



End of Well Report

Prepared for



McLin C19

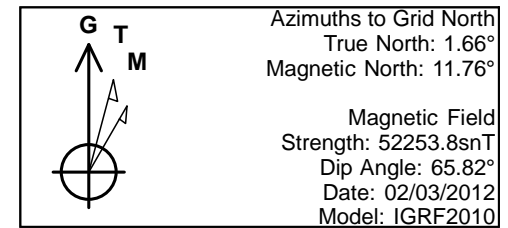
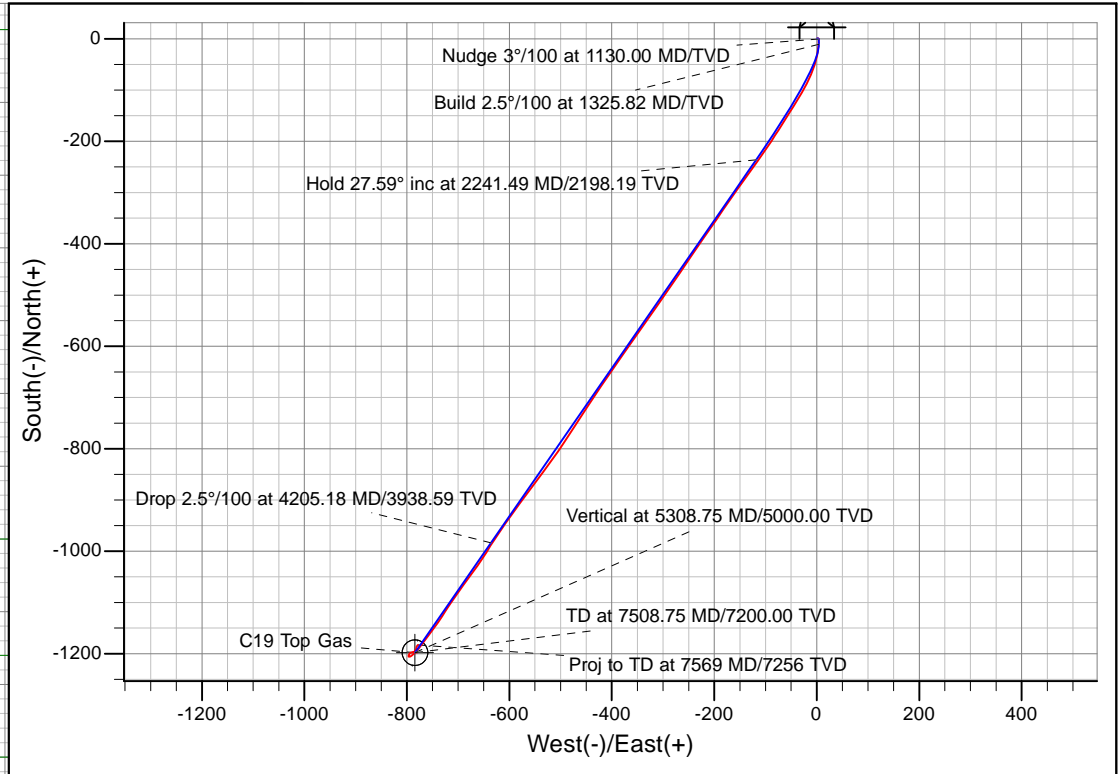
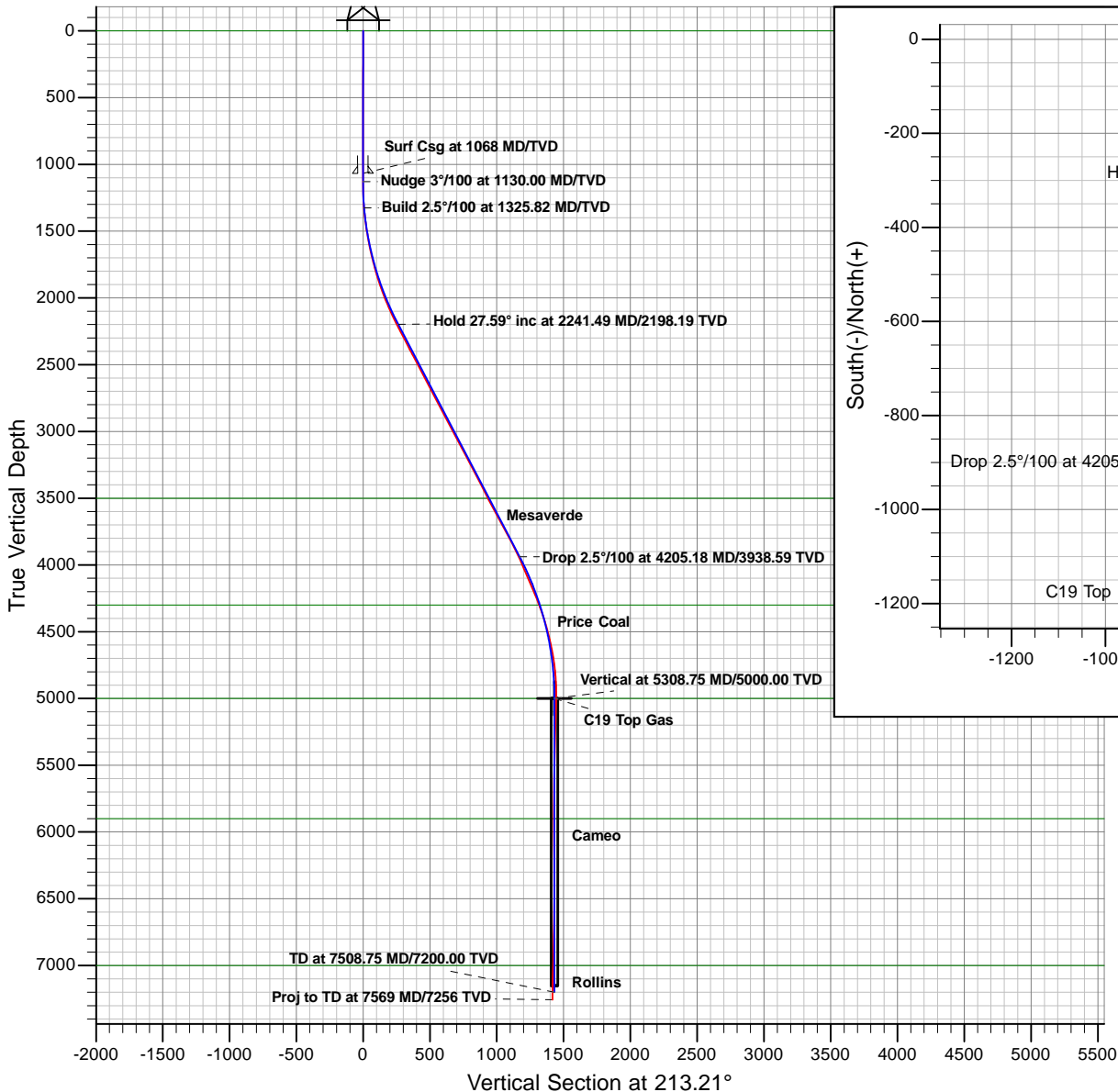
December 19, 2011

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



Antero Resources

McLin C
McLin C19 (111237)
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 C19 (111237) - Slot C19, Grid North
Vertical (TVD) Reference: KB @ 5750.00ft (Original Well Elev)
Section (VS) Reference: Slot - C19(0.00N, 0.00E)
Measured Depth Reference: KB @ 5750.00ft (Original Well Elev)
Calculation Method: Minimum Curvature

Plan: McLin C19 P05
Created By: ARK Directional Services Inc.
Date: 8:02, December 19 2011

Antero Resources

McLin

McLin C

McLin C19 (111237) - Slot C19

McLin C19

Design: McLin C19

Survey Report - Geographic

19 December, 2011

Survey Report - Geographic

Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C19 (111237) - Slot C19
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C19 (111237)	North Reference:	Grid
Wellbore:	McLin C19	Survey Calculation Method:	Minimum Curvature
Design:	McLin C19	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 C19 (111237) - Slot C19		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	39.525056433°N
		Longitude:	107.607158542°W
		Ground Level:	5,726.00 ft

Wellbore	McLin C19		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	02/03/12	10.10
			(°)
			65.82
			52,254

Design	McLin C19		
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
			213.21

Survey Program	Date	12/19/11		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
100.00	997.00	McLin C19 Surface (McLin C19)	NS-GYRO-MS	North sensing gyrocompassing m/s
1,000.00	7,569.00	McLin C19 (McLin C19)	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)		
0.00	0.00	0.00	0.00	0.00	0.00	14,364,444.14	905,197.45	39.525056433°N	107.607158542°W
100.00	0.23	63.19	100.00	0.09	0.18	14,364,444.23	905,197.63	39.525056695°N	107.607157916°W
200.00	0.39	70.47	200.00	0.29	0.68	14,364,444.44	905,198.13	39.525057296°N	107.607156167°W
300.00	0.25	52.55	300.00	0.54	1.17	14,364,444.69	905,198.62	39.525058011°N	107.607154442°W
400.00	0.30	76.72	400.00	0.73	1.60	14,364,444.88	905,199.05	39.525058574°N	107.607152945°W
500.00	0.25	95.02	499.99	0.78	2.07	14,364,444.92	905,199.52	39.525058724°N	107.607151277°W
600.00	0.10	111.66	599.99	0.72	2.37	14,364,444.87	905,199.82	39.525058607°N	107.607150215°W
700.00	0.14	120.09	699.99	0.63	2.56	14,364,444.77	905,200.01	39.525058365°N	107.607149543°W
800.00	0.12	139.14	799.99	0.49	2.73	14,364,444.63	905,200.18	39.525057994°N	107.607148912°W
900.00	0.21	129.97	899.99	0.29	2.94	14,364,444.44	905,200.39	39.525057470°N	107.607148151°W
997.00	0.23	123.93	996.99	0.07	3.24	14,364,444.21	905,200.69	39.525056883°N	107.607147073°W

Survey Report - Geographic

Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C19 (111237) - Slot C19
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C19 (111237)	North Reference:	Grid
Wellbore:	McLin C19	Survey Calculation Method:	Minimum Curvature
Design:	McLin C19	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
1,000.00	0.23	123.93	999.99	0.06	3.25	14,364,444.21	905,200.70	39.525056865°N	107.607147037°W
1,067.90	0.23	123.93	1,067.89	-0.09	3.48	14,364,444.06	905,200.92	39.525056465°N	107.607146220°W
1,090.00	0.31	42.74	1,089.99	-0.07	3.55	14,364,444.07	905,201.00	39.525056524°N	107.607145948°W
1,152.00	0.70	177.26	1,151.99	-0.32	3.68	14,364,443.82	905,201.13	39.525055835°N	107.607145455°W
1,249.00	2.99	179.06	1,248.93	-3.45	3.75	14,364,440.70	905,201.20	39.525047276°N	107.607144887°W
1,343.00	6.28	182.27	1,342.61	-11.04	3.59	14,364,433.11	905,201.04	39.525026437°N	107.607144687°W
1,437.00	8.31	187.54	1,435.85	-22.91	2.50	14,364,421.23	905,199.95	39.524993777°N	107.607147347°W
1,531.00	10.42	194.97	1,528.59	-37.86	-0.59	14,364,406.29	905,196.86	39.524952520°N	107.607156751°W
1,625.00	12.00	199.14	1,620.80	-55.30	-5.99	14,364,388.84	905,191.46	39.524904228°N	107.607174091°W
1,719.00	14.28	203.58	1,712.33	-75.16	-13.83	14,364,368.98	905,183.61	39.524849118°N	107.607199836°W
1,813.00	15.82	208.46	1,803.11	-97.05	-24.58	14,364,347.09	905,172.87	39.524788202°N	107.607235653°W
1,907.00	18.72	212.68	1,892.87	-121.02	-38.83	14,364,323.12	905,158.62	39.524721314°N	107.607283690°W
2,001.00	21.01	211.84	1,981.27	-148.04	-55.87	14,364,296.11	905,141.58	39.524645841°N	107.607341271°W
2,094.00	23.60	212.06	2,067.30	-177.98	-74.55	14,364,266.16	905,122.90	39.524562199°N	107.607404373°W
2,189.00	25.62	214.26	2,153.67	-211.08	-96.21	14,364,233.07	905,101.24	39.524469676°N	107.607477705°W
2,282.00	27.82	216.28	2,236.74	-245.20	-120.37	14,364,198.95	905,077.08	39.524374152°N	107.607559805°W
2,376.00	27.29	215.45	2,320.07	-280.43	-145.85	14,364,163.71	905,051.60	39.524275451°N	107.607646446°W
2,470.00	27.91	214.66	2,403.38	-316.08	-170.86	14,364,128.06	905,026.59	39.524175652°N	107.607731387°W
2,564.00	27.42	214.57	2,486.63	-352.00	-195.65	14,364,092.14	905,001.80	39.524075135°N	107.607815529°W
2,657.00	28.30	214.17	2,568.85	-387.88	-220.19	14,364,056.27	904,977.26	39.523974765°N	107.607898754°W
2,752.00	27.69	214.66	2,652.73	-424.66	-245.39	14,364,019.48	904,952.06	39.523871830°N	107.607984253°W
2,846.00	27.20	213.64	2,736.15	-460.51	-269.71	14,363,983.63	904,927.74	39.523771537°N	107.608066735°W
2,941.00	27.69	214.88	2,820.46	-496.70	-294.36	14,363,947.45	904,903.09	39.523670304°N	107.608150346°W
3,035.00	27.60	215.36	2,903.73	-532.37	-319.45	14,363,911.77	904,878.00	39.523570432°N	107.608235569°W
3,130.00	27.99	215.27	2,987.77	-568.52	-345.06	14,363,875.62	904,852.39	39.523469221°N	107.608322575°W
3,224.00	28.60	214.88	3,070.54	-604.99	-370.66	14,363,839.16	904,826.79	39.523367138°N	107.608409530°W
3,319.00	27.60	214.57	3,154.34	-641.76	-396.15	14,363,802.38	904,801.30	39.523264216°N	107.608496054°W
3,413.00	27.80	213.64	3,237.57	-677.94	-420.65	14,363,766.20	904,776.80	39.523163006°N	107.608579126°W
3,508.00	28.08	214.04	3,321.49	-714.91	-445.44	14,363,729.23	904,752.01	39.523059602°N	107.608663141°W
3,602.00	26.41	212.46	3,405.06	-750.89	-469.05	14,363,693.26	904,728.40	39.522959027°N	107.608743071°W
3,697.00	27.29	213.86	3,489.82	-786.80	-492.52	14,363,657.35	904,704.93	39.522858631°N	107.608822540°W
3,791.00	28.70	215.75	3,572.82	-823.01	-517.72	14,363,621.13	904,679.73	39.522757269°N	107.608908074°W
3,886.00	27.99	216.76	3,656.43	-859.39	-544.38	14,363,584.76	904,653.07	39.522655356°N	107.608998813°W
3,981.00	29.18	216.85	3,739.85	-895.78	-571.62	14,363,548.37	904,625.83	39.522553343°N	107.609091541°W
4,075.00	27.60	215.14	3,822.54	-931.93	-597.89	14,363,512.22	904,599.56	39.522452083°N	107.609180918°W
4,169.00	25.71	213.95	3,906.55	-966.65	-621.82	14,363,477.50	904,575.63	39.522354915°N	107.609262095°W
4,264.00	23.29	211.97	3,992.99	-999.68	-643.27	14,363,444.47	904,554.18	39.522262585°N	107.609334708°W
4,359.00	22.98	215.36	4,080.36	-1,030.74	-663.95	14,363,413.41	904,533.50	39.522175732°N	107.609404765°W
4,453.00	23.60	216.37	4,166.70	-1,060.85	-685.73	14,363,383.29	904,511.73	39.522091374°N	107.609478816°W
4,548.00	21.49	214.96	4,254.43	-1,090.43	-706.98	14,363,353.72	904,490.47	39.522008537°N	107.609551056°W
4,642.00	19.60	212.55	4,342.45	-1,117.83	-725.33	14,363,326.31	904,472.12	39.521931893°N	107.609613248°W
4,737.00	16.70	214.35	4,432.72	-1,142.54	-741.60	14,363,301.61	904,455.85	39.521862816°N	107.609668375°W
4,831.00	14.41	218.48	4,523.27	-1,162.85	-756.51	14,363,281.30	904,440.94	39.521805908°N	107.609719075°W
4,926.00	11.60	215.58	4,615.82	-1,179.87	-769.42	14,363,264.27	904,428.03	39.521758171°N	107.609763078°W
5,020.00	8.92	221.16	4,708.32	-1,193.05	-779.72	14,363,251.10	904,417.73	39.521721203°N	107.609798202°W
5,114.00	5.80	228.67	4,801.53	-1,201.68	-788.08	14,363,242.47	904,409.37	39.521696873°N	107.609826949°W
5,209.00	2.99	250.56	4,896.25	-1,205.67	-794.03	14,363,238.47	904,403.42	39.521685437°N	107.609847590°W
5,304.00	1.01	332.87	4,991.20	-1,205.75	-796.75	14,363,238.40	904,400.71	39.521685003°N	107.609857213°W
5,313.04	1.07	341.53	5,000.24	-1,205.60	-796.81	14,363,238.55	904,400.64	39.521685413°N	107.609857453°W
C19 Top Gas									
5,398.00	2.29	20.15	5,085.16	-1,203.25	-796.48	14,363,240.90	904,400.97	39.521691885°N	107.609856517°W
5,492.00	1.89	30.74	5,179.10	-1,200.16	-795.04	14,363,243.99	904,402.41	39.521700492°N	107.609851736°W
5,587.00	1.41	66.56	5,274.06	-1,198.34	-793.16	14,363,245.80	904,404.29	39.521705611°N	107.609845287°W
5,681.00	1.58	73.15	5,368.03	-1,197.51	-790.86	14,363,246.64	904,406.59	39.521708086°N	107.609837220°W
5,776.00	2.02	79.17	5,462.98	-1,196.81	-787.96	14,363,247.33	904,409.49	39.521710222°N	107.609827026°W

Survey Report - Geographic

Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C19 (111237) - Slot C19
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C19 (111237)	North Reference:	Grid
Wellbore:	McLin C19	Survey Calculation Method:	Minimum Curvature
Design:	McLin C19	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
5,871.00	2.20	80.67	5,557.92	-1,196.20	-784.52	14,363,247.94	904,412.93	39.521712170°N	107.609814889°W
5,965.00	1.10	99.08	5,651.88	-1,196.05	-781.85	14,363,248.09	904,415.60	39.521712794°N	107.609805441°W
6,059.00	0.22	139.55	5,745.87	-1,196.33	-780.84	14,363,247.81	904,416.61	39.521712107°N	107.609801841°W
6,154.00	0.22	104.88	5,840.87	-1,196.52	-780.55	14,363,247.63	904,416.90	39.521711621°N	107.609800778°W
6,248.00	0.70	111.25	5,934.87	-1,196.77	-779.84	14,363,247.37	904,417.61	39.521710980°N	107.609798239°W
6,343.00	0.40	270.16	6,029.87	-1,196.98	-779.63	14,363,247.16	904,417.82	39.521710422°N	107.609797476°W
6,437.00	0.48	223.58	6,123.86	-1,197.27	-780.23	14,363,246.88	904,417.22	39.521709594°N	107.609799570°W
6,529.00	0.31	204.46	6,215.86	-1,197.77	-780.60	14,363,246.37	904,416.85	39.521708177°N	107.609800825°W
6,623.00	1.01	300.96	6,309.86	-1,197.58	-781.41	14,363,246.57	904,416.04	39.521708647°N	107.609803734°W
6,718.00	0.88	301.58	6,404.84	-1,196.77	-782.75	14,363,247.38	904,414.70	39.521710770°N	107.609808563°W
6,812.00	0.79	319.18	6,498.83	-1,195.90	-783.79	14,363,248.25	904,413.66	39.521713070°N	107.609812331°W
6,907.00	0.62	353.17	6,593.83	-1,194.89	-784.28	14,363,249.26	904,413.17	39.521715791°N	107.609814168°W
7,001.00	1.10	34.04	6,687.82	-1,193.64	-783.83	14,363,250.51	904,413.62	39.521719263°N	107.609812721°W
7,095.00	1.19	37.64	6,781.80	-1,192.12	-782.73	14,363,252.03	904,414.72	39.521723522°N	107.609808977°W
7,189.00	0.70	8.16	6,875.78	-1,190.78	-782.06	14,363,253.37	904,415.40	39.521727256°N	107.609806714°W
7,284.00	1.32	10.88	6,970.77	-1,189.13	-781.77	14,363,255.02	904,415.68	39.521731804°N	107.609805860°W
7,378.00	1.49	21.65	7,064.74	-1,186.93	-781.11	14,363,257.22	904,416.34	39.521737889°N	107.609803765°W
7,473.00	1.49	34.35	7,159.71	-1,184.76	-779.96	14,363,259.39	904,417.49	39.521743928°N	107.609799905°W
7,523.00	1.41	41.64	7,209.69	-1,183.76	-779.18	14,363,260.38	904,418.27	39.521746724°N	107.609797260°W
7,569.00	1.41	41.64	7,255.68	-1,182.92	-778.43	14,363,261.23	904,419.02	39.521749104°N	107.609794682°W
Proj to TD at 7569 MD/7256 TVD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
7,569.00	7,255.68	-1,182.92	-778.43	Proj to TD at 7569 MD/7256 TVD

Checked By: _____ Approved By: _____ Date: _____