



# End of Well Report

Prepared for



## Valley Farms I07

November 16, 2011

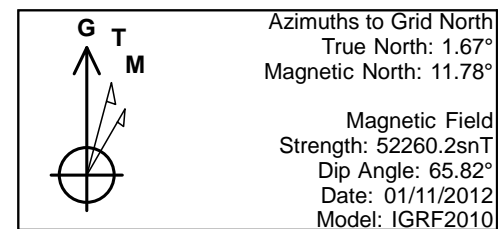
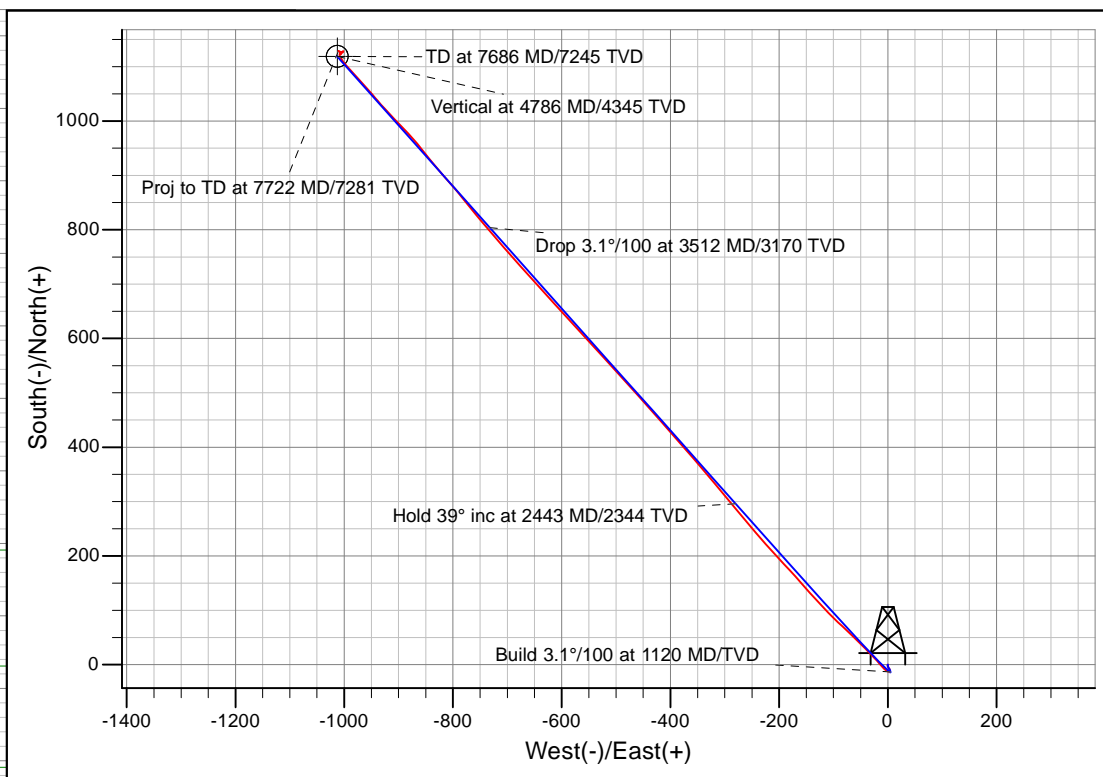
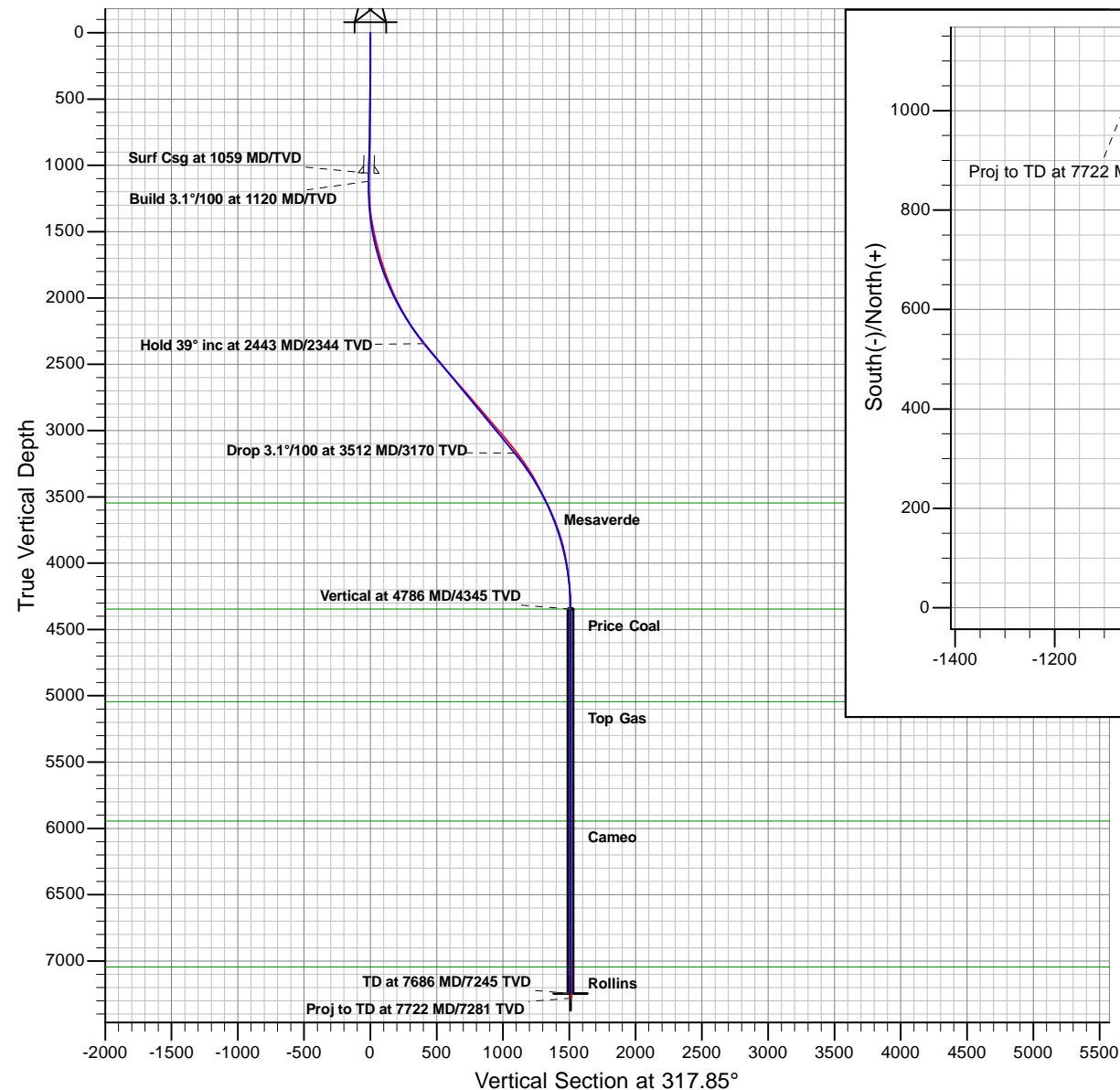
ARK Directional Services Inc  
191 University Blvd, # 601  
Denver, CO 80206



# Antero Resources

Valley Farms I  
Antero Valley Farms I07 (111112)

Planned Vs.  
Actual



## PROJECT DETAILS: Valley Farms

Geodetic System: Universal Transverse Mercator  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Zone 13N (108 W to 102 W)  
System Datum: Mean Sea Level

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Antero Valley Farms I07 (111112) - Slot I-7, Grid North  
Vertical (TVD) Reference: RKB @ 5674.00ft (RKB)  
Section (VS) Reference: Slot - I-7(0.00N, 0.00E)  
Measured Depth Reference: RKB @ 5674.00ft (RKB)  
Calculation Method: Minimum Curvature

Plan: Valley Farms I07 P03  
Created By: ARK Directional Services Inc.  
Date: 11:40, November 10 2011

# **Antero Resources**

**Valley Farms**

**Valley Farms I**

**Antero Valley Farms I07 (111112) - Slot I-7**

**Valley Farms I07**

**Survey: Valley Farms I07 MWD**

## **Survey Report - Geographic**

**16 November, 2011**

# Survey Report - Geographic

<b>Company:</b>	Antero Resources	<b>Local Co-ordinate Reference:</b>	Well Antero Valley Farms I07 (111112) - Slot I-7
<b>Project:</b>	Valley Farms	<b>TVD Reference:</b>	RKB @ 5674.00ft (RKB)
<b>Site:</b>	Valley Farms I	<b>MD Reference:</b>	RKB @ 5674.00ft (RKB)
<b>Well:</b>	Antero Valley Farms I07 (111112)	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Valley Farms I07	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Valley Farms I07	<b>Database:</b>	EDM5000

<b>Project</b>	Valley Farms		
<b>Map System:</b>	Universal Transverse Mercator	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Zone 13N (108 W to 102 W)		

Site	Valley Farms I				
Site Position:		Northing:	14,365,113.22 usft	Latitude:	39.526635439°N
From:	Lat/Long	Easting:	901,976.81 usft	Longitude:	107.618637050°W
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence:	-1.67 °

Well	Antero Valley Farms I07 (111112) - Slot I-7					
Well Position	+N/-S	0.00 ft	Northing:	14,365,133.04 usft	Latitude:	39.526689592°N
	+E/-W	0.00 ft	Easting:	901,974.01 usft	Longitude:	107.618649013°W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,650.00 ft

<b>Wellbore</b>	Valley Farms I07				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	01/11/12	10.11	65.82	52,260

<b>Design</b>	Valley Farms I07				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	317.85	

<b>Survey Program</b>	<b>Date</b>	11/10/11			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
100.00	983.00	Valley Farms I07 (Valley Farms I07)	NS-GYRO-MS	North sensing gyrocompassing m/s	
1,090.00	7,722.00	Valley Farms I07 MWD (Valley Farms I07)	MWD	MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Map Northing (usft)</b>	<b>Map Easting (usft)</b>	<b>Latitude</b>	<b>Longitude</b>	
983.00	1.64	159.65	982.91	-9.83	3.74	14,365,123.20	901,977.75	39.526662917°N	107.618634756°W	
1,090.00	1.49	187.38	1,089.88	-12.65	4.09	14,365,120.39	901,978.11	39.526655221°N	107.618633212°W	
1,185.00	1.71	267.06	1,184.85	-13.94	2.52	14,365,119.09	901,976.53	39.526651535°N	107.618638656°W	
1,279.00	4.70	307.18	1,278.70	-11.69	-1.95	14,365,121.35	901,972.06	39.526657368°N	107.618654726°W	
1,342.00	6.59	315.49	1,341.39	-7.55	-6.54	14,365,125.49	901,967.47	39.526668355°N	107.618671418°W	
1,437.00	10.28	318.78	1,435.35	2.72	-15.95	14,365,135.75	901,958.06	39.526695772°N	107.618705816°W	
1,531.00	12.79	315.79	1,527.44	16.49	-28.74	14,365,149.52	901,945.28	39.526732527°N	107.618752527°W	
1,626.00	14.50	315.57	1,619.76	32.52	-44.40	14,365,165.55	901,929.62	39.526775260°N	107.618809656°W	
1,720.00	17.01	313.68	1,710.22	50.42	-62.58	14,365,183.46	901,911.43	39.526822923°N	107.618875924°W	
1,815.00	19.12	313.07	1,800.53	70.64	-84.00	14,365,203.68	901,890.01	39.526876697°N	107.618953886°W	
1,909.00	21.40	315.09	1,888.71	93.31	-107.36	14,365,226.34	901,866.66	39.526937004°N	107.619038970°W	

# Survey Report - Geographic

<b>Company:</b>	Antero Resources	<b>Local Co-ordinate Reference:</b>	Well Antero Valley Farms I07 (111112) - Slot I-7
<b>Project:</b>	Valley Farms	<b>TVD Reference:</b>	RKB @ 5674.00ft (RKB)
<b>Site:</b>	Valley Farms I	<b>MD Reference:</b>	RKB @ 5674.00ft (RKB)
<b>Well:</b>	Antero Valley Farms I07 (111112)	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Valley Farms I07	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Valley Farms I07	<b>Database:</b>	EDM5000

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
2,004.00	24.79	318.39	1,976.09	120.48	-132.83	14,365,253.52	901,841.19	39.527009525°N	107.619132006°W
2,098.00	27.42	318.30	2,060.49	151.38	-160.32	14,365,284.42	901,813.70	39.527092105°N	107.619232581°W
2,192.00	30.28	317.07	2,142.82	184.90	-190.86	14,365,317.93	901,783.15	39.527181626°N	107.619344254°W
2,287.00	33.40	317.99	2,223.52	221.87	-224.68	14,365,354.91	901,749.33	39.527280365°N	107.619467888°W
2,382.00	36.52	320.67	2,301.37	263.18	-260.11	14,365,396.22	901,713.90	39.527390860°N	107.619597653°W
2,476.00	39.51	319.97	2,375.42	307.72	-297.08	14,365,440.76	901,676.94	39.527510107°N	107.619733217°W
2,570.00	40.61	319.79	2,447.36	353.98	-336.06	14,365,487.02	901,637.95	39.527633911°N	107.619876100°W
2,665.00	41.00	318.87	2,519.27	401.07	-376.52	14,365,534.10	901,597.49	39.527759856°N	107.620024293°W
2,759.00	41.09	318.56	2,590.17	447.45	-417.25	14,365,580.48	901,556.77	39.527883854°N	107.620173364°W
2,854.00	41.22	318.17	2,661.69	494.18	-458.78	14,365,627.21	901,515.23	39.528008729°N	107.620325340°W
2,948.00	41.31	318.08	2,732.35	540.34	-500.17	14,365,673.37	901,473.85	39.528132072°N	107.620476716°W
3,042.00	41.00	316.98	2,803.13	585.97	-541.93	14,365,719.00	901,432.08	39.528253923°N	107.620629393°W
3,137.00	40.30	317.38	2,875.20	631.36	-584.00	14,365,764.39	901,390.02	39.528375094°N	107.620783103°W
3,231.00	40.61	318.56	2,946.73	676.66	-624.83	14,365,809.70	901,349.18	39.528496124°N	107.620932439°W
3,326.00	40.91	317.38	3,018.69	722.73	-666.36	14,365,855.77	901,307.66	39.528619195°N	107.621084314°W
3,420.00	39.51	319.00	3,090.48	767.95	-706.82	14,365,900.99	901,267.20	39.528740022°N	107.621232331°W
3,515.00	37.22	319.97	3,164.96	812.77	-745.13	14,365,945.80	901,228.88	39.528859908°N	107.621372687°W
3,609.00	34.72	321.37	3,241.03	855.46	-780.14	14,365,988.49	901,193.88	39.528974226°N	107.621501104°W
3,704.00	32.08	318.39	3,320.34	895.46	-813.79	14,366,028.50	901,160.23	39.529081295°N	107.621624452°W
3,798.00	27.60	321.59	3,401.86	931.21	-843.91	14,366,064.24	901,130.11	39.529176958°N	107.621734858°W
3,893.00	26.98	319.40	3,486.29	964.82	-871.60	14,366,097.85	901,102.41	39.529266946°N	107.621836455°W
3,987.00	25.49	315.57	3,570.61	995.45	-899.64	14,366,128.49	901,074.37	39.529348760°N	107.621938957°W
4,081.00	22.72	317.77	3,656.41	1,023.34	-926.01	14,366,156.38	901,048.01	39.529423172°N	107.622035246°W
4,176.00	19.29	319.49	3,745.08	1,048.87	-948.54	14,366,181.90	901,025.48	39.529491391°N	107.622117703°W
4,270.00	16.00	317.99	3,834.65	1,070.30	-967.30	14,366,203.34	901,006.72	39.529548703°N	107.622186384°W
4,364.00	11.60	317.60	3,925.91	1,086.92	-982.35	14,366,219.95	900,991.66	39.529593077°N	107.622241420°W
4,458.00	9.01	316.89	4,018.39	1,099.27	-993.76	14,366,232.30	900,980.26	39.529626060°N	107.622283101°W
4,553.00	6.59	324.76	4,112.50	1,109.16	-1,001.99	14,366,242.19	900,972.03	39.529652521°N	107.622313281°W
4,647.00	4.39	332.49	4,206.07	1,116.75	-1,006.76	14,366,249.79	900,967.25	39.529672982°N	107.622330982°W
4,742.00	1.71	358.20	4,300.93	1,121.40	-1,008.49	14,366,254.43	900,965.53	39.529685581°N	107.622337571°W
4,836.00	1.89	19.87	4,394.88	1,124.26	-1,008.00	14,366,257.29	900,966.01	39.529693465°N	107.622336155°W
4,931.00	0.40	82.18	4,489.86	1,125.77	-1,007.14	14,366,258.81	900,966.87	39.529697700°N	107.622333262°W
5,025.00	0.88	82.18	4,583.86	1,125.92	-1,006.10	14,366,258.95	900,967.91	39.529698176°N	107.622329591°W
5,119.00	1.10	85.78	4,677.84	1,126.08	-1,004.49	14,366,259.11	900,969.53	39.529698756°N	107.622333887°W
5,215.00	0.22	359.56	4,773.84	1,126.33	-1,003.57	14,366,259.37	900,970.45	39.529699521°N	107.622320662°W
5,309.00	0.40	22.28	4,867.84	1,126.82	-1,003.45	14,366,259.85	900,970.57	39.529700859°N	107.622320276°W
5,403.00	0.70	40.17	4,961.83	1,127.56	-1,002.95	14,366,260.59	900,971.06	39.529702936°N	107.622318600°W
5,498.00	0.88	55.20	5,056.82	1,128.42	-1,001.98	14,366,261.45	900,972.04	39.529705372°N	107.622315240°W
5,592.00	0.40	193.67	5,150.82	1,128.51	-1,001.46	14,366,261.55	900,972.55	39.529705669°N	107.622313424°W
5,687.00	1.10	231.59	5,245.81	1,127.62	-1,002.26	14,366,260.66	900,971.76	39.529703167°N	107.622316142°W
5,781.00	1.10	237.40	5,339.79	1,126.58	-1,003.72	14,366,259.61	900,970.29	39.529700178°N	107.622321231°W
5,876.00	1.19	212.08	5,434.78	1,125.25	-1,005.02	14,366,258.28	900,969.00	39.529696434°N	107.622325672°W
5,971.00	0.70	207.38	5,529.76	1,123.90	-1,005.81	14,366,256.93	900,968.21	39.529692664°N	107.622328334°W
6,065.00	0.70	292.37	5,623.76	1,123.61	-1,006.60	14,366,256.64	900,967.42	39.529691801°N	107.622331121°W
6,160.00	0.62	325.29	5,718.75	1,124.25	-1,007.43	14,366,257.28	900,966.59	39.529693500°N	107.622334126°W
6,254.00	0.62	351.57	5,812.75	1,125.17	-1,007.79	14,366,258.21	900,966.22	39.529695998°N	107.622335511°W
6,348.00	0.22	28.57	5,906.74	1,125.83	-1,007.78	14,366,258.87	900,966.23	39.529697814°N	107.622335538°W
6,443.00	0.22	74.67	6,001.74	1,126.04	-1,007.52	14,366,259.08	900,966.50	39.529698407°N	107.622334627°W
6,537.00	0.40	18.46	6,095.74	1,126.40	-1,007.24	14,366,259.43	900,966.77	39.529699414°N	107.622333679°W
6,632.00	0.31	200.48	6,190.74	1,126.47	-1,007.23	14,366,259.51	900,966.79	39.529699617°N	107.622333633°W
6,727.00	0.48	205.80	6,285.74	1,125.88	-1,007.49	14,366,258.91	900,966.53	39.529697953°N	107.622334504°W
6,821.00	0.31	196.09	6,379.74	1,125.28	-1,007.73	14,366,258.31	900,966.28	39.529696290°N	107.622335299°W
6,916.00	0.31	165.90	6,474.73	1,124.78	-1,007.74	14,366,257.81	900,966.28	39.529694929°N	107.622335278°W
7,010.00	0.40	168.58	6,568.73	1,124.21	-1,007.61	14,366,257.25	900,966.40	39.529693380°N	107.622334770°W
7,105.00	0.40	137.46	6,663.73	1,123.64	-1,007.32	14,366,256.68	900,966.69	39.529691841°N	107.622333684°W

## Survey Report - Geographic

<b>Company:</b>	Antero Resources	<b>Local Co-ordinate Reference:</b>	Well Antero Valley Farms I07 (111112) - Slot I-7
<b>Project:</b>	Valley Farms	<b>TVD Reference:</b>	RKB @ 5674.00ft (RKB)
<b>Site:</b>	Valley Farms I	<b>MD Reference:</b>	RKB @ 5674.00ft (RKB)
<b>Well:</b>	Antero Valley Farms I07 (111112)	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Valley Farms I07	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Valley Farms I07	<b>Database:</b>	EDM5000

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,199.00	0.79	73.00	6,757.73	1,123.59	-1,006.48	14,366,256.62	900,967.53	39.529691765°N	107.622330697°W
7,294.00	1.71	346.16	6,852.71	1,125.16	-1,006.19	14,366,258.19	900,967.82	39.529696089°N	107.622329841°W
7,388.00	1.32	307.18	6,946.68	1,127.17	-1,007.39	14,366,260.21	900,966.62	39.529701525°N	107.622334294°W
7,482.00	0.79	287.58	7,040.66	1,128.02	-1,008.87	14,366,261.06	900,965.14	39.529703738°N	107.622339627°W
7,576.00	0.62	284.20	7,134.66	1,128.35	-1,009.98	14,366,261.38	900,964.03	39.529704529°N	107.622343595°W
7,667.00	0.31	350.38	7,225.65	1,128.71	-1,010.50	14,366,261.74	900,963.51	39.529705485°N	107.622345470°W
<b>Tgt I-07</b>									
7,722.00	0.31	350.38	7,280.65	1,129.00	-1,010.55	14,366,262.04	900,963.46	39.529706285°N	107.622345676°W
<b>Proj to TD at 7722 MD/7281 TVD</b>									

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
7,722.00	7,280.65	1,129.00	-1,010.55	Proj to TD at 7722 MD/7281 TVD	

Checked By: _____	Approved By: _____	Date: _____
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