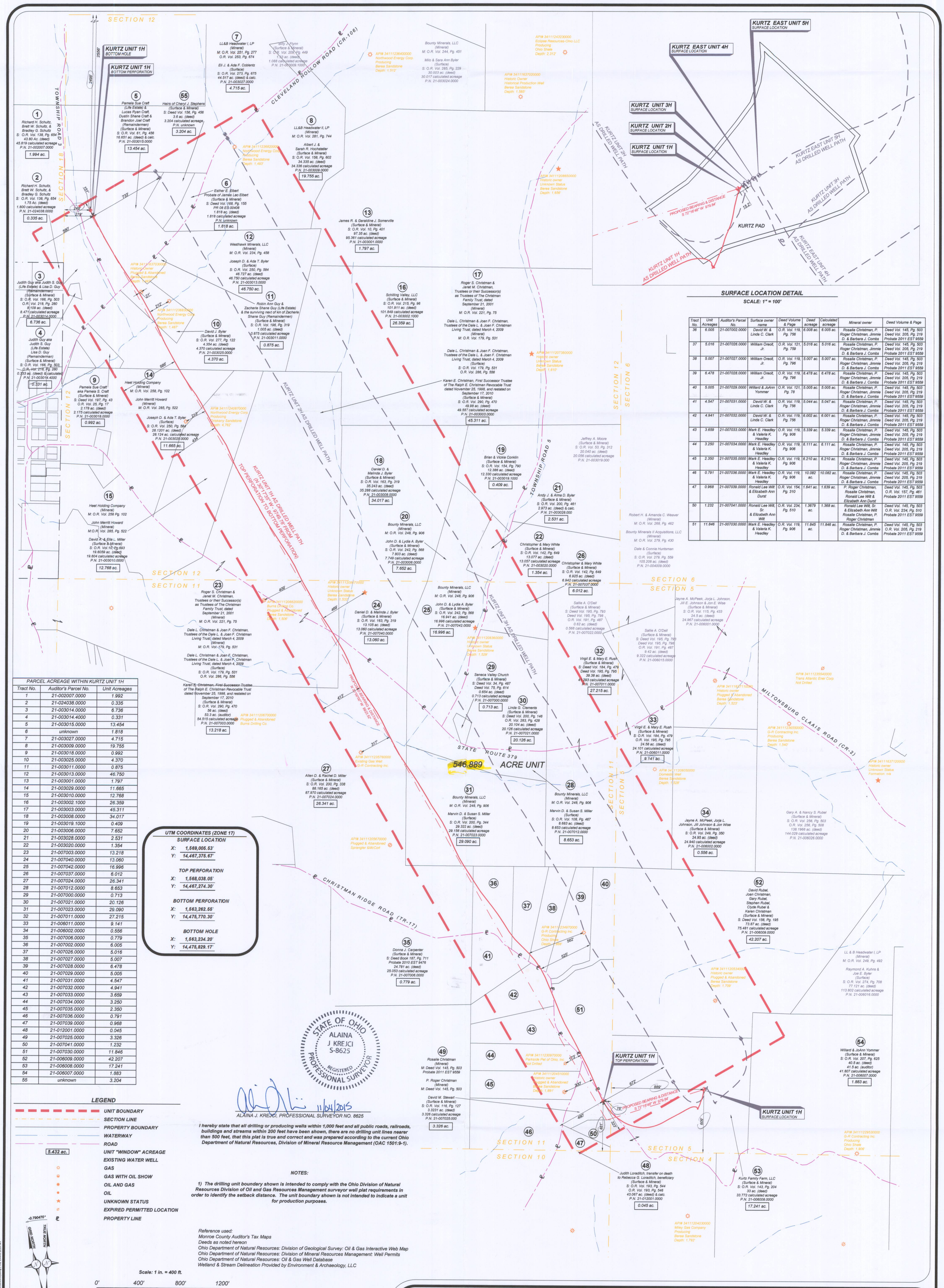

SURFACE LOCATION DETAIL

SCALE: 1" = 100'

Tract No.	Unit Acreages	Auditor's Parcel No.	Surface owner name	Deed Volume & Page	Deed acreage	Calculated acreage	Mineral owner	Deed Volume & Page
36	6.005	21-007002.0000	David W. & Linda C. Clark	O.R. Vol. 119, Pg. 756	6.008 ac.	6.005 ac.	Rosalie Christman, P. Roger Christman, Jimmie D. & Barbara J. Combs	Deed Vol. 145, Pg. 503 Deed Vol. 205, Pg. 219 Probate 2011 EST 9559
37	5.016	21-007026.0000	William Oreolt, Jr.	O.R. Vol. 121, Pg. 759	5.016 ac.	5.016 ac.	Rosalie Christman, P. Roger Christman, Jimmie D. & Barbara J. Combs	Deed Vol. 145, Pg. 503 Deed Vol. 205, Pg. 219 Probate 2011 EST 9559
38	5.007	21-007027.0000	William Oreolt, Jr.	O.R. Vol. 119, Pg. 796	5.007 ac.	5.007 ac.	Rosalie Christman, P. Roger Christman, Jimmie D. & Barbara J. Combs	Deed Vol. 145, Pg. 503 Deed Vol. 205, Pg. 219 Probate 2011 EST 9559
39	6.478	21-007028.0000	William Oreolt, Jr.	O.R. Vol. 119, Pg. 796	6.478 ac.	6.478 ac.	Rosalie Christman, P. Roger Christman, Jimmie D. & Barbara J. Combs	Deed Vol. 145, Pg. 503 Deed Vol. 205, Pg. 219 Probate 2011 EST 9559
40	5.005	21-007029.0000	Willard & JoAnn Yommer	O.R. Vol. 121, Pg. 78	5.005 ac.	5.005 ac.	Rosalie Christman, P. Roger Christman, Jimmie D. & Barbara J. Combs	Deed Vol. 145, Pg. 503 Deed Vol. 205, Pg. 219 Probate 2011 EST 9559
41	4.547	21-007031.0000	David W. & Linda C. Clark	O.R. Vol. 119, Pg. 756	5.044 ac.	5.047 ac.	Rosalie Christman, P. Roger Christman, Jimmie D. & Barbara J. Combs	Deed Vol. 145, Pg. 503 Deed Vol. 205, Pg. 219 Probate 2011 EST 9559
42	4.941	21-007032.0000	David W. & Linda C. Clark	O.R. Vol. 119, Pg. 756	6.002 ac.	6.001 ac.	Rosalie Christman, P. Roger Christman, Jimmie D. & Barbara J. Combs	Deed Vol. 145, Pg. 503 Deed Vol. 205, Pg. 219 Probate 2011 EST 9559
43	3.659	21-007033.0000	Mark E. Headley & Valeria K. Headley	O.R. Vol. 119, Pg. 906	5.339 ac.	5.339 ac.	Rosalie Christman, P. Roger Christman, Jimmie D. & Barbara J. Combs	Deed Vol. 145, Pg. 503 Deed Vol. 205, Pg. 219 Probate 2011 EST 9559
44	3.250	21-007034.0000	Mark E. Headley & Valeria K. Headley	O.R. Vol. 119, Pg. 906	6.111 ac.	6.111 ac.	Rosalie Christman, P. Roger Christman, Jimmie D. & Barbara J. Combs	Deed Vol. 145, Pg. 503 Deed Vol. 205, Pg. 219 Probate 2011 EST 9559
45	2.350	21-007035.0000	Mark E. Headley & Valeria K. Headley	O.R. Vol. 119, Pg. 906	6.210 ac.	6.210 ac.	Rosalie Christman, P. Roger Christman, Jimmie D. & Barbara J. Combs	Deed Vol. 145, Pg. 503 Deed Vol. 205, Pg. 219 Probate 2011 EST 9559
46	0.791	21-007036.0000	Mark E. Headley & Valeria K. Headley	O.R. Vol. 119, Pg. 906	10.082 ac.	10.082 ac.	Rosalie Christman, P. Roger Christman, Jimmie D. & Barbara J. Combs	Deed Vol. 145, Pg. 503 Deed Vol. 205, Pg. 219 Probate 2011 EST 9559
47	0.968	21-007039.0000	Ronald Lee Wilt & Elizabeth Ann Durst	O.R. Vol. 154, Pg. 310	1.641 ac.	1.639 ac.	P. Roger Christman, Rosalie Christman, Ronald Lee Wilt & Elizabeth Ann Durst	Deed Vol. 145, Pg. 503 O.R. Vol. 157, Pg. 461 Probate 2011 EST 9559
50	1.232	21-007041.0000	Ronald Lee Wilt, Sr. & Elizabeth Ann Wilt	O.R. Vol. 234, Pg. 510	1.3679 ac.	1.368 ac.	Ronald Lee Wilt, Sr. & Elizabeth Ann Wilt Rosalie Christman, P. Roger Christman	Deed Vol. 145, Pg. 503 O.R. Vol. 234, Pg. 510 Probate 2011 EST 9559
51	11.846	21-007030.0000	Mark E. Headley & Valeria K. Headley	O.R. Vol. 119, Pg. 906	11.845 ac.	11.846 ac.	Rosalie Christman, P. Roger Christman, Jimmie D. & Barbara J. Combs	Deed Vol. 145, Pg. 503 O.R. Vol. 205, Pg. 219 Probate 2011 EST 9559

PARCEL ACREAGE WITHIN KURTZ UNIT 1H

Tract No.	Auditor's Parcel No.	Unit Acreages
1	21-002007.0000	1.992
2	21-024038.0000	0.335
3	21-003014.0000	6.736
4	21-003014.4000	0.331
5	21-003015.0000	13.454
6	unknown	1.818
7	21-003027.0000	4.715
8	21-003009.0000	19.755
9	21-003018.0000	0.992
10	21-003025.0000	4.370
11	21-003011.0000	0.875
12	21-003013.0000	46.750
13	21-003001.0000	1.797
14	21-003029.0000	11.665
15	21-003010.0000	12.768
16	21-003002.1000	26.359
17	21-003003.0000	45.311
18	21-003008.0000	34.017
19	21-003019.1000	0.409
20	21-003006.0000	7.652
21	21-003028.0000	2.531
22	21-003020.0000	1.354
23	21-007003.0000	13.218
24	21-007040.0000	13.060
25	21-007042.0000	16.996
26	21-007037.0000	6.012
27	21-007024.0000	26.341
28	21-007012.0000	8.653
29	21-007000.0000	0.713
30	21-007021.0000	20.126
31	21-007023.0000	29.090
32	21-007011.0000	27.215
33	21-006011.0000	9.141
34	21-006002.0000	0.556
35	21-007006.0000	0.779
36	21-007002.0000	6.005
37	21-007026.0000	5.016
38	21-007027.0000	5.007
39	21-007028.0000	6.478
40	21-007029.0000	5.005
41	21-007031.0000	4.547
42	21-007032.0000	4.941
43	21-007033.0000	3.659
44	21-007034.0000	3.250
45	21-007035.0000	2.350
46	21-007036.0000	0.791
47	21-007039.0000	0.968
48	21-012001.0000	0.045
49	21-007025.0000	3.326
50	21-007041.0000	1.232
51	21-007030.0000	11.846
52	21-006009.0000	42.207
53	21-006008.0000	17.241
54	21-006007.0000	1.883
55	unknown	3.204

UTM COORDINATES (ZONE 17)

SURFACE LOCATION
X: 1,569,005.53'
Y: 14,467,375.67'

TOP PERFORATION
X: 1,568,038.05'
Y: 14,467,274.30'

BOTTOM PERFORATION
X: 1,563,262.55'
Y: 14,475,770.30'

BOTTOM HOLE
X: 1,563,234.20'
Y: 14,475,829.17'

LEGEND

- UNIT BOUNDARY
- SECTION LINE
- PROPERTY BOUNDARY
- WATERWAY
- ROAD
- 5.432 ac. — UNIT "WINDOW" ACREAGE
- EXISTING WATER WELL
- GAS
- GAS WITH OIL SHOW
- OIL AND GAS
- OIL
- UNKNOWN STATUS
- EXPIRED PERMITTED LOCATION
- PROPERTY LINE

STATE OF OHIO — ALAINA J KREJCI S-8625 — REGISTERED PROFESSIONAL SURVEYOR

11/04/2015
ALAINA J. KREJCI, PROFESSIONAL SURVEYOR NO. 8625

I hereby state that all drilling or producing wells within 1,000 feet and all public roads, railroads, buildings and streams within 200 feet have been shown, there are no drilling unit lines nearer than 500 feet, that this plat is true and correct and was prepared according to the current Ohio Department of Natural Resources, Division of Mineral Resource Management (OAC 1501:9-1).

NOTES:

1) The drilling unit boundary shown is intended to comply with the Ohio Division of Natural Resources Division of Oil and Gas Resources Management surveyor well plat requirements in order to identify the setback distance. The unit boundary shown is not intended to indicate a unit for production purposes.

Reference used:
Monroe County Auditor's Tax Maps
Deeds as noted hereon
Ohio Department of Natural Resources: Division of Geological Survey: Oil & Gas Interactive Web Map
Ohio Department of Natural Resources: Division of Mineral Resources Management: Well Permits
Ohio Department of Natural Resources: Oil & Gas Well Database
Wetland & Stream Delineation Provided by Environment & Archaeology, LLC

Scale: 1 in. = 400 ft.
0' 400' 800' 1200'
Graphical Scale

NOTE: Horizontal drilling location was provided by others.

SURFACE LOCATION	TOP PERFORATION	BOTTOM PERFORATION	BOTTOM HOLE
OHIO STATE PLANE COORDINATES (SOUTH ZONE)	- POINT PLEASANT FORMATION - OHIO STATE PLANE COORDINATES (SOUTH ZONE)	- POINT PLEASANT FORMATION - OHIO STATE PLANE COORDINATES (SOUTH ZONE)	OHIO STATE PLANE COORDINATES (SOUTH ZONE)
(NAD 83) X: 2,318,317.99' Y: 672,098.52'	(NAD 83) X: 2,317,351.97' Y: 671,981.03'	(NAD 83) X: 2,312,433.94' Y: 680,399.54'	(NAD 83) X: 2,312,404.61' Y: 680,457.95'
(NAD 27) X: 2,349,781.08' Y: 672,058.63'	(NAD 27) X: 2,348,815.07' Y: 671,941.13'	(NAD 27) X: 2,343,897.07' Y: 680,359.54'	(NAD 27) X: 2,343,867.74' Y: 680,417.96'
ELEV: 1227.38' (NAVD 88)	TOTAL VERTICAL DEPTH: 8,469' MEASURED DEPTH: 9,034'	TOTAL VERTICAL DEPTH: 8,378' MEASURED DEPTH: 18,825'	TOTAL VERTICAL DEPTH: 8,377' MEASURED DEPTH: 18,890'
SURFACE LOCATION DISTANCES TO ORIGINAL P.L.S.S. LINES	ENTRY POINT DISTANCES TO ORIGINAL P.L.S.S. LINES	BOTTOM PERFORATION DISTANCES TO ORIGINAL P.L.S.S. LINES	BOTTOM HOLE DISTANCES TO ORIGINAL P.L.S.S. LINES
SENECA TWP. - SEC. 5	SENECA TWP. - SEC. 11	SENECA TWP. - SEC. 12	SENECA TWP. - SEC. 12
609' TO S.L.	481' TO S.L.	2,556' TO N.L.	2,498' TO N.L.
889' TO W.L.	76' TO E.L.	278' TO W.L.	248' TO W.L.

PLAT SHOWING LOCATION OF WELL

STATE OF OHIO, DEPARTMENT OF NATURAL RESOURCES - DIVISION OF MINERAL RESOURCE MANAGEMENT, COLUMBUS, OHIO

OPERATOR: ANTERO RESOURCES CORPORATION
ADDRESS: 1615 WYNKOOP STREET, DENVER, CO 80202
LANDOWNER: SURFACE: KURTZ FAMILY FARM, LLC
MINERALS: AS NOTED ON MAP
COUNTY: MONROE
TOWNSHIP: SENECA
QUAD MAP: SUMMERFIELD
URBANIZED AREA: NON-URBANIZED
DRILLING UNIT ACREAGE: 546.889 ac.

SUBDIVISION CIVIL TOWNSHIP:
TOWNSHIP: 7N
RANGE: 7W
SECTION: 5, 10, 11, 12 & 18
SUBDIVISION: THE OLD SEVEN RANGES

PROJECT INFORMATION
ISSUE DATE: 11/04/2015
SURVEYED BY: DEI
DRAWN BY: LDB
SCALE: 1" = 400'
CALC. BY: LDB
CHECKED BY: AJK

Diversified Engineering Inc.
CONSULTING ENGINEERS & SURVEYORS
225 FAIR AVENUE, N.E
NEW PHILADELPHIA, OH 44663
Phone: (330) 364-1631
Fax: (330) 364-4031
e-mail: dei@div-eng.com
Web: www.div-eng.com

AS DRILLED WELL PLAT

KURTZ UNIT 1H

TARGET FORMATION: POINT PLEASANT

Antero Resources

LATITUDE / LONGITUDE COORDINATES

SURFACE LOCATION	TOP PERFORATION	BOTTOM PERFORATION	BOTTOM HOLE
LATITUDE: 39.838672 (NAD 83)	LATITUDE: 39.838386 (NAD 83)	LATITUDE: 39.861679 (NAD 83)	LATITUDE: 39.861841 (NAD 83)
LONGITUDE: -81.254223 (NAD 83)	LONGITUDE: -81.257669 (NAD 83)	LONGITUDE: -81.274774 (NAD 83)	LONGITUDE: -81.274876 (NAD 83)
LATITUDE: 39.838600 (NAD 27)	LATITUDE: 39.838314 (NAD 27)	LATITUDE: 39.861608 (NAD 27)	LATITUDE: 39.861769 (NAD 27)
LONGITUDE: -81.254389 (NAD 27)	LONGITUDE: -81.257834 (NAD 27)	LONGITUDE: -81.274939 (NAD 27)	LONGITUDE: -81.275040 (NAD 27)

34111245340000