

(2000' SCALE) LATITUDE: 40°20'00" SURFACE HOLE
9767'

(2000' SCALE) LATITUDE: 40°17'30" BOTTOM HOLE

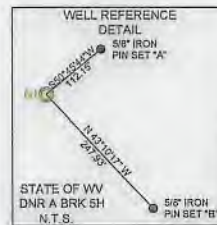
5475'



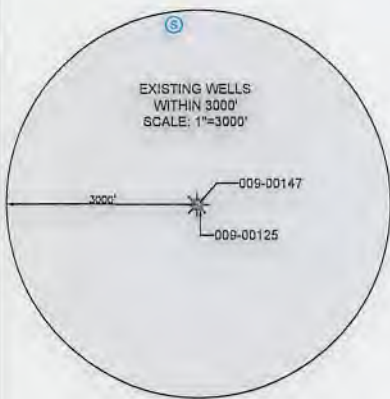
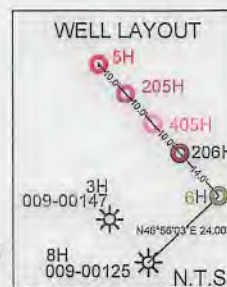
www.jhacompanies.com

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

LINE	BEARING	DISTANCE
L1	N29°39'54"W	1537.09'
L2	S17°26'27"W	1407.41'



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

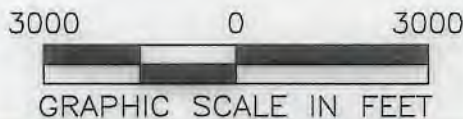


SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4463498.74 EASTING: 539503.62
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4463438.84 EASTING: 539375.95
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4459756.26 EASTING: 540832.38



NOTES ON SURVEY

- COORDINATE 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/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD
- 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 THE LIMITS OF DISTURBANCE.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.



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

COMPANY: **SWN** Production Company, LLC

<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 SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>STATE OF WV DNR A</p> <p>OPERATOR'S WELL #: BRK 6H</p> <p>API WELL #: 47 009 00297</p> <p>STATE COUNTY PERMIT</p>
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: UPPER OHIO NORTH ELEVATION: 1139.9'

DISTRICT: CROSS CREEK COUNTY: BROOKE QUADRANGLE: STEUBENVILLE EAST, OH

SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR ACREAGE: ±97.50

OIL & GAS ROYALTY OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR ACREAGE: ±97.50

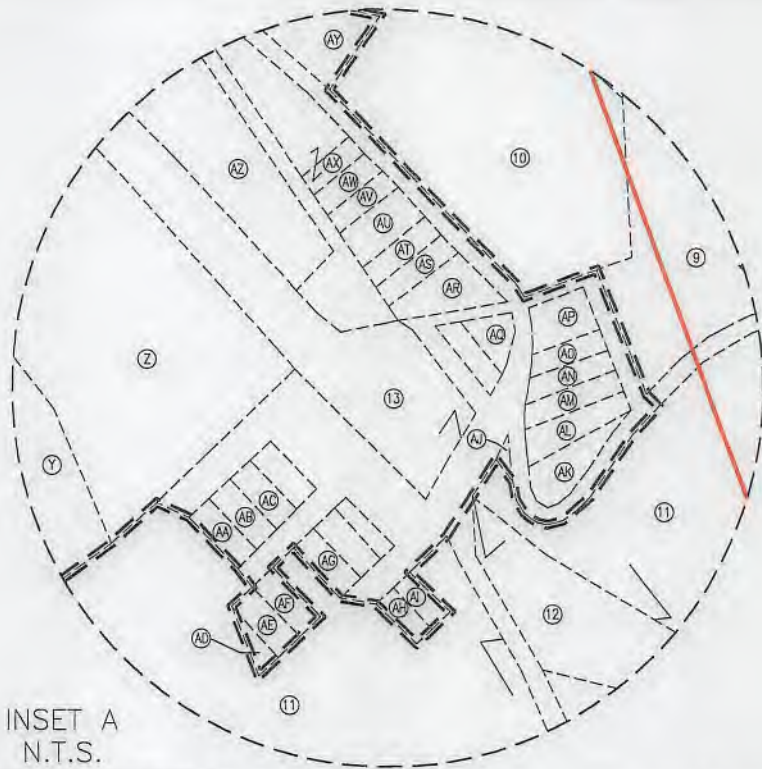
DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,873' TVD 19,112' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

<p>LEGEND:</p> <ul style="list-style-type: none"> PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LPL X LANDING POINT LOCATION TPL X TURNING POINT LOCATION EXISTING WATER WELL EXISTING SPRING NATURAL WATERWAY SURVEYED BOUNDARY LEASE BOUNDARY PROPOSED PATH PUBLIC ROAD 	<p>REVISIONS:</p>	<p>DATE: 10-22-2019</p> <p>API NO: 47-009-XXXX</p> <p>DRAWN BY: R. GRIMES</p> <p>SCALE: 1" = 3000'</p> <p>DRAWING NO: 2019-0789</p> <p>WELL LOCATION PLAT</p>
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INSET A
N.T.S.

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION (S/R)	04-CC16-0007.0001
TRACT	SURFACE OWNER	TAX PARCEL
2	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	04-CC16-0006.0000
3	COLLIERS SPORTSMAN CLUB	04-CC20-0045.0000
4	COLLIERS SPORTSMAN CLUB	04-CC20-0024.0000
5	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	04-CC20-0025.0001
6	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	04-CC20-0025.0000
7	WILLIAM MORGAN & DORIS J. ROUSE	04-CC20-0020.0000
8	DEBORAH K. SLUDAY	04-CC20-0032.0000
9	NICKOLES 3 LLC	04-CC20-0033.0000
10	FRANK & ANNA MAE MCQUILLAN; ANNETTE MILLER (L/E)	04-C24B-0007.0000
11	MICHAEL OBER	04-CC24-0007.0000
12	NORFOLK & WESTERN RAILWAY CO.	04-C19K-0018.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AJ	JAMES & CHARLENE JOHNSON (SURVIVOR)	04-C24B-0010.0000
AK	GREG & CAROL NICKOLES	04-C24B-0011.0000
AL	GREG & CAROL NICKOLES	04-C24B-0012.0000
AM	GREG & CAROL NICKOLES	04-C24B-0013.0000
AN	GREG & CAROL NICKOLES	04-C24B-0014.0000
AO	H3 LLC	04-C24B-0015.0000
AP	NICKOLES 3 LLC	04-CC20-0033.0000
AQ	GREG & CAROL NICKOLES	04-C24B-0016.0000
AR	KATHY E. LAWRENCE	04-C24B-0020.0000
AS	DENNIS F. MCQUILLAN	04-C24B-0021.0000
AT	DENNIS F. MCQUILLAN	04-C24B-0022.0000
AU	ALICE M. STEVENS	04-C24B-0023.0000
AV	FRANKLIN WINSKI	04-C24B-0024.0000
AW	FRANKLIN WINSKI	04-C24B-0025.0000
AX	DEBRA MCQUILLAN ETAL (L/E FRANK L & ANNA MAE MCQUILLAN)	04-C24B-0027.0000
AY	GREGORY NICKOLES	04-C24B-0006.0000
AZ	DEBRA MCQUILLAN ETAL (L/E FRANK L & ANNA MAE MCQUILLAN)	04-C24B-0028.0000
BA	JANE KIERCE	04-C24B-0004.0000
BB	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	04-C24B-0003.0000
BC	EDWARD L. & CAROL J. THOMPSON	04-C24B-0002.0000
BD	JEFFREY, RANDY, & GREGORY NICKOLES (SURVIVOR)	04-C24B-0001.0000
BE	JEFFREY O. NICKOLES	04-CC20-0033.0001
BF	JAMES & CHARLENE JOHNSON (SURVIVOR)	04-CC20-0043.0000
BG	TIMOTHY J. DISERIO	04-CC20-0042.0000
BH	NORFOLK & WESTERN RAILWAY CO.	04-C24B-0029.0000
BI	ROBERT G. HIGGINBOTHAM JR.	04-CC20-0041.0000
BJ	JOHN ERNEST MILLER & JESSE ANDREW (SURVIVOR)	04-CC20-0004.0000
BK	WILLIAM & MILDRED T. MARINO	04-CC20-0035.0000
BL	ROBERT & DELORIS GLINE	04-CC20-0034.0000
BM	LINDY L. & SANTY GALIANO	04-CC20-0019.0001
BN	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0006.0000
BO	COLLIERS SPORTSMAN CLUB	04-CC20-0021.0000
BP	WILLIAM C. & ANNA MAE SAUNDERS	04-CC20-0023.0000
BQ	STACI & PATRICK BREEN (JTWS)	04-CC20-0003.0000
BR	WILLIAM & ANNA MAE SAUNDERS	04-CC20-0002.0000
BS	LINDA BURDISS	04-CC11-0085.0000
BT	DAVID C. DAMI	04-CC20-0001.0001
BU	DAVID C. DAMI	04-CC20-0002.0001
BV	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC19-0168.0000
BW	JASON P. NUZUM	04-CC19-0113.0000
BX	JASON P. NUZUM	04-CC15-0070.0000
BY	PETER D. & RUTH M. BLASKOVICH	04-CC15-0071.0000
BZ	LENORA J. RINEHART	04-CC15-0074.0000
CA	LARRY E. REED	04-CC15-0088.0001
CB	RANDY L. NICKOLES	04-C24B-0008.0000
CC	RANDY L. NICKOLES	04-C24B-0033.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	THE PALFALY IRREVOCABLE TRUST (DENNIS PALFALY III)	04-CC16-0005.0000
B	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC16-0008.0001
C	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC16-0008.0000
D	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0046.0000
E	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0026.0000
F	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0027.0000
G	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0031.0000
H	PENWEIR CONSTRUCTION COMPANY	380-014-00-00-0004
I	PENWEIR CONSTRUCTION COMPANY	380-014-00-00-0003
J	CALVIN H. MYERS JR.	380-014-00-00-0002
K	PITTSBURGH & WEST VIRGINIA RAILROAD CO.	380-014-00-00-0001
L	RANDY L. NICKOLES	380-015-00-00-0019
M	WILLIAM & CAROLYN R ROTELLINI	380-015-00-00-0018
N	*UNKNOWN*	*UNKNOWN*
O	JEFFREY O. NICKOLES	04-C24B-0009.0000
P	PITTSBURGH & WEST VIRGINIA RAILWAY CO.	04-C24F-0014.0000
Q	JERRY & LINDA MCNEELY	380-015-00-00-0001-02
R	ROBERT ROTELLINI & ANDREA L. PUSKARICH	380-015-00-00-0009
S	EUGENE CRUNY	04-CC24-0130.0000
T	DEAN SMITH	04-CC24-0099.0000
U	DEAN SMITH	04-CC24-0098.0000
V	GEORGE L. BRADLEY	04-CC24-0055.0000
W	RAYMOND CROSS, DENNIS P. CROSS, & KATHRYN R. BUTLER	04-CC24-0013.0000
X	WHEELING ENERGY WORKS LTD	04-CC24-0008.0000
Y	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC24-0003.0000
Z	NORFOLK & WESTERN RAILWAY CO.	04-C24B-0029.0000
AA	MICHAEL L. OBER	04-C24F-0001.0000
AB	MARY ELLEN MORRIS	04-C24F-0002.0000
AC	MARY ELLEN MORRIS	04-C24F-0003.0000
AD	*UNKNOWN*	04-C24F-0011.0000
AE	MICHAEL L. OBER	04-C24F-0010.0000
AF	MICHAEL L. OBER	04-C24F-0008.0000
AG	JOSEPH & LINA SANTORO (SURVIVOR)	04-C24F-0005.0000
AH	ROBERT & PEGGY ANKROM (JTWS)	04-C24F-0012.0000
AI	ROBERT & PEGGY ANKROM (JTWS)	04-C24F-0013.0000

47 009 00297

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{R-V+}_A
Production Company™

OPERATOR'S

STATE OF WV DNR A

WELL #:

BRK 6H

DISTRICT:

CROSS CREEK

COUNTY:

BROOKE

STATE:

WV

DATE: 10-22-2019

API NO: 47-009-XXXXX

DRAWN BY: R. GRIMES

SCALE: N/A

DRAWING NO: 2019-0789

WELL LOCATION PLAT

COMPLETION ID 2501166540
PAD ID 3001156588