

LATITUDE: 39°42'30" BOTTOM HOLE 12767'

LATITUDE: 39°42'30" SURFACE HOLE

4102'

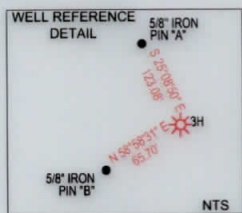


www.jhacompanies.com

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

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.



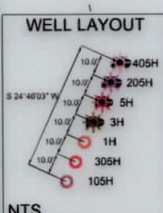
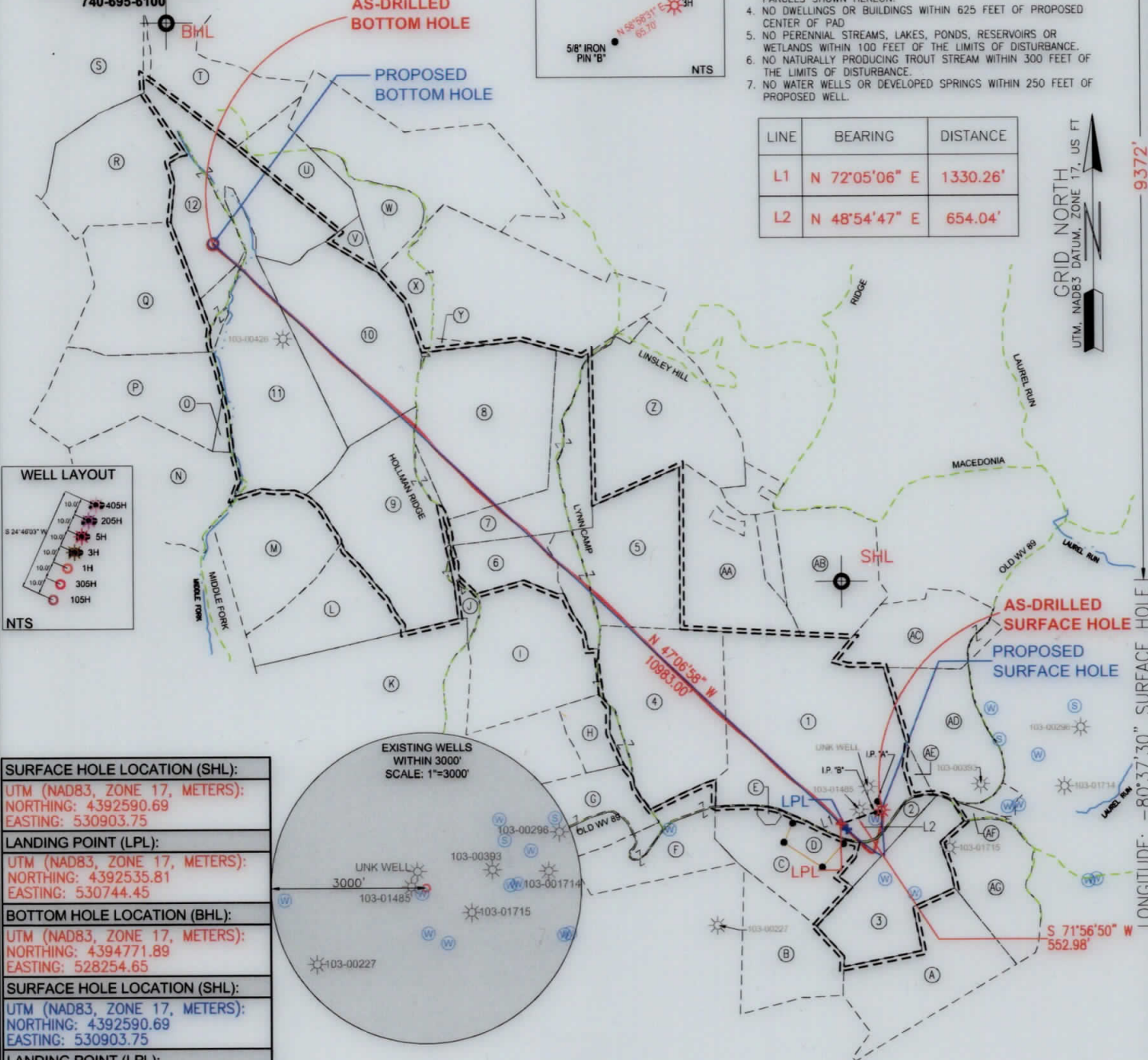
LINE	BEARING	DISTANCE
L1	N 72°05'06" E	1330.26'
L2	N 48°54'47" E	654.04'

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

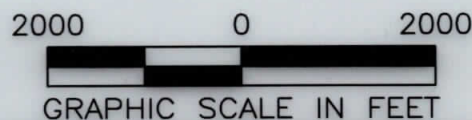
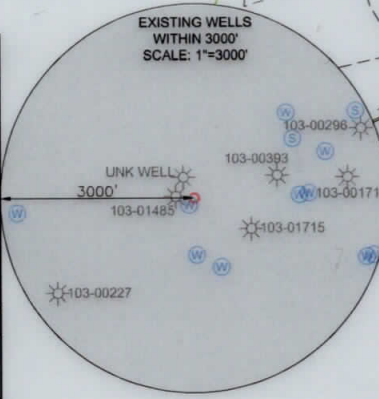
LONGITUDE: -80°37'30" BOTTOM HOLE

9372'

LONGITUDE: -80°37'30" SURFACE HOLE



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4392590.69 EASTING: 530903.75
LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4392535.81 EASTING: 530744.45
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4394771.89 EASTING: 528254.65
SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4392590.69 EASTING: 530903.75
LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4392514.98 EASTING: 530769.96
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4394776.37 EASTING: 528258.30



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 ^{RC} Production Company, LLC		
OPERATOR'S WELL #:	SWN A WTZ 3H		
API WELL #:	47	103	03232
	STATE	COUNTY	PERMIT

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

WATERSHED: UPPER OHIO SOUTH DISTRICT: PROCTOR COUNTY: WETZEL ELEVATION: 1,344.0'

SURFACE OWNER: SWN PRODUCTION COMPANY, LLC QUADRANGLE: WILEYVILLE, WV

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: 7,374' TVD 18,720' 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


LEGEND:

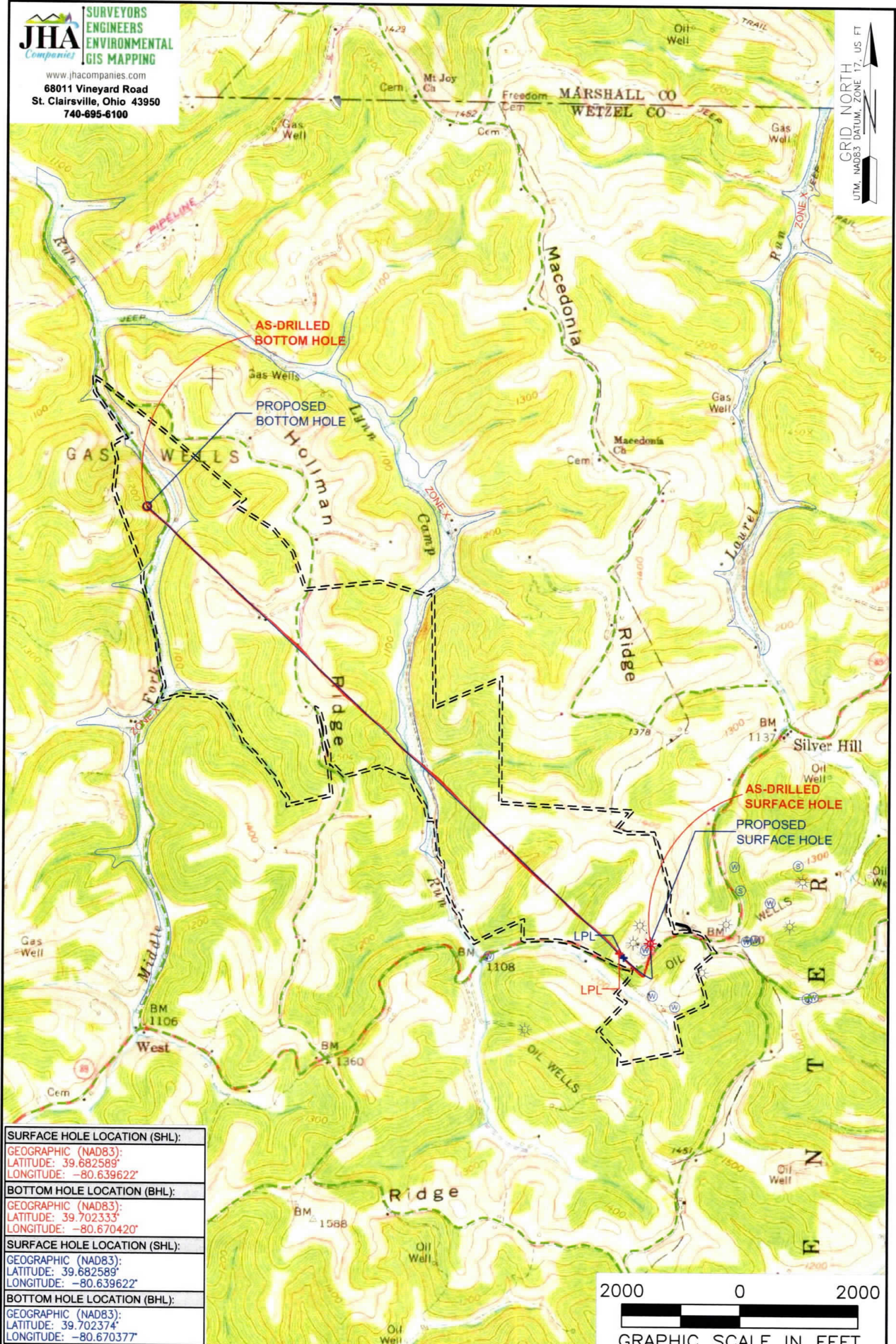
EXISTING BOTTOM HOLE	ACCESS ROAD
EXISTING / PRODUCING WELLHEAD	PUBLIC ROAD
EXISTING LANDING POINT LOCATION	FLOOD PLAIN
PROPOSED SURFACE HOLE / BOTTOM HOLE	LEASE BOUNDARY
PROPOSED LANDING POINT LOCATION	ASDRILLED PATH
	PROPOSED PATH

REVISIONS:	DATE: 05-04-2020
	DRAWN BY: R. GRIMES
	SCALE: 1" = 2000'
	DRAWING NO: 2016-519
	WELL LOCATION PLAT

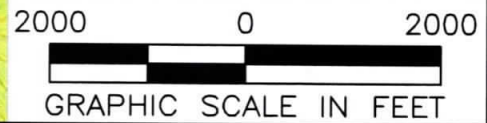
WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	SWN PRODUCTION COMPANY, LLC (S) RODNEY CALVERT, ET AL (R)	12-10-29
TRACT	SURFACE OWNER	TAX PARCEL
2	RODNEY A. CALVERT	12-10-29.5
3	GARY G. YOCUM & LAVERNE F. YOCUM (LIFE ESTATE); CHRIS B. YOCUM (REMIOANDERMAN)	12-15-9
4	SWN PRODUCTION COMPANY, LLC	12-10-28
5	SWN PRODUCTION COMPANY, LLC	12-10-15
6	SWN PRODUCTION COMPANY, LLC	12-10-14
7	SWN PRODUCTION COMPANY, LLC	12-10-10
8	MILLTREE PROPERTIES, LLC	12-10-9
9	COURTNEY E. RICHMOND & RHEA K. RICHMOND, HIS WIFE	12-10-13
10	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST UDER DATE OF JANUARY 8, 2013	12-10-10
11	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST UDER DATE OF JANUARY 8, 2013	12-9-15
12	MARK MASSARI	12-4-38

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-15-10
B	JOSEPH C. DREYER	12-15-8
C	RODNEY A. CALVERT	12-10-29.3
D	RODNEY A. CALVERT	12-10-29.4
E	RODNEY CALVERT & ET AL	12-10-29.1
F	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-10-33
G	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-10-32
H	SWN PRODUCTION COMPANY, LLC	12-10-27
I	ROBERT C. RITCHEA & JAMES L. RITCHEA	12-10-22
J	ROBERT A. ROGERS & SUSAN J. ROGERS, HUSBAND AND WIFE, AND UNTO THE SURVIVOR OF THEM	12-10-21
K	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-10-23
L	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-10-20
M	MICHAEL ALLEN HUGGINS, PATRICK WANE HUGGINS & JOSEPH DEAN HUGGINS	12-9-23
N	WAYNE L. GODDARD	12-9-22
O	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST	12-9-14
P	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST	12-9-13
Q	ANDREW D. SHULUGA & ANDREA M. SHULUGA, CO-TRUSTEES OF THE ANDREW D. SHULUGA AND ANDREA M. SHULUGA REVOCABLE TRUST	12-9-8
R	JAMES L. BITHELL, FATHER & CHRISTOPHER P. BITHELL, SON, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	12-4-37
S	JAMES L. BITHELL, FATHER & CHRISTOPHER P. BITHELL, SON, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	12-4-26
T	CLAUDIA MECKEL-JONAS; ROBERT MECKEL; & ASTRID MECKEL-HAUPT, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	12-4-27
U	JAMES L. RITCHEA & HAZEL JORETTA RITCHEA	12-4-39
V	ROY L. WALTER, JR. & CHRIS WALTER, HUSBAND AND WIFE, AND UNTO THE SURVIVOR OF THEM	12-5-29
W	RICHARD W. MASTNEY & MARK MASSARI	12-5-20
X	ROBERT A. STOUT & SHERI L. STOUT, HUSBAND AND WIFE, AND UNTO THE SURVIVOR OF THEM	12-10-3
Y	ROBERT A. STOUT & SHERI L. STOUT, HUSBAND AND WIFE, AND UNTO THE SURVIVOR OF THEM	12-10-2
Z	SWN PRODUCTION COMPANY, LLC	12-10-11
AA	DARREN YOHO; KEVIN YOHO; BRADLEY YOHO; JEFFREY YOHO; DEBORAH YOHO	12-10-16
AB	DARREN YOHO; KEVIN YOHO; BRADLEY YOHO; JEFFREY YOHO; DEBORAH YOHO	12-10-18
AC	CORY DURIG & DAVID DURIG	01-07-2
AD	NORMA F. YOHO	01-07-40
AE	JACOB BICKERSTAFF & ANNA BICKERSTAFF, HUSBAND AND WIFE	12-10-29.2
AF	ERIC L. YEATER & AMANDA J. YEATER, HUSBAND AND WIFE	12-10-34
AG	HAESSLY LAND & TIMBER, LLC, AN OHIO LIMITED LIABILITY COMPANY	12-15-11

REVISIONS:	COMPANY:		
			
	OPERATOR'S	SWN A	DATE: 05-04-2020
	WELL #:	WTZ 3H	DRAWN BY: R. GRIMES
	DISTRICT:	COUNTY:	SCALE: N/A
	PROCTOR	WETZEL	DRAWING NO: 2016-519
		STATE:	WV
			WELL LOCATION PLAT



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.682589° LONGITUDE: -80.639622°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.702333° LONGITUDE: -80.670420°
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.682589° LONGITUDE: -80.639622°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.702374° LONGITUDE: -80.670377°



- 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	—	ACCESS ROAD
☼	EXISTING / PRODUCING WELLHEAD	—	PUBLIC ROAD
LPL	EXISTING LANDING POINT LOCATION	⬭	FLOOD PLAIN
○	PROPOSED SURFACE HOLE / BOTTOM HOLE	==	LEASE BOUNDARY
LPL*	PROPOSED LANDING POINT LOCATION	—	ASDRILLED PATH
		—	PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: SWN A WTZ	WELL # 3H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN WV, 26508	COUNTY - CODE WETZEL - 103	DISTRICT; PROCTOR	API # 47-103-03232
SURFACE OWNER: SWN PRODUCTION COMPANY, LLC	USGS 7 1/2 QUADRANGLE MAP NAME WILEYVILLE, WV		