

(2000' SCALE) LATITUDE: 40°20'00" SURFACE HOLE
9777'

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

5469'



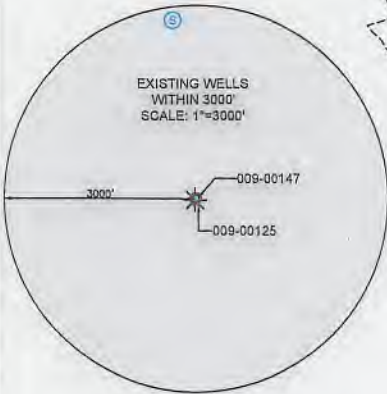
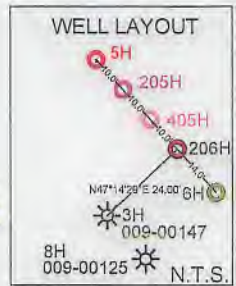
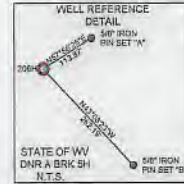
www.jhacompanies.com

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



LINE	BEARING	DISTANCE
L1	N29°46'58"W	1550.98'
L2	S16°56'26"W	1414.58'

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



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.

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4463501.89
EASTING: 539500.63
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4463384.33
EASTING: 539182.27
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4459082.67
EASTING: 540838.08



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 206H</p> <p>API WELL #: 47 009 00299</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)

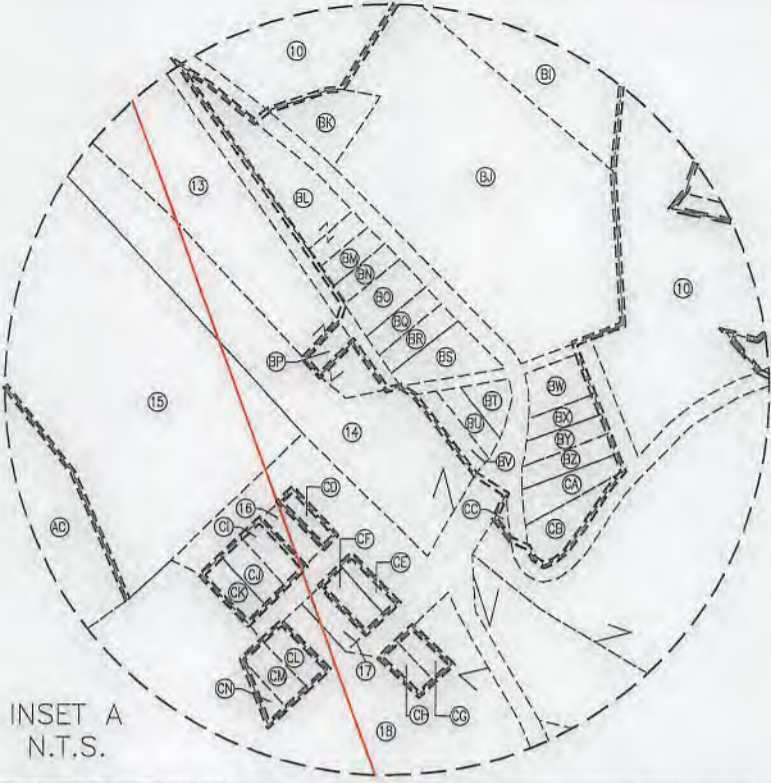
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,894' TVD 21,346' TMD

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	FREDA M. DUNN & ROBERT SAUNDRA (L/E FREDA DUNN)	04-CC20-0001.0000
4	WILLIAM & ANNA MAE SAUNDERS	04-CC20-0002.0000
5	COLLIERS SPORTSMAN CLUB	04-CC20-0024.0000
6	COLLIERS SPORTSMAN CLUB	04-CC20-0021.0000
7	WILLIAM MORGAN & DORIS J. ROUSE	04-CC20-0020.0000
8	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
9	DEBORAH K. SLIDAY	04-CC20-0032.0000
10	NICKOLES 3 LLC	04-CC20-0033.0000
11	JEFFREY O. NICKOLES	04-CC20-0033.0001
12	JANE KIERGE	04-C24B-0004.0000
13	DEBRA MCQUILLAN & ANNETTE MILLER (L/E FRANK L. & ANNA MAE MCQUILLAN)	04-C24B-0028.0000
14	NORFOLK & WESTERN RAILWAY CO.	04-C19K-0018.0000
15	NORFOLK & WESTERN RAILWAY CO.	04-C24B-0029.0000
16	MARY ELLEN MORRIS	04-C24B-0031.0000
17	JOSEPH & LINA SANTORO (SURVIVOR)	04-C24F-0008.0000
18	MICHAEL OBER	04-CC24-0007.0000
19	EUGENE CRUNY	04-CC24-0130.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AF	DEBRA MCQUILLAN ETAL (L/E FRANK L. & ANNA MAE MCQUILLAN)	04-C24B-0027.0000
AG	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	04-C24B-0003.0000
AH	EDWARD L. & CAROL J. THOMPSON	04-C24B-0002.0000
AI	JEFFREY, RANDY, & GREGORY NICKOLES (SURVIVOR)	04-C24B-0001.0000
AJ	JAMES & CHARLENE JOHNSON (SURVIVOR)	04-CC20-0043.0000
AK	TIMOTHY J. DISERIO	04-CC20-0042.0000
AL	NORFOLK & WESTERN RAILWAY CO.	04-C24B-0029.0000
AM	ROBERT G. HIGGINBOTHAM JR.	04-CC20-0041.0000
AN	JOHN ERNEST, JESSE ANDREW MILLER (SURVIVOR)	04-CC20-0004.0000
AO	WILLIAM & MILDRED T. MARINO	04-CC20-0035.0000
AP	ROBERT & DELORIS CLINE	04-CC20-0034.0000
AQ	LINDY L. & SANTY GALJANO	04-CC20-0019.0001
AR	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0006.0000
AS	SUSAN D. & DENNIS M. BREEN	04-CC20-0022.0000
AT	SUSAN D. & DENNIS BREEN (SURVIVOR)	04-CC20-0023.0001
AU	WILLIAM C. & ANNA MAE SAUNDERS	04-CC20-0003.0000
AV	STACI & PATRICK BREEN (JTWS)	04-CC20-0003.0000
AW	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC19-0168.0000
AX	JASON P. NUZUM	04-CC19-0113.0000
AY	JASON P. NUZUM	04-CC15-0070.0000
AZ	PETER D. & RUTH M. BLASKOVICH	04-CC15-0071.0000
BA	LENORA J. RINEHART	04-CC15-0074.0000
BB	LARRY E. REED	04-CC15-0068.0001
BC	DAVID C. DAMI	04-CC20-0002.0001
BD	DAVID C. DAMI	04-CC20-0001.0001
BE	COLLIERS SPORTSMAN'S CLUB	04-CC20-0046.0000
BF	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0006.0000
BG	RANDY L. NICKOLES	04-C24B-0008.0000
BH	RANDY L. NICKOLES	04-C24B-0033.0000
BI	NICKOLES 3 LLC	04-CC20-0033.0000
BJ	ANNETTE MILLER (L/E FRANK & ANNA MAE MCQUILLAN)	04-CC20-0001.0001
BK	GREGORY NICKOLES	04-C24B-0006.0000
BL	DEBRA MCQUILLAN ETAL (L/E FRANK & ANNA MAE MCQUILLAN)	04-C24B-0027.0000
BM	FRANKLIN WINSKI	04-C24B-0025.0000
BN	FRANKLIN WINSKI	04-C24B-0024.0000
BO	ALICE M. STEVENS	04-C24B-0023.0000
BP	DEBRA MCQUILLAN & ANNETTE MILLER (L/E FRANK L. & ANNA MAE MCQUILLAN)	04-C24B-0019.0000
BQ	DENNIS F. MCQUILLAN	04-C24B-0022.0000
BR	DENNIS F. MCQUILLAN	04-C24B-0021.0000
BS	KATHY E. LAWRENCE	04-C24B-0020.0000
BT	GREG & CAROL NICKOLES	04-C24B-0016.0000
BU	GREG & CAROL NICKOLES	04-C24B-0017.0000
BV	GREG & CAROL NICKOLES	04-C24B-0018.0000
BW	NICKOLES 3 LLC	04-CC20-0033.0000
BX	H3 LLC	04-C24B-0015.0000
BY	GREG & CAROL NICKOLES	04-C24B-0014.0000
BZ	GREG & CAROL NICKOLES	04-C24B-0013.0000
CA	GREG & CAROL NICKOLES	04-C24B-0012.0000
CB	GREG & CAROL NICKOLES	04-C24B-0011.0000
CC	JAMES & CHARLENE JOHNSON (SURVIVOR)	04-C24B-0010.0000
CD	MARY ELLEN MORRIS	04-C24B-0003.0000
CE	ROBERT & PEGGY ANKROM (JTWS)	04-C24F-0006.0000
CF	ROBERT & PEGGY ANKROM (JTWS)	04-C24F-0007.0000
CG	ROBERT & PEGGY ANKROM (JTWS)	04-C24F-0013.0000
CH	ROBERT & PEGGY ANKROM (JTWS)	04-C24F-0012.0000
CI	MARY ELLEN MORRIS	04-C24F-0002.0000
CJ	MARY ELLEN MORRIS	04-C24B-0003.0000
CK	MICHAEL L. OBER	04-C24F-0001.0000
CL	MICHAEL L. OBER	04-C24F-0009.0000
CM	MICHAEL L. OBER	04-C24F-0010.0000
CN	*UNKNOWN*	04-C24F-0011.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	THE PALFALVY IRREVOCABLE TRUST (DENNIS PALFALVY 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	380-015-00-00-0018-01
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 & JERAM A. JOSEPH	380-015-00-00-0008
T	EUGENE CRUNY & JERAM A. JOSEPH	370-001-00-00-0016
U	DANIEL BANDVICH	370-001-00-00-0001
V	BROWNLEE LAND VENTURES	370-001-00-00-0015
W	STARVAGGI INDUSTRIES	04-CC24-0129.0000
X	DEAN SMITH	04-CC24-0099.0000
Y	DEAN SMITH	04-CC24-0098.0000
Z	GEORGE L. BRADLEY	04-CC24-0055.0000
AA	RAYMOND CROSS, DENNIS P. CROSS, & KATHRYN R. BUTLER	04-CC24-0013.0000
AB	WHEELING ENERGY WORKS LTD	04-CC24-0008.0000
AC	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC24-0003.0000
AD	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC23-0325.0000
AE	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	04-C24B-0005.0000

47 00900299

REVISIONS:	COMPANY: SWN Production Company, LLC		DATE: 10-22-2019	
	OPERATOR'S: STATE OF WV DNR A		API NO: 47-009-XXXXX	
	WELL #: BRK 206H		DRAWN BY: R. GRIMES	
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	SCALE: N/A
				DRAWING NO: 2019-0789
				WELL LOCATION PLAT