



## Final Survey Plot

Projected Final Survey -  
 7748'MD & 7343'TVD @ 1910'  
 VS 0.4 deg Inc 219.3 deg AZ

Project: SEC.10-T6N-R65W  
 Site: M&T PAD Sec.10-T6N-R65W  
 Well: M&T FARMS 10XD  
 Plan: Wellbore #1



## **Synergy Resources**

**SEC.10-T6N-R65W**

**M&T PAD Sec.10-T6N-R65W**

**M&T FARMS 10XD**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**13 August, 2010**

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well M&T FARMS 10XD
<b>Project:</b>	SEC.10-T6N-R65W	<b>TVD Reference:</b>	10XD @ 4759.0ft (Original Well Elev)
<b>Site:</b>	M&T PAD Sec.10-T6N-R65W	<b>MD Reference:</b>	10XD @ 4759.0ft (Original Well Elev)
<b>Well:</b>	M&T FARMS 10XD	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

<b>Project</b>	SEC.10-T6N-R65W, Weld County, Colorado		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

Site		M&T PAD Sec.10-T6N-R65W			
Site Position:		Northing:		1,426,500.00ft	
From:	Lat/Long	Easting:		Longitude:	
		3,236,500.00ft		40° 30' 3.710 N	
Position Uncertainty:		Slot Radius:		104° 38' 58.413 W	
0.0 ft		"		Grid Convergence:	
				0.55 °	

Well	M&T FARMS 10XD, SHL LAT: 40.495287, LONG: -104.647110					
Well Position	+N-S	0.0 ft	Northing:	1,424,414.25 ft	Latitude:	40° 29' 43.033 N
	+E-W	0.0 ft	Easting:	3,237,201.16 ft	Longitude:	104° 38' 49.596 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	4,759.0 ft	Ground Level:	4,746.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/13/2010	8.93	67.18	53,292

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	75.97	

Survey Program		Date	8/13/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
211.0	7,748.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey	Wellbore Data									
	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Main Wellbore	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	211.0	1.80	289.00	211.0	1.1	-3.1	-2.8	0.85	0.85	0.00
	303.0	1.50	298.50	302.9	2.1	-5.6	-4.9	0.44	-0.33	10.33
	395.0	1.60	351.20	394.9	4.0	-6.8	-5.6	1.50	0.11	57.28
	486.0	3.30	23.00	485.8	7.6	-6.0	-4.0	2.32	1.87	34.95
	520.0	4.00	28.40	519.7	9.6	-5.0	-2.6	2.29	2.06	15.88
	614.0	3.80	33.70	613.5	15.1	-1.7	2.0	0.44	-0.21	5.64
	707.0	5.10	48.40	706.2	20.4	3.1	7.9	1.85	1.40	15.81
	801.0	7.70	58.90	799.7	26.4	11.6	17.6	3.02	2.77	11.17
	895.0	10.10	69.20	892.5	32.6	24.7	31.8	3.06	2.55	10.96
	989.0	12.80	71.20	984.6	38.9	42.2	50.4	2.90	2.87	2.13
	1,083.0	15.20	74.30	1,075.8	45.5	64.0	73.1	2.67	2.55	3.30
	1,176.0	17.50	75.70	1,165.1	52.3	89.2	99.3	2.51	2.47	1.51

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Well M&T FARMS 10XD
<b>Project:</b>	SEC.10-T6N-R65W	<b>TVD Reference:</b>	10XD @ 4759.0ft (Original Well Elev)
<b>Site:</b>	M&T PAD Sec.10-T6N-R65W	<b>MD Reference:</b>	10XD @ 4759.0ft (Original Well Elev)
<b>Well:</b>	M&T FARMS 10XD	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,270.0	19.00	76.10	1,254.4	59.5	117.8	128.7	1.60	1.60	0.43	
1,363.0	20.60	73.10	1,341.9	67.9	148.2	160.2	2.04	1.72	-3.23	
1,456.0	23.10	77.60	1,428.2	76.5	181.6	194.8	3.23	2.69	4.84	
1,550.0	24.90	78.20	1,514.0	84.5	219.0	233.0	1.93	1.91	0.64	
1,644.0	24.20	76.40	1,599.5	93.1	257.1	272.0	1.09	-0.74	-1.91	
1,737.0	25.10	73.70	1,684.1	103.1	294.6	310.8	1.55	0.97	-2.90	
1,831.0	25.10	73.10	1,769.2	114.5	332.8	350.6	0.27	0.00	-0.64	
1,924.0	25.20	72.20	1,853.4	126.3	370.5	390.1	0.43	0.11	-0.97	
2,019.0	26.50	75.40	1,938.9	137.8	410.3	431.5	2.01	1.37	3.37	
2,113.0	25.60	73.10	2,023.3	149.0	450.0	472.7	1.44	-0.96	-2.45	
2,207.0	24.90	72.10	2,108.3	161.0	488.3	512.7	0.87	-0.74	-1.06	
2,301.0	25.00	70.30	2,193.6	173.8	525.8	552.3	0.81	0.11	-1.91	
2,394.0	26.70	74.50	2,277.3	186.0	564.4	592.7	2.69	1.83	4.52	
2,488.0	25.40	71.70	2,361.7	198.0	603.9	633.9	1.90	-1.38	-2.98	
2,582.0	25.10	76.20	2,446.8	209.1	642.4	674.0	2.07	-0.32	4.79	
2,675.0	26.50	76.10	2,530.5	218.8	681.7	714.4	1.51	1.51	-0.11	
2,769.0	28.30	78.10	2,613.9	228.4	723.9	757.7	2.15	1.91	2.13	
2,863.0	27.20	76.20	2,697.1	238.1	766.6	801.4	1.50	-1.17	-2.02	
2,956.0	27.70	75.10	2,779.7	248.7	808.1	844.3	0.77	0.54	-1.18	
3,050.0	27.80	74.40	2,862.8	260.3	850.3	888.1	0.36	0.11	-0.74	
3,144.0	28.70	73.70	2,945.6	272.5	893.1	932.5	1.02	0.96	-0.74	
3,237.0	27.10	71.80	3,027.8	285.4	934.7	976.0	1.97	-1.72	-2.04	
3,331.0	27.10	69.90	3,111.5	299.4	975.1	1,018.6	0.92	0.00	-2.02	
3,425.0	27.00	71.00	3,195.2	313.7	1,015.4	1,061.2	0.54	-0.11	1.17	
3,519.0	25.60	73.90	3,279.5	326.3	1,055.1	1,102.7	2.02	-1.49	3.09	
3,613.0	24.90	79.90	3,364.5	335.4	1,094.1	1,142.8	2.82	-0.74	6.38	
3,707.0	25.90	76.20	3,449.5	343.8	1,133.5	1,183.0	2.00	1.06	-3.94	
3,800.0	24.80	76.30	3,533.5	353.2	1,172.2	1,222.9	1.18	-1.18	0.11	
3,894.0	24.00	79.30	3,619.1	361.5	1,210.1	1,261.7	1.57	-0.85	3.19	
3,987.0	25.70	82.20	3,703.5	367.7	1,248.7	1,300.6	2.25	1.83	3.12	
4,081.0	28.80	80.50	3,787.1	374.2	1,291.2	1,343.4	3.40	3.30	-1.81	
4,175.0	29.20	80.40	3,869.3	381.8	1,336.2	1,388.9	0.43	0.43	-0.11	
4,268.0	30.00	79.20	3,950.1	389.9	1,381.4	1,434.7	1.07	0.86	-1.29	
4,362.0	30.10	79.10	4,031.5	398.8	1,427.6	1,481.7	0.12	0.11	-0.11	
4,456.0	29.50	79.10	4,113.1	407.6	1,473.5	1,528.3	0.64	-0.64	0.00	
4,549.0	26.80	77.70	4,195.1	416.4	1,516.5	1,572.2	2.99	-2.90	-1.51	
4,643.0	25.00	76.20	4,279.6	425.7	1,556.5	1,613.2	2.04	-1.91	-1.60	
4,738.0	22.20	77.80	4,366.7	434.2	1,593.5	1,651.2	3.02	-2.95	1.68	
4,831.0	19.70	78.40	4,453.5	441.1	1,626.0	1,684.5	2.70	-2.69	0.65	
4,925.0	19.30	79.00	4,542.1	447.3	1,656.8	1,715.8	0.48	-0.43	0.64	
5,019.0	18.50	78.30	4,631.0	453.2	1,686.7	1,746.2	0.88	-0.85	-0.74	
5,113.0	16.30	78.20	4,720.7	459.0	1,714.2	1,774.3	2.34	-2.34	-0.11	
5,207.0	13.70	81.20	4,811.5	463.4	1,738.1	1,798.6	2.89	-2.77	3.19	
5,300.0	12.40	76.80	4,902.1	467.3	1,758.7	1,819.5	1.76	-1.40	-4.73	
5,394.0	10.30	73.90	4,994.3	472.0	1,776.6	1,838.0	2.31	-2.23	-3.09	
5,488.0	9.80	72.30	5,086.8	476.7	1,792.3	1,854.4	0.61	-0.53	-1.70	
5,592.0	8.70	71.90	5,189.5	481.9	1,808.2	1,871.1	1.06	-1.06	-0.38	
5,676.0	6.80	74.80	5,272.7	485.1	1,819.0	1,882.4	2.31	-2.26	3.45	
5,770.0	5.30	77.40	5,366.2	487.5	1,828.6	1,892.3	1.62	-1.60	2.77	
5,863.0	3.90	79.40	5,458.9	489.1	1,836.0	1,899.7	1.51	-1.51	2.15	
5,957.0	2.60	80.80	5,552.7	490.0	1,841.2	1,905.1	1.39	-1.38	1.49	
6,051.0	2.30	98.60	5,646.7	490.1	1,845.2	1,908.9	0.87	-0.32	18.94	
6,145.0	1.80	114.80	5,740.6	489.2	1,848.4	1,911.8	0.81	-0.53	17.23	
6,239.0	1.80	129.80	5,834.5	487.6	1,850.8	1,913.8	0.50	0.00	15.96	

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<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Survey										
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6,333.0	1.60	140.90	5,928.5	485.6	1,852.8	1,915.3	0.41	-0.21	11.81	
6,403.5	1.49	150.06	5,999.0	484.1	1,853.9	1,915.9	0.38	-0.16	12.99	
DRILL TARGET 1153'FSL, 75'FEL										
6,519.0	1.40	167.40	6,114.4	481.4	1,854.9	1,916.3	0.38	-0.08	15.01	
6,707.0	1.20	173.70	6,302.4	477.2	1,855.7	1,916.0	0.13	-0.11	3.35	
6,895.0	1.00	182.00	6,490.4	473.6	1,855.8	1,915.3	0.14	-0.11	4.41	
7,082.0	0.70	179.10	6,677.3	470.8	1,855.8	1,914.6	0.16	-0.16	-1.55	
7,270.0	0.90	196.00	6,865.3	468.3	1,855.4	1,913.6	0.16	0.11	8.99	
7,457.0	0.80	201.10	7,052.3	465.6	1,854.5	1,912.1	0.07	-0.05	2.73	
7,704.0	0.40	219.30	7,299.3	463.4	1,853.3	1,910.4	0.18	-0.16	7.37	
HARD LINE 75'E OF BHL										
7,748.0	0.40	219.30	7,343.3	463.1	1,853.2	1,910.1	0.00	0.00	0.00	

Checked By: _____	Approved By: _____	Date: _____
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