

Latitude: 39°47'30" SURFACE HOLE 8910'

Latitude: 39°45'00" BOTTOM HOLE 4924'

**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: 4,400,581.36  
EASTING: 532,978.88

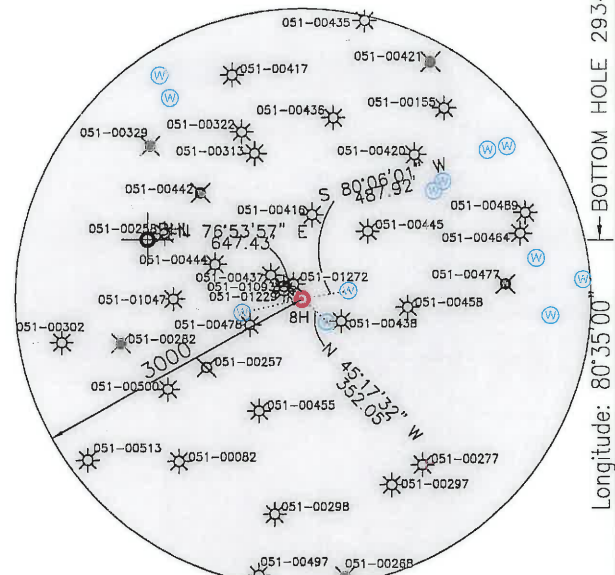
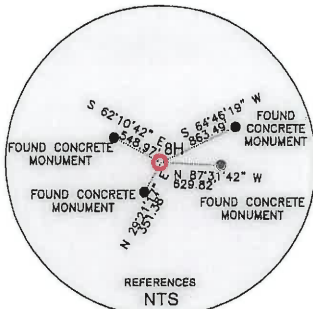
**LANDING POINT (LPL):**

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,400,325.04  
EASTING: 532,942.95

**BOTTOM HOLE LOCATION (BHL):**

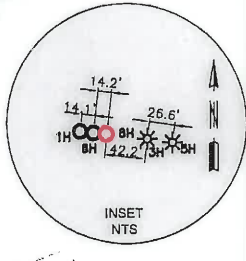
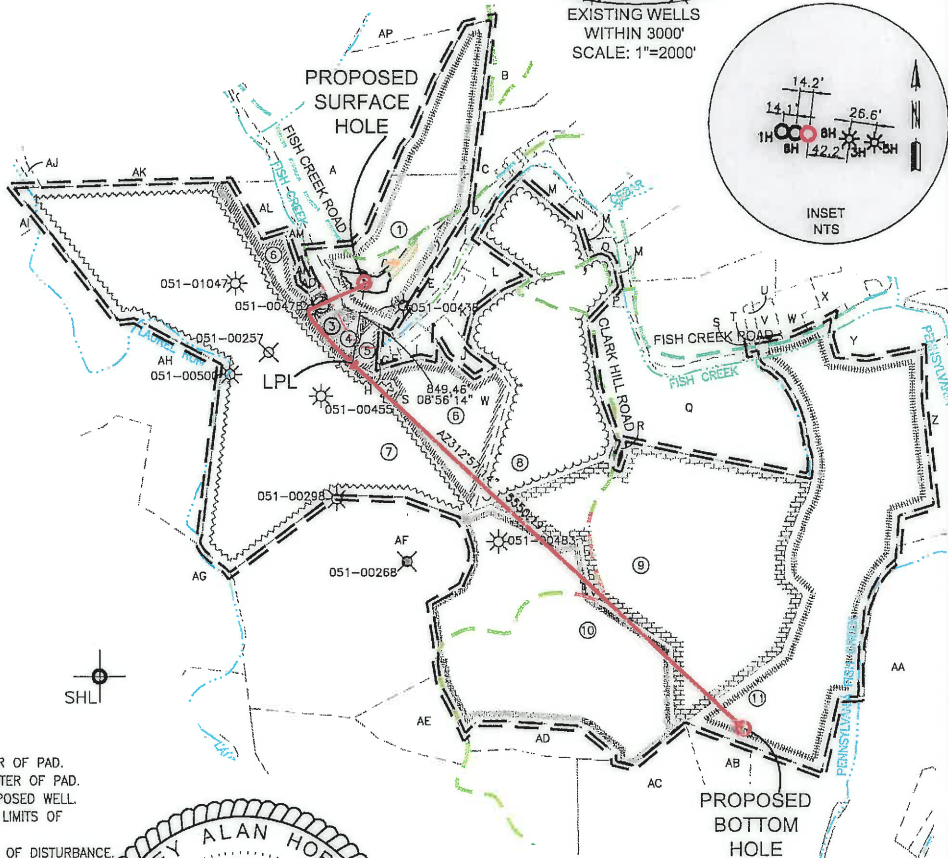
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,399,193.52  
EASTING: 534,199.78

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



| TRACT | SURFACE OWNER (S) / ROYALTY OWNER (R)  | TAX PARCEL | ACRES      |
|-------|--|------------|------------|
| 1     | COLUMBIA GAS TRANSMISSION, LLC (S)<br>WILMA M GATTEN, F/K/A WILMA G KESTNER, A WIDOW (R) | 7-19-10    | 55.150000  |
| 2     | CAROLYN JO MORRIS  | 7-19-5     | 1.327000   |
| 3     | CAROLYN RUTH FRANCIS   | 7-19-7     | 2.400000   |
| 4     | CAROLYN JO MORRIS  | 7-19-8     | 1.304900   |
| 5     | MICHAEL T. WHITMORE & CARLA M. ALLEY, JT   | 7-19-8.8   | 2.400000   |
| 6     | MASON DIXON FARMS, LLC   | 7-19-8.8   | 60.000000  |
| 7     | MASON DIXON FARMS, LLC   | 7-19-1     | 138.750000 |
| 8     | JOHN M. AND TERESA L. HORNER, HIS WIFE   | 7-19-12    | 75.050000  |
| 9     | PEGGY M. GRIBBEN   | 7-19-29    | 115.490000 |
| 10    | DELROSE A. HORNER, LIFE ESTATE   | 7-19-30    | 119.635000 |
| 11    | REVOCALE LIVING TRUST OF M. PEGGY GRIBBEN  | 7-19-28    | 112.160000 |

| TRACT | SURFACE OWNER                        | TAX PARCEL | ACRES     |
|-------|--------------------------------------|------------|-----------|
| A     | MASON DIXON FARMS, LLC               | 7-16-7     | 64.7300   |
| B     | JOHN DEAN BRIGGS, ET UX              | 7-16-4     | 81.2500   |
| C     | TAMARA L. CHELETTE                   | 7-16-9     | 11.2000   |
| D     | EDWARD L. GILBERT                    | 7-19-12.1  | 1.0000    |
| E     | MARY ESTHER GRIMM, LIFE ESTATE       | 7-19-10.1  | 4.6334    |
| F     | RODNEY J. WALLACE, ET UX             | 7-19-40    | 0.4200    |
| G     | WALTER A. GUZEK JR., ET AL           | 7-19-41    | 1.5400    |
| H     | LAWRENCE PAUL CHAMBERS               | 7-19-9     | 0.5700    |
| I     | JEREMIAH & ANDREA MAGERS             | 7-19-9     | 1.0000    |
| J     | JEREMIAH & ANDREA MAGERS             | 7-19-8.1   | 3.0000    |
| K     | DIANE LEE RINE                       | 7-19-11    | 1.7800    |
| L     | JEREMIAH & ANDREA MAGERS             | 7-19-8     | 3.5700    |
| M     | JOHN C. & SONIA M. RICHARDS          | 7-19-13    | 6.4500    |
| N     | JOHN C. & SONIA M. RICHARDS          | 7-19-14    | 1.8700    |
| O     | STEVEN D. & SHERRI A. ZELIC          | 7-19-16    | 1.0000    |
| P     | JOHN M. & TERESA L. HORNER           | 7-19-17    | 1.0300    |
| Q     | NICK ZELIC, ET UX                    | 7-19-27    | 36.0000   |
| R     | WVA DEPT. OF HIGHWAYS                | 7-19-29.1  | 0.3610    |
| S     | CHURCH OF CHRIST, TRUSTEES           | 7-19-25    | 0.2500    |
| T     | JAMES E. REGIEC, SR. ET AL           | 7-19-24    | 0.0600    |
| U     | JAMES E. REGIEC, SR. ET AL           | 7-19-23.1  | 1.1700    |
| V     | JAMES E. JR. & GINGER E. REGIEC      | 7-19-23.2  | 2.3900    |
| W     | JAMES E. & JAMIE ANN DRUSCHEL        | 7-19-23    | 4.4200    |
| X     | GAIL CUMPTON                         | 7-19-20    | 14.7300   |
| Y     | ROBERT THOMAS BARR                   | 7-16-25.1  | 75.7900   |
| Z     | BRAD FROMHART, ET UX, LIFE ESTATE    | 7-20-41    | 57.0000   |
| AA    | WEST VIRGINIA WILDLIFE RESOURCES     | 7-24-1     | 1842.2600 |
| AB    | JAMES E. MORGAN, LIFE ESTATE         | 7-25-14    | 73.6600   |
| AC    | JENNIFER L. & VICTOR A. ROMACK       | 7-19-38    | 49.8100   |
| AD    | ROBERT A. & ROSE M. TEDROW           | 7-19-30.1  | 10.2400   |
| AE    | MARY L. CHAMBERS                     | 7-19-31    | 18.0000   |
| AF    | JOHN M. & TERESA L. HORNER           | 7-19-32    | 90.7600   |
| AG    | MASON DIXON FARMS, LLC               | 7-18-7     | 91.0600   |
| AH    | MASON DIXON FARMS, LLC               | 7-18-6     | 95.5000   |
| AI    | MASON DIXON FARMS, LLC               | 7-17-36    | 140.0000  |
| AJ    | JAMES ROBERT WARREN & TIMOTHY WARREN | 7-17-34    | 5.8000    |
| AK    | MASON DIXON FARMS, LLC               | 7-17-33    | 217.0800  |
| AL    | MASON DIXON FARMS, LLC               | 7-19-8.9   | 6.0700    |
| AM    | MICHAEL E. & DONNA D. RICHARDS       | 7-19-8.2   | 1.0000    |
| AN    | TERESA LYNETTE POPECK                | 7-19-3     | 0.5500    |
| AO    | MICHAEL E. & DONNA D. RICHARDS       | 7-19-3     | 0.5100    |
| AP    | JACK J. BRIGGS                       | 7-16-5     | 37.8800   |



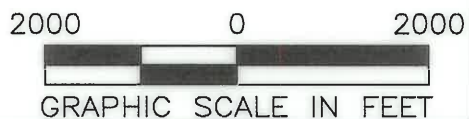
**WELL RESTRICTIONS**

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 352 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.
4. 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

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

COMPANY: **SWN** Production Company, LLC  
 COLUMBIA GAS TRANSMISSION MSH  
 OPERATOR'S WELL #: 8H  
 API WELL #: **47** STATE **51** COUNTY **01941** PERMIT

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 783.6'

DISTRICT: LIBERTY COUNTY: MARSHALL COUNTY QUADRANGLE: CAMERON, WV

SURFACE OWNER: COLUMBIA GAS TRANSMISSION, LLC ACREAGE: ±55.150000

OIL & GAS ROYALTY OWNER: WILMA M GATTEN, F/K/A WILMA G KESTNER, A WIDOW ACREAGE: ±55.150000

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: 6,648' **09/01/2017**

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:                               | REVISIONS:            | DATE:                |
|---------------------------------------|-----------------------|----------------------|
| ○ PROPOSED SURFACE HOLE / BOTTOM HOLE | — SURVEYED BOUNDARY   | 06-13-2017           |
| ⊙ EXISTING / PRODUCING WELLHEAD       | — DRILLING UNIT       | FILE NO: 16-54       |
| ⊙ ABANDONED WELL                      | === LEASE BOUNDARY    | DRAWN BY: A. BLACK   |
| ⊙ PLUGGED & ABANDONED WELL            | — PROPOSED PATH       | SCALE: 1" = 2000'    |
| LPL ⊙ LANDING POINT LOCATION          | ⊙ EXISTING WATER WELL | DRAWING NO: 1        |
|                                       | ⊙ EXISTING SPRING     | WELL LOCATION PLAT 1 |

**ELK LAKE SERVICES, LLC**

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



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4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD TO PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

09/01/2017

**WELL OPERATOR:**  
SWN PRODUCTION COMPANY, LLC  
**ADDRESS:**  
P.O. BOX 1300 JANE LEW, WV 26378  
**SURFACE OWNER:**  
COLUMBIA GAS TRANSMISSION, LLC

|   |                             |                         |
|---|-----------------------------|-------------------------|
| <b>WELL (FARM) NAME:</b><br>COLUMBIA GAS TRANSMISSION MSH | <b>WELL #</b><br>8H         | <b>SERIAL #</b><br>XXXX |
| <b>COUNTY</b><br>MARSHALL COUNTY - 51                     | <b>DISTRICT:</b><br>LIBERTY |                         |
| <b>USGS 7 1/2 QUADRANGLE MAP NAME</b><br>CAMERON, WV      |                             |                         |