

Latitude: 40°12'30" SURFACE HOLE

72.32'

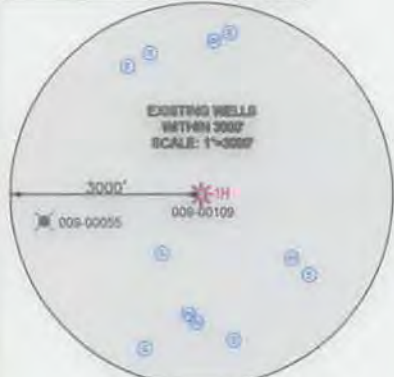
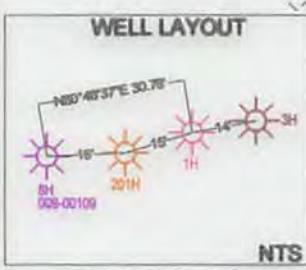
Latitude: 40°15'00" BOTTOM HOLE

**JHA** SURVEYORS  
ENGINEERS  
ENVIRONMENTAL  
GIS MAPPING

www.jhacompanies.com  
66011 Vineyard Road  
St. Clairsville, Ohio 43880  
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.



LINE	BEARING	DISTANCE
L1	N06°28'45"E	1810.28'
L2	S13°36'22"W	1802.98'



<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4448996.62 EASTING: 533260.95
<b>LANDING POINT LOCATION (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4449177.27 EASTING: 532940.79
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4452032.91 EASTING: 531764.90

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.

*Handwritten signature and date: 10/10/18*



(+) 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 SOURCE OF ELEVATION: SURVEY GRADE GPS (NAD83, US FT)

COMPANY: **SWN** Production Company, LLC

OPERATOR'S WELL #: MIKE RYNIAWEC 1H BRK

API WELL #: 47 STATE, 009 COUNTY, 00242 PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1147.0'

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY, WV & TILTONSVILLE, OH-WV

SURFACE OWNER: MIKE RYNIAWEC ACREAGE: ±102.0

OIL & GAS ROYALTY OWNER: MIKE RYNIAWEC ACREAGE: ±102.0

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,921' TVD 16,705.0' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY

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
- ⊙ EXISTING / PRODUCING WELLHEAD
- LPL\* LANDING POINT LOCATION
- ⊙ EXISTING WATER WELL
- ⊙ EXISTING SPRING
- SURVEYED BOUNDARY
- ===== LEASE BOUNDARY
- ASORILLED PATH
- PROPOSED PATH

**REVISIONS:**

NO.	DATE	DESCRIPTION
	10-10-2018	DATE: 10-10-2018
		DRAWN BY: D. REED
		SCALE: 1" = 2000'
		DRAWING NO: 2017-220
		WELL LOCATION PLAT

Longitude: 80°35'00" SURFACE HOLE  
Longitude: 80°37'30" BOTTOM HOLE

