

LATITUDE: 40°12'30" SURFACE HOLE (2000' SCALE)

5,473'

10,989'

LATITUDE: 40°10'00" BOTTOM HOLE (2000' SCALE)

5,985'

6,533'

LONGITUDE: 80°30'00" BOTTOM HOLE (2000' SCALE)

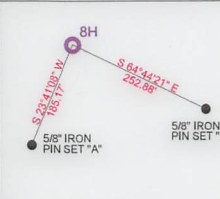
LONGITUDE: 80°32'30" SURFACE HOLE (2000' SCALE)



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

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

LINE	BEARING	DISTANCE
L1	S60°45'14"E	2573.55'
L2	S53°09'43"E	2233.27'



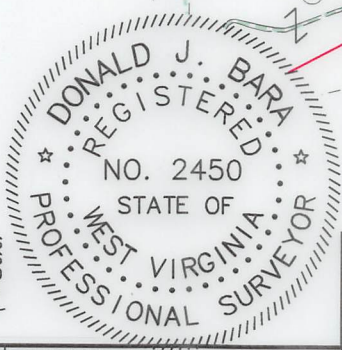
SAMUEL JONES BRK
BH N.T.S.

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4448993.52 EASTING: 537365.77
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4448859.39 EASTING: 537501.76
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4444539.32 EASTING: 539233.80
SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4448994.66 EASTING: 537365.08
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4448862.36 EASTING: 537498.46
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4444538.87 EASTING: 539233.19

- 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.

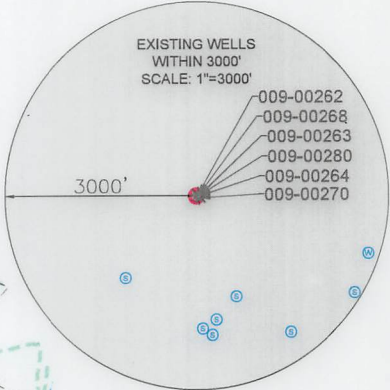
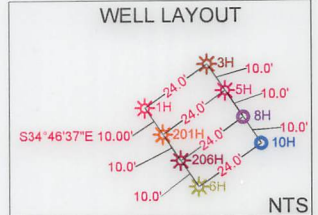
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2450



2000 0 2000

GRAPHIC SCALE IN FEET



WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	COMPANY: SWN Production Company, LLC OPERATOR'S WELL #: 8H API WELL #: 47 STATE 009 COUNTY 00336 PERMIT
	WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> WATERSHED: UPPER OHIO SOUTH DISTRICT: BUFFALO COUNTY: BROOKE SURFACE OWNER: SAMUEL E. & JUDITH F. JONES OIL & GAS ROYALTY OWNER: RESOURCE MINERAL HEADWATER I, LP DRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) AS-DRILLED 02/16/2024 TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,395' TVD 21,787' TMD	SAMUEL JONES BRK ELEVATION: 1204.0' QUADRANGLE: BETHANY, WV ACREAGE: ±164.74 ACREAGE: ±164.74 DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

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 PLAN — LEASE BOUNDARY — ASDRILLED PATH — PROPOSED PATH	REVISIONS: DATE: 09-19-2023 API NO: 47-009-00336 DRAWN BY: Z. WOOD SCALE: 1" = 2000' DRAWING NO: 2019-0265 WELL LOCATION PLAT
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LATITUDE: 40°12'30" SURFACE HOLE (2000' SCALE)

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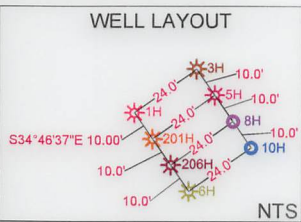
LONGITUDE: 80°30'00" BOTTOM HOLE (2000' SCALE)

LONGITUDE: 80°32'30" SURFACE HOLE (2000' SCALE)

JHA ENGINEERS SURVEYORS ENVIRONMENTAL GIS MAPPING
 Companies
 www.jhacompanies.com
 68011 Vineyard Road
 St. Clairsville, Ohio 43950
 740-695-6100



LINE	BEARING	DISTANCE
L1	S60°45'14"E	2573.55'
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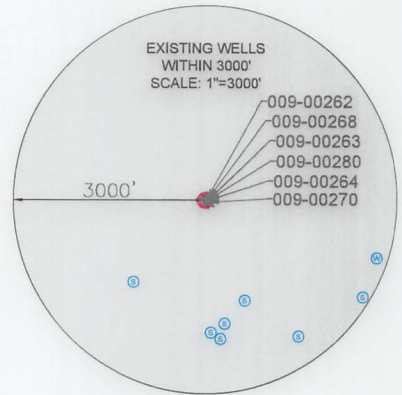
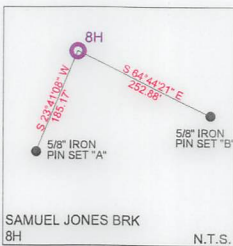
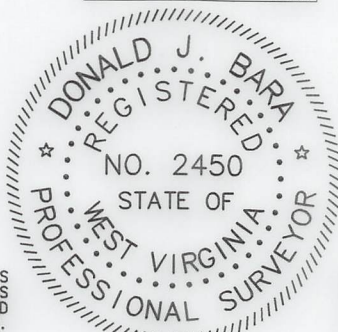
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NOTES ON SURVEY

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P.S. 2450



2000 0 2000

GRAPHIC SCALE IN FEET

COMPANY: **SWN** Production Company, LLC **SWN** Production Company™

(+) 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)	OPERATOR'S WELL #: SAMUEL JONES BRK 8H API WELL #: 47 STATE 009 COUNTY 00336 PERMIT
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: UPPER OHIO SOUTH
 DISTRICT: BUFFALO COUNTY: BROOKE
 SURFACE OWNER: SAMUEL E. & JUDITH F. JONES
 OIL & GAS ROYALTY OWNER: RESOURCE MINERAL HEADWATER I, LP

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 02/16/2024



TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,395' TVD 21,787' TMD

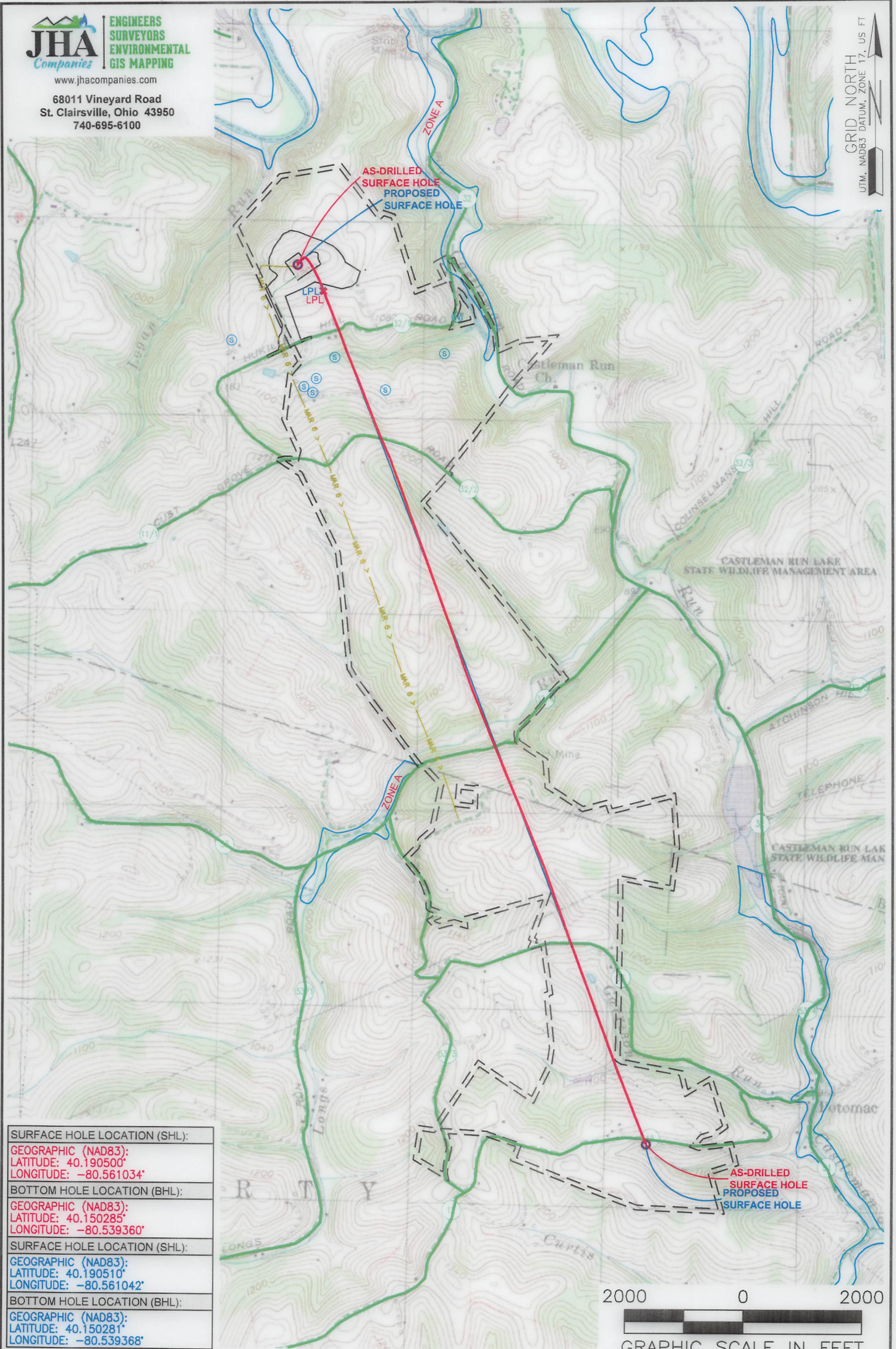
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508
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LEGEND: ● 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	REVISIONS: DATE: 09-19-2023 API NO: 47-009-00336 DRAWN BY: Z. WOOD SCALE: 1" = 2000' DRAWING NO: 2019-0265 WELL LOCATION PLAT
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WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	JONES SAMUEL E & JUDITH F IRREVOCABLE TRUST (S) RESOURCE MINERALS HEADWATER I, LP (R)	3-B43-60
TRACT	SURFACE OWNER	TAX PARCEL
2	CHAMBERS CHARLOTTE A	3-B48-23
3	CHAMBERS HARRY L & BEVERLY R (SURV)	3-B48-24.1
4	CHAMBERS CHARLOTTE A	3-B48-24
5	SONDA SCOTT & MARK	3-B48-20
6	STONE MARION PYLE	3-B48-41
7	GRIMES DONALD; ANTHONY HOUSTON (SURV)	3-B48-40
8	OHARA MATTHEW JAMES; OHARA DEIRDRA (LIFE ESTATE)	3-L2-10.2
9	GRIMES MICHAEL J	3-L2-10.1
10	FISH HARRY ALAN FISH R H & P C RES'V L/E	3-L2-13.1
11	BREITINGER MICHAEL	3-L2-11
12	DEARING JEREMY R & TANYA N	3-L2-12.3
13	LEMASTERS G L JR	3-L2-12.1
14	FISH HARRY ALAN	3-L2-13
15	ENNIS MARJORIE G	3-L5-8
16	KESTNER GARY & TERRY	3-L5-9
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	FONNER MARY LOU	3-B43-58
B	PUSKARICH TRACY T	3-B43-59
C	WV ST OF DEPT OF COMM DIV OF NAT RE WILDLIFE RES SEC	3-B43-62
D	HOGAN ANDREW P	3-B48-34
E	SMITH DEAN S	3-B48-32
F	CAMMARATA NICHOLAS J & JENNIFER C (SURV)	3-B48-25
G	WALDEN WILLIAM K & FLORENCE ANDREA (SURV)	3-B48-27
H	WALDEN WILLIAM K & ANDREA	3-B48-38
I	GRIMES DONALD; ANTHONY	3-B48-39
J	WEST VIRGINIA STATE OF - DIVISION OF NATURAL RESOURCES	3-B49-15
K	STATE OF WV CONSERVATION COMM DIV OF NAT RES PUB LAND CORP	3-L3-1
L	ATKINSON GREGORY D; ET AL C/O JENNIFER TUCKER	3-L6-10
M	ATKINSON GREGORY D; ET AL C/O JENNIFER TUCKER	3-L6-10.1
N	ATKINSON GREGORY D; ET AL C/O JENNIFER TUCKER	3-L6-10.2
O	GEAR LURA MARIE	3-L6-9.1
P	COWAN CHERYL ANN	3-L6-21
Q	MONTGOMERY PATRICK J & MONTGOMERY BRENDA LEE	3-L6-11.1
R	MORMANIS GREGORY N AND SHARON LEE	3-L6-13
S	TOMINACK JOHN I JR	3-L5-10
T	DOLENCE DONALD F & J L	3-L5-11
U	HAYS TIMOTHY R & THELMA C	3-L5-29
V	COX CHAD & JULIE C	3-L2-12
W	SONDA SCOTT SONDA MARK	3-L2-2
X	WINDSOR COAL COMPANY	3-L2-9
Y	SONDA SCOTT SONDA MARK	3-L2-1
Z	STONE MARION P	3-B48-19
AA	STONE MARC P	3-B48-17
AB	BOHACH JENNIFER LYNNE PYLE; SEIDWITZ WENDY RAY PYLE (JTWS)	3-B48-18
AC	WINDSOR POWER HOUSE COAL CO	3-B48-21
AD	NORDEN ANNA MAE (TOD) NORDEN - SMITH KATHERINE ETAL	3-B48-22
AE	CORWIN BRIAN DAVID	3-B43-22
AF	BETHANY COLLEGE	3-B38-31
AG	PRESLIE ROWAN LLC	3-B43-33
AH	AYERS ALBERT GLENN & REBECCA	3-B43-61
AI	OHARA MATTHEW JAMES; OHARA DEIRDRA (LIFE ESTATE)	3-L2-10

02/16/2024

REVISIONS:				
	COMPANY:			
	OPERATOR'S		SAMUEL JONES BRK	
	WELL #:		8H	
	DISTRICT:	COUNTY:	STATE:	DATE: 09-19-2023
	BUFFALO	BROOKE	WV	API NO: 47-009-00336
				DRAWN BY: Z. WOOD
				SCALE: N/A
				DRAWING NO: 2019-0265
				WELL LOCATION PLAT



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.190500° LONGITUDE: -80.561034°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.150285° LONGITUDE: -80.539360°
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.190510° LONGITUDE: -80.561042°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.150281° LONGITUDE: -80.539368°

- 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
EXISTING LANDING POINT LOCATION	FLOOD PLAIN
PROPOSED SURFACE HOLE / BOTTOM HOLE	LEASE BOUNDARY
PROPOSED LANDING POINT LOCATION	ASDRILLED PATH
	PROPOSED PATH

02/16/2024

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: SAMUEL JONES BRK	WELL # 8H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY: BROOKE	CODE: XXX	DISTRICT: BUFFALO
SURFACE OWNER: SAMUEL E. & JUDITH F. JONES	USGS 7 1/2 QUADRANGLE MAP NAME: BETHANY, WV		
API # 47-09-00336			