

Latitude: 40°12'30" SURFACE HOLE 5438'

BOTTOM HOLE 9260'

Latitude: 40°12'30"

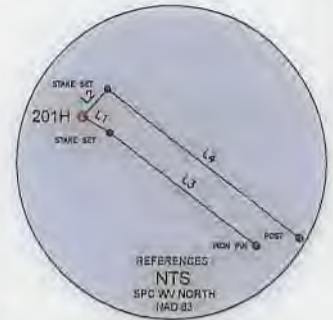
ELK LAKE SERVICES, LLC

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

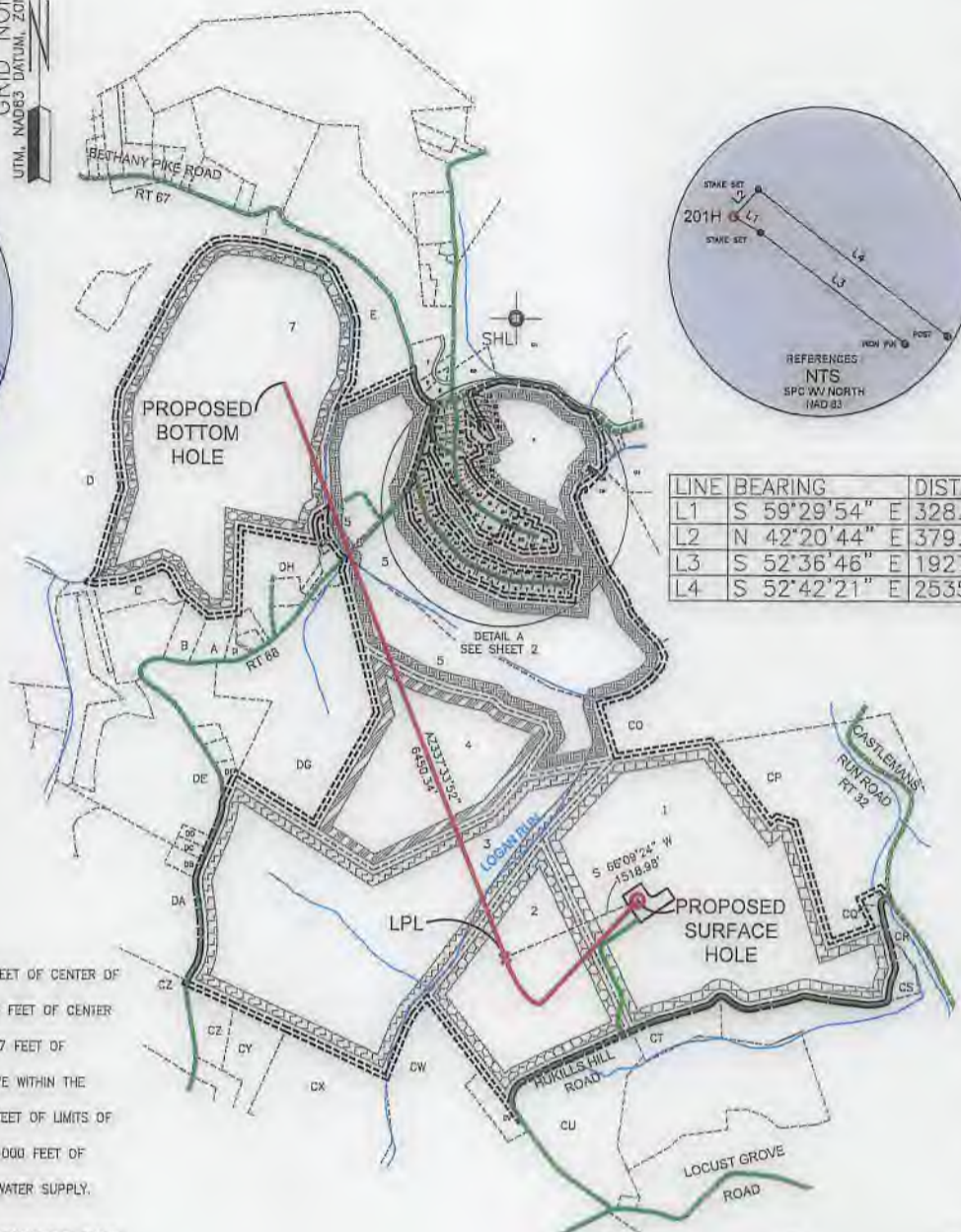


SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,448,992.86
EASTING: 537,357.37
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,448,799.66
EASTING: 536,934.85
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,450,616.92
EASTING: 536,184.51

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



LINE	BEARING	DISTANCE
L1	S 59°29'54" E	328.26'
L2	N 42°20'44" E	379.69'
L3	S 52°36'46" E	1927.86'
L4	S 52°42'21" E	2535.38'



WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT, WITHIN 825 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT, WITHIN 625 FEET OF CENTER OF PAD.
- WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 1,667 FEET OF PROPOSED WELL.
- PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS ARE WITHIN THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- 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

- 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.
- 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

2000 0 2000

GRAPHIC SCALE IN FEET

COMPANY:
SWN SWN
Production Company, LLC Production Company™

<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)	COMPANY: SWN OPERATOR'S WELL #: 201H API WELL #: 47 009 00264 STATE COUNTY PERMIT
	WELLS: (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WELLS: (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	SAMUEL JONES BRK OPERATOR'S WELL #: 201H API WELL #: 47 009 00264 STATE COUNTY PERMIT

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: JONES, SAMUEL E. AND JUDITH F. 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: 6,095' TVD 13,146' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL

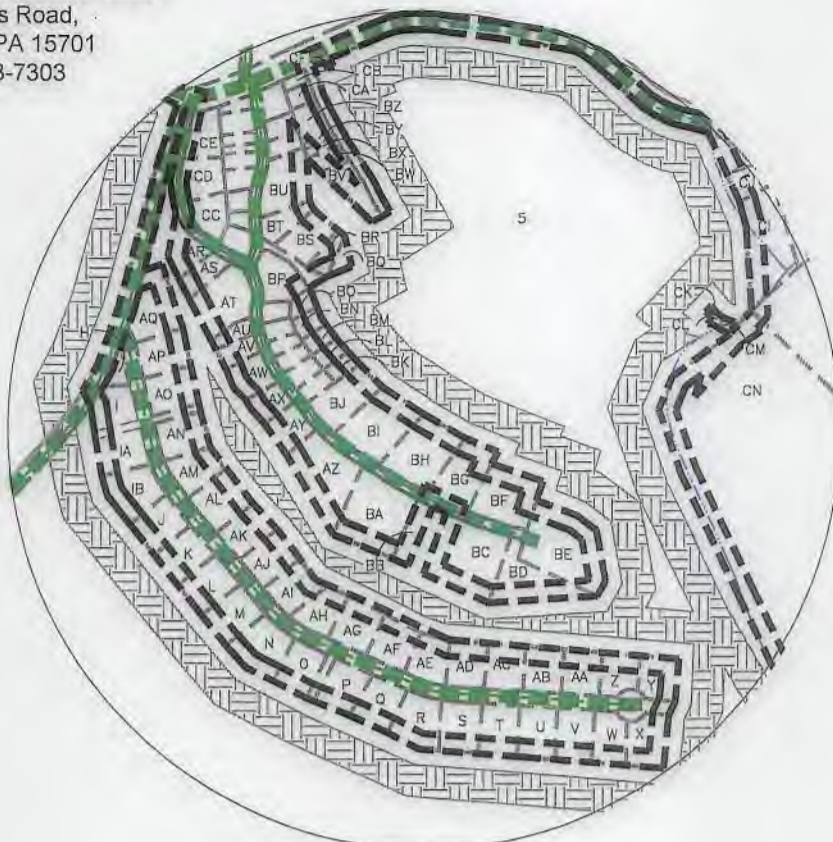
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300

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	DATE: 04-10-2018 FILE NO: 17-0010 DRAWN BY: N. LASSAK SCALE: 1" = 2000' 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



DETAIL A

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER / ROYALTY OWNER	TAX PARCEL
1	JONES, SAMUEL E & JUDITH F	3-B43-60
SURFACE OWNER		
TRACT	TAX PARCEL	
2	NORDEN, ANNA MAE	3-B45-22
3	CORWIN, BRIAN DAVID	3-B43-22
4	CORWIN, BRIAN DAVID (LE-MARION PYLE STONE)	3-B43-25
5	BETHANY COLLEGE	3-B38-31
6	BETHANY PIKE ROAD	
7	LEONETTI, BETTIE BECK	3-B43-5

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	CHAMBERS, MARY WELLS	3-B43-12
B	CHAMBERS, MARY WELLS	3-B43-13
C	WINDSOR POWER HOUSE COAL CO	3-B43-15
D	SANFORD, ELLEN B	3-B38-56
E	BETHANY COLLEGE	3-B38-31
F	BETHANY COLLEGE, TRUSTEES OF (SURV)	2-B43B-1
G	MYERS, YVONNE B	2-B43B-2
H	BETHANY COLLEGE	2-B43F-10
I	CSAPLAR, WILFRID W; GUNASEGARAM, SAKUNTHALA W	2-B43F-2
IA	RUGGIERO, RICHARD L & FELICITY	2-B43F-3
IB	D'AURORA, DOMINICK A & THERESA (SURV)	2-B43F-4
J	GRAHAM, LINDA	2-B43F-5
K	RAHR, ROBERT P JR & PENNY K (SURV)	2-B43F-6
L	REVEN, FRANK M & MARIAN	2-B43F-7
M	PETTINI, JOSEPH P & BARBARA A (SURV)	2-B43F-8
N	BURNS, JOHN THOMAS & ANNE E	2-B43F-9
O	GIESMANN, JOHN C & SUSAN L	2-B43F-10
P	DULLY, EDWARD A	2-B43F-11
Q	BOWN, ERIC H	2-B43F-12
R	BETHANY COLLEGE	2-B43F-13
S	SAWTARIE, FUJIKO OGURI	2-B43F-14
T	CUNNINGHAM, JOHN & PATRICIA	2-B43F-15
U	DARSHAN, SHARMA R & CRYSTAL (JTWs)	2-B43F-16
V	SACHS, ANDREW C & PAULA L (SURV)	2-B43F-17
W	BETHANY COLLEGE	2-B43F-18
X	BETHANY COLLEGE	2-B43F-19
Y	BETHANY COLLEGE	2-B43F-20
Z	BETHANY COLLEGE	2-B43F-21
AA	BETHANY COLLEGE	2-B43F-22
AB	BETHANY COLLEGE	2-B43F-23
AC	VALENTINE GENE CHARLES THE TRUST OF	2-B43F-24
AD	FENDON, DEBORAH C	2-B43F-25
AE	VALENTINE GENE CHARLES THE TRUST OF	2-B43F-26
AF	MCVICAR, ROBERT L	2-B43F-27
AG	NEEL, CURTIS LEE & LOUANN (SURV)	2-B43F-28
AH	HOFFMAN, JOHN & CYNTHIA	2-B43F-29
AI	COBB, ROSEMARY JEANNE	2-B43F-30
AJ	BUCKELEW, ALBERT R JR & SUSAN	2-B43F-31
AK	ELTRINGHAM, THOMAS L & LAURI L (SURV)	2-B43F-32
AL	HULL, LIVING TR; JOHN & DEBRA	2-B43F-33
AM	MORGAN, KENNETH & JUDITH (SURV)	2-B43F-34
AN	FORRESTER, JAMES R JR & CAROLYN	2-B43F-35
AO	HERVEY, DOUGLAS H & HOLLY (SURV)	2-B43F-36
AP	FURBEE, THOMAS; SHELK, KATHERINE	2-B43F-37
AQ	FURBEE, THOMAS; SHELK, KATHERINE (SURV)	2-B43F-38
AR	BETHANY COLLEGE	2-B43F-39
AS	BETHANY COLLEGE	2-B43F-40
AT	BETHANY COLLEGE, THE TRUSTEES OF	2-B43F-41
AU	BETHANY COLLEGE	2-B43F-42
AV	BETHANY COLLEGE	2-B43F-43
AW	KEMP, SHIRLEY J	2-B43F-44
AX	BETHANY COLLEGE	2-B43F-46
AY	NISLEN, DOUGLAS G	2-B43F-47
AZ	AYERS, THOMAS M	2-B43F-48
BA	FORSTY, JANICE L (L EST-MARY J FORSTY	2-B43F-49
BB	SYKES, JOANNE	2-B43F-50
BC	SYKES, JOANNE	2-B43F-51
BD	BOWWENS, WAYNE NEIL & JAY ALAN	2-B43F-52

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
BE	BOWWENS, WAYNE NEIL(TUD),JOHNSTON, GRETCHEN	2-B43F-53
BF	MOURATIDIS, KOSMAS (L.C. ROBERT & NEDCO)	2-B43F-54
BG	CUNNINGHAM, JOHN & PATRICIA L (SURV)	2-B43F-55
BH	KANOTZ, ASHLEY L & A SCOTT	2-B43F-56
BI	SMITH, RYAN & BROOKE	2-B43F-57
BJ	WEPPLER, RANDALL J & CYNTHIA	2-B43F-58
BK	BETHANY COLLEGE	2-B43F-79
BL	BETHANY COLLEGE	2-B43F-78
BM	BETHANY COLLEGE	2-B43F-77
BN	BETHANY COLLEGE	2-B43F-76
BO	BETHANY COLLEGE	2-B43F-75
BP	LOZIER, JOHN W & CORAL	2-B43F-65
BQ	D'AURORA, DOMINICK A & THERESA (SURV)	2-B43F-4
BR	BETHANY COLLEGE	2-B43F-73
BS	LYONS, THOMAS PAUL	2-B43F-72
BT	LYONS, THOMAS PAUL	2-B43F-71
BU	WILLIAMSON, GRAY; HATZOPOULOS, SYDMA (SURV)	2-B43B-15
BV	KREISBERG, ROBERT & MELINDA (SURV)	2-B43F-60
BW	BETHANY COLLEGE	2-B43B-16
BX	BETHANY COLLEGE	2-B43B-17
BY	GROUX, HARRY W & SANDRA K (SURV)	2-B43B-18
BZ	GROUX, HARRY W & SANDRA K (SURV)	2-B43F-19
CA	BETHANY COLLEGE	2-B43B-20
CB	BETHANY COLLEGE	2-B43B-21
CC	LOVATO, DONNA SUE MARTIN	2-B43F-57
CD	FALCON, NED THOMAS & BILLIE JO	2-B43B-60
CE	KEENER, EARL R & PAMELA (SURV)	2-B43B-9
CF	MANUFACTURERS LIGHT & HEAT CO	2-B43B-27
CG	HUFF, JOHN HEIRS	2-B43B-40
CH	BETHANY COLLEGE	3-B38-31
CI	MITCHELL, WILLIAM HEIRS	2-B43B-22
CJ	MITCHELL, DONALD STEVEN	2-B43F-83
CK	BETHANY TOWN OF	2-B43F-86
CL	BETHANY TOWN OF	2-B43F-87
CM	BETHANY TOWN OF	2-B43F-88
CN	BETHANY TOWN OF	3-B43-32
CO	VALENTINE, GENE C TR OF 11/26/86	3-B43-33
CP	FONNER, MARY LOU	3-B43-58
CO	PUSKARICH, TRACY T	3-B43-59
CR	CHAMBERS, ROBERT M & CHARLOTTE A	3-B48-24
CS	AYERS, ALBERT GLENN & REBECCA ANN (SURV)	3-B43-61
CT	CHAMBERS, ROBT M & CHARLOTTE A	3-B48-23
CU	NORDEN, ANNA MAE	3-B48-22
CV	SEIDEWITZ, PAUL ROBERT & WENDY KAY	3-B48-18.1
CW	PYLE, LAWRENCE RAY & JUDITH A	3-B48-18
CX	BONAR, CHARLES W & CHARLOTTE (SURV)	3-B48-15
CY	BONAR, CHARLES W & CHARLOTTE (SURV)	3-B48-14
CZ	BONAR, CHARLES W & CHARLOTTE (SURV)	3-B48-10
DA	COX, WILLIAM BRITT	3-B43-21
DB	STONE, MARION PYLE	3-B43-20
DC	STONE, MARION PYLE	3-B43-19
DD	WHITEHEAD, SILVEA MAZZELLA	3-B43-18
DE	MCGEEHAN, JOYCE ANN	3-B43-17
DF	MCGEEHAN, JOYCE ANN	3-B43-23
DG	CORWIN, BRIAN	3-B43-26
DH	BECK, JOHN	3-B43-8
DI	CHAMBERS, MARY WELLS	3-B43-11

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{SA} ^{VA} ⁺ [®]
Production Company™

OPERATOR'S: SAMUEL JONES BRK
WELL #: 201H

DATE: 04-10-2018
FILE NO: 17-0010
DRAWN BY: N. LASSAK
SCALE: N/A
DRAWING NO: 1
WELL LOCATION PLAT 1

DISTRICT:
BUFFALO

COUNTY:
BROOKE COUNTY

STATE:
WV