



End of Well Report

Prepared for



McLin C18

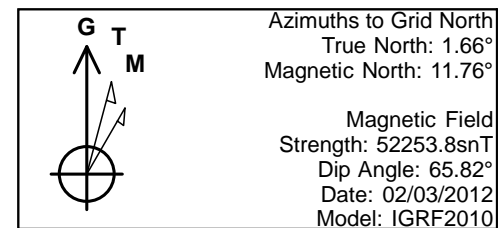
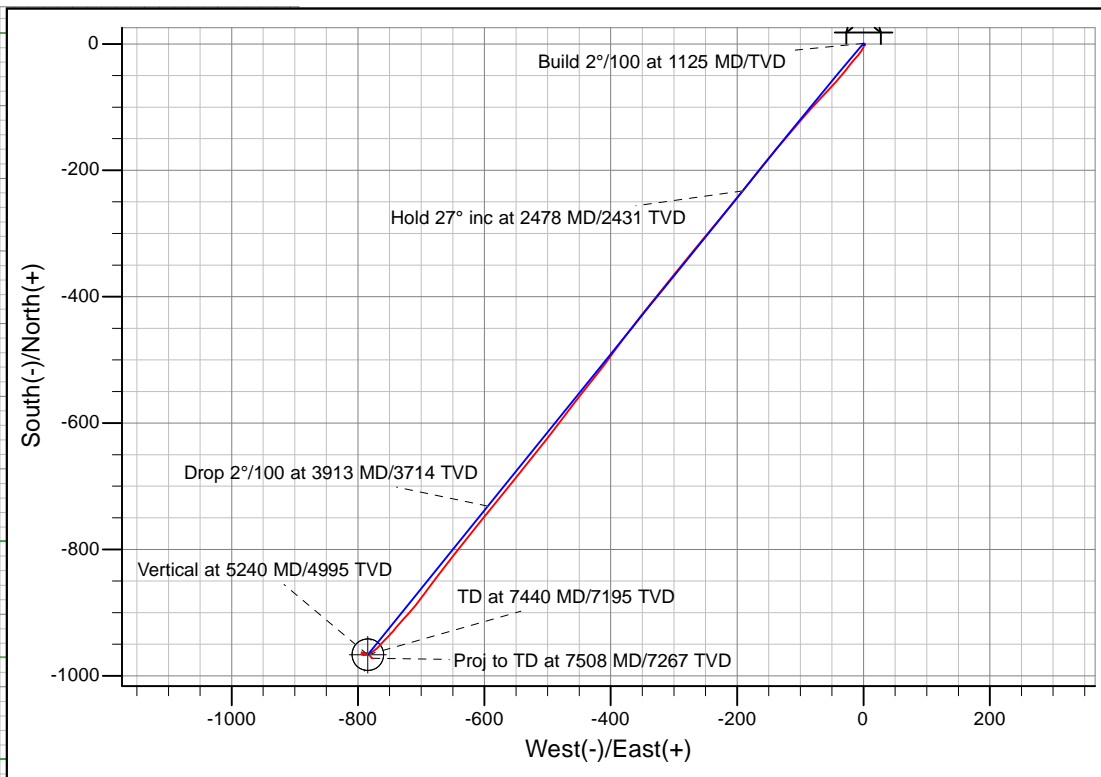
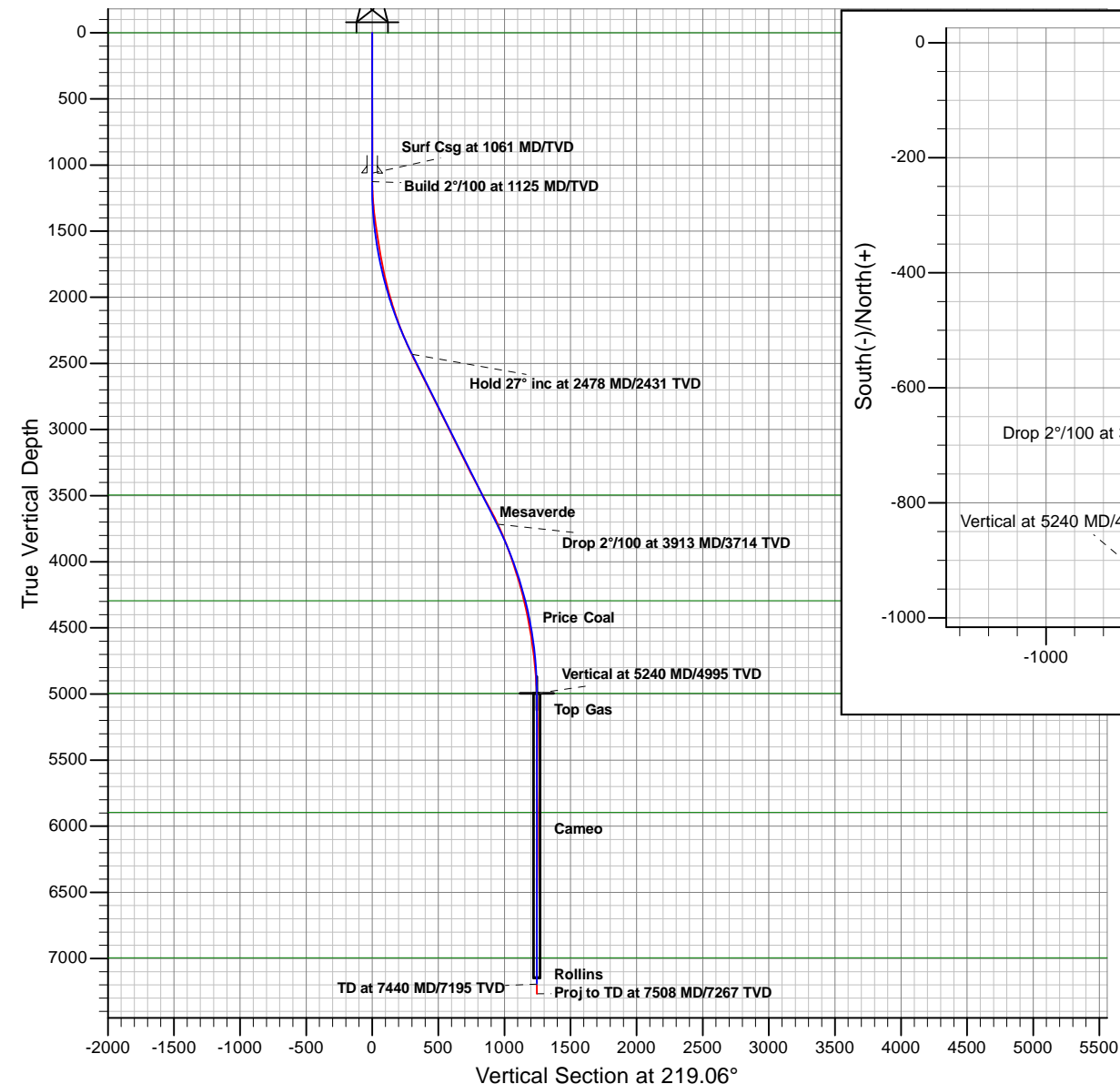
December 19, 2011

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



Antero Resources

McLin C
McLin C18 (111236)
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 C18 (111236) - Slot C18, Grid North
Vertical (TVD) Reference: KB @ 5750.00ft (Original Well Elev)
Section (VS) Reference: Slot - C18(0.00N, 0.00E)
Measured Depth Reference: KB @ 5750.00ft (Original Well Elev)
Calculation Method: Minimum Curvature

Plan: McLin C18 P04
Created By: ARK Directional Services Inc.
Date: 8:18, December 13 2011

Antero Resources

McLin

McLin C

McLin C18 (111236) - Slot C18

McLin C18

Design: McLin C18

Survey Report - Geographic

19 December, 2011

Survey Report - Geographic

Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C18 (111236) - Slot C18
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C18 (111236)	North Reference:	Grid
Wellbore:	McLin C18	Survey Calculation Method:	Minimum Curvature
Design:	McLin C18	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:	107.607140246°W
		Grid Convergence:	-1.66 °

Well	McLin C18 (111236) - Slot C18		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	39.525087679°N
		Longitude:	107.607140246°W
		Ground Level:	5,726.00 ft

Wellbore	McLin C18		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	02/03/12	10.10
			Dip Angle
			(°)
			65.82
			Field Strength
			(nT)
			52,254

Design	McLin C18		
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
			(°)
			219.06

Survey Program	Date	12/13/11		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
100.00	965.00	McLin C18 Surface (McLin C18)	NS-GYRO-MS	North sensing gyrocompassing m/s
1,088.00	7,508.00	McLin C18 (McLin C18)	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	14,364,455.37	905,202.94	39.525087679°N	107.607140246°W
100.00	0.57	74.37	100.00	0.13	0.48	14,364,455.51	905,203.42	39.525088085°N	107.607138562°W
200.00	0.52	110.33	199.99	0.11	1.38	14,364,455.48	905,204.32	39.525088092°N	107.607135355°W
300.00	0.42	149.75	299.99	-0.36	1.99	14,364,455.01	905,204.93	39.525086840°N	107.607133145°W
400.00	0.42	177.39	399.99	-1.05	2.20	14,364,454.33	905,205.13	39.525084982°N	107.607132362°W
500.00	0.41	214.13	499.99	-1.71	2.01	14,364,453.67	905,204.95	39.525083151°N	107.607132946°W
600.00	0.38	256.68	599.98	-2.08	1.49	14,364,453.29	905,204.43	39.525082087°N	107.607134762°W
700.00	0.40	284.47	699.98	-2.07	0.83	14,364,453.30	905,203.77	39.525082064°N	107.607137104°W
800.00	0.38	306.82	799.98	-1.78	0.22	14,364,453.59	905,203.16	39.525082801°N	107.607139271°W
900.00	0.39	356.34	899.98	-1.25	-0.06	14,364,454.13	905,202.88	39.525084255°N	107.607140344°W
965.00	0.55	15.85	964.98	-0.73	0.01	14,364,454.65	905,202.95	39.525085690°N	107.607140145°W

Survey Report - Geographic

Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C18 (111236) - Slot C18
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C18 (111236)	North Reference:	Grid
Wellbore:	McLin C18	Survey Calculation Method:	Minimum Curvature
Design:	McLin C18	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
1,088.00	0.48	146.98	1,087.97	-0.59	0.45	14,364,454.78	905,203.39	39.525086098°N	107.607138593°W
1,120.00	0.70	155.86	1,119.97	-0.88	0.60	14,364,454.49	905,203.54	39.525085312°N	107.607138021°W
1,151.00	1.49	174.97	1,150.97	-1.45	0.72	14,364,453.92	905,203.65	39.525083745°N	107.607137563°W
1,245.00	3.91	202.66	1,244.86	-5.63	-0.41	14,364,449.74	905,202.53	39.525072200°N	107.607141130°W
1,339.00	5.80	215.97	1,338.52	-12.43	-4.44	14,364,442.94	905,198.50	39.525053217°N	107.607154690°W
1,433.00	7.78	221.95	1,431.86	-21.01	-11.48	14,364,434.36	905,191.46	39.525029126°N	107.607178763°W
1,527.00	9.40	218.48	1,524.80	-31.75	-20.51	14,364,423.62	905,182.43	39.524998937°N	107.607209651°W
1,621.00	8.70	219.05	1,617.63	-43.28	-29.77	14,364,412.09	905,173.17	39.524966566°N	107.607241256°W
1,715.00	10.28	219.58	1,710.34	-55.27	-39.59	14,364,400.11	905,163.35	39.524932900°N	107.607274827°W
1,809.00	12.00	223.05	1,802.57	-68.87	-51.61	14,364,386.50	905,151.33	39.524894614°N	107.607315998°W
1,903.00	14.19	223.75	1,894.12	-84.34	-66.25	14,364,371.03	905,136.69	39.524851019°N	107.607366273°W
1,996.00	15.69	222.65	1,983.97	-101.82	-82.65	14,364,353.55	905,120.29	39.524801746°N	107.607422589°W
2,090.00	17.40	219.97	2,074.08	-121.95	-100.29	14,364,333.43	905,102.65	39.524745138°N	107.6074483021°W
2,184.00	19.38	220.85	2,163.27	-144.52	-119.52	14,364,310.86	905,083.42	39.524681684°N	107.607548835°W
2,278.00	21.62	219.84	2,251.31	-169.61	-140.82	14,364,285.76	905,062.12	39.524611134°N	107.607621709°W
2,372.00	23.38	218.65	2,338.15	-197.48	-163.57	14,364,257.90	905,039.37	39.524532876°N	107.607699423°W
2,466.00	25.49	218.26	2,423.73	-227.93	-187.74	14,364,227.44	905,015.20	39.524447408°N	107.607781944°W
2,560.00	26.81	219.18	2,508.11	-260.25	-213.66	14,364,195.13	904,989.28	39.524356686°N	107.607830445°W
2,653.00	26.59	219.75	2,591.19	-292.51	-240.22	14,364,162.87	904,962.72	39.524266066°N	107.607961220°W
2,747.00	25.80	219.18	2,675.54	-324.54	-266.60	14,364,130.84	904,936.34	39.524176088°N	107.608051369°W
2,842.00	27.29	219.58	2,760.52	-357.35	-293.53	14,364,098.02	904,909.41	39.524083922°N	107.608143431°W
2,937.00	26.81	219.27	2,845.13	-390.72	-320.97	14,364,064.65	904,881.97	39.523990182°N	107.608237204°W
3,031.00	25.88	217.07	2,929.36	-423.50	-346.76	14,364,031.87	904,856.18	39.523898193°N	107.608325184°W
3,126.00	26.72	218.04	3,014.53	-456.87	-372.42	14,363,998.51	904,830.52	39.523804614°N	107.608412657°W
3,220.00	26.10	215.75	3,098.72	-490.29	-397.52	14,363,965.08	904,805.42	39.523710912°N	107.608498155°W
3,315.00	26.50	218.26	3,183.89	-523.90	-422.85	14,363,931.48	904,780.09	39.523616705°N	107.608584452°W
3,409.00	26.10	218.17	3,268.16	-556.62	-448.62	14,363,898.75	904,754.32	39.523524878°N	107.608672364°W
3,504.00	27.82	217.16	3,352.83	-590.72	-474.93	14,363,864.66	904,728.01	39.523429234°N	107.608762055°W
3,598.00	28.21	218.26	3,435.82	-625.65	-501.93	14,363,829.73	904,701.01	39.523331263°N	107.608854142°W
3,693.00	28.21	217.25	3,519.54	-661.15	-529.43	14,363,794.23	904,673.51	39.523231669°N	107.608947898°W
3,787.00	28.70	220.37	3,602.18	-696.03	-557.50	14,363,759.34	904,645.44	39.523133732°N	107.609043750°W
3,882.00	26.19	218.96	3,686.49	-729.72	-585.46	14,363,725.66	904,617.48	39.523039088°N	107.609139344°W
3,978.00	23.51	218.35	3,773.59	-761.21	-610.66	14,363,694.16	904,592.28	39.522950674°N	107.609225400°W
4,072.00	21.18	219.36	3,860.53	-789.05	-633.07	14,363,666.33	904,569.87	39.522872519°N	107.609301911°W
4,167.00	19.69	215.97	3,949.55	-815.27	-653.35	14,363,640.10	904,549.59	39.522798958°N	107.609371080°W
4,261.00	17.71	218.48	4,038.58	-839.29	-671.55	14,363,616.09	904,531.39	39.522731633°N	107.609433087°W
4,356.00	17.18	216.46	4,129.21	-861.88	-688.88	14,363,593.49	904,514.06	39.522668261°N	107.609492153°W
4,450.00	15.12	217.47	4,219.50	-882.78	-704.59	14,363,572.60	904,498.35	39.522609676°N	107.609545658°W
4,545.00	12.70	222.57	4,311.71	-900.31	-719.20	14,363,555.07	904,483.74	39.522560427°N	107.609595594°W
4,639.00	12.08	220.28	4,403.52	-915.42	-732.55	14,363,539.96	904,470.39	39.522517899°N	107.609641331°W
4,734.00	10.42	221.55	4,496.69	-929.43	-744.67	14,363,525.94	904,458.27	39.522478486°N	107.609682847°W
4,828.00	8.00	224.28	4,589.47	-940.48	-754.88	14,363,514.90	904,448.06	39.522447368°N	107.609717869°W
4,923.00	7.29	221.47	4,683.63	-949.73	-763.49	14,363,505.65	904,439.45	39.522421307°N	107.609747409°W
5,017.00	6.20	228.85	4,776.98	-957.54	-771.26	14,363,497.84	904,431.68	39.522399263°N	107.609774139°W
5,112.00	4.70	236.85	4,871.55	-963.04	-778.38	14,363,492.33	904,424.56	39.522383594°N	107.609798803°W
5,206.00	3.12	251.26	4,965.33	-965.97	-784.03	14,363,489.40	904,418.91	39.522375112°N	107.609818507°W
5,235.66	2.90	253.03	4,994.95	-966.45	-785.51	14,363,488.93	904,417.43	39.522373682°N	107.609823706°W
C18 Top Gas									
5,301.00	2.42	258.07	5,060.22	-967.22	-788.44	14,363,488.16	904,414.50	39.522371344°N	107.609834004°W
5,395.00	1.49	280.97	5,154.16	-967.39	-791.58	14,363,487.98	904,411.36	39.522370607°N	107.609845115°W
5,489.00	1.10	310.68	5,248.14	-966.57	-793.46	14,363,488.80	904,409.48	39.522372709°N	107.609851874°W
5,584.00	1.01	355.55	5,343.13	-965.14	-794.22	14,363,490.23	904,408.72	39.522376570°N	107.609854700°W
5,678.00	1.19	358.05	5,437.11	-963.34	-794.32	14,363,492.03	904,408.62	39.522381504°N	107.609855231°W
5,773.00	0.88	128.48	5,532.10	-962.81	-793.78	14,363,492.56	904,409.16	39.522383007°N	107.609853381°W
5,868.00	1.01	109.27	5,627.09	-963.54	-792.42	14,363,491.83	904,410.52	39.522381111°N	107.609848483°W

Survey Report - Geographic

Company:	Antero Resources	Local Co-ordinate Reference:	Well McLin C18 (111236) - Slot C18
Project:	McLin	TVD Reference:	KB @ 5750.00ft (Original Well Elev)
Site:	McLin C	MD Reference:	KB @ 5750.00ft (Original Well Elev)
Well:	McLin C18 (111236)	North Reference:	Grid
Wellbore:	McLin C18	Survey Calculation Method:	Minimum Curvature
Design:	McLin C18	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
5,962.00	0.70	249.68	5,721.08	-964.01	-792.18	14,363,491.36	904,410.77	39.522379834°N	107.609847572°W
6,056.00	0.70	232.67	5,815.08	-964.56	-793.17	14,363,490.81	904,409.77	39.522378252°N	107.609851040°W
6,151.00	0.48	207.84	5,910.07	-965.27	-793.82	14,363,490.11	904,409.12	39.522376270°N	107.609853261°W
6,245.00	0.22	123.47	6,004.07	-965.71	-793.85	14,363,489.66	904,409.09	39.522375039°N	107.609853333°W
6,340.00	0.70	51.18	6,099.07	-965.45	-793.25	14,363,489.93	904,409.69	39.522375809°N	107.609851219°W
6,434.00	0.48	72.58	6,193.06	-964.97	-792.42	14,363,490.40	904,410.52	39.522377185°N	107.609848353°W
6,529.00	0.62	67.44	6,288.06	-964.66	-791.57	14,363,490.72	904,411.37	39.522378121°N	107.609845359°W
6,623.00	0.79	82.78	6,382.05	-964.38	-790.46	14,363,491.00	904,412.48	39.522378969°N	107.609841446°W
6,718.00	0.88	77.37	6,477.04	-964.14	-789.10	14,363,491.24	904,413.85	39.522379740°N	107.609836648°W
6,812.00	1.10	79.57	6,571.03	-963.82	-787.50	14,363,491.56	904,415.44	39.522380748°N	107.609831042°W
6,907.00	0.48	199.76	6,666.02	-964.03	-786.74	14,363,491.35	904,416.20	39.522380234°N	107.609828320°W
7,001.00	0.88	139.25	6,760.02	-964.94	-786.40	14,363,490.43	904,416.54	39.522377744°N	107.609827028°W
7,095.00	2.90	114.24	6,853.96	-966.47	-783.76	14,363,488.91	904,419.18	39.522373775°N	107.609817520°W
7,189.00	2.02	136.96	6,947.88	-968.65	-780.46	14,363,486.72	904,422.48	39.522368037°N	107.609805608°W
7,284.00	1.01	172.07	7,042.84	-970.71	-779.21	14,363,484.67	904,423.73	39.522362504°N	107.609800940°W
7,378.00	0.40	121.84	7,136.84	-971.70	-778.81	14,363,483.68	904,424.13	39.522359810°N	107.609799446°W
7,462.00	0.62	102.24	7,220.83	-971.95	-778.12	14,363,483.42	904,424.82	39.522359176°N	107.609796964°W
7,508.00	0.62	102.24	7,266.83	-972.06	-777.63	14,363,483.32	904,425.31	39.522358925°N	107.609795230°W
Proj to TD at 7508 MD/7267 TVD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
7,508.00	7,266.83	-972.06	-777.63	Proj to TD at 7508 MD/7267 TVD

Checked By: _____ Approved By: _____ Date: _____