



www.jhacompanies.com

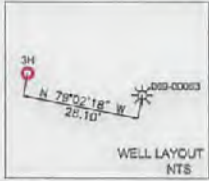
68011 Vineyard Road  
St. Clairsville, Ohio 43950  
740-695-6100

Latitude: 40°02'30" SURFACE HOLE | 3097'

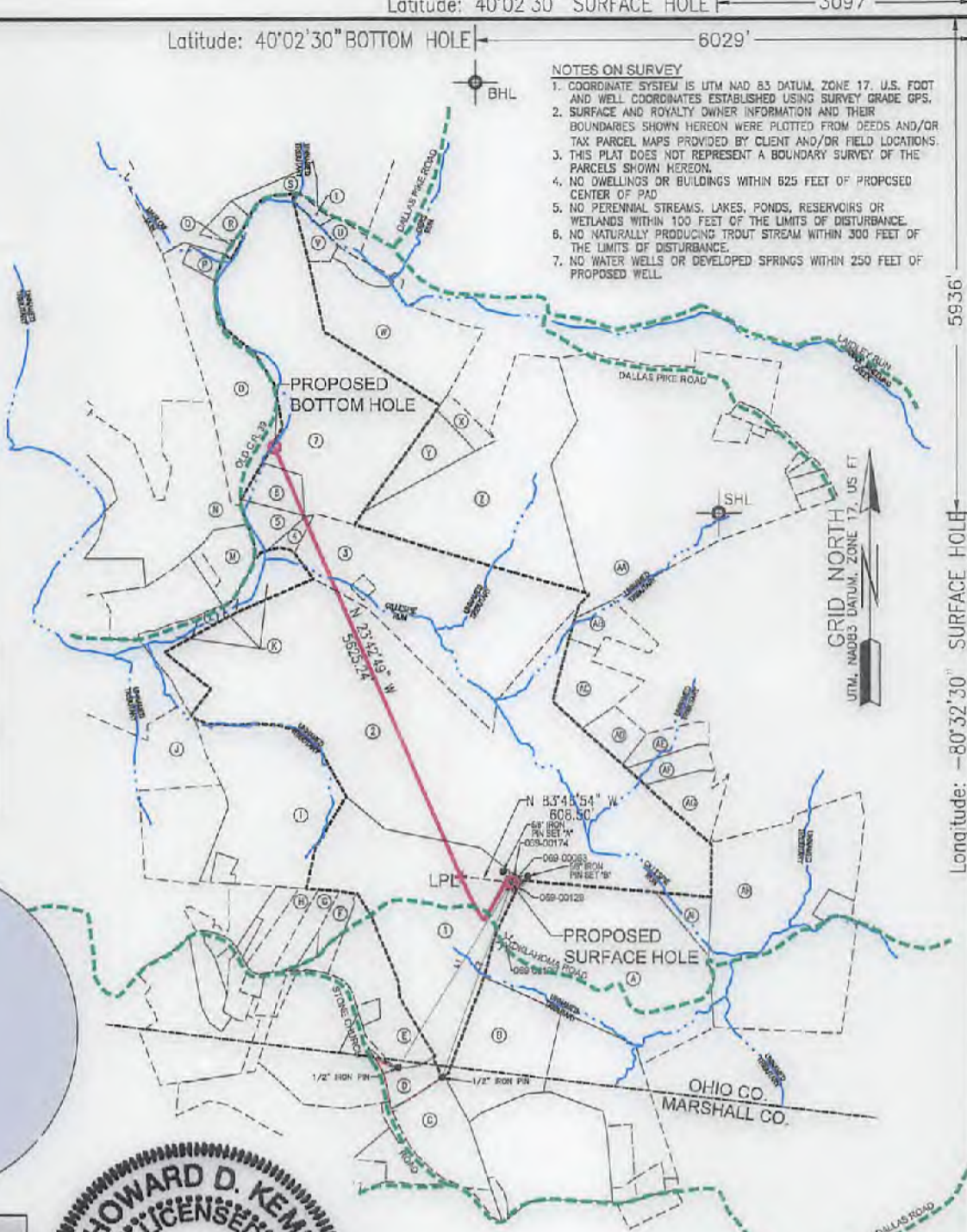
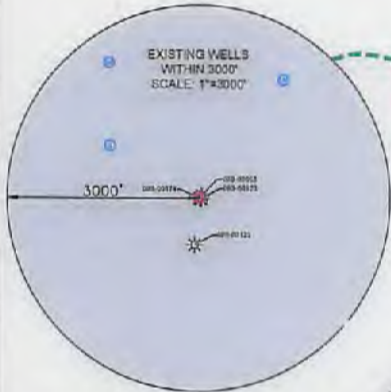
Latitude: 40°02'30" BOTTOM HOLE | 6029'

**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.



LINE	BEARING	DISTANCE
L1	S 31°20'00"W	2306.54'
L2	S 1°37'54" W	2562.16'

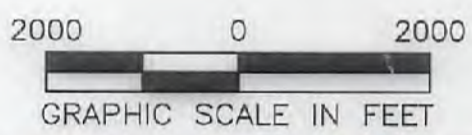


Longitude: -80°32'30" SURFACE HOLE | 5936'  
Longitude: -80°32'30" BOTTOM HOLE | 757'

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



<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4430674.14 EASTING: 538176.09
<b>LANDING LOCATION (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4430691.34 EASTING: 537991.37
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4432248.64 EASTING: 537275.99



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.

COMPANY: **SWN** Production Company, LLC **SWN** Production Company™

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)

OPERATOR'S WELL #: ESTHER WEEKS OHI 3H  
API WELL #: 47 STATE, 069 COUNTY, 00255 PERMIT

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1256.73'

DISTRICT: TRIADELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE, WV

SURFACE OWNER: KARLA J. WEEKS ACREAGE: ±101.47

OIL & GAS ROYALTY OWNER: KARLA J. WEEKS ACREAGE: ±101.47

DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION

CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,691 TO 2,985 FT

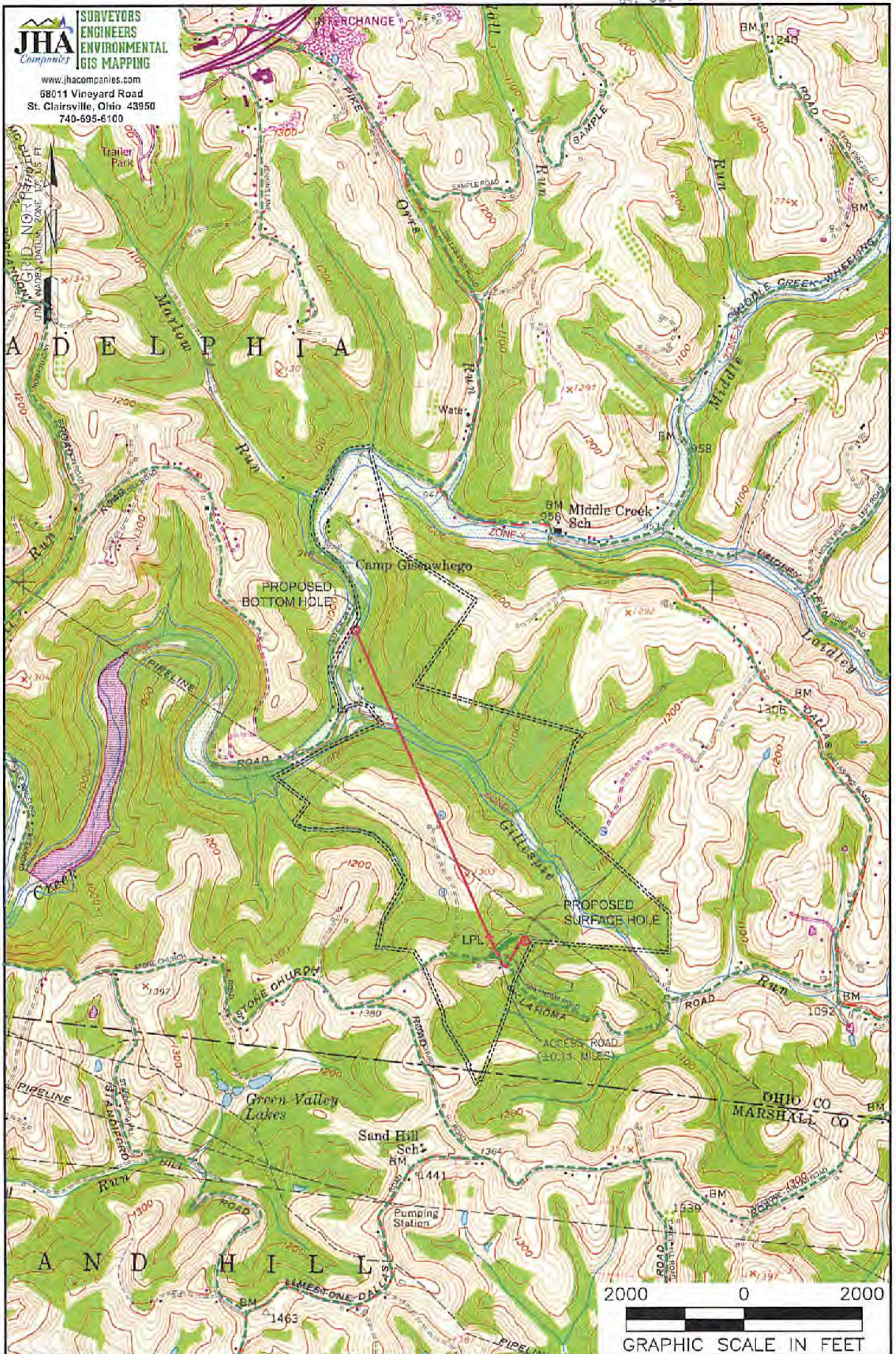
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL  
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300  
CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

**LEGEND:**

PROPOSED SURFACE HOLE / BOTTOM HOLE	SURVEYED BOUNDARY
EXISTING / PRODUCING WELLHEAD	DRILLING UNIT
LPL LANDING POINT LOCATION	LEASE BOUNDARY
EXISTING WATER WELL	PROPOSED PATH
EXISTING SPRING	

<b>REVISIONS:</b>	<b>DATE:</b> 11-29-2017
	<b>DRAWN BY:</b> M.SNIDER
	<b>SCALE:</b> 1" = 2000'
	<b>DRAWING NO:</b> 2017-301
	<b>WELL LOCATION PLAT</b>

**JHA**  
 Companies  
 SURVEYORS  
 ENGINEERS  
 ENVIRONMENTAL  
 GIS MAPPING  
 www.jhacompanies.com  
 68011 Vineyard Road  
 St. Clairsville, Ohio 43950  
 740-695-6100



**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 LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

12/08/2017

<p><b>WELL OPERATOR:</b>                  SWN PRODUCTION COMPANY, LLC</p> <p><b>ADDRESS:</b>                  P.O. BOX 1300 JANE LEW, WV 26378</p> <p><b>SURFACE OWNER:</b>                  KARLA J. WEEKS</p>	<p><b>WELL (FARM) NAME:</b>                  ESTHER WEEKS OHI</p> <p><b>COUNTY - CODE:</b>                  OHIO - 069</p> <p><b>USGS 7 1/2 QUADRANGLE MAP NAME:</b>                  VALLEY GROVE, WV</p>	<p><b>WELL #</b>                  3H</p>	<p><b>SERIAL #</b>                  XXXX</p>
		<p><b>DISTRICT:</b>                  TRIADELPHIA</p>	