

LATITUDE: 39°42'30" SURFACE HOLE (2000' SCALE)

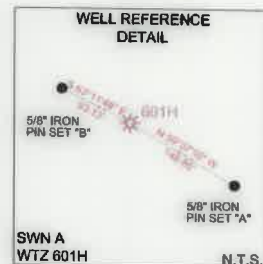
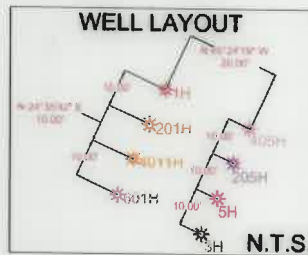
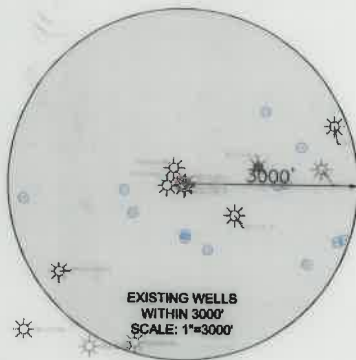
LATITUDE: 39°42'30" BOTTOM HOLE (2000' SCALE)

4137'

2235'

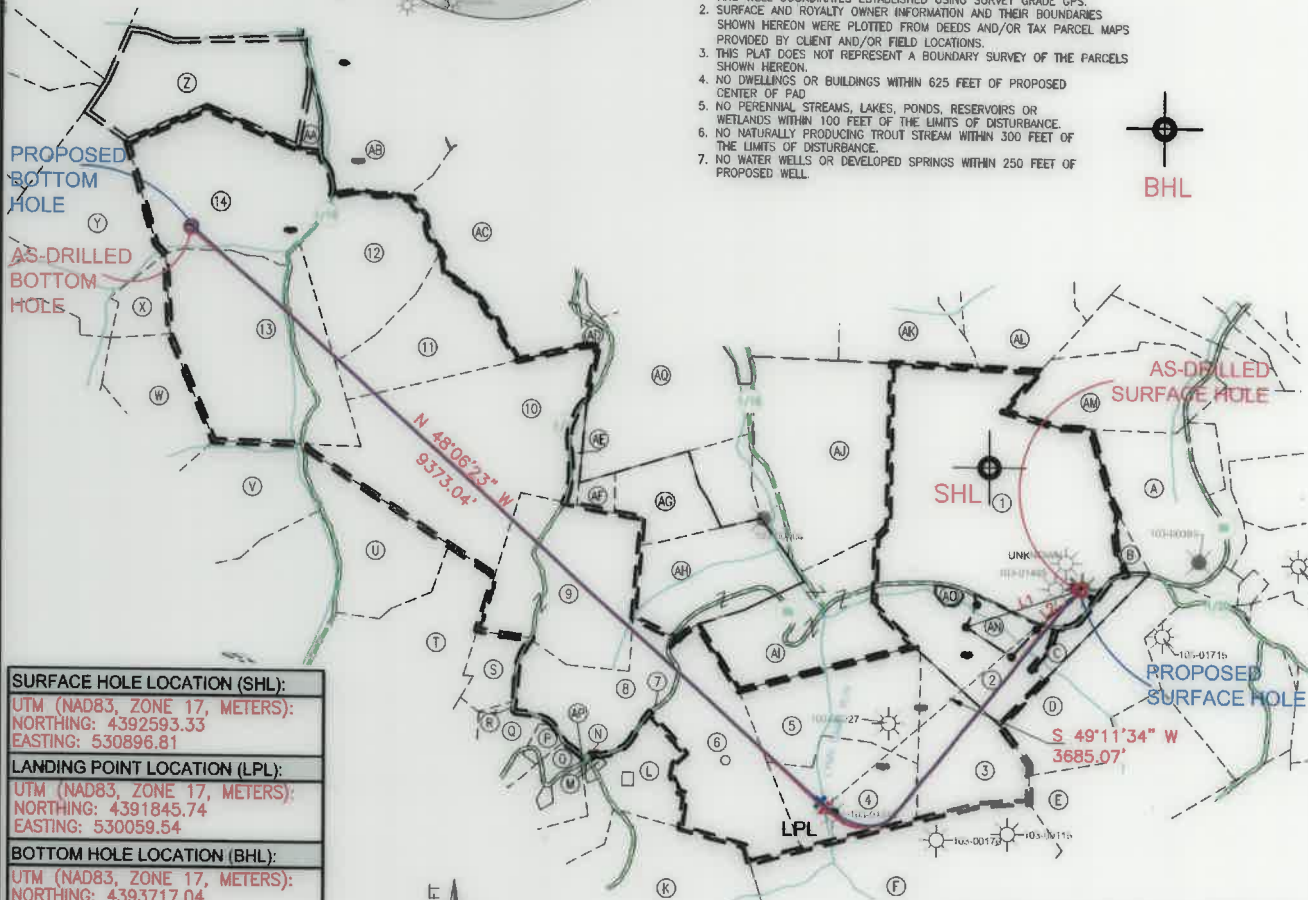


68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-8100



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 PLAN 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.

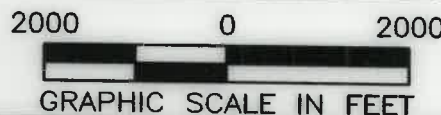


SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4392593.33 EASTING: 530896.81
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4391845.74 EASTING: 530059.54
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4393717.04 EASTING: 527902.04
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4392593.62 EASTING: 530897.05
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4391863.75 EASTING: 530045.21
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4393722.64 EASTING: 527906.46

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



LINE	BEARING	DISTANCE
L1	S71°22'37"W	1312.67'
L2	S46°58'06"W	644.53'



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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.E. 18809



(+) 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 SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

COMPANY: **SWN** Production Company, LLC

SWN A WTZ
OPERATOR'S WELL #: 601H
API WELL #: 47 103 03422
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
 WATERSHED: UPPER OHIO SOUTH
 DISTRICT: PROCTOR COUNTY: WETZEL
 SURFACE OWNER: SWN PRODUCTION COMPANY, LLC
 OIL & GAS ROYALTY OWNER: RODNEY CALVERT, ET AL
 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: 7,369'



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

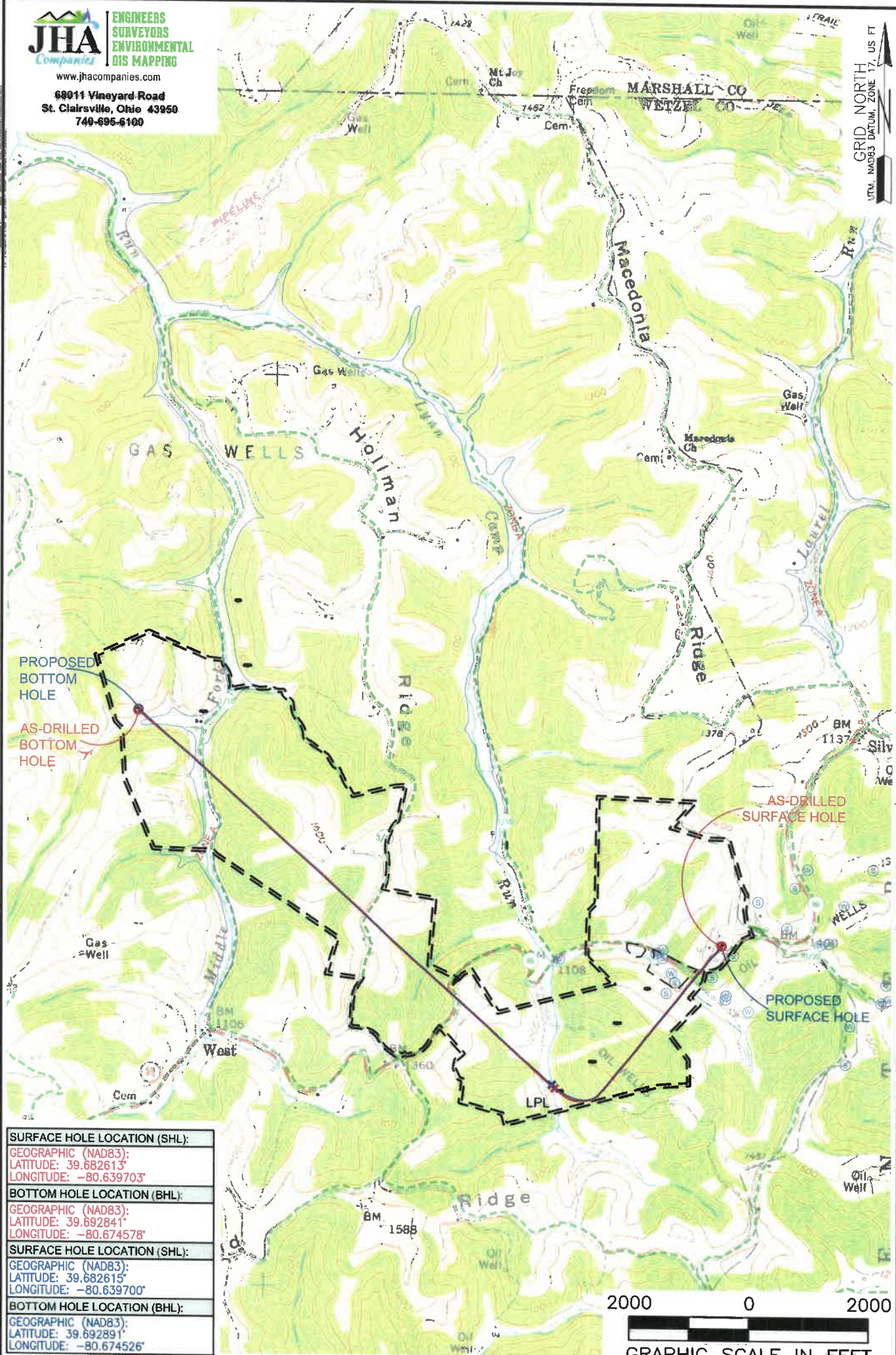
LEGEND:	REVISIONS:	DATE: 03-31-2022
● EXISTING BOTTOM HOLE	— ACCESS ROAD	API NO: 47-103-03422
☆ EXISTING / PRODUCING WELLHEAD	— PUBLIC ROAD	DRAWN BY: R. GRIMES
LPL ● EXISTING LANDING POINT LOCATION	— FLOOD PLAN	SCALE: 1" = 2000'
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— LEASE BOUNDARY	DRAWING NO: 2016-519
LPL ● PROPOSED LANDING POINT LOCATION	— AS DRILLED PATH	WELL LOCATION PLAT
	— PROPOSED PATH	

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (L) / ROYALTY OWNER (R)	TAX PARCEL
1	SWN PRODUCTION COMPANY LLC (S) RODNEY CALVERT ET AL (R)	12-10-29
SURFACE OWNERS		
TRACT		TAX PARCEL
2	CALVERT RODNEY A	12-10-29.3
3	DREYER JOSEPH C	12-15-8
4	HAESSLY LAND AND TIMBER LLC	12-15-7
5	HAESSLY LAND AND TIMBER LLC	12-15-6
6	HAESSLY LAND AND TIMBER LLC	12-15-5
7	STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS	PROCTOR CREEK ROAD (COUNTY HIGHWAY 89)
8	HAESSLY HARDWOOD LUMBER CO	12-15-4
9	HUGGINS JOSEPH DEAN	12-10-31
10	HAESSLY HARDWOOD LUMBER CO	12-10-23
11	HAESSLY LAND AND TIMBER LLC	12-10-20
12	HUGGINS MICHAEL A & PATRICK W	12-9-23
13	GODDARD WAYNE L	12-9-33
14	GODDARD WAYNE L	12-9-22

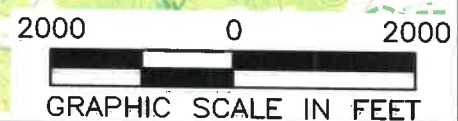
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	YOHO NORMA F	1-7-40
B	SWN PRODUCTION COMPANY	12-10-29.2
C	CALVERT RODNEY A	12-10-29.5
D	HUTCHISON MARGARETA	12-15-9
E	HAESSLY LAND AND TIMBER LLC	12-15-10
F	LEMASTERS DOLLY GEST	12-15-19
K	LEMASTERS H C HRS & MANKER	12-15-18
L	HAESSLY LAND AND TIMBER LLC	12-15-17
M	STILES MARILYN DIANE	12-15-16
N	RITCHEA JAMES L	12-15-4.1
AP	RITCHEA GARY A & ALICIA L	12-15-15
O	STILES MARILYN DIANE	12-15-14.2
P	URBANEK SCOTT J	12-15-3
Q	RITCHEA WILLIAM D	12-15-2
R	RITCHEA WILLIAM D	12-15-1.1
S	HUGGINS JOSEPH DEAN	12-15-1
T	RITCHEA WILLIAM D & SHIRLEY E	12-14-9
U	GODDARD WAYNE	12-9-46
V	WOODSTUFF JOYCE K	12-9-44
W	BLAKE VERIL JEROME	12-9-42
X	BLAKE VERIL JEROME	12-9-32
Y	BLAKE VERIL JEROME	12-9-21
Z	SHULUGA ANDREW D & ANDREA M	12-9-13
AA	SHULUGA ANDREW D & ANDREA M	12-9-14
AB	SHULUGA ANDREW D & ANDREA M	12-9-15
AC	RICHMOND CASSIDI PAIGE	12-10-13
AD	RICHMOND CASSIDI PAIGE	12-10-21
AQ	RITCHEA ROBERT C & JAMES L	12-10-22
AE	RITCHEA ROBERT C & JAMES L	12-10-24
AF	HUGGINS JOSEPH DEAN	12-10-25
AG	SWN PRODUCTION COMPANY LLC	12-10-26
AH	HAESSLY HARDWOOD LUMBER CO	12-10-32
AI	HAESSLY LAND AND TIMBER LLC	12-10-33
AJ	SWN PRODUCTION COMPANY LLC	12-10-28
AK	YOHO DARREN ETAL	12-10-16
AL	YOHO DARREN ETAL	12-10-18
AM	DURIG CORY & DAVID	1-7-2
AN	CALVERT RODNEY A	12-10-29.4
AO	CALVERT RODNEY A	12-10-29.1

REVISIONS:

COMPANY:	 	10/14/2022
OPERATOR'S	SWN A WTZ	DATE: 03-31-2022
WELL #:	601H	API NO: 47-103-03422
DISTRICT:	PROCTOR	DRAWN BY: R. GRIMES
COUNTY:	WETZEL	SCALE: N/A
STATE:	WV	DRAWING NO: 2016-519
		WELL LOCATION PLAT



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.682613°
LONGITUDE: -80.639703°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.692841°
LONGITUDE: -80.674578°
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.682615°
LONGITUDE: -80.639700°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.692891°
LONGITUDE: -80.674526°



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	— FLOOD PLAN	— LEASE BOUNDARY
LPL* EXISTING LANDING POINT LOCATION	— AS-DRILLED PATH	— PROPOSED PATH
● PROPOSED SURFACE HOLE / BOTTOM HOLE		
LPL* PROPOSED LANDING POINT LOCATION		

10/14/2022

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: SWN A WTZ	WELL # 601H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY: WETZEL	CODE: 103	DISTRICT: PROCTOR
SURFACE OWNER: SWN PRODUCTION COMPANY, LLC	USGS 7 1/2 QUADRANGLE MAP NAME: WILEYVILLE, WV		
			API # 47-103-3422