

(2,000' SCALE) LATITUDE: 39°45'30" BOTTOM HOLE

5224'

(2,000' SCALE) LATITUDE: 39°42'30" SURFACE HOLE

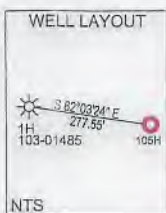
4118'



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 525 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.



LINE	BEARING	DISTANCE
L1	N 73°03'07" E	1310.18'
L2	N 50°02'33" E	626.82'

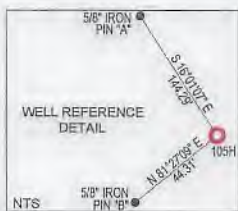
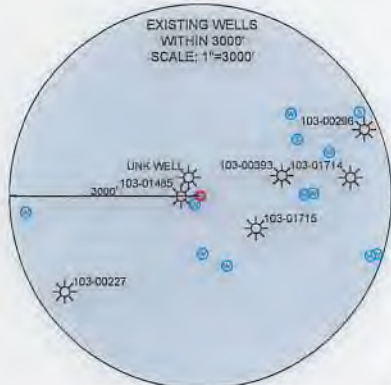
GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, US FT

9,398'

12025'

(2,000' SCALE) LONGITUDE: -80°37'30" SURFACE HOLE

(2,000' SCALE) LONGITUDE: -80°40'00" BOTTOM HOLE



<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4392582.32 EASTING: 530900.09
<b>LANDING POINT (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4392749.35 EASTING: 531023.17
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4396389.58 EASTING: 526980.26



3000 0 3000

GRAPHIC SCALE IN FEET

COMPANY: **SWN** Production Company, LLC

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.

*Howard D. Kemp*  
8/16/18

P.S. 2041

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL &amp; 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>COMPANY: SWN A UD</p> <p>OPERATOR'S WELL #: WTZ 105H</p> <p>API WELL #: 47 STATE 103 COUNTY 03250 PERMIT</p>
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WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,342.0'

DISTRICT: PROCTOR COUNTY: WETZEL QUADRANGLE: WILEYVILLE, WV

SURFACE OWNER: SWN PRODUCTION COMPANY, LLC ACREAGE: ±128.24

OIL & GAS ROYALTY OWNER: ISAAC L. CARNEY & MARY CARNEY, HIS WIFE & ET AL ACREAGE: ±128.24

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: BURKET SHALE ESTIMATED DEPTH: 7,209' TVD 25,491.1' 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

<p>LEGEND:</p> <ul style="list-style-type: none"> <li>PROPOSED SURFACE HOLE / BOTTOM HOLE</li> <li>EXISTING / PRODUCING WELLHEAD</li> <li>LPL: LANDING POINT LOCATION</li> <li>EXISTING WATER WELL</li> <li>EXISTING SPRING</li> <li>SURVEYED BOUNDARY</li> <li>DRILLING UNIT</li> <li>LEASE BOUNDARY</li> <li>PROPOSED PATH</li> </ul>	<p>REVISIONS:</p> <p>REVISED DESIGNATED AGENT</p> <p>DATE: 08-21-2018</p> <p>DRAWN BY: C. WEHR</p> <p>SCALE: 1" = 3000'</p> <p>DRAWING NO: 2016-519</p> <p>WELL LOCATION PLAT</p>
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WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	SWN PRODUCTION COMPANY, LLC (S) ISAAC L. CARNEY & MARY CARNEY, HIS WIFE & ET AL (R)	12-10-29
TRACT	SURFACE OWNER	TAX PARCEL
2	RODNEY A. CALVERT	12-10-29.5
3	GARY C. YOCUM AND LAVERNE YOCUM (LIFE ESTATE), AND CHRIS B. YOCUM (REMAINDERMAN)	12-15-9
4	NORMA F. YOHO	1-7-40
5	JACOB BICKERSTAFF & ANNA BICKERSTAFF, HUSBAND AND WIFE	12-10-29.2
6	DARREN YOHO; KEVIN YOHO; BRADLEY YOHO; JEFFERY YOHO; DEBORAH YOHO	12-10-16
7	SWN PRODUCTION COMPANY, LLC	12-10-15
8	SWN PRODUCTION COMPANY, LLC	12-10-11
9	SWN PRODUCTION COMPANY, LLC	12-10-10
10	MILLTREE PROPERTIES, LLC	12-10-9
11	MILLTREE PROPERTIES, LLC	12-10-2
12	MILLTREE PROPERTIES, LLC	12-10-3
13	ANDREW D. SHULUGA & ANDREA M. SHULUGA, HUSBAND AND WIFE, AND UNTO THE SURVIVOR OF THEM	12-10-1
14	RICHARD W. MASTNEY & MARK MASSARI	12-5-29
15	MARK MASSARI	12-4-38
16	JAMES L. RITCHEA & HAZEL JORETTA RITCHEA	12-4-39
17	CLAUDIA MECKEL-JONAS & ET AL	12-4-27
18	CHRISTOPHER P. BITHILL	12-4-26
19	CHRISTOPHER P. BITHILL	12-4-17
20	NANCY RABER & ET AL	12-4-16
21	NANCY RABER & ET AL	12-4-6
22	TAMI M. BLATT; MICHAEL J. BLATT; KEVIN L. BLATT, TRUSTEE	12-4-5

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	RODNEY CALVERT	12-10-29.3
B	RODNEY CALVERT	12-10-29.4
C	RODNEY CALVERT & ET AL	12-10-29.1
D	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-10-33
E	SWN PRODUCTION COMPANY, LLC	12-10-28
F	ROBERT C. RITCHEA & JAMES L. RITCHEA	12-10-22
G	SWN PRODUCTION COMPANY, LLC	12-10-14
H	COURTNEY E. RICHMOND & RHEA K. RICHMOND, HIS WIFE	12-10-13
I	ANDREW D. & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST UNDER DATE OF JANUARY 8/2103	12-10-9.1
J	MILLTREE PROPERTIES, LLC	12-10-1.1
K	ANDREW D. & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST UNDER DATE OF JANUARY 8/2103	12-9-15
L	ANDREW D. & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST UNDER DATE OF JANUARY 8/2103	12-9-9
M	ANDREW D. & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST UNDER DATE OF JANUARY 8/2103	12-9-8
N	CHRISTOPHER P. BITHILL	12-4-37
O	WILLIAM WAGNER AND BARBARA WAGNER, LIFE TENANTS AND TO THE SURVIVOR OF THEM, AND ROBERTA BROOKS AND HEATHER BRINK (REMAINDERMEN)	12-4-36
P	CHRISTOPHER P. BITHILL	12-4-35
Q	JOHN H. MORGAN & SUE M. MORGAN, TRUSTEES, U/T/A, DATED JUNE 10, 1992 F/B/O THE MORGAN FAMILY	12-4-34
R	SHIBEN ESTATES	12-4-25
S	ANTHONY C. BLATT & REBECCA F. BLATT	12-4-15
T	ANTHONY C. BLATT & REBECCA F. BLATT	12-4-14
U	TAMI M. BLATT; MICHAEL J. BLATT; KEVIN L. BLATT, TRUSTEE	12-4-4
V	KIMBERLY C. HOFFMAN	12-4-40
W	ZACHARY M. BLAIR	9-21-20
X	ZACHARY M. BLAIR	9-21-19
Y	N/A	9-21-15
Z	ZACHARY M. BLAIR	9-21-13
AA	MASON DIXON FARMS	9-21-12
AB	NANCY RABER & ET AL	12-4-7
AC	JOHN STULGA	12-4-19
AD	SCHOOL	12-4-18
AE	CLAUDIA MECKEL-JONAS & ET AL	12-4-28
AF	HENRY J. SUNDA; HERBERT SIVERT, ET AL	12-4-29
AG	MILLTREE PROPERTIES, LLC	12-5-21
AH	RICHARD W. MASTNEY & MARK MASSARI	12-5-20
AI	MILLTREE PROPERTIES, LLC	12-5-25
AJ	MILLTREE PROPERTIES, LLC	12-5-26
AK	SWN PRODUCTION COMPANY, LLC, ET AL	12-10-5
AL	SWN PRODUCTION COMPANY, LLC	12-10-6
AM	FREDA TAYLOR, CALVIN TAYLOR, CHARLOTTE MARS, NILA ISABELLA, OPHIA GUNTER, AND LEWIS SHERWOOD TAYLOR	12-10-4
AN	BRADLEY SCOTT YOHO	12-10-12
AD	BRADLEY SCOTT YOHO	12-10-18
AP	DEBORAH D. SHOWALTER & ET AL	12-10-17
AQ	DEBORAH D. SHOWALTER & ET AL	12-10-18
AR	CORY DURIG & DAVID DURIG	1-07-2
AS	SUSAN ANNETT SMITH	1-7-3
AT	SUSAN ANNETT SMITH	1-7-3.1
AU	JOHN J. YEAGER & ET AL	1-7-9.2
AV	ERIC L. YEATER & AMANDA J. YEATER, HUSBAND AND WIFE	12-10-34
AW	HAESSLY LAND AND TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-15-11
AX	HAESSLY LAND AND TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-15-10
AY	JOSEPH C. DREYER	12-15-8
AZ	JEFFREY J. YOHO	12-10-18.1

REVISIONS:

COMPANY:

**SWN**  
Production Company, LLC

**SWN** *R<sub>2</sub>-m/V+0*  
Production Company™

OPERATOR'S SWN A UD  
WELL #: WTZ 105H

DATE: 08-21-2018

DISTRICT:  
PROCTOR

COUNTY:  
WETZEL

STATE:  
WV

DRAWN BY: C. WEHR

SCALE: N/A

DRAWING NO: 2016-519

WELL LOCATION PLAT

PROPERTY NUMBER 2501169570  
PAD ID 3001164597