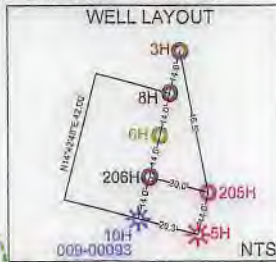




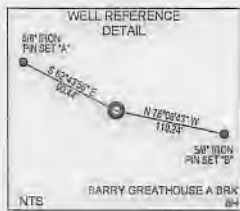
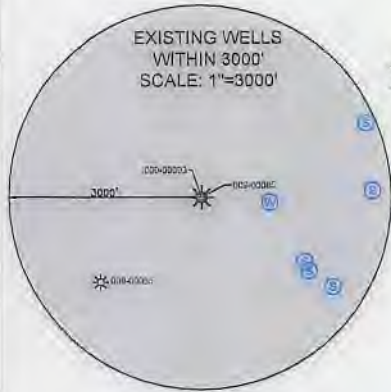
www.jhacompanies.com  
68011 Vineyard Road  
St. Clairsville, Ohio 43950  
740-695-6100



NOTES ON SURVEY

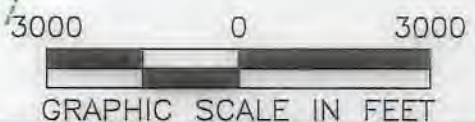
1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
3. THIS PLAT DOES 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.

04/19/2019



<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4449083.44
EASTING: 531015.71
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4448656.41
EASTING: 531370.15
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4445656.71
EASTING: 532521.70

LINE	BEARING	DISTANCE
L1	S14°50'10"W	1097.91'
L2	N34°10'17"W	1134.88'



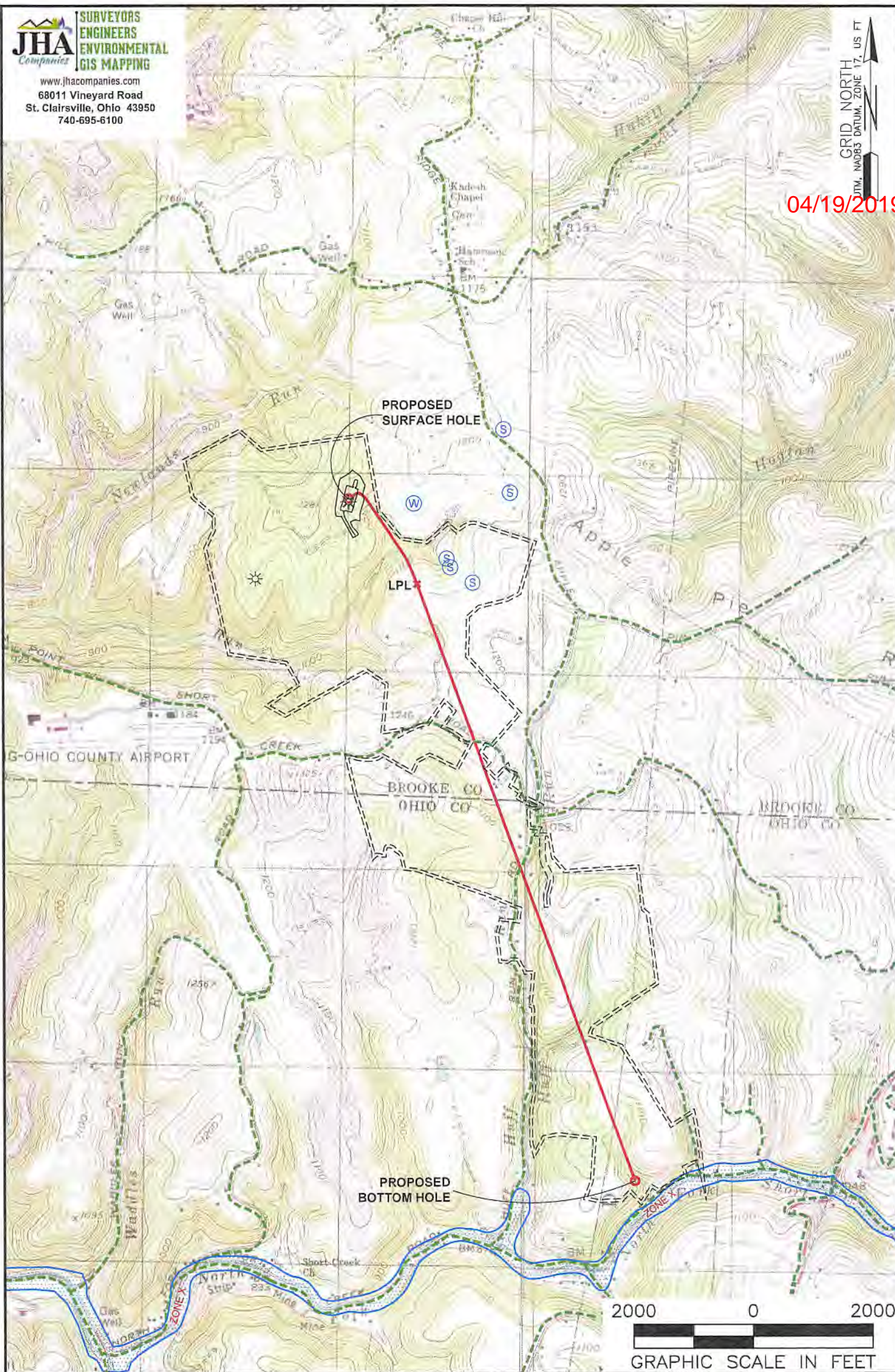
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 2041

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	BARRY GREATHOUSE A BRK
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	OPERATOR'S WELL #: 8H
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"/>		API WELL #: 47 009 00231	
WATERSHED: UPPER OHIO SOUTH		ELEVATION: 1,136.1'	
DISTRICT: BUFFALO COUNTY: BROOKE		QUADRANGLE: TILTONVILLE, OH & BETHANY, WV	
SURFACE OWNER: BARRY L. GREATHOUSE & PATRICIA A. GREATHOUSE		ACREAGE: ±229.00	
OIL & GAS ROYALTY OWNER: RAYLE COAL COMPANY		ACREAGE: ±229.00	
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"/>			
CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY) _____			
TARGET FORMATION: MARCELLUS		ESTIMATED DEPTH: 5,921' TVD 16,962' TMD	
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC		DESIGNATED AGENT: BRITTANY WOODY	
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201		ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201	
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508		CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	
LEGEND:		REVISIONS:	
<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> </ul>		<ul style="list-style-type: none"> <li>SURVEYED BOUNDARY</li> <li>DRILLING UNIT</li> <li>LEASE BOUNDARY</li> <li>PROPOSED PATH</li> </ul>	
		DATE: 02-27-2019	
		API NO: 47-009-00231	
		DRAWN BY: D. REED	
		SCALE: 1" = 3000'	
		DRAWING NO: 2017-422	
		WELL LOCATION PLAT	



04/19/2019



**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
- EXISTING / PRODUCING WELLHEAD
- LPL
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC		WELL (FARM) NAME: BARRY GREATHOUSE A BRK		WELL # 8H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, MORGANTOWN, WV 26508		COUNTY: BROOKE	CODE: 009	DISTRICT: BUFFALO	API # 47-009-00231
SURFACE OWNER: BARRY L. GREATHOUSE & PATRICIA A. GREATHOUSE		USGS 7 1/2 QUADRANGLE MAP NAME: TILTONVILLE, OH-WV & BETHANY, WV-PA			