

Latitude: 40°12'30" SURFACE HOLE 5433'

Latitude: 40°10'00" BOTTOM HOLE 821'

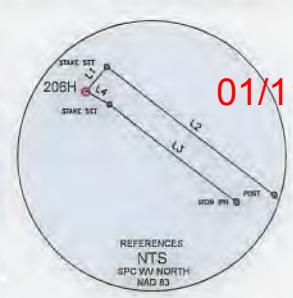
ELK LAKE SERVICES, LLC

280 Indian Springs Road,
Suite 123 Indiana, PA 15701
Phone: (724) 463-7303

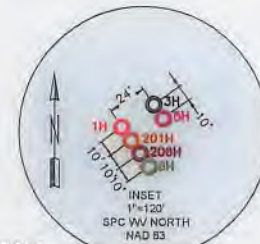
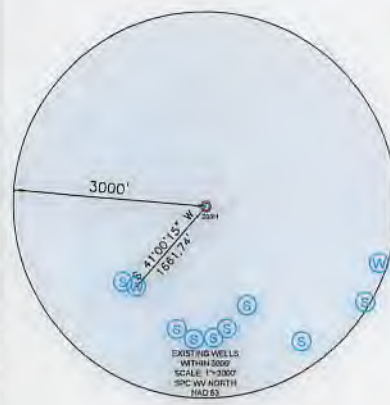
LINE BEARING	DISTANCE
L1 N 40°54'04" E	382.15'
L2 S 52°42'21" E	2535.38'
L3 S 52°36'46" E	1927.86'
L4 S 60°15'49" E	319.34'

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,448,990.39 EASTING: 537,359.15
LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,448,717.86 EASTING: 536,983.59
TURNING POINT LOCATION 1 (TPL 1): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,446,916.93 EASTING: 537,696.75
TURNING POINT LOCATION 2 (TPL 2): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,445,730.55 EASTING: 538,009.03
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,309.97 EASTING: 538,788.51

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



01/11/2019

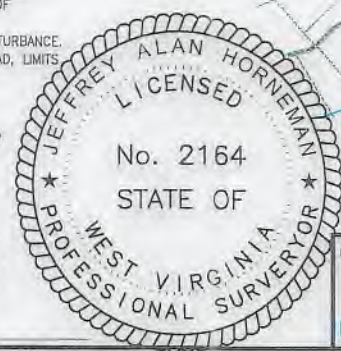


- WELL RESTRICTIONS**
1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 825 FEET OF CENTER OF PAD.
 2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 825 FEET OF CENTER OF PAD.
 3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 1662 FEET OF PROPOSED WELL.
 4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS ARE WITHIN THE LIMITS OF DISTURBANCE.
 5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
 6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

- 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.

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. 2164



GRAPHIC SCALE IN FEET

COMPANY: **SWN** Production Company, LLC

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	SAMUEL JONES BRK OPERATOR'S WELL #: 206H API WELL #: 47 9 00270 STATE COUNTY PERMIT
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1205.4'-PLANNED

DISTRICT: BUFFALO COUNTY: BROOKE COUNTY QUADRANGLE: BETHANY

SURFACE OWNER: JONES, SAMUEL E. AND JUDITH F. ACREAGE: ±164.70

OIL & GAS ROYALTY OWNER: RESOURCE MINERALS HEADWATER I, LP ACREAGE: ±164.70

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: MARCELLUS ESTIMATED DEPTH: 6,382' TVD 22,347' 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

LEGEND:	SURVEYED BOUNDARY DRILLING UNIT LEASE BOUNDARY PROPOSED PATH EXISTING WATER WELL EXISTING SPRING	REVISIONS:	DATE: 10-10-2018 FILE NO: 17-010 DRAWN BY: JMB SCALE: 1" = 3000' DRAWING NO: 1 WELL LOCATION PLAT 1
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ELK LAKE SERVICES, LLC

280 Indian Springs Road,
Suite 123 Indiana, PA 15701
Phone: (724) 463-7303

01/11/2019

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	JONES, SAMUEL E & JUDITH F (S) / RESOURCE MINERALS HEADWATER I, LP (R)	3-B43-60
TRACT	SURFACE OWNER	TAX PARCEL
2	NORDEN, ANNA MAE	3-B48-22
3	PYLE, LAWRENCE RAY & JUDITH A	3-B48-18
4	STONE, MARC P	3-B48-17
5	STONE, MARION P	3-B48-19
6	SONDA, SCOTT & SONDA, MARK	3-L2-1
7	WINDSOR COAL COMPANY	3-L2-9
8	SONDA SCOTT SONDA MARK	3-L2-2
9	BOONE, CHARLES EDWARD & SHARON	3-L2-8.4
10	COX, CHAD & JULIE C	3-L2-12
11	HAYS, TIMOTHY R & THELMA C	3-L5-29
12	ENNIS, JOSEPH E & MARJORIE G	3-L5-8
13	TOMINACK, HELEN & JOHN I JR	3-L5-10

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	VALENTINE, GENE C TRUST	3-B43-33
B	FONNER, MARY LOU	3-B43-58
C	PUSKARICH, TRACY T	3-B43-59
D	CHAMBERS, ROBERT M & CHARLOTTE A	3-B48-24
E	AYERS, ALBERT GLENN & REBECCA ANN	3-B43-61
F	CHAMBERS, ROBERT M & CHARLOTTE A	3-B48-23
G	CHAMBERS, HARRY L & BEVERLY R	3-B48-24.1
H	WINDSOR POWER HOUSE COAL CO	3-B48-21
I	SONDA, SCOTT & MARK	3-B48-20
J	STONE, MARION PYLE	3-B48-41
K	GRIMES, DONALD;ANTHONY HOUSTON (SURV)	3-B48-40
L	OHARA, MICHAEL & DEIRDRA	3-L2-10.2
M	BREITINGER, MICHAEL	3-L2-11
N	DEARING, JEREMY R & TANYA N	3-L2-12.3
O	LEMASTERS, G L JR	3-L2-12.1
P	LEMASTERS, G L JR	3-L2-12.4
Q	FISH, HARRY ALAN	3-L2-13
R	KESTNER, GARY & TERRY	3-L5-9
S	MORMANS, GREGORY N & SHARON LEE	3-L6-13
T	RODGERS, WILLIAM I	3-L6-15
U	EISENHAUER, JEFFREY J & JOLENE M	3-L6-18
V	LOEW, DELMER K & V G	3-L6-19
W	TUNNELL RIDGE LLC	3-L6-22
X	MCELVANY, LYNN	3-L5-26
Y	SMITH, GEORGE F	3-L5-27
Z	DOLENCE, DONALD F & J L	3-L5-11
AA	GROVE, GEORGE W JR & LAURIE	3-L5-7.1
AB	GROVE, GEORGE W JR & L A	3-L5-7.4
AC	GROUNDS, CHARLES W & CHRISTY D	3-L5-4
AD	BOONE, CHARLES EDWARD & SHARON	3-L2-8
AE	WINDSOR COAL COMPANY	3-L2-8.3
AF	MEDLEN, ALISHA D & SCOTT B	3-L2-7.2
AG	MILLER, JOAN C (LIFE ESTATE)	3-L2-7.1
AH	KLOSS, BAIRD C	3-L2-4
AI	BALL, LARRY G	3-L1-38.5
AJ	BALL, LARRY G	3-L1-38
AK	MCGEE, KEVIN K & CYNTHIA R	3-L2-15.1
AL	HUPP JOHN W; JOSEPH T; DOUBLE LINDA H	3-B48-16
AM	COX, WILLIAM BRITT	3-B48-8
AN	DUKE, DAVID F & SHARON A	3-B48-10
AO	BONAR, CHARLES W & CHARLOTTE	3-B48-15
AP	CORWIN, BRIAN DAVID	3-B43-22
AQ	BETHANY COLLEGE	3-B38-31
AR	SEIDEWITZ, PAUL ROBERT & WENDY KAY	3-B48-18
AS	GILL, SHARON L	3-L2-8.2
AT	GILL, SHARON L	3-L2-8.5
AU	HAYS, JASON T & SHEENA R	3-L2-12.2

REVISIONS:	COMPANY:	 	
	OPERATOR'S	SAMUEL JONES BRK	
	WELL #:	206H	
	DISTRICT:	COUNTY:	STATE:
	BUFFALO	BROOKE COUNTY	WV
			DATE: 10-10-2018
			FILE NO: 17-010
			DRAWN BY: JMB
			SCALE: N/A
			DRAWING NO: 1
			WELL LOCATION PLAT 1