

(2,000' SCALE) BOTTOM HOLE LATITUDE: 40°15'00"

(2,000' SCALE) SURFACE HOLE LATITUDE: 40°10'00"

10255'

7354'

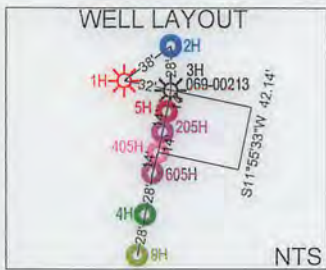


www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

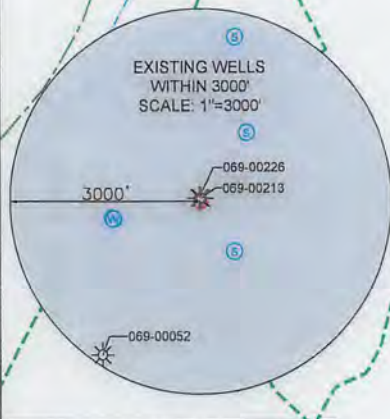
NOTES ON SURVEY

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.

11/09/2018

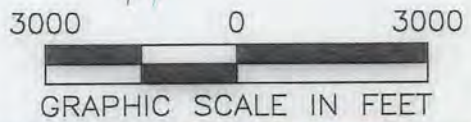


GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US
SURFACE HOLE LONGITUDE: -80°37'30"



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4445423.83 EASTING: 529679.01
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4445819.07 EASTING: 530293.92
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4451092.37 EASTING: 528772.74

LINE	BEARING	DISTANCE
L1	S85°36'24"W	744.72'
L2	N77°47'40"W	762.14'



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 *[Signature]* 10/3/18

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



<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)</p>	<p>EDWARD DREMAK OHI</p> <p>OPERATOR'S WELL #: 405H</p> <p>API WELL #: 47 069 00228</p> <p>STATE COUNTY PERMIT</p>
	<p>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"/></p> <p>WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,088.0'</p> <p>DISTRICT: RICHLAND COUNTY: OHIO QUADRANGLE: TILTONSVILLE, OH</p> <p>SURFACE OWNER: ANDREW JOHN EVICK ACREAGE: ±34.19</p> <p>OIL & GAS ROYALTY OWNER: EDWARD W. & JOANNE V. DREMAK ACREAGE: ±34.19</p> <p>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"/></p> <p>CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,805' TVD 24,701.0' TMD</p>	<p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC</p> <p>ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378</p>
<p>LEGEND:</p> <ul style="list-style-type: none"> PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LPL* LANDING POINT LOCATION EXISTING WATER WELL EXISTING SPRING SURVEYED BOUNDARY LEASE BOUNDARY PROPOSED PATH 	<p>REVISIONS:</p>	<p>DATE: 10-03-2018</p> <p>DRAWN BY: D. REED</p> <p>SCALE: 1" = 3000'</p> <p>DRAWING NO: 2018-284</p> <p>WELL LOCATION PLAT</p>

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	ANDREW JOHN EVICK (S) EDWARD W. & JOANNE V. DREMAK (R)	04-R5-54
2	ANDREW JOHN EVICK	04-R5-49
3	WINDSOR COAL COMPANY	04-R8-B.1
4	THE BOARD OF COMMISSIONERS OF THE COUNTY OF OHIO	04-R5-10
5	THE BOARD OF COMMISSIONERS OF THE COUNTY OF OHIO	04-R5-55
6	BARRY L. & PATRICIA A. GREATHOUSE	03-B46-0018.0000
7	BARRY L. & PATRICIA A. GREATHOUSE	03-B41-0032.0000
8	CHARLES BELL ESTATE	03-B41-0031.0000
9	LAWRENCE R. MOORE & ROSEMARY KINDER	03-B41-0021.0004
10	ROSEMARY KINDER MOORE	03-B41-0030.0000
11	ROSEMARY KINDER MOORE	03-B41-0035.0000
12	MICHAEL A. & LINDA S. WOLEN (SURVIVORSHIP)	03-B41-0036.0000
13	WINDSOR COAL COMPANY	03-B41-0005.0000
14	WINDSOR COAL COMPANY	01-BB41-0003.0000
15	WEST PENN POWER COMPANY	01-BB41-0017.0000
16	WEST PENN POWER COMPANY	01-BB41-0010.0000
17	WEST PENN POWER COMPANY	01-BB41-0013.0000
18	OHIO POWER COMPANY	01-BB41-0001.0000
19	THE BROOKE COUNTY COMMISSION	01-BB41-0008.0000
20	ALLEGHENY ENERGY SUPPLY COMPANY, LLC	01-BB36-0030.0000

11/09/2018

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	ALLIANCE RESOURCE GP, LLC	04-R6-6
B	ALLIANCE RESOURCE GP, LLC	04-R5-52
C	ALLIANCE RESOURCE GP, LLC	04-R5-53
D	WINDSOR COAL COMPANY, LLC	04-R5-50
E	JOHN W. METZ	04-R5-46
F	BURNT MILL ACRES, LLC	04-R5-13
G	S.E.W. TRUST	04-R5-9
H	RODNEY K. & NEDRA C. MCCONNELL	04-R2-20
I	RODNEY K. & NEDRA C. MCCONNELL	03-B46-0014.0000
J	HENRY W. ZEIDLER, JUDITH K. ZEIDLER & MARGARET L. BURGDRAF	03-B46-0015.0000
K	JUDAN GARRETT	03-B46-0017.0000
L	SIDNEY W., JR. & VICKI MOZINGO	03-B46-0007.0000
M	SIDNEY W., JR. & VICTORIA L. MOZINGO	03-B46-0005.0001
N	SIDNEY W., JR. & VICTORIA L. MOZINGO	03-B46-0005.0000
O	ALEX & DARLA ANN MUSHET	03-B46-0004.000
P	EVERT RUNTAN	03-B41-0018.0000
Q	WINDSOR COAL COMPANY	03-B41-0020.0000
R	WINDSOR HEIGHTS VILLAGE	08-W41N-0139.0000
S	NEL A. & JANICE C. ABRAHAMSON	03-B41-0024.0000
T	NEL A. & JANICE C. ABRAHAMSON	03-B41-0021.0005
U	NEL A. & JANICE C. ABRAHAMSON	03-B41-0025.0000
V	LAWRENCE R. & ROSEMARY MOORE	03-B41-0021.0001
W	HAMMOND PUBLIC SERVICE DISTRICT	03-B41-0021.0002
X	STANLEY RAE KRUPINSKI & MEREDITH KINDER MOORE	03-B41-0021.0003
Y	WINDSOR COAL COMPANY	03-B41-0021.0000
Z	WINDSOR COAL COMPANY	01-BB41-0005.0000
AA	OHIO FRANKLIN REAL ESTATE COMPANY	01-BB41-0004.0000
AB	OHIO FRANKLIN REAL ESTATE COMPANY	01-BB41-0002.0000
AC	STATE OF WEST VIRGINIA (OHIO RIVER)	OHIO RIVER
AD	BUSINESS DEVELOPMENT CORPORATION OF THE NORTHEIN PANHANDLE	01-BB36-0002.0000
AE	BUSINESS DEVELOPMENT CORPORATION OF THE NORTHEIN PANHANDLE	01-BB36-0023.0000
AF	BUSINESS DEVELOPMENT CORPORATION OF THE NORTHEIN PANHANDLE	01-BB36-0024.0000
AG	BUSINESS DEVELOPMENT CORPORATION OF THE NORTHEIN PANHANDLE	01-BB36-0001.0000
AH	RALPH PLANTS	01-BB36-0003.0000
AI	WINDSOR COAL COMPANY	01-BB36-0025.0000
AJ	WINDSOR COAL COMPANY	01-BB36-0026.0000
AK	WEST PENN POWER COMPANY	01-BB36-0027.0000
AL	WEST PENN POWER COMPANY	01-BB36-0028.0000
AM	WEST PENN POWER COMPANY	01-BB41-0006.0000
AN	WEST PENN POWER COMPANY	01-BB41-0014.0000
AO	MONONGAHELA POWER COMPANY	01-BB41-0012.0000
AP	WEST PENN POWER COMPANY	01-BB41-0007.0000
AQ	WEST PENN POWER COMPANY	01-BB41-0018.0000
AR	WINDSOR COAL COMPANY	03-B41-0007.0000
AS	WINDSOR COAL COMPANY	03-B41-0009.0000
AT	SYLVESTER & MARY KELLER	03-B41-0038.0000
AU	DONNA MARIE PEREZ	03-B41-0037.0000
AV	RAY PAUL NICHOLAN	03-B41-0042.0000
AW	ROBERT J., JR. & LINDA MILLER	03-B41-0047.0000
AX	BARRY L. & PATRICIA A. GREATHOUSE	03-B41-0082.0000
AY	BARRY L. & PATRICIA A. GREATHOUSE	03-B41-0083.0000
AZ	BARRY L. & PATRICIA A. GREATHOUSE	03-B46-0019.0000
BA	STACY ANN GREATHOUSE & PATRICIA ANN GREATHOUSE	03-B46-0041.0000
BB	DANNY GENE BRITT & MARGARET VIRGINIA	03-B46-0027.0000
BC	TRACY DELBERT	03-B46-0022.0001
BD	BRUCE D. BONAR (I) & WILLIAM BONAR (I)	03-B46-0020.0000
BE	MARC SEAMON	04-R6-2
BF	SHORT CREEK COAL COMPANY (C/O RAYLE COAL COMPANY)	04-R6-17.3
BG	SHORT CREEK COAL COMPANY (C/O RAYLE COAL COMPANY)	04-R6-17
BH	MARC SEAMON	04-R6-37
BI	SHORT CREEK CEMETERY ASSOCIATION, TRUSTEES	04-R5-57
BJ	SHORT CREEK METHODIST CHURCH	04-R5-60
BK	ROBERT L. & GWENDOLYN NOVAK	04-R5-59
BL	ERIC W. & LISA N. GADD	04-R5-55.1
BM	ERIC W. & LISA N. GADD	04-R5-55.3
BN	LUTHER R., II & D.F. SMITH	04-R8-16.1
BO	AMERICAN DISPOSAL SERVICES OF WEST VIRGINIA, INC	04-R8-15
BP	ALLIED WASTE, INC	04-R5-56.1
BQ	ALLIED WASTE, INC	04-R5-56
BR	RODNEY & A.J. SNYDER	04-R8-13
BS	ARTHUR ENNIS, PEGGY CLARK & ALMA SINCAVICH	04-R8-9
BT	GORDON E. & DEBORAH P. DREMAK	04-R8-B.15
BU	OHIO COUNTY COMMISSION	04-R8-B.16
BV	TUNNEL RIDGE, LLC	04-R8-B.17
BW	TUNNEL RIDGE, LLC	04-R8-B.14
BX	TUNNEL RIDGE, LLC	04-R8-B.2
BY	SUSAN L. CAIN	04-R8-B.3
BZ	TUNNEL RIDGE, LLC	04-R8-B.18
CA	LAWRENCE & ROSEMARY MOORE	03-B41-0034.0000
CB	LAWRENCE R. & ROSEMARY K. MOORE	03-B41-0033.0000
CC	RICHARD L. & DEBORAH K. BLACK	04-R5-58.1
CD	RAY W. ARCHER	04-R5-58
CE	BRYAN K. & LAURA L. PETTIT	04-R5-55.4
CF	EDWARD W. & JOANNE V. DREMAK	04-R5-54.1

H6A
47-069-00228 MOO

REVISIONS:	COMPANY:	 	
	OPERATOR'S	EDWARD DREMAK OHI	
	WELL #:	405H	
	DISTRICT:	COUNTY:	STATE:
	RICHLAND	OHIO	WV
			DATE: 10-03-2018
			DRAWN BY: D. REED
			SCALE: N/A
			DRAWING NO: 2018-284
			WELL LOCATION PLAT