

SHL Latitude 40°10'00" 7409'

BHL Latitude: 40°12'30" 7,539'

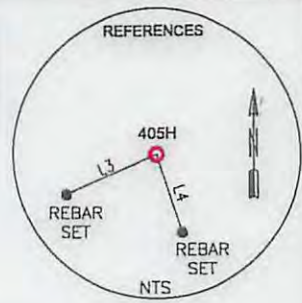
# RETTEW

RETTEW Associates, Inc.  
27 Travato Street, Suite 101  
Bridgeport, WV 26330  
Phone (800) 738-8395  
Email: rettew@rettew.com  
Website: www.rettew.com

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

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 57°31'10" W	424.92'	SHL TO LANDMARK	
L2	N 84°47'43" E	780.34'	SHL TO LANDMARK	
L3	S 70°52'39" W	521.11'	SHL TO REF. PNT.	REBAR W/CAP
L4	S 18°35'18" E	312.10'	SHL TO REF. PNT.	REBAR W/CAP

**ADJOINING OWNER INFORMATION**  
(SEE ADJOINING OWNER SHEET)



**SURFACE HOLE LOCATION (SHL):**

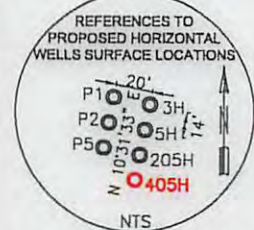
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,445,424.216  
EASTING: 529,677.266

**LANDING POINT LOCATION (LPL):**

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,445,819.067  
EASTING: 530,293.920

**BOTTOM HOLE LOCATION (BHL):**

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,448,311.087  
EASTING: 529,625.697

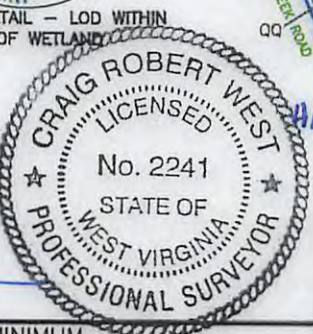


**NOTES ON SURVEY**

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

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. 2241



COMPANY: **SWN** Production Company, LLC

EDWARD DREMAK OHI  
OPERATOR'S WELL #: 405H  
API WELL #: 47 STATE 69 COUNTY 00228 PERMIT

(+) 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)

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

WATERSHED: UPPER OHIO WHEELING ELEVATION: 1,087.5'± PROPOSED

DISTRICT: RICHLAND COUNTY: OHIO QUADRANGLE: TILTONSVILLE, OH-WV

SURFACE OWNER: DREMAK, EDWARD W. & JOANNE V. ACREAGE: 34.19±

OIL & GAS ROYALTY OWNER: DREMAK, EDWARD W. & JOANNE V. ACREAGE: 34.19±

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

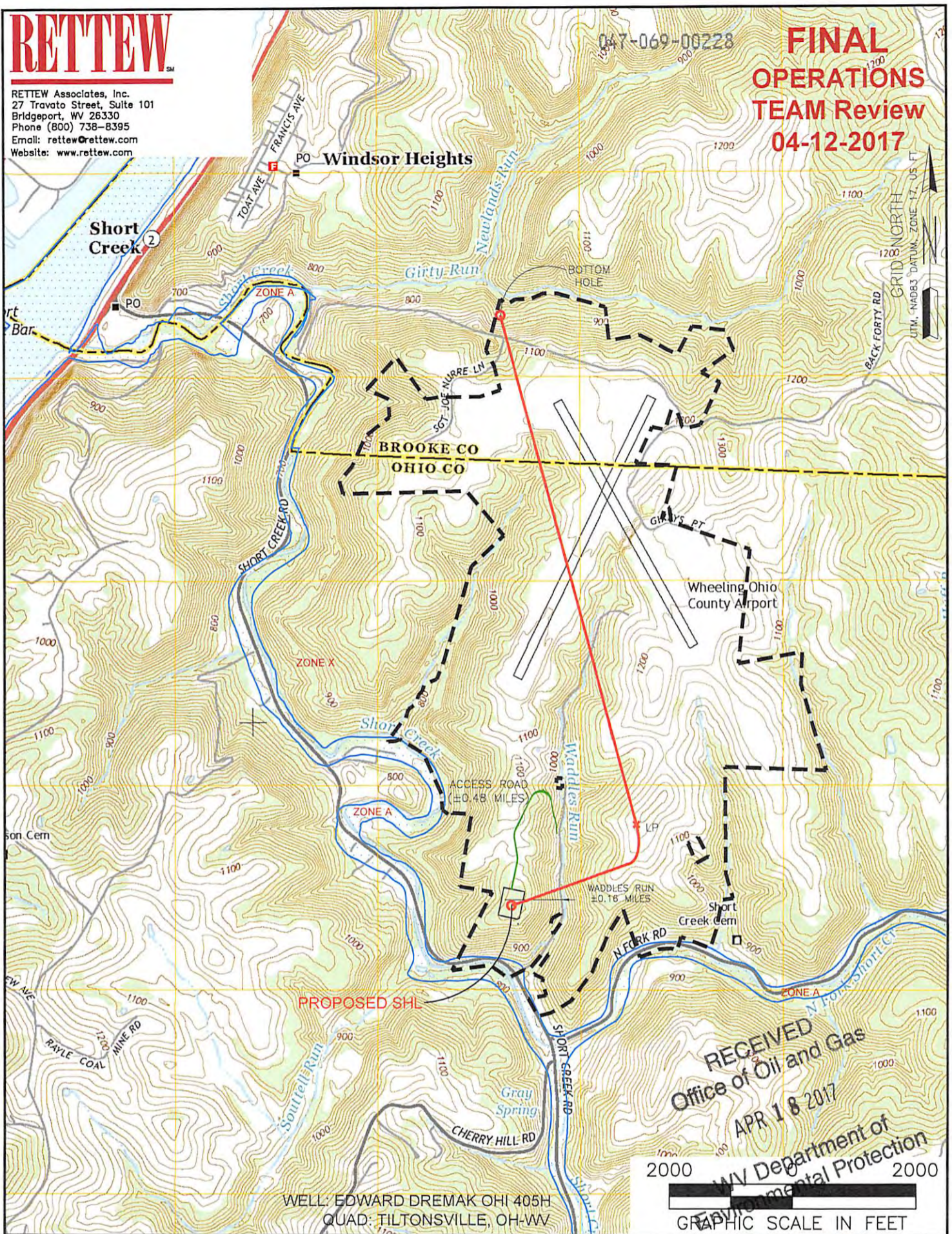
CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5.809' **07/28/2017**

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:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	(S) EXISTING SPRING	04-11-2017
⊙ EXISTING / PRODUCING WELLHEAD	(W) EXISTING WATER WELL	
⊘ ABANDONED WELL	--- TIE LINE	
⊙ PLUGGED & ABANDONED WELL	--- LEASE BOUNDARY	
⊙ PERMITTED BUT NOT DRILLED	--- MARCELLUS DOWN HOLE PATH	
	--- ABANDONED PATH	





WELL: EDWARD DREMAK OHI 405H  
QUAD: TILTONSVILLE, OH-WV

RECEIVED  
Office of Oil and Gas  
APR 18 2017  
WV Department of  
Environmental Protection  
GRAPHIC SCALE IN FEET

NAME AND DISTANCE TO THE NEAREST STREAM: WADDLES RUN IS LOCATED ±0.16 MILES EAST OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): NO STREAM CROSSINGS		COMPANY: <b>SWN</b> Production Company, LLC		<b>SWN</b> <sup>R<sub>2</sub></sup> / <sub>A</sub> <sup>V</sup> / <sub>+</sub> <sup>0</sup>	
WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF OHIO/BROOKE COUNTY, WEST VIRGINIA; MAP NUMBER 54069C0016D/54069C0020D; EFFECTIVE DATE: JULY 17, 2006				OPERATOR'S EDWARD DREMAK OHI		WELL #: 405H	
				LOCATION: RICHLAND/BUFFALO DISTRICTS, OHIO/BROOKE COUNTIES, WEST VIRGINIA			
				SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.158650° LONGITUDE: -80.651520° <b>07/28/2017</b>			
				BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.184560° LONGITUDE: -80.651992°			
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊕ PLUGGED & ABANDONED WELL ⊖ PERMITTED BUT NOT DRILLED				ACCESS ROAD ACCESS ROAD TO PREV. SITE HIGHWAY/INTERSTATE COUNTY ROAD		REVISIONS: DATE: 04-11-2017	
				DRAWN BY: B. HERMAN		SCALE: 1" = 2000'	
				DRAWING NO: 087569045		TOPOGRAPHIC MAP	