

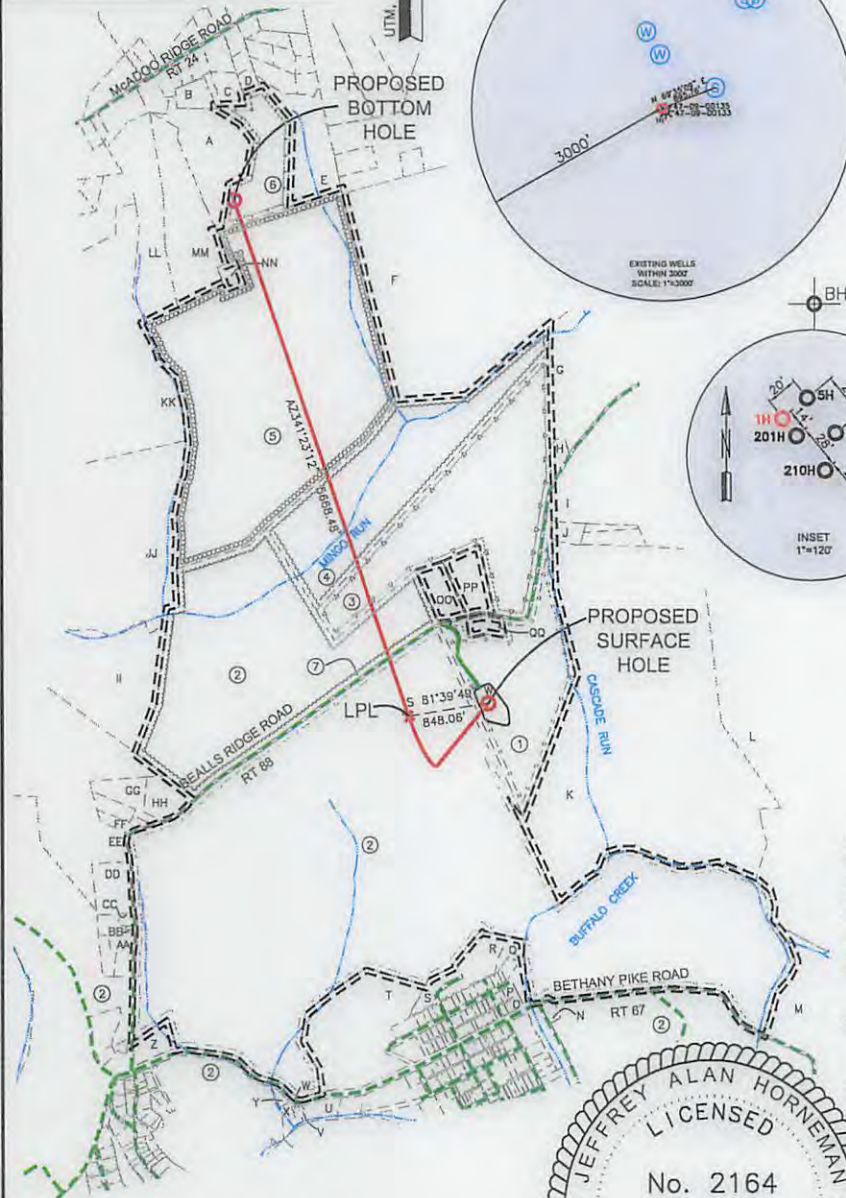
ELK LAKE SERVICES, LLC

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

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,451,762.41 EASTING: 537,844.11
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,451,717.38 EASTING: 537,591.83
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,453,344.68 EASTING: 537,013.23

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	KIMBERLY CARMAN WORTHLEY (S) COLONIAL CORP, A NEVADA CORP, & KIMBERLY J. CARMAN AKA KIMBERLY J. WORTHLEY, A MARRIED WOMAN DEALING IN HER SASP (R)	3-838-27	40.00
2	BETHANY COLLEGE	3-838-31	822.26
3	JEFFREY W. HENSLER	3-838-27.1	60.44
4	JEFFREY W. HENSLER	3-838-28	63.10
5	MARK A. & GEORGIA M. FEDAK	3-838-14	142.67
6	MARK A. & GEORGIA M. FEDAK	3-833-77.2	14.16
7	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	BEALLS RIDGE ROAD	3.39

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	MARK A. & GEORGIA M. FEDAK	3-833-77	12.7300
B	GEORGIA M. & MARK A. FEDAK	3-833-77.1	2.3400
C	WILLIAM B. & CECILIA A. DUMAS	3-833-89	2.0000
D	PHILIP B. MAZZELLA	3-833-88	1.1300
E	DALE C. JR. & DELVIRA HUKILL	3-833-85	12.6100
F	SPORTSMANS FARMERS ASSN	3-838-17	101.0000
G	MARK OWEN WEAVER & VIRGINIA BEALL KREUTZ	3-838-19	249.0000
H	KEVIN SCOTT & LISA KAY STEWART	3-838-20	1.0600
I	MARK WEAVER OWEN & VIRGINIA BEALL KREUTZ	3-838-19	249.0000
J	LANCE M. ELSON	3-838-21	1.6180
K	KIMBERLY CARMAN WORTHLEY	3-838-25	136.0000
L	MARK WEAVER OWEN & VIRGINIA BEALL KREUTZ	3-838-24	188.0000
M	TRUST OF GENE CHARLES VALENTINE	3-843-28	478.4400
N	RICHARD FRANCIS GORBY	3-843-27	0.8600
O	JAMES & KATHLEEN KEEGAN	2-843C-37	0.5000
P	BARBARA I. CHAMBERS	2-843C-36	0.3700
Q	BETHANY COLLEGE	2-843C-3	0.7300
R	BETHANY COLLEGE	2-843C-2	4.5000
S	BETHANY COLLEGE	2-843C-1	2.1000
T	BETHANY COLLEGE	1-843B-26	29.4590
U	TRAVIS G. & GREGORY B. STRAUB	2-843F-84	1.8800
V	GEORGE JR SONNEWALD	2-843F-82	0.2300
W	GEORGE JR SONNEWALD	2-843F-81	0.2200
X	WILLIAM MITCHELL HEIRS	2-843B-22	1.1250
Y	MITCHELL DONALD STEVEN	2-843F-83	0.1900
Z	JOHN HUFF HEIRS	2-843B-4	3.0000
AA	DANNY M. & SANDRA L. HOLLADAY	3-843-3	2.8410
BB	DENNIS & DERELLE RUSCHELL	3-843-2	0.1740
CC	DENNIS & DERELLE RUSCHELL	3-843-1	0.6170
DD	RUTH GERMON & JEFFREY WOY & SUE MOORE & PATRICIA WEST & SARA WOY	3-838-37	5.2780
EE	ALLEN JOHNSON & CHARLES WARREN ETAL	3-838-36	84.0000
FF	DAVID G. OWENS & LINDA WALTERS	3-838-35	1.9600
GG	DAVID G. OWENS & LINDA WALTERS	3-838-33	7.0400
HH	DAVID G. OWENS & LINDA WALTERS	3-838-32	3.8700
II	MELVIN E. PELUCCHETTE	3-837-63	109.3920
JJ	STARVAGGI INDUSTRIES INC	3-837-93	215.8000
KK	JOHN H JR- & STEPHANIE PROELLOCHS & KEVIN RAY	3-838-7	103.9830
LL	JOHN H JR- & STEPHANIE PROELLOCHS & KEVIN & JODY RAY	3-838-12	20.2600
MM	MARK A. & GEORGIA M. FEDAK	3-838-13	18.7400
NN	MARK ALBERT & ASHLEY L. FEDAK	3-838-14.1	1.4400
OO	CHARLES F. & DONNA BROWN	3-838-30	4.1800
PP	JEFFREY WILLIAM HENSLER	3-838-29	5.3300
QQ	CARRINGTON MORTGAGE SERVICES, LLC	3-838-26	1.9500



WELL RESTRICTIONS

1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 896 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.
- ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.
WELLBORE PARCELS ARE DESIGNATED WITH UNIQUE LINE TYPES.

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.



COMPANY: **SWN** Production Company, LLC

SWN 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 #: 1H API WELL #: 47 STATE 9 COUNTY 00224 PERMIT
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1156.3'

DISTRICT: BUFFALO COUNTY: BROOKE COUNTY QUADRANGLE: BETHANY

SURFACE OWNER: KIMBERLY CARMAN WORTHLEY ACREAGE: ±40.00

OIL & GAS ROYALTY OWNER: COLONIAL CORP, A NEVADA CORP, & KIMBERLY J. CARMAN AKA KIMBERLY J. WORTHLEY, A MARRIED WOMAN DEALING IN HER SASP ACREAGE: ±40.00

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: 6,024' TVD 12,132' TMD

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

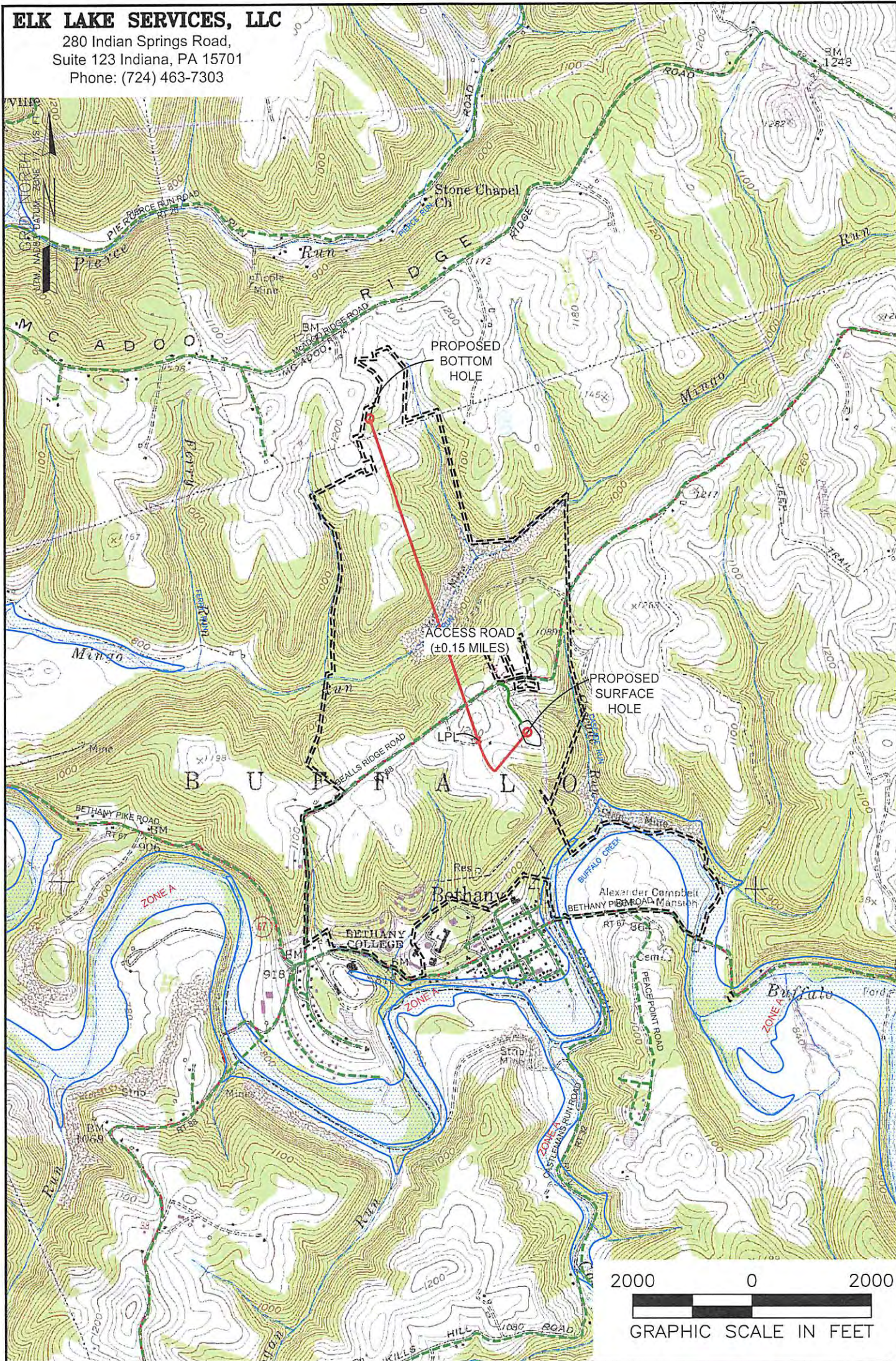
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300

CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD LPL * LANDING POINT LOCATION (W) EXISTING WATER WELL (S) EXISTING SPRING	— SURVEYED BOUNDARY - - - DRILLING UNIT - - - LEASE BOUNDARY - - - PROPOSED PATH	REVISIONS: DATE: 08-01-2017 FILE NO: 17-02 DRAWN BY: S. DUTKO SCALE: 1" = 2000' DRAWING NO: 1 WELL LOCATION PLAT 1
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3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

RECEIVED
Office of Oil and Gas

AUG 3 2017

WV Department of
Environmental Protection

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ☼ EXISTING / PRODUCING WELLHEAD
- LPL ✕ LANDING POINT LOCATION
- 🌊 FLOOD PLAIN

- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

10/13/2017

WELL OPERATOR:
SWN PRODUCTION COMPANY, LLC
ADDRESS:
P.O. BOX 1300 JANE LEW, WV 26378
SURFACE OWNER:
KIMBERLY CARMAN WORTHLEY

WELL (FARM) NAME: WORTHLEY BRK		WELL # 1H	SERIAL # XXXX
COUNTY BROOKE COUNTY - 9		DISTRICT: BUFFALO	
USGS 7 1/2 QUADRANGLE MAP NAME BETHANY, WV			