



# End of Well Report

Prepared for



## Valley Farms I12

November 30, 2011

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

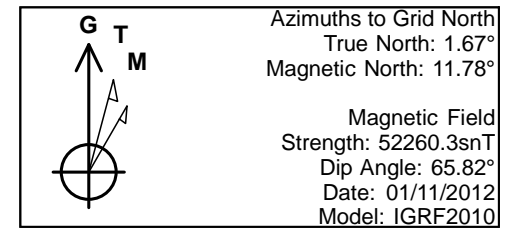
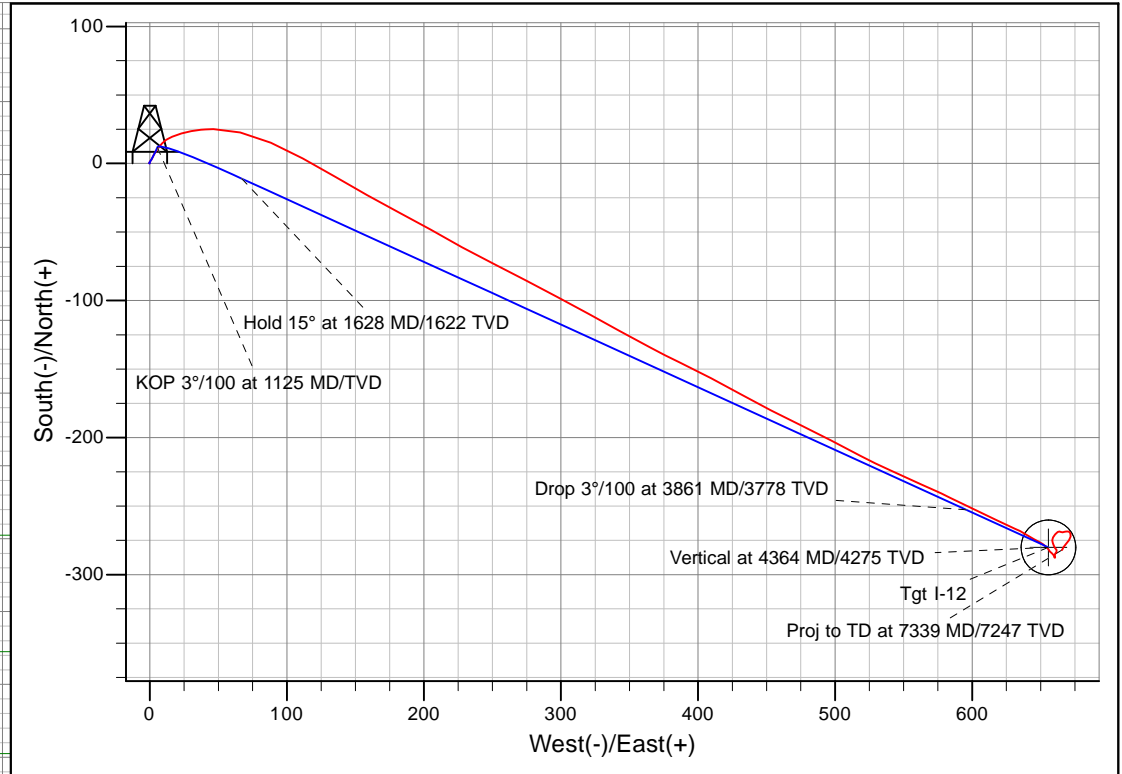
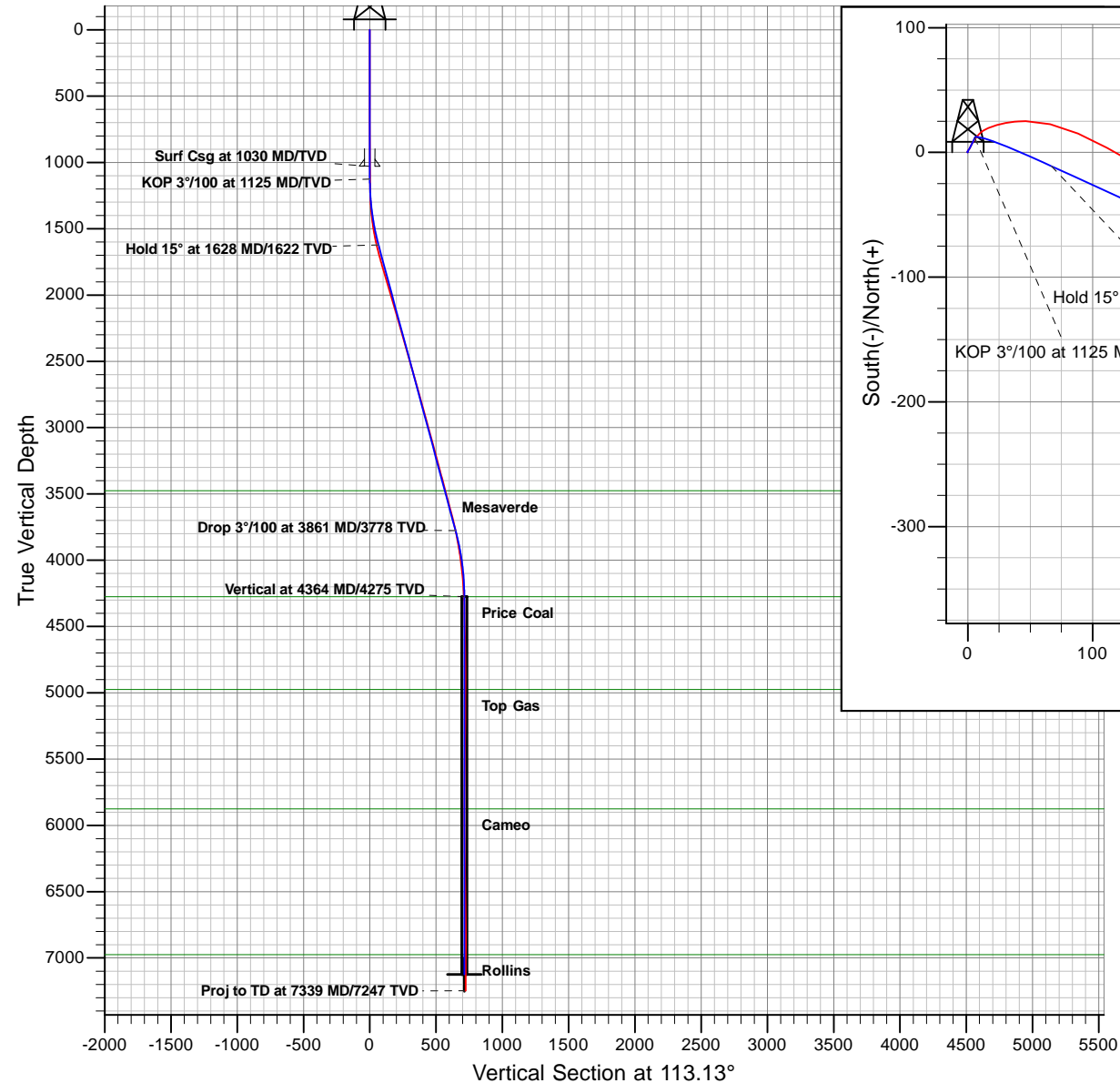


# Antero Resources

Valley Farms I

Antero Valley Farms I12 (111114)

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 I12 (111114) - Slot I-12, Grid North
Vertical (TVD) Reference:	RKB @ 5674.00ft (RKB)
Section (VS) Reference:	Slot - I-12(0.00N, 0.00E)
Measured Depth Reference:	RKB @ 5674.00ft (RKB)
Calculation Method:	Minimum Curvature

Plan: Valley Farms I12 P03  
Created By: ARK Directional Services Inc.  
Date: 10:49, November 28 2011

# **Antero Resources**

**Valley Farms**

**Valley Farms I**

**Antero Valley Farms I12 (111114) - Slot I-12**

**Valley Farms I12**

**Survey: Valley Farms I12**

## **Survey Report - Geographic**

**30 November, 2011**

# Survey Report - Geographic

<b>Company:</b>	Antero Resources	<b>Local Co-ordinate Reference:</b>	Well Antero Valley Farms I12 (111114) - Slot I-12
<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 I12 (111114)	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Valley Farms I12	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Valley Farms I12	<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)		

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

<b>Well</b>	Antero Valley Farms I12 (111114) - Slot I-12		
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b> 14,365,141.42 usft
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b> 902,033.43 usft
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft
		<b>Latitude:</b>	39.526717337°N
		<b>Longitude:</b>	107.618439399°W
		<b>Ground Level:</b>	5,650.00 ft

<b>Wellbore</b>	Valley Farms I12		
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>
			(°)
	IGRF2010	01/11/12	10.11
			<b>Dip Angle</b>
			(°)
			65.82
			<b>Field Strength</b>
			(nT)
			52,260

<b>Design</b>	Valley Farms I12		
<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)</b>	<b>+N/-S</b>	<b>+E/-W</b>
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			<b>Direction</b>
			(°)
			113.13

<b>Survey Program</b>	<b>Date</b>	11/28/11		
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
(ft)	(ft)			
100.00	900.00	Valley Farms I12 (Valley Farms I12)	NS-GYRO-MS	North sensing gyrocompassing m/s
1,032.00	7,339.00	Valley Farms I12 (Valley Farms I12)	MWD	MWD - Standard

<b>Survey</b>									
<b>Measured</b>	<b>Inclination</b>	<b>Azimuth</b>	<b>Vertical</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Map</b>	<b>Map</b>	<b>Latitude</b>	<b>Longitude</b>
<b>Depth</b>	(°)	(°)	<b>Depth</b>	(ft)	(ft)	<b>Northing</b>	<b>Easting</b>		
(ft)			(ft)			(usft)	(usft)		
900.00	1.08	22.76	899.92	7.96	3.81	14,365,149.38	902,037.23	39.526739481°N	107.618426727°W
1,032.00	1.41	41.18	1,031.89	10.33	5.36	14,365,151.75	902,038.79	39.526746105°N	107.618421478°W
1,125.00	2.11	36.17	1,124.85	12.57	7.12	14,365,153.99	902,040.55	39.526752401°N	107.618415461°W
1,188.00	2.81	43.07	1,187.79	14.64	8.86	14,365,156.06	902,042.29	39.526758203°N	107.618409513°W
1,220.00	3.12	46.50	1,219.75	15.81	10.03	14,365,157.23	902,043.46	39.526761513°N	107.618405498°W
1,251.00	3.78	55.99	1,250.69	16.96	11.49	14,365,158.38	902,044.91	39.526764791°N	107.618400448°W
1,346.00	5.70	69.00	1,345.36	20.41	18.49	14,365,161.82	902,051.92	39.526774795°N	107.618376001°W
1,440.00	9.01	78.27	1,438.58	23.58	30.06	14,365,164.99	902,063.48	39.526784417°N	107.618335344°W
1,535.00	10.99	89.87	1,532.14	25.11	46.40	14,365,166.53	902,079.83	39.526789928°N	107.618277607°W
1,629.00	13.40	103.19	1,624.03	22.64	65.97	14,365,164.06	902,099.40	39.526784725°N	107.618208017°W
1,724.00	15.38	112.99	1,716.06	15.21	88.29	14,365,156.63	902,121.72	39.526766112°N	107.618128176°W

# Survey Report - Geographic

<b>Company:</b>	Antero Resources	<b>Local Co-ordinate Reference:</b>	Well Antero Valley Farms I12 (111114) - Slot I-12
<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 I12 (111114)	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Valley Farms I12	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Valley Farms I12	<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
1,818.00	16.70	119.27	1,806.41	3.74	111.55	14,365,145.15	902,144.98	39.526736491°N	107.618044591°W
1,912.00	16.70	119.97	1,896.44	-9.62	135.03	14,365,131.80	902,168.46	39.526701739°N	107.617960026°W
2,007.00	16.30	119.89	1,987.53	-23.08	158.42	14,365,118.34	902,191.84	39.526666671°N	107.617875800°W
2,101.00	16.22	117.07	2,077.77	-35.63	181.54	14,365,105.79	902,214.97	39.526634091°N	107.617792573°W
2,196.00	16.22	120.06	2,168.99	-48.31	204.84	14,365,093.11	902,238.27	39.526601151°N	107.617708727°W
2,290.00	16.08	118.17	2,259.28	-61.03	227.68	14,365,080.39	902,261.11	39.526568072°N	107.617626504°W
2,385.00	15.91	116.99	2,350.60	-73.15	250.88	14,365,068.27	902,284.31	39.526536671°N	107.617543061°W
2,479.00	16.48	118.17	2,440.87	-85.29	274.12	14,365,056.13	902,307.54	39.526505214°N	107.617459496°W
2,573.00	16.08	116.99	2,531.10	-97.50	297.47	14,365,043.92	902,330.90	39.526473600°N	107.617375502°W
2,668.00	15.60	119.89	2,622.50	-109.83	320.27	14,365,031.59	902,353.69	39.526441574°N	107.617293462°W
2,762.00	15.51	117.78	2,713.06	-121.99	342.35	14,365,019.43	902,375.77	39.526409984°N	107.617213995°W
2,857.00	15.51	118.96	2,804.60	-134.06	364.70	14,365,007.36	902,398.12	39.526378653°N	107.617133567°W
2,951.00	15.38	114.88	2,895.20	-145.39	387.00	14,364,996.03	902,420.43	39.526349348°N	107.617053377°W
3,046.00	15.38	118.39	2,986.80	-156.68	409.52	14,364,984.74	902,442.94	39.526320169°N	107.616972460°W
3,140.00	15.21	118.57	3,077.47	-168.50	431.31	14,364,972.91	902,464.74	39.526289469°N	107.616894028°W
3,235.00	14.99	117.38	3,169.20	-180.11	453.17	14,364,961.31	902,486.59	39.526259361°N	107.616815409°W
3,329.00	14.90	115.67	3,260.02	-190.94	474.85	14,364,950.48	902,508.28	39.526231390°N	107.616737462°W
3,424.00	15.38	117.47	3,351.72	-202.04	497.04	14,364,939.38	902,530.46	39.526202701°N	107.616657720°W
3,518.00	14.59	117.69	3,442.52	-213.29	518.58	14,364,928.13	902,552.01	39.526173551°N	107.616580238°W
3,612.00	15.29	114.79	3,533.34	-223.99	540.32	14,364,917.43	902,573.74	39.526145933°N	107.616502132°W
3,707.00	15.29	113.86	3,624.98	-234.31	563.15	14,364,907.11	902,596.57	39.526119444°N	107.616420199°W
3,801.00	13.18	115.67	3,716.09	-243.97	584.14	14,364,897.45	902,617.57	39.526094625°N	107.616344822°W
3,896.00	11.38	116.06	3,808.91	-252.78	602.32	14,364,888.64	902,635.75	39.526071906°N	107.616279499°W
3,990.00	9.80	115.27	3,901.31	-260.27	617.89	14,364,881.15	902,651.32	39.526052600°N	107.616223581°W
4,087.00	7.78	114.88	3,997.17	-266.56	631.31	14,364,874.86	902,664.74	39.526036423°N	107.616175381°W
4,179.00	5.89	122.17	4,088.51	-271.69	640.96	14,364,869.73	902,674.38	39.526023108°N	107.616140680°W
4,273.00	4.61	115.97	4,182.11	-275.91	648.44	14,364,865.51	902,681.86	39.526012120°N	107.616113749°W
4,367.00	3.38	134.78	4,275.89	-279.52	653.80	14,364,861.90	902,687.23	39.526002654°N	107.616094377°W
4,462.00	0.62	157.46	4,370.82	-281.97	655.99	14,364,859.45	902,689.41	39.525996112°N	107.616086383°W
4,556.00	1.01	139.40	4,464.81	-283.06	656.72	14,364,858.36	902,690.15	39.525993156°N	107.616083669°W
4,651.00	1.58	124.68	4,559.79	-284.44	658.34	14,364,856.97	902,691.77	39.525989497°N	107.616077781°W
4,745.00	1.19	161.90	4,653.76	-286.11	659.71	14,364,855.31	902,693.14	39.525985038°N	107.616072759°W
4,840.00	0.22	181.36	4,748.75	-287.23	660.01	14,364,854.19	902,693.44	39.525981989°N	107.616071574°W
4,934.00	0.48	138.56	4,842.75	-287.71	660.27	14,364,853.71	902,693.70	39.525980705°N	107.616070617°W
5,029.00	0.48	359.39	4,937.75	-287.61	660.53	14,364,853.81	902,693.95	39.525980999°N	107.616069709°W
5,123.00	1.01	347.17	5,031.74	-286.40	660.34	14,364,855.01	902,693.77	39.525984280°N	107.616070499°W
5,218.00	1.10	26.06	5,126.73	-284.77	660.56	14,364,856.65	902,693.98	39.525988784°N	107.616069907°W
5,312.00	1.01	45.97	5,220.71	-283.38	661.55	14,364,858.04	902,694.97	39.525992667°N	107.616066536°W
5,407.00	1.19	324.36	5,315.70	-282.00	661.58	14,364,859.42	902,695.00	39.525996465°N	107.616066582°W
5,501.00	0.79	325.90	5,409.68	-280.67	660.64	14,364,860.75	902,694.07	39.526000040°N	107.616070021°W
5,596.00	1.01	330.69	5,504.67	-279.40	659.87	14,364,862.02	902,693.29	39.526003469°N	107.616072905°W
5,690.00	0.79	340.58	5,598.66	-278.06	659.25	14,364,863.36	902,692.67	39.526007078°N	107.616075242°W
5,785.00	1.01	339.26	5,693.65	-276.66	658.73	14,364,864.76	902,692.16	39.526010879°N	107.616077208°W
5,879.00	1.19	0.79	5,787.63	-274.91	658.45	14,364,866.51	902,691.88	39.526015661°N	107.616078380°W
5,974.00	1.41	26.19	5,882.61	-272.88	658.98	14,364,868.54	902,692.41	39.526021286°N	107.616076714°W
6,069.00	1.89	41.79	5,977.57	-270.66	660.54	14,364,870.76	902,693.97	39.526027493°N	107.616071417°W
6,163.00	1.32	53.97	6,071.53	-268.87	662.45	14,364,872.55	902,695.87	39.526032563°N	107.616064840°W
6,257.00	0.48	121.78	6,165.52	-268.44	663.66	14,364,872.98	902,697.08	39.526033838°N	107.616060596°W
6,352.00	1.01	108.28	6,260.51	-268.91	664.79	14,364,872.51	902,698.22	39.526032633°N	107.616056533°W
6,446.00	0.62	79.76	6,354.50	-269.08	666.08	14,364,872.34	902,699.50	39.526032271°N	107.616051955°W
6,541.00	0.88	71.06	6,449.50	-268.75	667.28	14,364,872.67	902,700.70	39.526033267°N	107.616047753°W
6,636.00	0.79	85.30	6,544.49	-268.46	668.62	14,364,872.96	902,702.04	39.526034171°N	107.616043026°W
6,730.00	1.10	99.76	6,638.47	-268.56	670.15	14,364,872.86	902,703.58	39.526034019°N	107.616037577°W
6,825.00	1.49	154.47	6,733.45	-269.83	671.58	14,364,871.59	902,705.01	39.526030651°N	107.616032377°W
6,919.00	1.41	185.98	6,827.42	-272.08	671.99	14,364,869.34	902,705.42	39.526024503°N	107.616030705°W

## Survey Report - Geographic

<b>Company:</b>	Antero Resources	<b>Local Co-ordinate Reference:</b>	Well Antero Valley Farms I12 (111114) - Slot I-12
<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 I12 (111114)	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Valley Farms I12	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Valley Farms I12	<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
7,013.00	2.42	215.77	6,921.37	-274.84	670.71	14,364,866.58	902,704.14	39.526016827°N	107.616034958°W
7,108.00	2.02	220.78	7,016.30	-277.74	668.44	14,364,863.68	902,701.87	39.526008703°N	107.616042687°W
7,203.00	1.49	215.47	7,111.26	-280.01	666.63	14,364,861.41	902,700.06	39.526002320°N	107.616048866°W
7,216.85	1.38	214.20	7,125.10	-280.30	666.44	14,364,861.12	902,699.86	39.526001523°N	107.616049540°W
<b>Tgt I-12</b>									
7,297.00	0.79	200.17	7,205.24	-281.62	665.70	14,364,859.80	902,699.13	39.525997846°N	107.616052005°W
7,339.00	0.79	200.17	7,247.23	-282.16	665.50	14,364,859.26	902,698.93	39.525996339°N	107.616052656°W
<b>Proj to TD at 7339 MD/7247 TVD</b>									

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
7,339.00	7,247.23	-282.16	665.50	Proj to TD at 7339 MD/7247 TVD	

Checked By: _____	Approved By: _____	Date: _____
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