

ELK LAKE SERVICES, LLC

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

Latitude: 40°12'30"

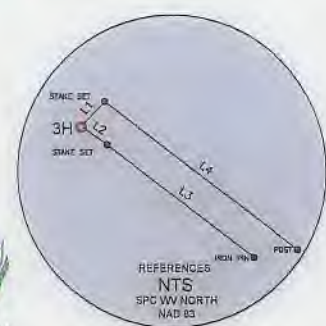
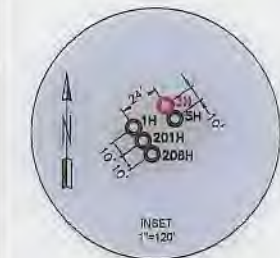
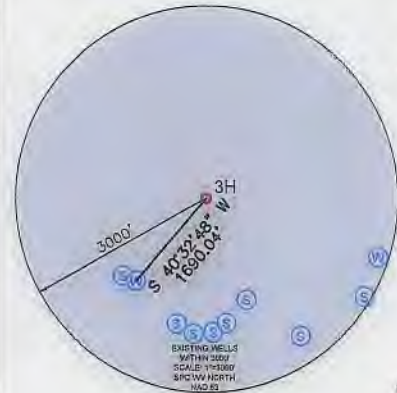
Latitude: 40°12'30"

SURFACE HOLE 5425'

BOTTOM HOLE 7906'

| |
|-------------------------------------|
| SURFACE HOLE LOCATION (SHL): |
| UTM (NAD83, ZONE 17, METERS): |
| NORTHING: 4,448,999.61 |
| EASTING: 537,361.52 |
| LANDING POINT (LPL): |
| UTM (NAD83, ZONE 17, METERS): |
| NORTHING: 4,448,963.10 |
| EASTING: 537,357.82 |
| BOTTOM HOLE LOCATION (BHL): |
| UTM (NAD83, ZONE 17, METERS): |
| NORTHING: 4,450,806.20 |
| EASTING: 536,596.17 |

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



| LINE | BEARING | DISTANCE |
|------|---------------|----------|
| L1 | N 43°04'38" E | 354.13' |
| L2 | S 54°57'47" E | 328.46' |
| L3 | S 52°36'46" E | 1927.86' |
| L4 | S 52°42'21" E | 2535.38' |

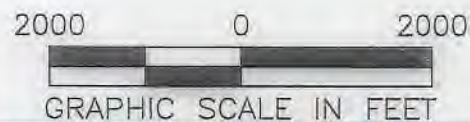
WELL RESTRICTIONS

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 1691 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

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> | <p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAD 83, US FT)</p> | <p>COMPANY: SAMUEL JONES BRK</p> <p>OPERATOR'S WELL #: 3H</p> <p>API WELL #: 47 9 00268 STATE COUNTY PERMIT</p> |
| | <p>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"/></p> <p>WATERSHED: UPPER OHIO SOUTH ELEVATION: 1205.4'-PLANNED</p> <p>DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY</p> <p>SURFACE OWNER: JONES SAMUEL E. AND JUDITH F. ACREAGE: ±164.70</p> <p>OIL & GAS ROYALTY OWNER: RESOURCE MINERALS HEADWATER I, LP ACREAGE: ±164.70</p> <p>DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/></p> <p>CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,108' TVD 13,057 TMD</p> | <p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC</p> <p>ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378</p> <p>DESIGNATED AGENT: DEE SOUTHALL</p> <p>ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378</p> |
| <p>LEGEND:</p> <ul style="list-style-type: none"> PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LPL: LANDING POINT LOCATION EXISTING WATER WELL EXISTING SPRING SURVEYED BOUNDARY DRILLING UNIT LEASE BOUNDARY PROPOSED PATH | | <p>REVISIONS:</p> <p>DATE: 04-30-2018</p> <p>FILE NO: 17-02</p> <p>DRAWN BY: N.LASSAK</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO: 1</p> <p>WELL LOCATION PLAT 1</p> |



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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 (S) / RESOURCE MINERALS HEADWATER I, LP (R) | 3-B43-60 |
| TRACT | SURFACE OWNER | TAX PARCEL |
| 2 | CORWIN, BRIAN DAVID | 3-B43-22 |
| 3 | BETHANY COLLEGE | 3-B38-31 |
| 4 | SAWTARIE, FUJIKO OGURI | 2-B43F-14 |
| 5 | VALENTINE, GENE CHARLES THE TRUST OF | 2-B43F-26 |
| 6 | SYKES, JOANNE | 2-B43F-50 |
| 7 | FORSTY, JANICE L (L EST-MARY J FORSTY) | 2-B43F-49 |
| 8 | AYERS, THOMAS M | 2-B43F-48 |
| 9 | SMITH, RYAN & BROOKE | 2-B43F-57 |
| 10 | WEPPLER, RANDALL J & CYNTHIA | 2-B43F-58 |
| 11 | BETHANY COLLEGE | 2-B43F-59 |
| 12 | BETHANY COLLEGE | 2-B43F-60 |
| 13 | BETHANY COLLEGE | 2-B43F-78 |
| 14 | BETHANY COLLEGE | 2-B43F-77 |
| 15 | BETHANY COLLEGE | 2-B43F-76 |
| 16 | BETHANY COLLEGE | 2-B43F-75 |
| 17 | LOZIER, JOHN W & CORAL | 2-B43F-65 |
| 18 | LYONS, THOMAS PAUL | 2-B43F-71 |
| 19 | WILLIAMSON, GRAY; HATZOPOULOS, SYDMA | 2-B43B-15 |
| 20 | BETHANY COLLEGE | 2-B43F-69 |
| 21 | BETHANY COLLEGE | 2-B43F-68 |
| 22 | BETHANY COLLEGE | 2-B43B-07 |
| 23 | BETHANY COLLEGE | 2-B43B-06 |
| 24 | W. RANDOLPH COOEEY AND LINDA F. COOEEY | 2-B43B-09 |
| 25 | W. RANDOLPH COOEEY AND LINDA F. COOEEY | 2-B43B-10 |
| 26 | KEENER, EARL R & PAMELA (SURV) | 2-B43B-5 |
| 27 | W. RANDOLPH COOEEY AND LINDA F. COOEEY | 2-B43B-11 |
| 28 | WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS | BETHANY PIKE |
| 29 | MYERS, YVONNE B | 2-B43B-2 |
| 30 | BETHANY COLLEGE, TRUSTEES OF (SURV) | 2-B43B-1 |

| ADJOINING OWNERS TABLE | | |
|------------------------|---|------------|
| TRACT | SURFACE OWNER | TAX PARCEL |
| A | JOHNSON, ALLEN; WARREN, CHARLES ETAL | 3-B38-36 |
| B | GERMON, RUTH; WOY, JEFFREY; MOORE, SUE; WEST, PATRICIA; WOY, SARA | 3-B38-37 |
| C | HOLLADAY, DANNY M & SANDRA L (SURV) | 3-B43-3 |
| D | KISNER, GARLAND | 3-B43-4 |
| E | BETHANY COLLEGE | 3-B38-31 |
| F | ROTHWELL, JOHN T & PAULA JEAN (SURV) | 2-B43B-3 |
| G | HUFF, JOHN HEIRS | 2-B43B-4 |
| H | SUTHERLAND, PATRICK J | 2-B43B-12 |
| I | BETHANY COLLEGE | 2-B43B-13 |
| J | BETHANY COLLEGE | 2-B43B-14 |
| K | LYONS, THOMAS PAUL | 2-B43F-72 |
| L | BETHANY COLLEGE | 2-B43F-73 |
| M | D'AURORA, DOMINICK A & THERESA (SURV) | 2-B43F-40 |
| N | KREISBERG, ROBERT & MELINDA (SURV) | 2-B43-80 |
| O | BETHANY COLLEGE | 2-B43B-16 |
| P | BETHANY COLLEGE | 2-B43B-17 |
| Q | GROUX, HARRY W & SANDRA K (SURV) | 2-B43B-18 |
| R | GROUX, HARRY W & SANDRA K (SURV) | 2-B43B-19 |
| S | BETHANY COLLEGE | 2-B43B-20 |
| T | BETHANY COLLEGE | 2-B43B-21 |
| U | MANUFACTURERS LIGHT & HEAT CO | 2-B43B-27 |
| V | MITCHELL, WILLIAM HEIRS | 2-B43B-22 |
| W | MITCHELL, DONALD STEVEN | 2-B43F-83 |
| X | MITCHELL, WILLIAM HEIRS | 2-B43B-22 |
| Y | BETHANY COLLEGE | 3-B43-31 |
| Z | BETHANY TOWN OF | 2-B43F-88 |
| AA | BETHANY TOWN OF | 2-B43F-87 |
| AB | BETHANY TOWN OF | 2-B43F-86 |
| AC | BETHANY TOWN OF | 3-B43-32 |

| ADJOINING OWNERS TABLE | | |
|------------------------|---|------------|
| TRACT | SURFACE OWNER | TAX PARCEL |
| AD | VALENTINE, GENE C TRUS OF 11/28/86 | 3-B43-33 |
| AE | FONNER, MARY LOU | 3-B43-58 |
| AF | PUSKARICH, TRACY T | 3-B43-59 |
| AG | CHAMBERS, ROBERT M & CHARLOTTE A | 3-B48-24 |
| AH | AYERS, ALBERT GLENN & REBECCA ANN (SURV) | 3-B43-61 |
| AI | CHAMBERS, ROBT M & CHARLOTTE A | 3-B48-23 |
| AJ | NORDEN, ANNA MAE | 3-B48-22 |
| AK | PYLE, LAWRENCE RAY & JUDITH A | 3-B48-18 |
| AL | BONAR, CHARLES W & CHARLOTTE (SURV) | 3-B48-15 |
| AM | BONAR, CHARLES W & CHARLOTTE (SURV) | 3-B48-14 |
| AN | BONAR, CHARLES W & CHARLOTTE (SURV) | 3-B48-1 |
| AO | COX, WILLIAM BRITT | 3-B43-21 |
| AP | STONE, MARION PYLE | 3-B43-20 |
| AQ | STONE, MARION PYLE | 3-B43-19 |
| AR | WHITEHEAD, SILVEA MAZZELLA | 3-B43-18 |
| AS | MCCEEHAN, JOYCE ANN | 3-B43-17 |
| AT | MCCEEHAN, JOYCE | 3-B43-23 |
| AU | CORWIN, BRIAN DAVID (LE-MARION PYLE STONE) | 3-B43-25 |
| AV | CORWIN, BRIAN | 3-B43-26 |
| AW | BETHANY COLLEGE | 3-B38-31 |
| AX | CSAPLAR, WILFRID W; GUNASEGARAM, SAKUNTHALA W (SUR) | 2-B43F-2 |
| AY | RUGGIERO, RICHARD L & FELICITY | 2-B43F-3 |
| AZ | D'AURORA, DOMINICK A & THERESA (SURV) | 2-B43F-4 |
| BA | GRAHAM, LINDA | 2-B43F-5 |
| BB | RAHR, ROBERT P JR & PENNY K (SURV) | 2-B43F-6 |
| BC | REVEN, FRANK M & MARIAN | 2-B43F-7 |
| BD | PETTINI, JOSEPH P & BARBARA A (SURV) | 2-B43F-8 |
| BE | BURNS, JOHN THOMAS & ANNE E | 2-B43F-9 |
| BF | GIESMANN, JOHN C & SUSAN L | 2-B43F-10 |
| BG | DULLY, EDWARD A | 2-B43F-11 |
| BH | BOWN, ERIC H | 2-B43F-12 |
| BI | BETHANY COLLEGE | 2-B43F-13 |
| BJ | CUNNINGHAM, JOHN & PATRICIA | 2-B43F-15 |
| BK | DARSHAN, SHARMA R & CRYSTAL (JTWS) | 2-B43F-16 |
| BL | SACHS, ANDREW C & PAULA L (SURV) | 2-B43F-17 |
| BM | BETHANY COLLEGE | 2-B43F-18 |
| BN | BETHANY COLLEGE | 2-B43F-19 |
| BO | BETHANY COLLEGE | 2-B43F-20 |
| BP | BETHANY COLLEGE | 2-B43F-21 |
| BQ | BETHANY COLLEGE | 2-B43F-22 |
| BR | BETHANY COLLEGE | 2-B43F-23 |
| BS | VALENTINE GENE CHARLES THE TRUST OF | 2-B43F-24 |
| BT | FENDON, DEBORAH C | 2-B43F-25 |
| BU | MCVICAR, ROBERT L | 2-B43F-27 |
| BV | NEEL, CURTIS LEE & LOUANN (SURV) | 2-B43F-28 |
| BW | HOFFMAN, JOHN & CYNTHIA | 2-B43F-29 |
| BX | COBB, ROSEMARY JEANNE | 2-B43F-30 |
| BY | BUCKELEW, ALBERT R JR & SUSAN | 2-B43F-31 |
| BZ | ELTRINGHAM, THOMAS L & LAURI L (SURV) | 2-B43F-32 |
| CA | HULL, LIVING TR; JOHN & DEBRA | 2-B43F-33 |
| CB | MORGAN, KENNETH & JUDITH (SURV) | 2-B43F-34 |
| CC | FORRESTER, JAMES R JR & CAROLYN | 2-B43F-35 |
| CD | HERVEY, DOUGLAS H & HOLLY (SURV) | 2-B43F-36 |
| CE | FURBEE, THOMAS; SHELEK, KATHERINE | 2-B43F-37 |
| CF | FURBEE, THOMAS; SHELEK-FURBEE, KATHERINE (SURV) | 2-B43F-38 |
| CG | BETHANY COLLEGE | 2-B43F-39 |
| CH | BETHANY COLLEGE | 2-B43F-40 |
| CI | BETHANY COLLEGE, THE TRUSTEES OF | 2-B43F-41 |
| CJ | BETHANY COLLEGE | 2-B43F-42 |
| CK | BETHANY COLLEGE | 2-B43F-43 |
| CL | KEMP, SHIRLEY J | 2-B43F-44 |
| CM | BETHANY COLLEGE | 2-B43F-46 |
| CN | NIELSEN, DOUGLAS G | 2-B43F-47 |
| CO | SYKES, JOANNE | 2-B43F-51 |
| CP | BOUWENS, WAYNE NEIL & JAY ALAN | 2-B43F-52 |
| CQ | BOUWENS, WAYNE NEIL (TUD) JOHNSTON, GRETCHEN, KYLE & NEIL | 2-B43F-53 |
| CR | MOURATIDIS, KOSMAS (LC- ROBERT & NECOL DUNSON | 2-B43F-54 |
| CS | CUNNINGHAM, JOHN & PATRICIA L (SURV) | 2-B43F-55 |
| CT | KANOTZ, ASHLEY L & A SCOTT | 2-B43F-56 |
| CU | BETHANY COLLEGE | 2-B43F-79 |
| CV | BETHANY COLLEGE | 2-B43F-81 |
| CW | PAYSEN, ROBERT A | 2-B43F-62 |
| CX | BETHANY COLLEGE | 2-B43F-63 |
| CY | BETHANY COLLEGE | 2-B43F-64 |
| CZ | BETHANY COLLEGE | 2-B43F-66 |
| DA | LOVATO, DONNA SUE MARTIN | 2-B43F-67 |
| DB | FALCON, NED THOMAS & BILLIE JO | 2-B43B-6 |
| DC | BETHANY COLLEGE | 3-B38-31 |
| DD | THOMPSON, TERRY P & KAREN | 3-B38-38 |

| | | | |
|------------|------------|---|----------------------|
| REVISIONS: | COMPANY: |   | |
| | OPERATOR'S | SAMUEL JONES BRK | |
| | WELL #: | 3H | |
| | DISTRICT: | COUNTY: | STATE: |
| | BUFFALO | BROOKE | WV |
| | | | DATE: 04-30-2018 |
| | | | FILE NO: 17-02 |
| | | | DRAWN BY: N.LASSAK |
| | | | SCALE: N/A |
| | | | DRAWING NO: 1 |
| | | | WELL LOCATION PLAT 1 |