

Latitude to 10 00 SURFACE HOLE (2000' SCALE)

9744'

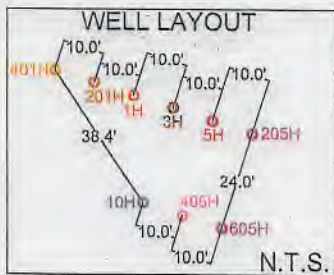
LATITUDE: 40°12'30" BOTTOM HOLE (2000' SCALE)

2944'

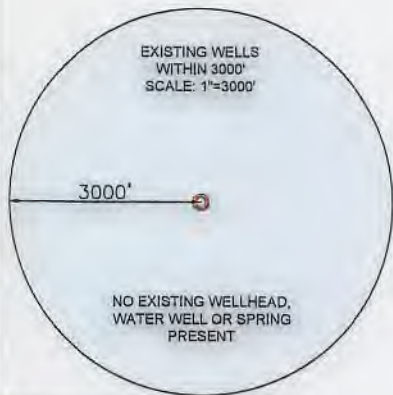


www.jhacompanies.com

68011 Vineyard Road  
St. Clairsville, Ohio 43950  
740-695-6100



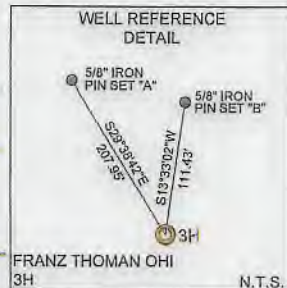
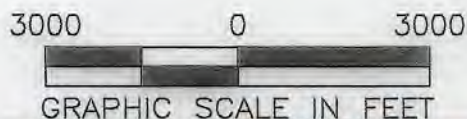
LINE	BEARING	DISTANCE
L1	S57°37'30"E	1119.40'
L2	S81°05'18"E	1386.82'



<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4442987.61 EASTING: 528975.66
<b>LANDING POINT LOCATION (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4443075.34 EASTING: 528887.72
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4447778.12 EASTING: 527496.01

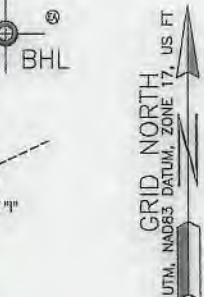
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2041



**NOTES ON SURVEY**

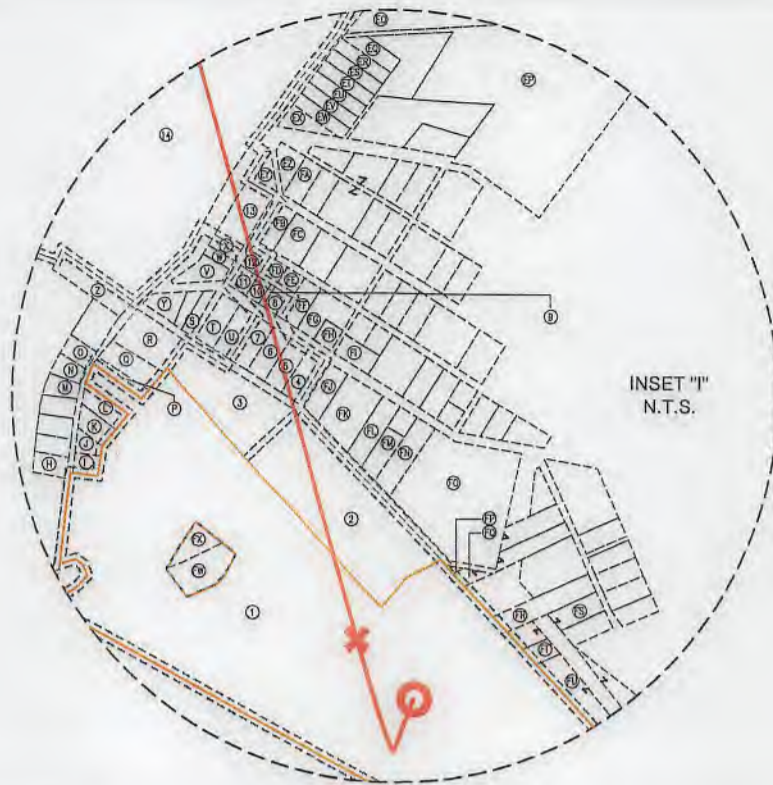
1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
5. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.



10366'  
10935'  
LONGITUDE: 80°40'00" BOTTOM HOLE (2000' SCALE)  
LONGITUDE: 80°37'30" SURFACE HOLE (2000' SCALE)

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL &amp; GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>COMPANY: <b>SWN</b> Production Company, LLC</p> <p>FRANZ THOMAN OHI</p> <p>OPERATOR'S WELL #: 3H</p> <p>API WELL #: <b>47</b> STATE <b>069</b> COUNTY <b>00310</b> PERMIT <b>464</b></p>												
	<p>WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,137.5'</p> <p>DISTRICT: RICHLAND COUNTY: OHIO QUADRANGLE: TILTONSVILLE, OH-WV</p> <p>SURFACE OWNER: FRANZ THOMAN ACREAGE: ±69.418</p> <p>OIL &amp; GAS ROYALTY OWNER: FRANZ THOMAN ACREAGE: ±69.418</p> <p>DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/></p> <p>CONVERT <input type="checkbox"/> PLUG &amp; ABANDON <input type="checkbox"/> CLEAN OUT &amp; REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,885' TVD 22,326' TMD</p>	<p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY</p> <p>ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201</p> <p>CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508</p>												
<p><b>LEGEND:</b></p> <ul style="list-style-type: none"> <li>○ PROPOSED SURFACE HOLE / BOTTOM HOLE</li> <li>⊙ EXISTING / PRODUCING WELLHEAD</li> <li>LPL: LANDING POINT LOCATION</li> <li>⊙ EXISTING WATER WELL</li> <li>⊙ EXISTING SPRING</li> <li>— NATURAL WATERWAY</li> <li>— SURVEYED BOUNDARY</li> <li>== LEASE BOUNDARY</li> <li>— PROPOSED PATH</li> <li>— PUBLIC ROAD</li> </ul>	<p><b>REVISIONS:</b></p> <table border="1"> <tr> <td> </td> <td>DATE: 08-01-2019</td> </tr> <tr> <td> </td> <td>API NO: 47-069-XXXX</td> </tr> <tr> <td> </td> <td>DRAWN BY: D. REED</td> </tr> <tr> <td> </td> <td>SCALE: 1" = 3000'</td> </tr> <tr> <td> </td> <td>DRAWING NO: 2018-781</td> </tr> <tr> <td> </td> <td>WELL LOCATION PLAT</td> </tr> </table>		DATE: 08-01-2019		API NO: 47-069-XXXX		DRAWN BY: D. REED		SCALE: 1" = 3000'		DRAWING NO: 2018-781		WELL LOCATION PLAT	
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WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	FRANZ THOMAN (S)/(R)	04-R8-62.0
TRACT	SURFACE OWNER	TAX PARCEL
2	SUSAN J. SOBOTA	04-R8-62.3
3	DELORA L. TAYLOR	04-RBK-100.0
4	JOHN M. JR. & P.R. BORING	04-RBK-94.0
5	CHRIS P. WINESDOERFFER	04-RBK-93.0
6	CHRIS P. WINESDOERFFER	04-RBK-92.0
7	JAY E. & R.P. CLEGG	04-RBK-91.0
8	MARK D. & MINDY D. PANEPINTO	04-RBK-67.2
9	MARK D. & MINDY D. PANEPINTO	04-RBK-67.0
10	CAROL ANN EDDY	04-RBK-67.3
11	ALBERT L. & M.J. CAGE	04-RBK-64.0
12	ALBERT L. & M.J. CAGE	04-RBK-63.0
13	RICHARD J. WEILER	04-RBK-55.0
14	THE JOSEPH W. CRAFT, III FOUNDATION & THE KATHLEEN S. CRAFT FOUNDATION	04-R8-05.0
15	THE JOSEPH W. CRAFT, III FOUNDATION & THE KATHLEEN S. CRAFT FOUNDATION	04-R8-06.0
16	THE JOSEPH W. CRAFT, III FOUNDATION & THE KATHLEEN S. CRAFT FOUNDATION	04-R8-03.1
17	THE JOSEPH W. CRAFT, III FOUNDATION & THE KATHLEEN S. CRAFT FOUNDATION	04-R5-43.0
18	TUNNEL RIDGE, LLC	04-R5-40.7
19	THE JOSEPH W. CRAFT, III FOUNDATION & THE KATHLEEN S. CRAFT FOUNDATION	04-R5-42.1
20	WV DOT, DIVISION OF HIGHWAYS	CLEARVIEW AVE
21	RALPH J & BEVERLY KRASEVEC	04-R5-21.10
22	RALPH J & BEVERLY KRASEVEC	04-R5-21.1
23	RALPH JAY KRASEVEC	04-R5-21.12
24	TIMOTHY S. TRACY	04-R5-21.7
25	TIMOTHY S. TRACY	04-R5-21.6
26	TIMOTHY S. TRACY	04-R5-21.4
27	TUNNEL RIDGE, LLC	04-R5-21.13
28	TUNNEL RIDGE, LLC	04-R5-21.2
29	THE JOSEPH W. CRAFT, III FOUNDATION & THE KATHLEEN S. CRAFT FOUNDATION	04-R5-02.2
30	GEORGE M. ROMAN	04-R5-02.43
31	JAMES M., JR. & TINA M. FRAGALE	04-R5-02.0
32	PAUL R. & CHRISTINA E. DAVIS	04-R5-02.62
33	SCOTT A. & MELISSA A. MEALY	04-R5-02.61
34	SCOTT A. & MELISSA A. MEALY	04-R5-02.63
35	REBECCA JACK	04-R5-01.1
36	REBECCA A. JACK	04-R5-71.0
37	THOMAS H. & MARGARET A. STENGER	04-R2-06.1
38	CHARLES A. & MICHELLE R. FISHER	04-R5-74.0
39	DEBBIE SCHRADER	04-R2-06.19
40	LAURIE A. MURPHY	04-R5-73.0
41	PHILIP JAY HALESKI	04-R2-06.17
42	JOSE & DANIELLE FUENTES	04-R2-06.10
43	JOHN G. ROBINSON	04-R2-06.14
44	ROBERT RICHARD & AMY RICHARD	04-R2-06.12
45	KEITH A. & D.D. WEAR	04-R2-06.4
46	JEFFREY W. & CYNTHIA A. SIEGWART	04-R2-02.0

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	SANDSCREST FOUNDATION INC.	04-R11-15.0
B	TUNNEL RIDGE, LLC	04-R8-62.5
C	TUNNEL RIDGE, LLC	04-R8-62.4
D	TUNNEL RIDGE, LLC	04-RBP-14.0
E	SHIRLEY M. WEAVER	04-RBP-02.0
F	TUNNEL RIDGE, LLC	04-RBP-16.0
G	ALLIANCE RESOURCE GROUP, LLC	04-R8-51.0
H	JOHN M. MCGEE	04-RBP-17.0
I	DONALD P. GAYDA	04-RBP-18.0
J	CHARLES R. BOND	04-RBK-110.0
K	TYLER S. SCHWERTFEGER	04-RBK-111.0
L	TYLER S. SCHWERTFEGER	04-RBK-112.0
M	ELMER K. REED	04-RBK-106.0
N	ELMER K. REED	04-RBK-105.0
O	BERNARD H. & KIMBERLY J. BOZENSKE	04-RBK-104.0
P	RAY B. & ANN M. WILSON	04-R8-62.7
Q	ERIC DURELL & CHERYL LYNN RICHARDSON	04-R8-62.6
R	DAVID R. & KAREN MULDREW	04-RBK-101.0
S	DELORA L. TAYLOR	04-RBK-88.0
T	DELORA L. TAYLOR	04-RBK-89.0
U	JAY E. & RENEE P. CLEGG	04-RBK-90.0
V	SHAWN C. DENARD	04-RBK-62.0
W	TIMOTHY G. HEATH	04-RBK-60.0
X	TIMOTHY G. HEATH	04-RBK-59.0
Y	DAVID R. & KAREN MULDREW	04-RBK-86.0
Z	ROBERT D. & PATSY G. HERCULES	04-RBK-113.0
AA	THE JOSEPH W. CRAFT, III FOUNDATION & THE KATHLEEN S. CRAFT FOUNDATION	04-R8-04.13
AB	PAUL BAKER	04-R8-04.18
AC	TUNNEL RIDGE, LLC	04-R8-03.2
AD	RICHARD A. & NANCY SCHELL	04-R8-01.1
AE	PAUL & REBECCA WEIGAND FAMILY TRUST, DATED 10/23/2012	04-R5-40.1
AF	RICHARD A. & JOAN E. KLEMM	04-R5-36.1
AG	MARK R. & ELLIE ANTLEY	04-R5-36.2
AH	JOSEPH L. MONTEMURRO	04-R5-37.0
AI	ANTHONY J., JR. & TEXANNA BRANCH	04-R5-38.0
AJ	TIMOTHY R. BAKER	04-R5-39.0
AK	CLARENCE F. & DIANA MAE HOWELL	04-R5-40.3
AL	CHRISTOPHER & JENNIFER MEANS	04-R5-30.7
AM	CARL J. KUCERA	04-R5-30.3
AN	BETTY JO BOWMAN	04-R5-29.0
AO	MARGARET ANN SCHENERLEIN & KIM M. WILDS	04-R5-28.0
AP	MARGARET A. SCHENERLEIN & SUNDAE L. FASSIG	04-R5-27.0
AQ	TUNNEL RIDGE, LLC	04-R5-40.5
AR	RONALD L. & SANDRA L. RICHIE	04-R5-40.6
AS	TUNNEL RIDGE, LLC	04-R5-40.4
AT	RONALD L. & SANDRA L. RICHIE	04-R5-40.2
AU	RONALD L. & SANDRA L. RICHIE	04-R5-42.2
AV	JAMES RAPER	04-R5-41.0
AW	RALPH J. & BEVERLY A. KRASEVEC	04-R5-21.5
AX	JULIE B. KLEIN, JUDITH A. PATTI & SARA L. PLUMBLY-ELLIS	04-R5-22.0
AY	THE JOSEPH W. CRAFT, III FOUNDATION & THE KATHLEEN S. CRAFT FOUNDATION	04-R5-22.1

REVISIONS:

COMPANY:

**SWN**  
Production Company, LLC

**SWN** <sup>R-V+</sup>  
Production Company™

OPERATOR'S: FRANZ THOMAN OHI  
WELL #: 47-061-00310 3H

DATE: 08-01-2019  
API NO: 47-069-XXXX  
DRAWN BY: D. REED  
SCALE: N/A  
DRAWING NO: 2018-781  
WELL LOCATION PLAT

DISTRICT:  
RICHLAND

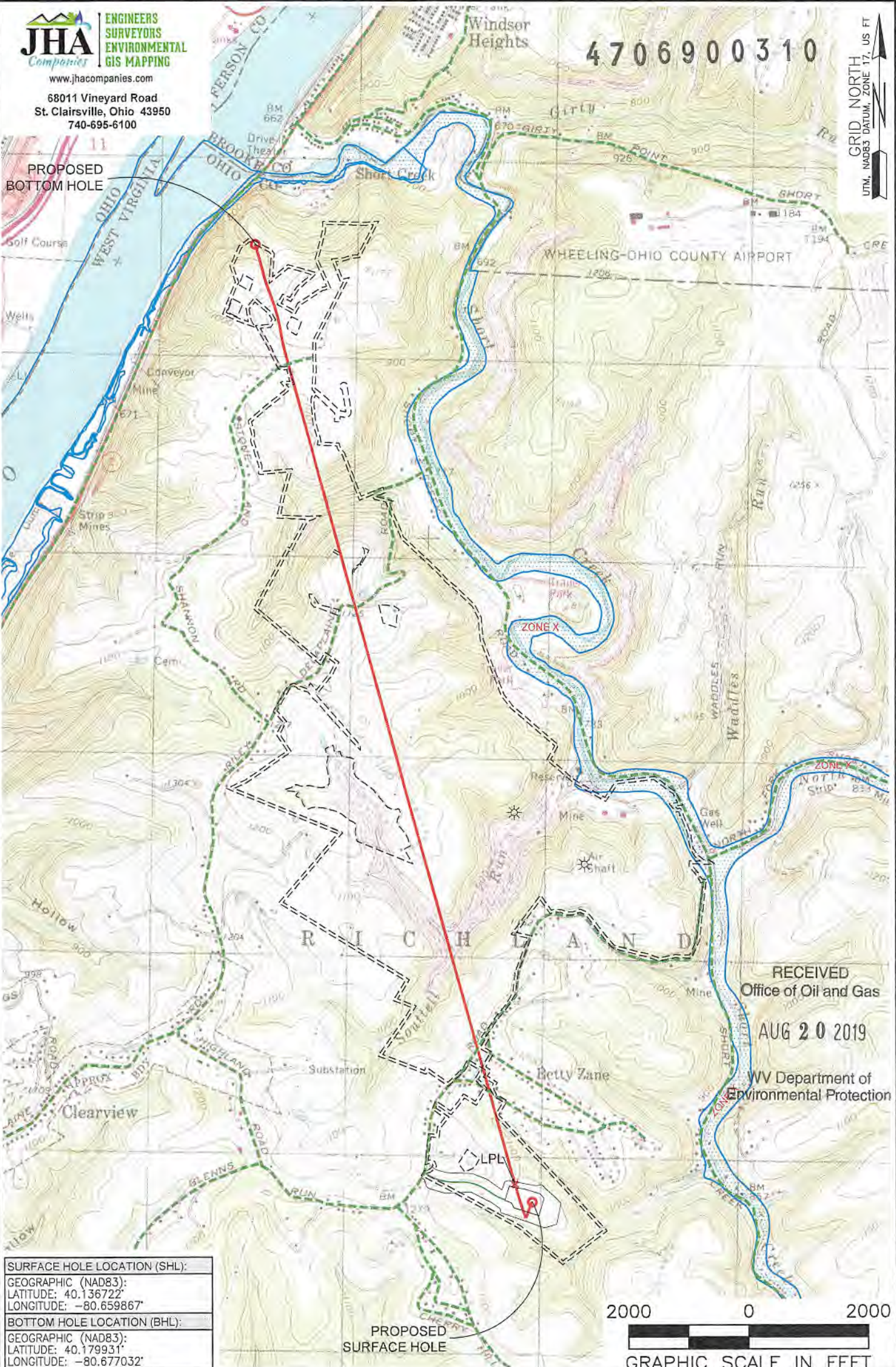
COUNTY:  
OHIO

STATE:  
WV

4706900310

GRID NORTH  
 UTM, NAD83 DATUM, ZONE 17, US FT

PROPOSED  
 BOTTOM HOLE



RECEIVED  
 Office of Oil and Gas  
 AUG 20 2019  
 WV Department of  
 Environmental Protection

<b>SURFACE HOLE LOCATION (SHL):</b>
GEOGRAPHIC (NAD83):
LATITUDE: 40.136722°
LONGITUDE: -80.659867°
<b>BOTTOM HOLE LOCATION (BHL):</b>
GEOGRAPHIC (NAD83):
LATITUDE: 40.179931°
LONGITUDE: -80.677032°

- NOTES ON SURVEY**
1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
  2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
  3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

**LEGEND:**

PROPOSED SURFACE HOLE / BOTTOM HOLE	NATURAL WATERWAY
EXISTING / PRODUCING WELLHEAD	ACCESS ROAD
LANDING POINT LOCATION	PUBLIC ROAD
FLOOD PLAN	ACCESS ROAD TO PREV. SITE
	LEASE BOUNDARY
	PROPOSED PATH

<b>WELL OPERATOR:</b> SWN PRODUCTION COMPANY, LLC	<b>WELL (FARM) NAME:</b> FRANZ THOMAN OHI	<b>WELL #</b> 3H	<b>SERIAL #</b> XXXX
<b>ADDRESS:</b> 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	<b>COUNTY:</b> OHIO	<b>CODE:</b> 069	<b>DISTRICT:</b> RICHLAND
<b>SURFACE OWNER:</b> FRANZ THOMAN	<b>USGS 7 1/2 QUADRANGLE MAP NAME:</b> TILTONSVILLE, OH-WV		