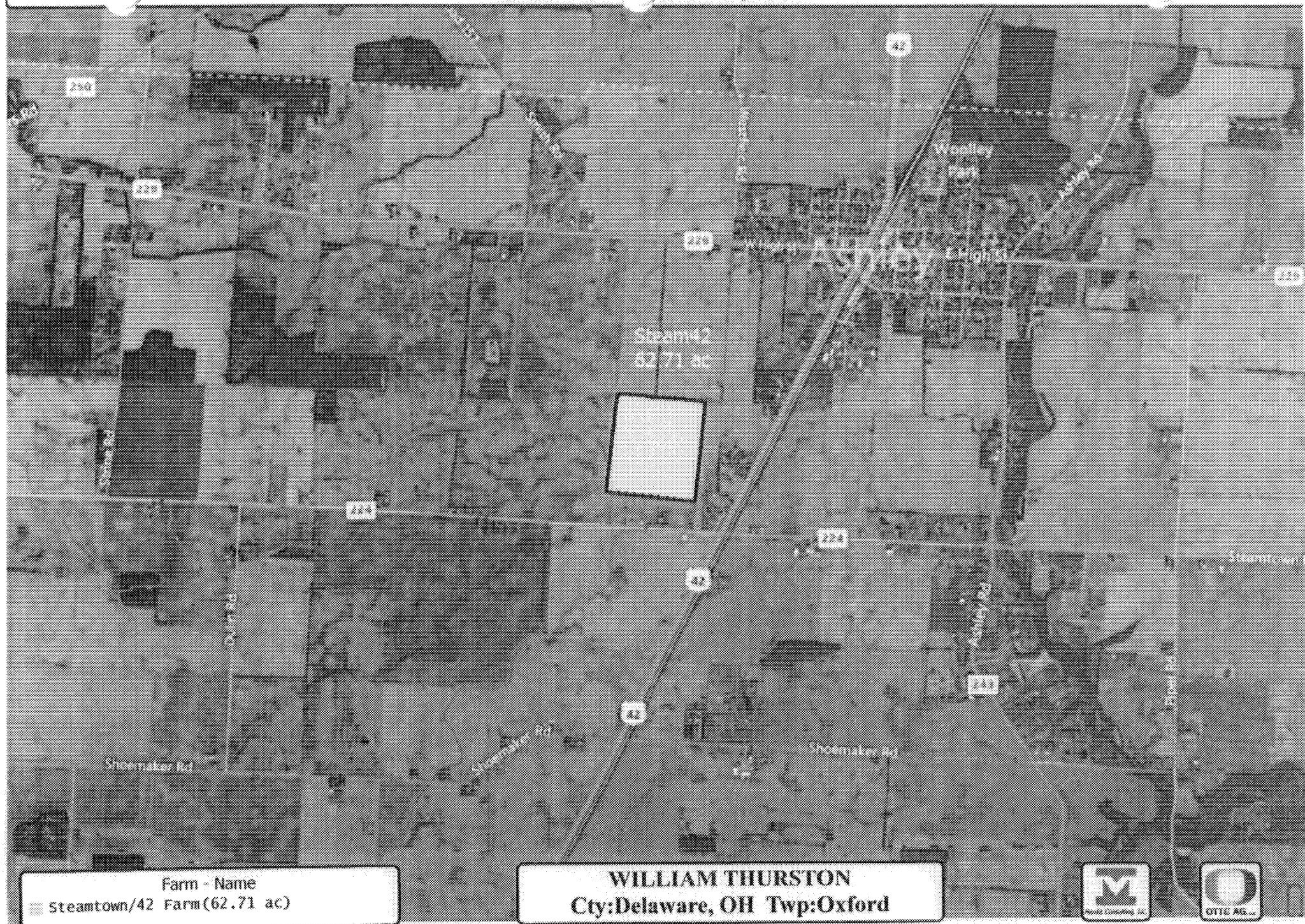
RINGLER ENERGY, LLC



WILLIAM THURSTON
Cty:Delaware, OH Twp:Oxford

2/16/2016 9:53:50 AM

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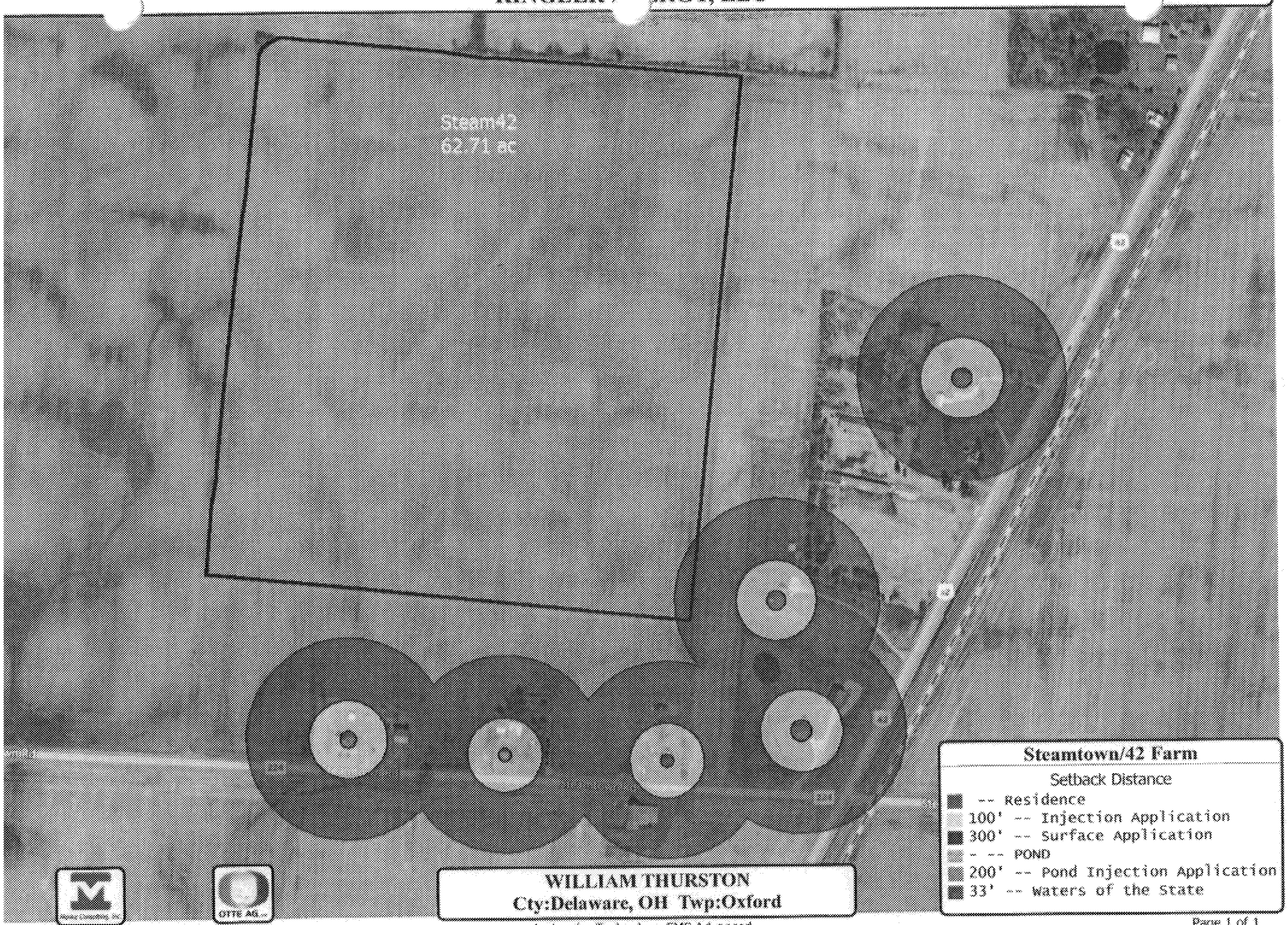

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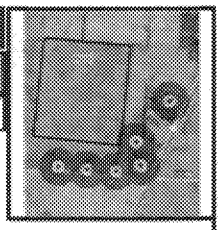


Layer 1 - Steamtown/42 Farm | William Thursto

Main Layer

Total area	62.71 ac
Length	6,598.8 ft
Count	1

Description	Value	Area	Length	Count
Farm - Name				
	Steamtown/42 Farm	62.71 ac	6,598.8 ft	1
Field - Name				
	Steam42	62.71 ac	6,598.8 ft	1

Layer 2 - Setbacks | 2016 | Steam42

Main Layer

Total area	0.266 ac
Length	605.75 ft
Count	1

Description	Value	Area	Length	Count
Setback Names				
	Surface	0.266 ac	605.75 ft	1
Setback Distance				
	300'	0.266 ac	605.75 ft	1

Soil Analysis Report

BILL THURSTON

CENTRAL OHIO FARMERS COOP WALDO B
420 W MAIN ST
00111498 TOM CRAWFORD

Farm

Received: 07-May-15
Reported: 27-May-15

	3	2	1
Lab Number	867585	867586	867587
Field	TEAMTWN NO	TEAMTWN SE	TEAMTWN SW
Sample No.			
C.E.C.	19.5	22.4	22.7
Org Matter	3.7	4.5	4.4
Soil pH	5.8	6.0	7.0
Lime Index	65	65	70
P lbs/ac	43	78	25
K lbs/ac	235	247	333
Ca lbs/ac	4286	5290	7409
Mg lbs/ac	686	686	935
SO4S lbs/ac			
B lbs/ac			
Cu lbs/ac			
Mn lbs/ac			
Zn lbs/ac			
Ca Sat'n.	55 %	59 %	82 %
Mg Sat'n.	13 %	13 %	17 %
K Sat'n.	3 %	1 %	1 %
Base Sat'n.	69 %	73 %	100 %
Ca/Mg	4.2	4.6	4.8
Mg/K	8.4	9.1	13.7
Na lbs/ac			
Fe			
SS mS/cm			
lbs/ac			
NO3N ppm			
NH4-N ppm			
Pct. Sand			
Pct. Silt			
Pct. Clay			
Texture			

THURSTON
STEAMBOAT/SR 42

THURSTON
STEAMBOAT/SR 42

RINGLER ENERGY, LLC

Farm - Name
Steamtown/42 Farm (62.71 ac)

WILLIAM THURSTON
Cty:Delaware, OH Twp:Oxford

2/16/2016 9:53:50 AM

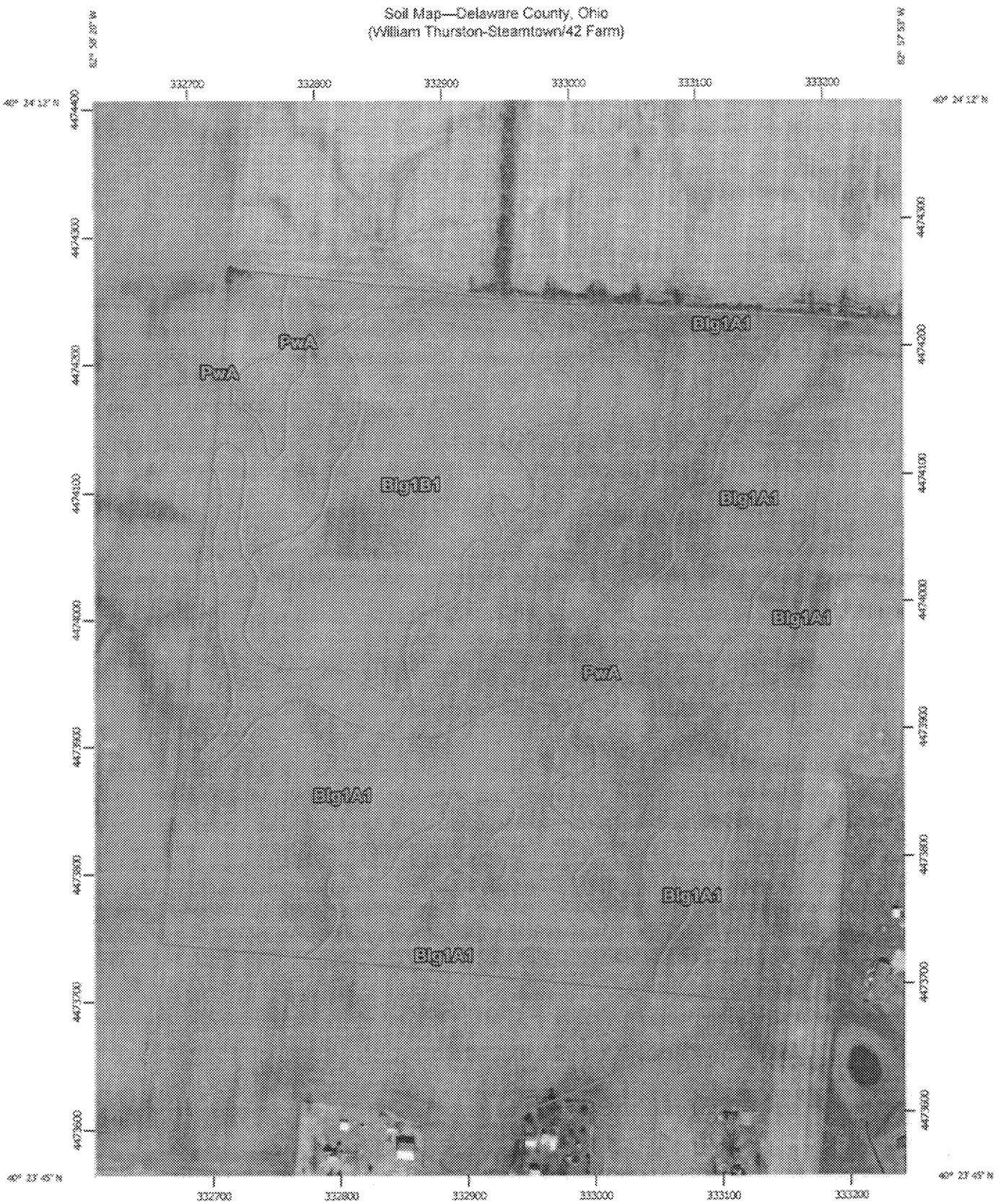
Ag Leader Technology SMS Advanced

RINGLER ENERGY, LLC

WILLIAM THURSTON
Cty:Delaware, OH Twp:Oxford

ED_014244_00000159-00007

Soil Map—Delaware County, Ohio
(William Thurston-Steamtown/42 Farm)



Map Scale: 1:4,110 if printed on A portrait (8.5" x 11") sheet.

Meters: 0 50 100 200 300

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Delaware County, Ohio
Survey Area Data: Version 14, Sep 26, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 27, 2012—Mar 10, 2012

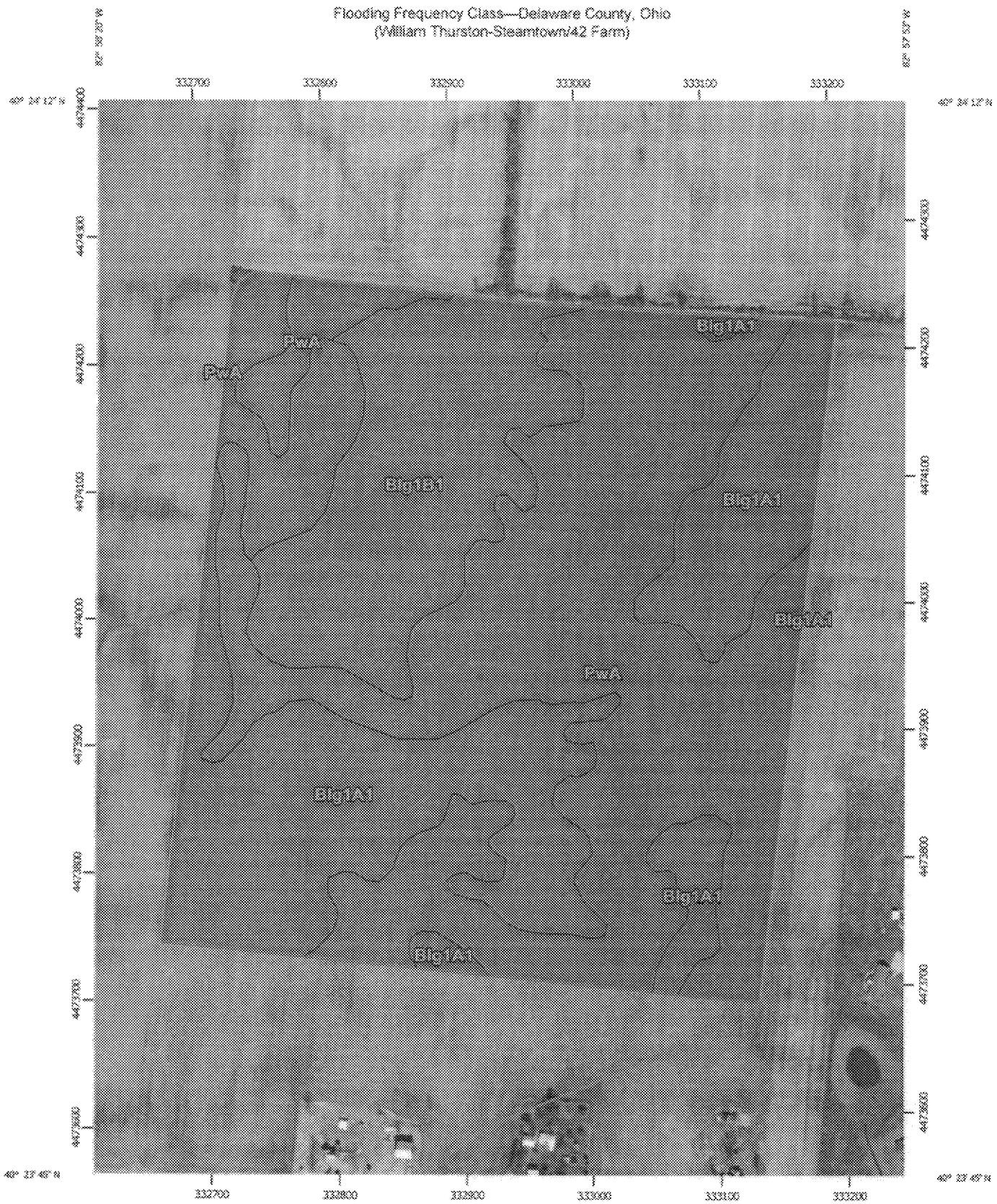
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

ED_014244_00000159-00009

Map Unit Legend

Delaware County, Ohio (OH041)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Blg1A1	Blount silt loam, ground moraine, 0 to 2 percent slopes	22.4	35.7%
Blg1B1	Blount silt loam, ground moraine, 2 to 4 percent slopes	10.9	17.4%
PwA	Pewamo silty clay loam, 0 to 1 percent slopes	29.4	46.9%
Totals for Area of Interest		**62.7**	**100.0%**

Flooding Frequency Class—Delaware County, Ohio
(William Thurston-Steamtown/42 Farm)



Map Scale: 1:4,110 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

None

Very Rare

Rare

Occasional

Frequent

Very Frequent

Not rated or not available

Soil Rating Lines

None

Very Rare

Rare

Occasional

Frequent

Very Frequent

Not rated or not available

Soil Rating Points

None

Very Rare

Rare

Occasional

Frequent

Very Frequent

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Delaware County, Ohio
Survey Area Data: Version 14, Sep 28, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 27, 2012—Mar 10, 2012

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

ED_014244_00000159-00012

Flooding Frequency Class

Flooding Frequency Class— Summary by Map Unit — Delaware County, Ohio (OH041)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Blg1A1	Blount silt loam, ground moraine, 0 to 2 percent slopes	None	22.4	35.7%
Blg1B1	Blount silt loam, ground moraine, 2 to 4 percent slopes	None	10.9	17.4%
PwA	Pewamo silty clay loam, 0 to 1 percent slopes	None	29.4	46.9%
Totals for Area of Interest			**62.7**	**100.0%**

Description

Flooding is the temporary inundation of an area caused by overflowing streams, by runoff from adjacent slopes, or by tides. Water standing for short periods after rainfall or snowmelt is not considered flooding, and water standing in swamps and marshes is considered ponding rather than flooding.

Frequency is expressed as none, very rare, rare, occasional, frequent, and very frequent.

"None" means that flooding is not probable. The chance of flooding is nearly 0 percent in any year. Flooding occurs less than once in 500 years.

"Very rare" means that flooding is very unlikely but possible under extremely unusual weather conditions. The chance of flooding is less than 1 percent in any year.

"Rare" means that flooding is unlikely but possible under unusual weather conditions. The chance of flooding is 1 to 5 percent in any year.

"Occasional" means that flooding occurs infrequently under normal weather conditions. The chance of flooding is 5 to 50 percent in any year.

"Frequent" means that flooding is likely to occur often under normal weather conditions. The chance of flooding is more than 50 percent in any year but is less than 50 percent in all months in any year.

"Very frequent" means that flooding is likely to occur very often under normal weather conditions. The chance of flooding is more than 50 percent in all months of any year.

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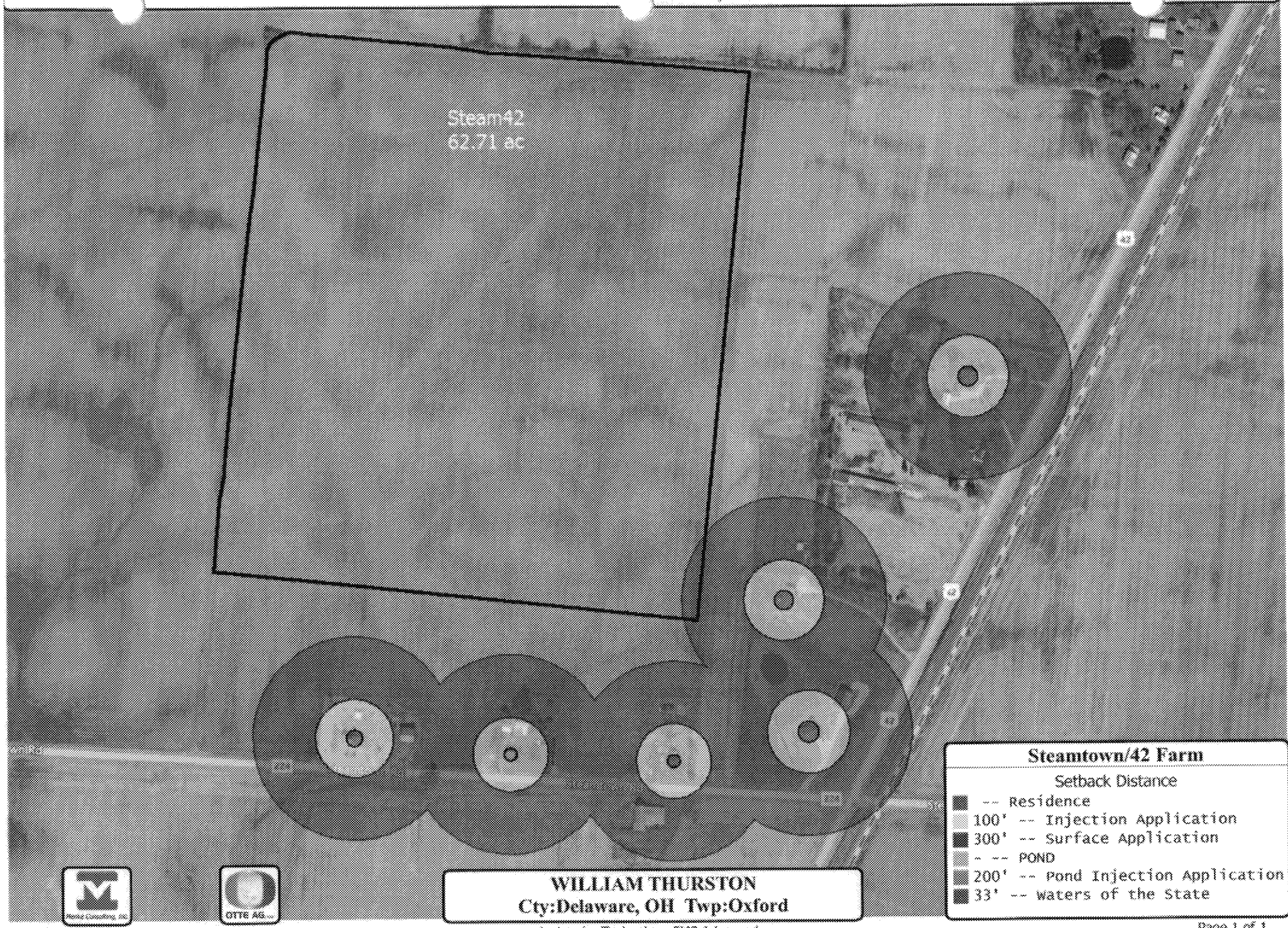
RINGLER ENERGY, LLC



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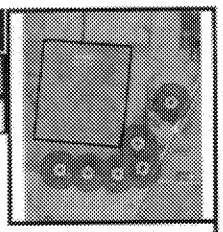
Query 1



Layer 1 - Steamtown/42 Farm | William Thursto

Main Layer

Total area	62.71 ac
Length	6,598.8 ft
Count	1

Description	Value	Area	Length	Count
Farm - Name	Steamtown/42 Farm	62.71 ac	6,598.8 ft	1
Field - Name	Steam42	62.71 ac	6,598.8 ft	1

Layer 2 - Setbacks | 2016 | Steam42

Main Layer

Total area	0.266 ac
Length	605.75 ft
Count	1

Description	Value	Area	Length	Count
Setback Names	Surface	0.266 ac	605.75 ft	1
Setback Distance	300'	0.266 ac	605.75 ft	1

Soil Analysis Report

BILL THURSTON

CENTRAL OHIO FARMERS COOP WALDO B
420 W MAIN ST
00111498 TOM CRAWFORD

Farm

Received: 07-May-15
Reported: 27-May-15

	3	2	1
Lab Number	867685	867686	867687
Field	TEAM TWN NO	TEAM TWN SE	TEAM TWN SW
Sample No.			
C.E.C.	19.5	32.4	32.7
Org Matter	3.7	4.5	4.4
Soil pH	5.8	6.0	7.0
Lime Index	65	65	70
P lbs/ac	43	78	35
K lbs/ac	335	347	322
Ca lbs/ac	4288	5290	7609
Mg lbs/ac	606	686	935
SO4S lbs/ac			
B lbs/ac			
Cu lbs/ac			
Mn lbs/ac			
Zn lbs/ac			
Ca Sat'n.	55 %	59 %	62 %
Mg Sat'n.	13 %	13 %	17 %
K Sat'n.	2 %	1 %	1 %
Base Sat'n.	69 %	73 %	100 %
Ca/Mg	4.2	4.6	4.6
Mg/K	8.4	9.1	13.7
Na lbs/ac			
Fe			
SS mS/cm			
lbs/ac			
NO3N ppm			
NH4-N ppm			
Pct. Sand			
Pct. Silt			
Pct. Clay			
Texture			

ED_014244_00000159-00016