70	494.34	14,364,493.76	905,713.75	39.525233598°N	107.605334549°W
2,854.00	23.82	90.20	2,751.97	5.24	531.90	14,364,494.30	905,751.31	39.525238064°N	107.605201557°W
2,949.00	23.29	88.31	2,839.06	5.73	569.86	14,364,494.79	905,789.26	39.525242415°N	107.605067139°W
3,043.00	22.50	88.79	2,925.65	6.65	606.41	14,364,495.72	905,825.82	39.525247865°N	107.604937722°W
3,137.00	22.50	87.60	3,012.50	7.79	642.37	14,364,496.85	905,861.77	39.525253830°N	107.604810470°W
3,232.00	22.90	90.81	3,100.14	8.29	679.01	14,364,497.35	905,898.42	39.525258112°N	107.604680702°W
3,327.00	21.18	90.59	3,188.19	7.85	714.66	14,364,496.91	905,934.06	39.525259741°N	107.604554379°W
3,421.00	18.81	90.50	3,276.52	7.54	746.79	14,364,496.60	905,966.20	39.525261451°N	107.604440492°W
3,515.00	18.19	89.49	3,365.66	7.54	776.62	14,364,496.60	905,996.03	39.525263816°N	107.604334830°W
3,610.00	17.01	88.53	3,456.22	8.03	805.34	14,364,497.09	906,024.75	39.525267437°N	107.604233137°W
3,704.00	16.22	89.49	3,546.29	8.50	832.21	14,364,497.56	906,051.62	39.525270859°N	107.604137983°W
3,799.00	14.90	90.33	3,637.81	8.55	857.69	14,364,497.61	906,077.10	39.525273014°N	107.604047712°W
3,893.00	12.48	90.33	3,729.13	8.42	879.94	14,364,497.48	906,099.35	39.525274429°N	107.603968893°W
3,987.00	10.50	89.89	3,821.24	8.38	898.66	14,364,497.44	906,118.07	39.525275800°N	107.603902558°W
4,081.00	9.80	87.91	3,913.77	8.68	915.22	14,364,497.75	906,134.63	39.525277961°N	107.603843924°W
4,176.00	7.91	86.33	4,007.63	9.40	929.83	14,364,498.46	906,149.23	39.525281078°N	107.603792259°W
4,270.00	6.81	88.39	4,100.86	9.97	941.85	14,364,499.03	906,161.26	39.525283598°N	107.603749713°W
4,365.00	5.41	86.99	4,195.32	10.36	951.96	14,364,499.42	906,171.36	39.525285480°N	107.603713962°W
4,459.00	3.78	89.49	4,289.01	10.62	959.48	14,364,499.68	906,178.89	39.525286791°N	107.603687333°W
4,554.00	1.41	90.81	4,383.91	10.63	963.78	14,364,499.70	906,183.19	39.525287164°N	107.603672099°W
4,648.00	0.70	148.20	4,477.89	10.13	965.24	14,364,499.19	906,184.65	39.525285896°N	107.603666878°W
4,743.00	1.10	115.03	4,572.88	9.25	966.37	14,364,498.31	906,185.78	39.525283574°N	107.603662778°W
4,837.00	0.62	152.73	4,666.87	8.42	967.42	14,364,497.48	906,186.83	39.525281370°N	107.603658970°W
4,932.00	0.48	140.69	4,761.87	7.65	967.91	14,364,496.71	906,187.32	39.525279310°N	107.603657165°W
5,027.00	0.70	340.42	4,856.86	7.89	967.97	14,364,496.95	906,187.38	39.525279970°N	107.603656985°W
5,121.00	0.79	6.30	4,950.86	9.07	967.85	14,364,498.14	906,187.25	39.525283212°N	107.603657536°W
5,216.00	0.88	35.53	5,045.85	10.32	968.34	14,364,499.38	906,187.75	39.525286666°N	107.603655907°W
5,310.00	1.41	12.11	5,139.83	12.04	969.00	14,364,501.10	906,188.41	39.525291433°N	107.603653738°W
5,405.00	1.32	350.09	5,234.80	14.26	969.06	14,364,503.32	906,188.47	39.525297530°N	107.603653764°W
5,500.00	1.10	308.91	5,329.78	15.91	968.16	14,364,504.97	906,187.57	39.525301988°N	107.603657114°W
5,594.00	1.19	300.91	5,423.76	16.98	966.62	14,364,506.04	906,186.03	39.525304796°N	107.603662678°W
5,688.00	1.32	293.79	5,517.74	17.92	964.79	14,364,506.98	906,184.20	39.525307225°N	107.603669251°W
5,783.00	1.10	290.89	5,612.72	18.68	962.94	14,364,507.74	906,182.35	39.525309181°N	107.603675894°W
5,877.00	0.22	215.00	5,706.71	18.86	962.00	14,364,507.92	906,181.40	39.525309583°N	107.603679265°W
5,972.00	0.09	77.41	5,801.71	18.72	961.96	14,364,507.79	906,181.37	39.525309215°N	107.603679364°W
6,066.00	0.31	230.91	5,895.71	18.58	961.84	14,364,507.64	906,181.25	39.525308809°N	107.603679794°W
6,161.00	0.31	254.60	5,990.71	18.35	961.39	14,364,507.41	906,180.80	39.525308142°N	107.603681354°W
6,255.00	0.22	270.50	6,084.71	18.28	960.97	14,364,507.35	906,180.37	39.525307927°N	107.603682855°W
6,350.00	0.48	9.03	6,179.71	18.68	960.85	14,364,507.74	906,180.25	39.525309000°N	107.603683321°W
6,444.00	0.62	37.99	6,273.71	19.47	961.22	14,364,508.53	906,180.63	39.525311196°N	107.603682074°W
6,540.00	0.88	41.59	6,369.70	20.43	962.03	14,364,509.49	906,181.44	39.525313896°N	107.603679306°W
6,634.00	1.49	46.12	6,463.68	21.81	963.39	14,364,510.88	906,182.80	39.525317810°N	107.603674630°W
6,729.00	1.32	38.91	6,558.65	23.52	964.97	14,364,512.58	906,184.38	39.525322620°N	107.603669216°W
6,823.00	0.48	306.23	6,652.64	24.60	965.33	14,364,513.66	906,184.74	39.525325599°N	107.603668043°W
6,918.00	0.31	180.11	6,747.64	24.58	965.01	14,364,513.64	906,184.42	39.525325513°N	107.603669179°W



Survey Report - Geographic



Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C22 (111246) - Slot C22
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C22 (111246)	North Reference:	Grid
Wellbore:	McLin C22	Survey Calculation Method:	Minimum Curvature
Design:	McLin C22	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
7,012.00	1.89	182.22	6,841.62	22.77	964.95	14,364,511.83	906,184.36	39.525320561°N	107.603669209°W
7,107.00	1.71	177.69	6,936.57	19.79	964.94	14,364,508.85	906,184.35	39.525312380°N	107.603668916°W
7,165.00	1.49	172.11	6,994.55	18.18	965.08	14,364,507.24	906,184.49	39.525307970°N	107.603668260°W
7,210.00	1.49	172.11	7,039.53	17.02	965.24	14,364,506.08	906,184.65	39.525304802°N	107.603667572°W
Proj to TD at 7210 MD/7040 TVD									

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
7,210.00	7,039.53	17.02	965.24	Proj to TD at 7210 MD/7040 TVD

Checked By: _____	Approved By: _____	Date: _____
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