

(2,000' SCALE) LATITUDE: 39°45'00" BOTTOM HOLE
 (2,000' SCALE) LATITUDE: 39°42'30" SURFACE HOLE

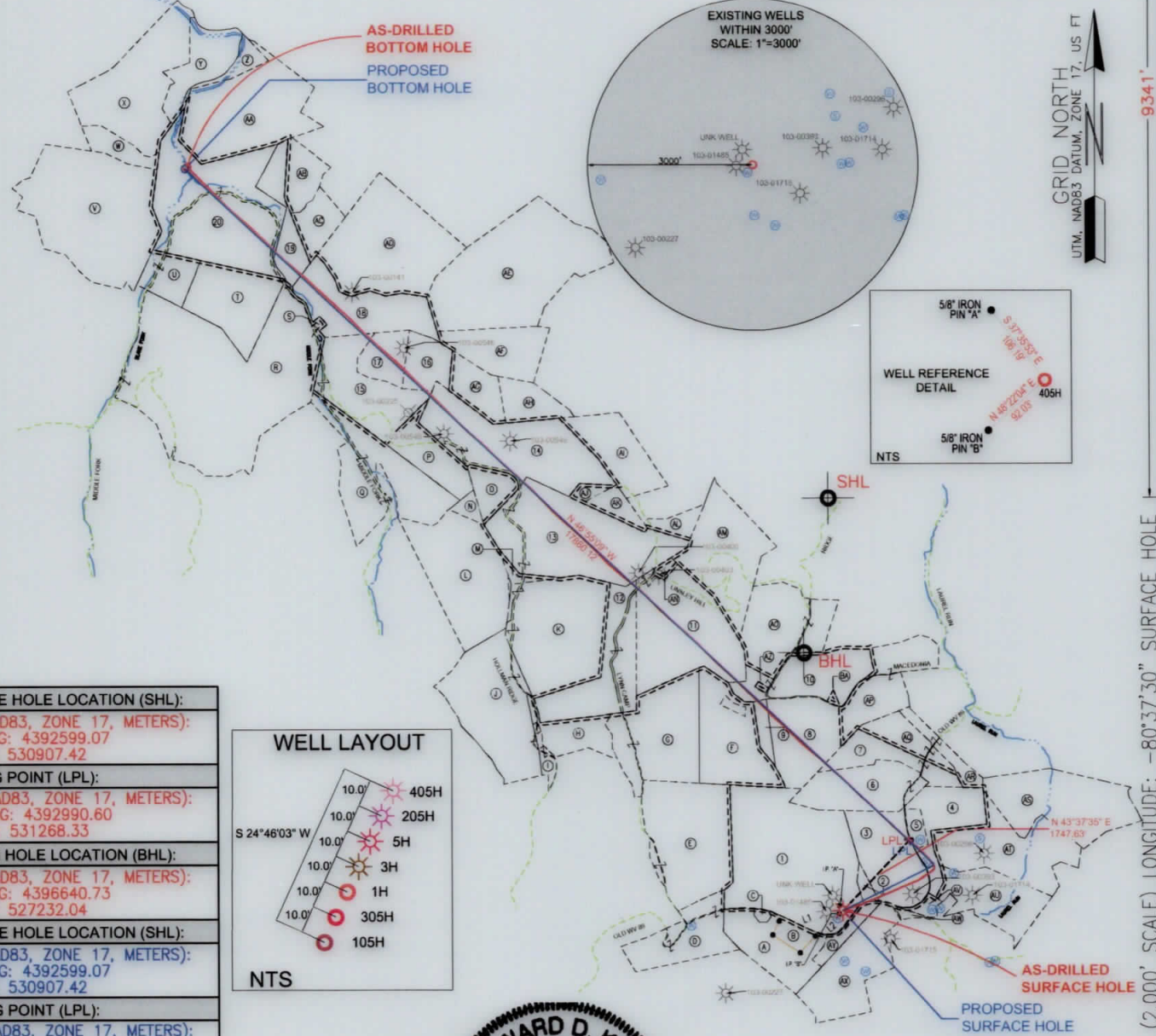
4397'
 4097'

JHA COMPANIES
 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 GIS MAPPING
 www.jhacompanies.com
 58011 Vineyard Road
 St. Clairsville, Ohio 43950
 740-695-6100

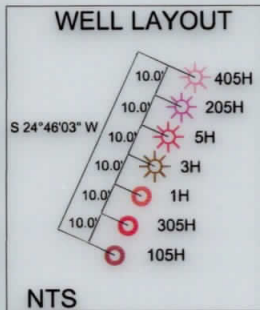
LINE	BEARING	DISTANCE
L1	N 71°08'48" E	1350.71'
L2	N 47°52'27" E	681.49'

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.



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4392599.07 EASTING: 530907.42
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4392990.60 EASTING: 531268.33
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4396640.73 EASTING: 527232.04
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4392599.07 EASTING: 530907.42
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4392982.86 EASTING: 531277.06
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4396632.99 EASTING: 527223.30



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
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

COMPANY: **SWN** Production Company, LLC

SWN A
 OPERATOR'S WELL #: WTZ 405H
 API WELL #: 47 STATE 103 COUNTY 03253 PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,344'

DISTRICT: PROCTOR COUNTY: WETZEL QUADRANGLE: WILEYVILLE, WV

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

OIL & GAS ROYALTY OWNER: RODNEY CALVERT, 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) AS-DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,359' TVD 25,954' TMD

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

DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:

	EXISTING BOTTOM HOLE		ACCESS ROAD
	EXISTING / PRODUCING WELLHEAD		PUBLIC ROAD
	EXISTING LANDING POINT LOCATION		FLOOD PLAIN
	PROPOSED SURFACE HOLE / BOTTOM HOLE		LEASE BOUNDARY
	PROPOSED LANDING POINT LOCATION		ASDRILLED PATH
			PROPOSED PATH

REVISIONS:	DATE:
	05-04-2020
	DRAWN BY: R. GRIMES
	SCALE: 1" = 3000'
	DRAWING NO: 2016-519
	WELL LOCATION PLAT

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	SWN PRODUCTION COMPANY, LLC (S) RODNEY CALVERT, ET AL (R)	12-10-29
TRACT	SURFACE OWNER	TAX PARCEL
2	JACOB & ANNA BICKERSTAFF	12-10-29.2
3	NORMA F. YOCUM	01-7-40
4	SUSAN ANNETT SMITH	01-7-3
5	SUSAN ANNETT SMITH	01-7-3.1
6	CORY & DAVID DURIG	01-7-2
7	CORY & DAVID DURIG	01-7-1
8	DEBORAH D. SHOWALTER	12-10-18
9	DEBORAH D. SHOWALTER	12-10-17
10	BRADLEY SCOTT YOHO	12-10-19
11	SWN PRODUCTION COMPANY, LLC	12-10-11
12	SWN PRODUCTION COMPANY, LLC	12-10-10
13	MILLTREE PROPERTIES, LLC	12-10-3
14	MILLTREE PROPERTIES, LLC	12-5-21
15	CLAUDIA JONAS-MECKEL & ET AL	12-4-27
16	HERBERT O. NICHOLSON	12-4-29
17	CLAUDIA JONAS-MECKEL & ET AL	12-4-28
18	JOHN STULGA	12-4-19
19	NANCY RABER & ET AL	12-4-7
20	NANCY RABER & ET AL	12-4-6

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	RODNEY A. CALVERT	12-10-29.3
B	RODNEY A. CALVERT	12-10-29.4
C	RODNEY CALVERT & ET AL	12-10-29.1
D	HAESSLY LAND & TIMBER, LLC	12-10-33
E	SWN PRODUCTION COMPANY, LLC	12-10-28
F	KEVIN M. YOHO	12-10-16
G	SWN PRODUCTION COMPANY, LLC	12-10-15
H	SWN PRODUCTION COMPANY, LLC	12-10-14
I	COURTNEY E. & RHEA K. RICHMOND	12-10-21
J	COURTNEY E. & RHEA K. RICHMOND	12-10-13
K	MILLTREE PROPERTIES, LLC	12-10-9
L	ANDREW D. & ANDREA M. SHULUGA REVOCABLE TRUST	12-10-1
M	MILLTREE PROPERTIES, LLC	12-10-2
N	RICHARD W. MASTNEY & MARK MASSARI	12-5-29
O	RICHARD W. MASTNEY & MARK MASSARI	12-5-20
P	JAMES L. RITCHEA & HAZEL JORETTA RITCHEA	12-4-39
Q	MARK MASSARI	12-4-38
R	CHRISTOPHER P. BITHELL	12-4-26
S	SCHOOL	12-4-18
T	CHRISTOPHER P. BITHELL	12-4-17
U	NANCY RABER & ET AL	12-4-16
V	KEVIN L. BLATT (TRUSTEE): BLATT FAMILY IRREVOCABLE TRUST	12-4-5
W	ZACHARY M. BLAIR	09-21-20
X	ZACHARY M. BLAIR	09-21-19
Y	XXXXX	09-21-15
Z	ZACHARY M. BLAIR	09-21-13
AA	MASON DIXON FARMS, LLC	09-21-12
AB	SARAH V. RICHMOND	12-4-8
AC	NANCY RABER & ET AL	12-4-10
AD	CRAIG & CAROL NORDBERG	12-4-11
AE	MASON DIXON FARMS, LLC	12-5-7
AF	MASON DIXON FARMS, LLC	12-5-12
AG	MILLTREE PROPERTIES, LLC	12-5-14
AH	AUGUSTUS R. MCMAHON, III	12-5-15
AI	DANIEL F. & RHONDA K. DURIG	12-5-22
AJ	MILLTREE PROPERTIES, LLC	12-5-25
AK	MILLTREE PROPERTIES, LLC	12-5-26
AL	SWN PRODUCTION COMPANY, LLC	12-10-5
AM	SWN PRODUCTION COMPANY, LLC	12-10-6
AN	ZONA L. TAYLOR	12-10-4
AO	BRADLEY SCOTT YOHO	12-10-12
AP	C.L. YOHO	01-4-37
AQ	CORY & DAVID DURIG	01-4-38
AR	CORY & DAVID DURIG	01-4-39
AS	COASTAL FOREST RESOURCES COMPANY	01-7-5
AT	ERIC L. & AMANDA J. YEATER	01-7-10
AU	ERIC L. & AMANDA J. YEATER	01-7-9
AV	TERRY W. & DORIS YEATER	01-7-9.2
AW	ERIC L. & AMANDA J. YEATER	12-10-34
AX	CRIS B. YOCUM (L/E: GARY & LAVERNE YOCUM)	12-15-9
AY	RODNEY A. CALVERT	12-10-29.5
AZ	DEBORAH D. SHOWALTER	12-10-19.1
BA	RYAN ALLEN YOHO	12-10-19.2

REVISIONS:

COMPANY:

SWN
Production Company, LLC

swn ^{R⁺} ^A ^{V⁺}
Production Company™

OPERATOR'S

SWN A

DATE: 05-04-2020

WELL #:

WTZ 405H

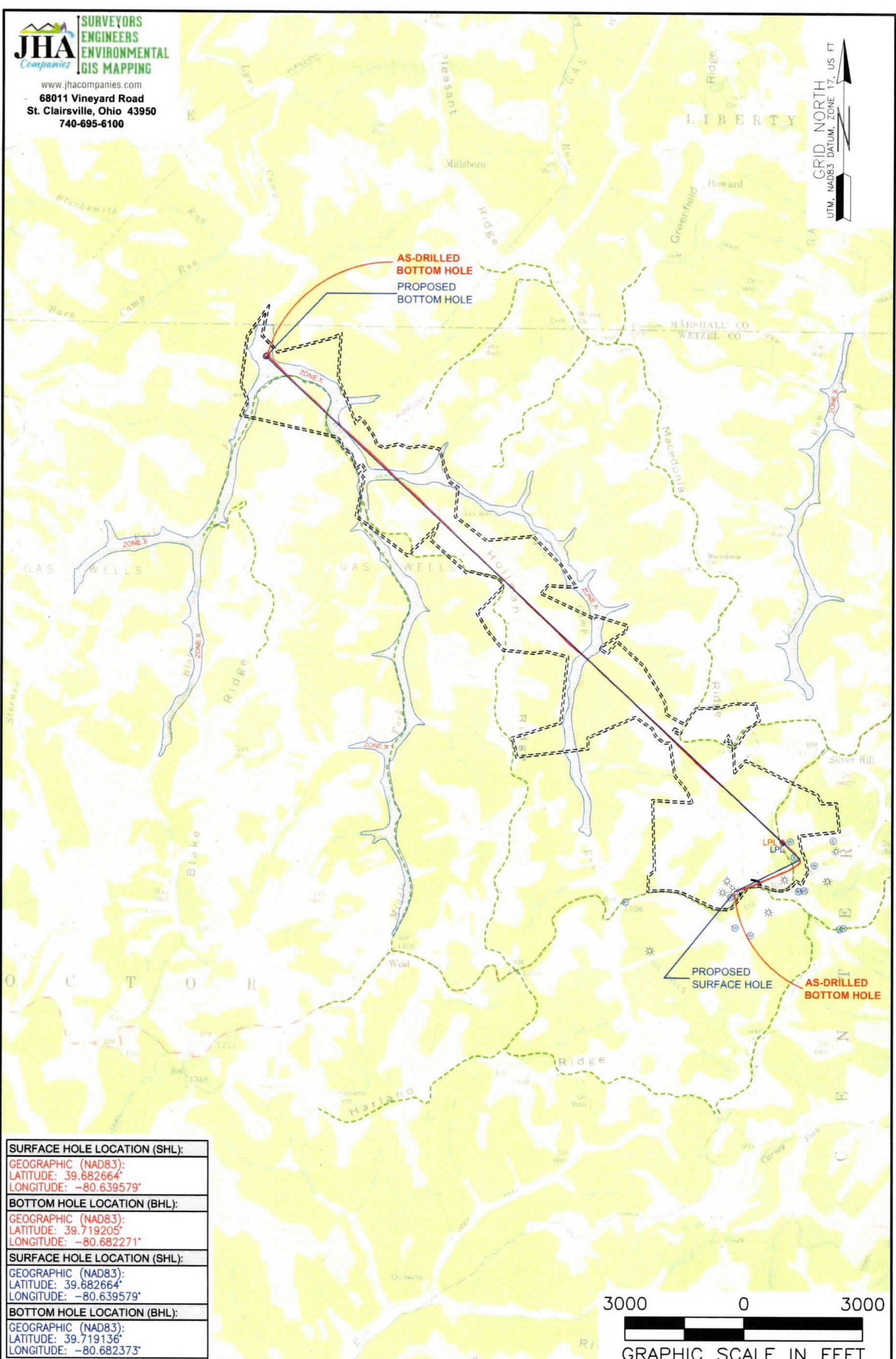
DRAWN BY: R. GRIMES

DISTRICT:
PROCTOR

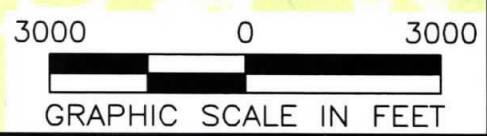
COUNTY:
WEITZEL

STATE:
WV

SCALE: N/A
DRAWING NO: 2016-519
WELL LOCATION PLAT



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.682664° LONGITUDE: -80.639579°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.719205° LONGITUDE: -80.682271°
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.682664° LONGITUDE: -80.639579°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.719136° LONGITUDE: -80.682373°



NOTES ON SURVEY

1. 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.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

- EXISTING BOTTOM HOLE
- ⊙ EXISTING / PRODUCING WELLHEAD
- LPL★ EXISTING LANDING POINT LOCATION
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- LPL★ PROPOSED LANDING POINT LOCATION
- ACCESS ROAD
- - - PUBLIC ROAD
- FLOOD PLAIN
- LEASE BOUNDARY
- ASDRILLED PATH
- PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: SWN A WTZ	WELL # 405H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN WV, 26508	COUNTY - CODE WETZEL - 103	DISTRICT; PROCTOR	API # 47-103-03253
SURFACE OWNER: SWN PRODUCTION COMPANY, LLC	USGS 7 1/2 QUADRANGLE MAP NAME WILEYVILLE, WV		