

LATITUDE: 40°15'00" BOTTOM HOLE

10013'

LATITUDE: 40°12'30" SURFACE HOLE

4545'



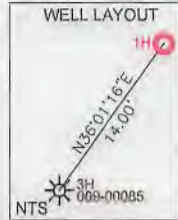
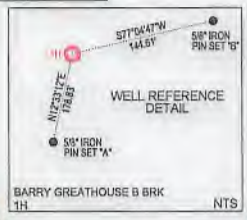
www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

PROPOSED
BOTTOM HOLE

NOTES ON SURVEY

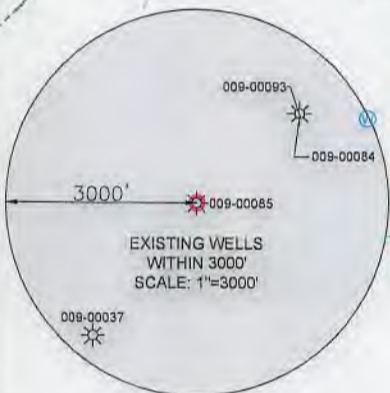
1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS. THIS PLAT DOES NOT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

LINE	BEARING	DISTANCE
L1	S37°12'23"W	3073.52'
L2	S78°34'22"W	2259.62'

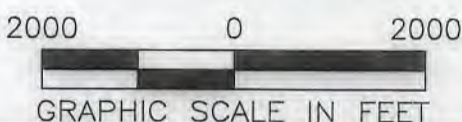


GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

STATE OF OHIO
STATE OF WEST VIRGINIA



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4448652.96 EASTING: 530542.25
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4448531.314 EASTING: 530119.220
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4451440.91 EASTING: 528867.32



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 B BRK
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	OPERATOR'S WELL #: 1H API WELL #: 47 009 00269

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,142.8'

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

SURFACE OWNER: BARRY L. GREATHOUSE & PATRICIA A. GREATHOUSE ACREAGE: ±229.00

OIL & GAS ROYALTY OWNER: RAYLE COAL COMPANY ACREAGE: ±229.00

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: 5,798' TVD 16,822.2' 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 EXISTING WATER WELL EXISTING SPRING SURVEYED BOUNDARY DRILLING UNIT LEASE BOUNDARY PROPOSED PATH	REVISIONS: DATE: 01-04-2019 DRAWN BY: D. REED SCALE: 1" = 2000' DRAWING NO: 2017-547 WELL LOCATION PLAT
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WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	BARRY L. GREATHOUSE & PATRICIA A. GREATHOUSE (S) RAYLE COAL COMPANY (R)	03-B41-0082.0000
TRACT	SURFACE OWNER	TAX PARCEL
2	BARRY L. GREATHOUSE & PATRICIA ANN GREATHOUSE, JTWROS	03-B41-0083.0000
3	BARRY L. GREATHOUSE & PATRICIA ANN GREATHOUSE, JTWROS	03-B41-0032.0000
4	ROBERT J. MILLER, JR. & LINDA MILLER	03-B41-0047.0000
5	ROSEMARY KINDER MOORE	03-B41-0035.0000
6	DONNA MARIE PEREZ	03-B41-0037.0000
7	CNX LAND, LLC	03-B41-0005.0000
8	WINDSOR COAL COMPANY	03-B41-0007.0000
9	WEST PENN POWER COMPANY	01-BB41-0006.0000
10	WEST PENN POWER COMPANY	01-BB36-0028.0000
11	WEST PENN POWER COMPANY	01-BB36-0027.0000
12	WINDSOR COAL COMPANY	01-BB36-0026.0000
13	WINDSOR COAL COMPANY	01-BB36-0025.0000
14	ALLEGHENY ENERGY SUPPLY COMPANY, LLC	01-BB36-0030.0000
15	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE	01-BB36-0001.0000
16	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE	01-BB36-0024.0000
17	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE	01-BB36-0023.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	JAY GLEN COLLINS	03-B41-0080.0000
B	DALE T. WOOD & MARY R. WOOD	03-B41-0084.0000
C	DANNY GENE BRITT & VIRGINIA MARGARET BRITT	03-B46-0027.0000
D	BOARD OF COMM. OHIO COUNTY, WHG OHIO COUNTY AIRPORT AUTHORITY	04-R05-0010.0000
E	STACY ANN GREATHOUSE & PATRICIA ANN GREATHOUSE, JTWROS	03-B46-0041.0000
F	BARRY L. GREATHOUSE & PATRICIA A. GREATHOUSE	03-B46-0019.0000
G	BARRY L. GREATHOUSE & PATRICIA A. GREATHOUSE	03-B46-0018.0000
H	CHARLES BELL ESTATE	03-B41-0031.0000
I	ROSEMARY KINDER MOORE	03-B41-0030.0000
J	LAWRENCE MOORE & ROSEMARY MOORE	03-B41-0034.0000
K	LAWRENCE MOORE & ROSEMARY MOORE	03-B41-0033.0000
L	WINDSOR COAL COMPANY	03-B41-0021.0000
M	LAWRENCE MOORE & ROSEMARY MOORE	03-B41-0021.0001
N	WINDSOR COAL COMPANY	01-BB41-0005.0000
O	WINDSOR COAL COMPANY	01-BB41-0003.0000
P	WEST PENN POWER COMPANY	01-BB41-0017.0000
Q	WEST PENN POWER COMPANY	01-BB41-0016.0000
R	WEST PENN POWER COMPANY	01-BB41-0007.0000
S	WEST PENN POWER COMPANY	01-BB41-0014.0000
T	WEST PENN POWER COMPANY	01-BB41-0010.0000
U	OHIO POWER COMPANY GENERAL OFFICE ACCT DEPT	01-BB41-0001.0000
V	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE	01-BB36-0002.0000
W	OHIO RIVER (STATE OF WEST VIRGINIA)	OHIO RIVER
X	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE	01-B36K-0013.0000
Y	STATE ROUTE #2	RIGHT OF WAY
Z	RALPH PLANTS	01-BB36-0003.0000
AA	MARY LOUISE MCALLISTER	01-BB36-0021.0000
AB	BUSINESS DEVELOPMENT CORP OF THE NORTHERN PANHANDLE	03-BB36-0023.0001
AC	WINDSOR COAL COMPANY	03-BB36-0022.0000
AD	WINDSOR COAL COMPANY	01-B36-0091.0000
AE	WINDSOR COAL COMPANY	03-B41-0039.0000
AF	SYLVESTER KELLER & MARY KELLER	03-B41-0038.0000
AG	RAY PAUL NICOLAN	03-B41-0042.0000
AH	JOY ANN SCHUETZ & EBBIE J. SCHUETZ	03-B41-0046.0000
AI	FRED W. YOUNG JR.	03-B41-0054.0001
AJ	DOROTHY S. MOORE	03-B41-0054.0000
AK	KARL DOUGLAS STEPHENS	03-B41-0054.0002
AL	WILLIAM MILLER & DAWNA MILLER	03-B41-0061.0000
AM	FREDERICK C. HAYMAN JR. & STACY A. HAYMAN	03-B41-0083.0001
AN	MICHAEL A. WOLEN & LINDA S. WOLEN	03-B41-0036.0000
AO	WEST PENN POWER COMPANY	01-BB41-0009.0000

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{Energy+}
Production Company™

OPERATOR'S BARRY GREATHOUSE B BRK

DATE: 01-04-2019

WELL #: 1H

DRAWN BY: D. REED

DISTRICT:
BUFFALO

COUNTY:
BROOKE

STATE:
WV

SCALE: N/A

DRAWING NO: 2017-547

WELL LOCATION PLAT

PROPERTY NUMBER 2501166099
PAD ID 3001156743