

LATITUDE: 40°17'30" SURFACE HOLE ← 1814' →

LATITUDE: 40°15'00" BOTTOM HOLE ← 11085' →

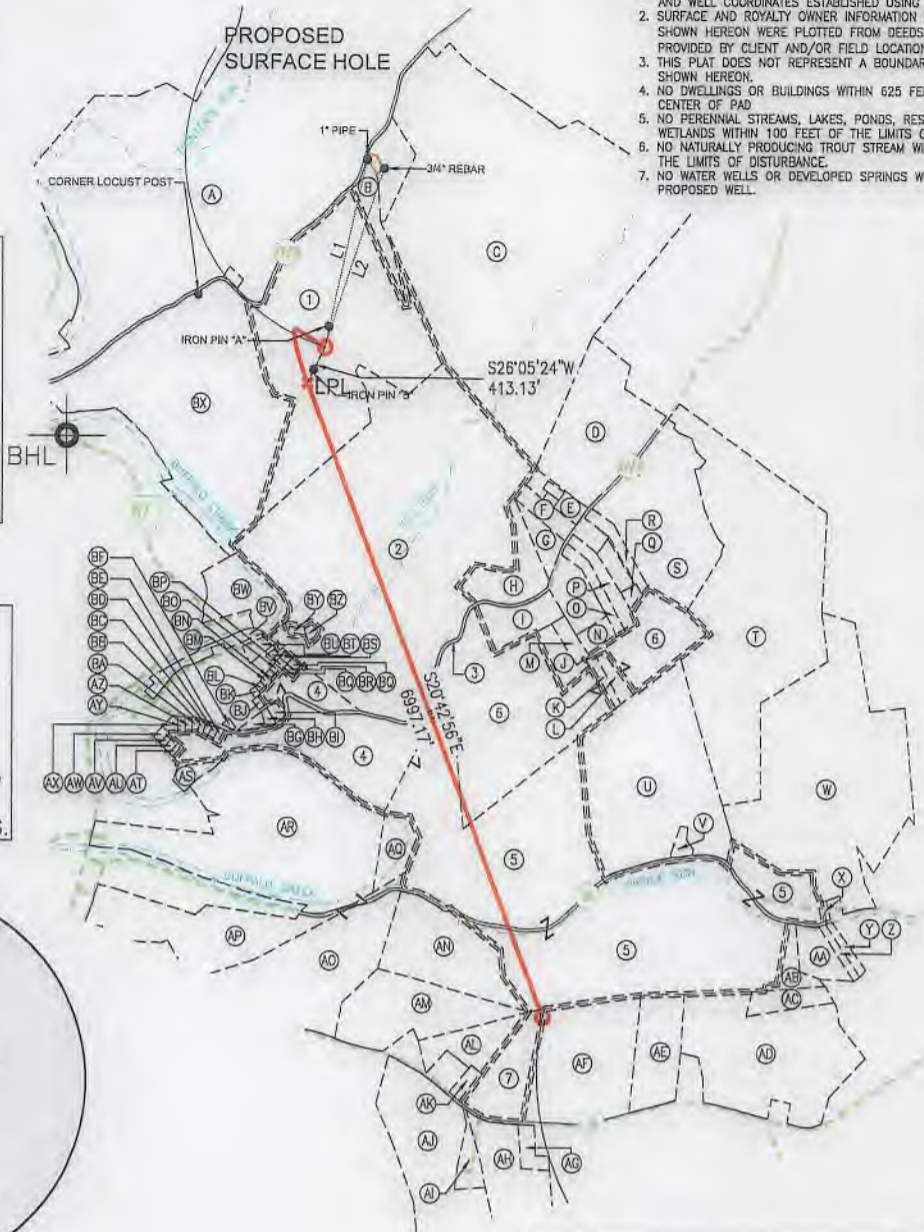


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St. Clairsville, Ohio 43950  
740-595-6100

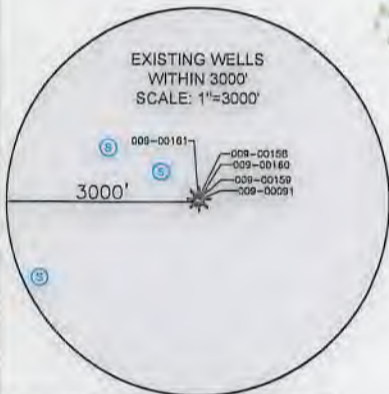
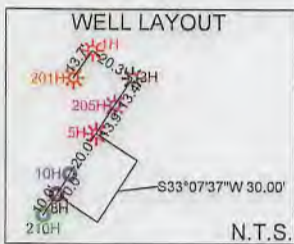
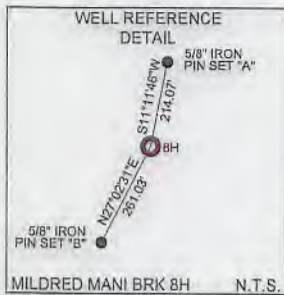
NOTES ON SURVEY

1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. 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.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD
5. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.



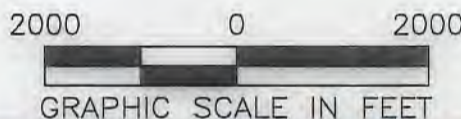
GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, US FT

LONGITUDE: 80°32'30" BOTTOM HOLE  
LONGITUDE: 80°35'00" SURFACE HOLE



|   |
|---|
| <b>SURFACE HOLE LOCATION (SHL):</b><br>UTM (NAD83, ZONE 17, METERS):<br>NORTHING: 4456009.96<br>EASTING: 534897.77  |
| <b>LANDING POINT LOCATION (LPL):</b><br>UTM (NAD83, ZONE 17, METERS):<br>NORTHING: 4455896.00<br>EASTING: 534844.32 |
| <b>BOTTOM HOLE LOCATION (BHL):</b><br>UTM (NAD83, ZONE 17, METERS):<br>NORTHING: 4453914.82<br>EASTING: 535631.74   |

| LINE | BEARING     | DISTANCE |
|------|-------------|----------|
| L1   | S12°49'31"W | 1997.61' |
| L2   | S18°26'16"W | 1958.49' |



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. 2041

COMPANY: **SWN** Production Company, LLC

|   |  |  |
|---|--|--|
| <p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP<br/>OFFICE OF OIL &amp; GAS<br/>601 57TH STREET<br/>CHARLESTON, WV 25034</p> | MINIMUM DEGREE OF ACCURACY: 1/200<br>PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT) | MILDRED MANI BRK<br>OPERATOR'S WELL #: 8H<br>API WELL #: 47 009 00282<br>STATE COUNTY PERMIT |
|---|--|--|

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,072.8'

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: STEUBENMILLE EAST, OH/BETHANY, WV

SURFACE OWNER: MILDRED MANI & MILES BAUER ACREAGE: ±95.00

OIL & GAS ROYALTY OWNER: MILDRED MANI & MILES BAUER ACREAGE: ±95.00

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: 5,798' TVD 13,052' TMD



WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY  
 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201  
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

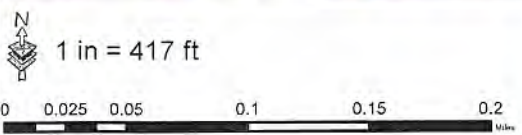
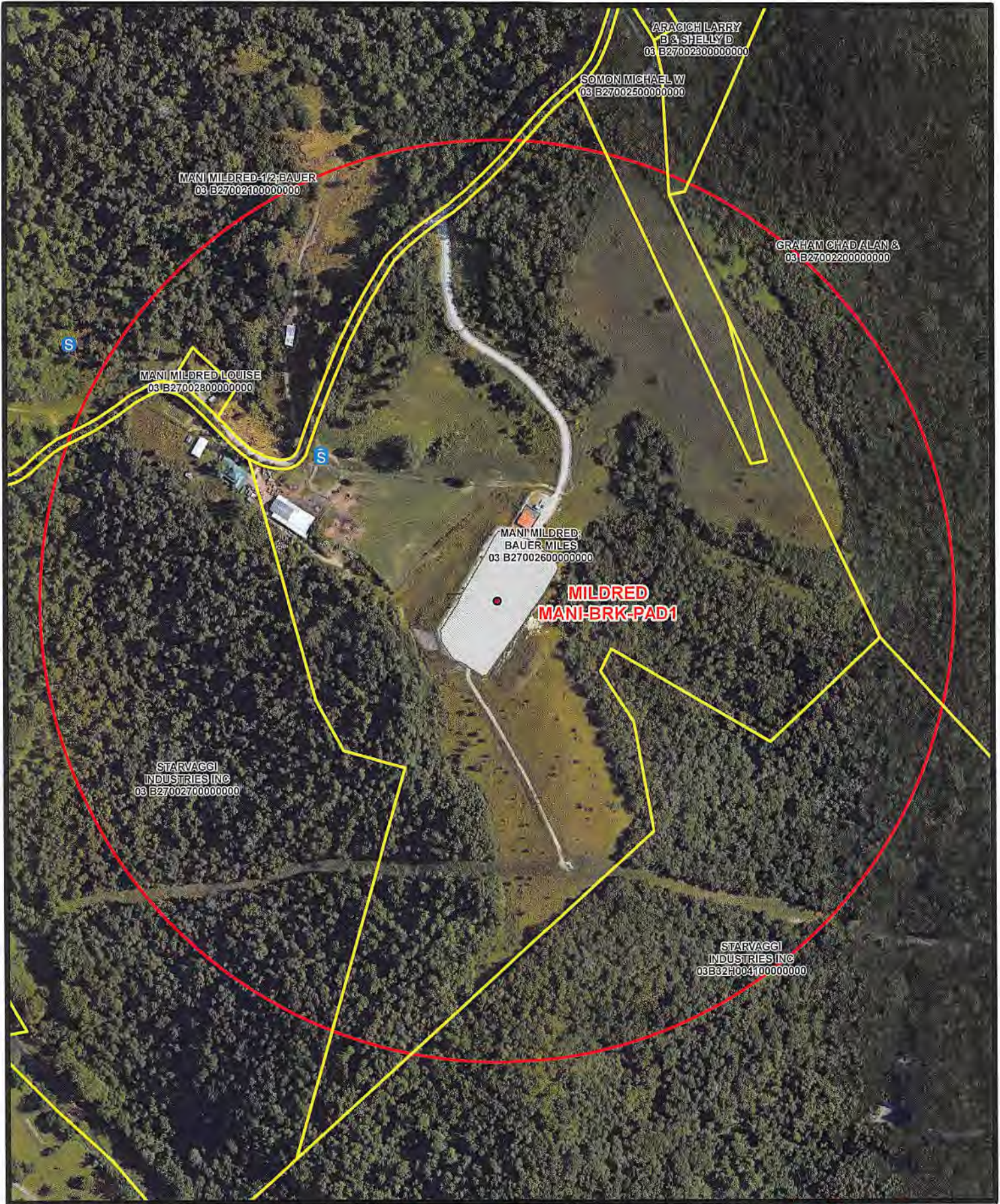
|  |   |                   |   |
|--|---|-------------------|---|
| <b>LEGEND:</b><br>○ PROPOSED SURFACE HOLE / BOTTOM HOLE<br>* EXISTING / PRODUCING WELLHEAD<br>LPL * LANDING POINT LOCATION<br>W EXISTING WATER WELL<br>S EXISTING SPRING | --- NATURAL WATERWAY<br>--- SURVEYED BOUNDARY<br>--- LEASE BOUNDARY<br>--- PROPOSED PATH<br>--- PUBLIC ROAD | <b>REVISIONS:</b> | DATE: 06-28-2019<br>API NO: 47-009-XXXX<br>DRAWN BY: D. REED<br>SCALE: 1" = 2000'<br>DRAWING NO: 2018-402<br>WELL LOCATION PLAT |
|--|---|-------------------|---|

| WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS |   |                       |
|--|---|-----------------------|
| TRACT  | SURFACE OWNER (S) / ROYALTY OWNER (R)                               | TAX PARCEL            |
| 1  | MILDRED MANI & MILES BAUER (S/R)                                    | 03-B27-26.0           |
| TRACT  | SURFACE OWNER   | TAX PARCEL            |
| 2  | STARVAGGI INDUSTRIES, INC.  | 03-B32H-41.0          |
| 3  | WEST VIRGINIA DEPARTMENT OF TRANSPORTATION,<br>DIVISION OF HIGHWAYS | GENTEEL RIDGE<br>ROAD |
| 4  | ALBERT & LOTTIE STEWART   | 03-B32H-50.0          |
| 5  | STARVAGGI INDUSTRIES, INC.  | 03-B33-54.0           |
| 6  | BEAR TRAK PROPERTIES, LLC   | 03-B33-10.2           |
| 7  | BRIAN BIRDSALL  | 03-B32-120.0          |

| ADJOINING OWNERS TABLE |  |              |
|------------------------|--|--------------|
| TRACT                  | SURFACE OWNER                                    | TAX PARCEL   |
| A                      | MILDRED MANI, MILES BAUER & ERIK BAUER           | 03-B27-21.0  |
| B                      | MICHAEL W. SIMON                                 | 03-B27-25.0  |
| C                      | CHAD ALAN & NICOLE TIFFANY GRAHAM                | 03-B27-22.0  |
| D                      | KATHRYN A. DEGARMO (A.K.A. KATHRYN A. YOUNG)     | 03-B33-20.4  |
| E                      | THOMAS M. & DEBORAH J. OLDAKER                   | 03-B33-01.0  |
| F                      | NAOMI BARNHART                                   | 03-B33-03.0  |
| G                      | ERIC SCOTT                                       | 03-B33-04.0  |
| H                      | GARY A., JR. & ANDREA MORRIS                     | 03-B33-05.0  |
| I                      | CAROL ANN WISNER                                 | 03-B33-06.0  |
| J                      | CHRISTY A. CYBULSKI                              | 03-B33-10.0  |
| K                      | JEFFREY L. MARTINDILL                            | 03-B33-09.0  |
| L                      | RICHARD C. & BONNIE K. OLENICK                   | 03-B33-08.0  |
| M                      | THOMAS F. & CHRISTY A. CYBULSKI                  | 03-B33-07.0  |
| N                      | EDWARD FRANK MARKER, III (L/E: DAKOTA J. MARKER) | 03-B33-11.0  |
| O                      | JAMES W. HAUGHT & JUSTINA J. HAUGHT              | 03-B33-15.0  |
| P                      | JAMES W. HAUGHT & JUSTINA L. HAUGHT              | 03-B33-16.0  |
| Q                      | ROBERT, JR. & CYNTHIA ANTILL                     | 03-B33-17.2  |
| R                      | JAMES W. MYERS (L/E: JAMES A. & JOANN MYERS)     | 03-B33-19.0  |
| S                      | ALAN H. DEGARMO & MARY KATHRYN HERVEY            | 03-B33-20.3  |
| T                      | PATRICK DEGARMO                                  | 03-B33-20.0  |
| U                      | STARVAGGI INDUSTRIES, INC.                       | 03-B33-55.0  |
| V                      | CHARLES STEWART                                  | 03-B33-55.1  |
| W                      | STARVAGGI INDUSTRIES, INC.                       | 03-B33-41.0  |
| X                      | CHARLES J. DIXON                                 | 03-B33-51.0  |
| Y                      | WELLS-GIST LAND COMPANY, LLC                     | 03-B33-47.0  |
| Z                      | LAWRENCE MCLAUGHLIN, II (L/E: GROVER LEE HAUGHT) | 03-B33-48.0  |
| AA                     | CARL & SOPHIA DEGARMO                            | 03-B33-49.0  |
| AB                     | PELUCHETTI FAMILY TRUST                          | 03-B33-52.0  |
| AC                     | PELUCHETTI FAMILY TRUST                          | 03-B33-53.0  |
| AD                     | DEBRA KAY PELAEZ                                 | 03-B33-71.0  |
| AE                     | GREG & REGINA ZOLMAN                             | 03-B33-69.0  |
| AF                     | SYLVIA ELIZABETH BARR (T.O.D. JOSEPH BEAVER)     | 03-B33-56.0  |
| AG                     | JOHN PRATHER GOOD, JR., IRREVOCABLE TRUST        | 03-B33-57.0  |
| AH                     | JOHN PRATHER GOOD, JR., IRREVOCABLE TRUST        | 03-B38-01.0  |
| AI                     | JOHN PRATHER GOOD, JR., IRREVOCABLE TRUST        | 03-B32-119.0 |
| AJ                     | MARSH LIVING TRUST (PHYLLIS MARSH, TRUSTEE)      | 03-B32-118.0 |
| AK                     | CRAIG & COURTNEY HAVELKA                         | 03-B32-121.0 |
| AL                     | CARLE LEWIS JONES & MAE DELCIE                   | 03-B32-124.0 |
| AM                     | EDWARD J. MARKER                                 | 03-B32-126.0 |
| AN                     | JAMES S. & ADRIENE N. ALLEN                      | 03-B32-98.0  |
| AO                     | JAMIE L. & LESLIE OHLER                          | 03-B32-99.1  |
| AP                     | MARK & GEORGIA FEDAK                             | 03-B32-99.0  |
| AQ                     | SAMUEL HERVEY HUBBARD                            | 03-B32-97.0  |
| AR                     | SAMUEL HERVEY HUBBARD                            | 03-B32-96.0  |
| AS                     | JAMES E. & ANNIETTE M. BEST                      | 03-B32-201.0 |
| AT                     | JADON LEWIS & MARY HELEN LISTON                  | 03-B32G-19.0 |
| AU                     | SAUNDRA LANCASTER                                | 03-B32G-20.0 |
| AV                     | HEIDI NOLAN                                      | 03-B32G-21.0 |
| AW                     | HEIDI NOLAN                                      | 03-B32G-22.0 |
| AX                     | MELVIN A. COLLEY, JR. & KATHY L. STEWART         | 03-B32G-31.0 |
| AY                     | DENNIS F. MCQUILLAN, JR.                         | 03-B32G-32.0 |
| AZ                     | CLARENCE LEE & DOLLY MAE PRATZ                   | 03-B32G-33.0 |
| BA                     | JONATHAN M. MCGOLDRICK                           | 03-B32G-34.0 |
| BB                     | HELEN V. TENNANT                                 | 03-B32G-35.0 |
| BC                     | ALBERT & LOTTIE J. STEWART                       | 03-B32G-37.0 |
| BD                     | ALLEN L. & TERESA A. MORRIS                      | 03-B32H-46.0 |
| BE                     | MARY KRUGER, LAURA KRUGER & HELEN KRUGER         | 03-B32H-47.0 |
| BF                     | ALBERT & LOTTIE STEWART                          | 03-B32H-31.0 |
| BG                     | DENNIS H. & ROSEMARIE AUBIN KELSEY               | 03-B32H-37.0 |
| BH                     | TED & CHERYL BOGGS                               | 03-B32H-38.0 |
| BI                     | DAVID HAMILTON                                   | 03-B32H-39.0 |
| BJ                     | SCOTT A. & FAITH L. LAW                          | 03-B32H-36.0 |
| BK                     | RICHARD P. & CLED M. TAYLOR                      | 03-B32H-27.0 |
| BL                     | RICHARD P. & CLED M. TAYLOR                      | 03-B32H-26.0 |
| BM                     | RICHARD P. & CLED M. TAYLOR                      | 03-B32H-25.0 |
| BN                     | JAMIE JORDAN                                     | 03-B32H-25.1 |
| BO                     | JAMIE ALAN JORDAN                                | 03-B32H-23.0 |
| BP                     | JAMIE ALAN JORDAN                                | 03-B32H-22.0 |
| BQ                     | WILLIAM E. JORDAN                                | 03-B32H-20.0 |
| BR                     | JAMIE ALAN JORDAN                                | 03-B32H-19.0 |
| BS                     | JEFFREY RAY, JR. & JOANEETTE STACIA JORDAN       | 03-B32H-21.0 |
| BT                     | CLYDE & CAROL JORDAN                             | 03-B32H-18.0 |
| BU                     | CLYDE & CAROL JORDAN                             | 03-B32H-41.1 |
| BV                     | UNKNOWN OWNER                                    | 03-B32G-63.0 |
| BW                     | BROOKE COUNTY SADDLE CLUB                        | 03-B32H-01.0 |
| BX                     | STARVAGGI INDUSTRIES, INC.                       | 03-B27-27.0  |
| BY                     | TRINA ARACICH                                    | 03-B32H-07.0 |
| BZ                     | TIMOTHY J. ARACICH                               | 03-B32H-08.0 |

REVISIONS:

|            |  |   |  |   |  |
|------------|--|---|--|---|--|
| COMPANY:   |  |  |  |  |  |
| OPERATOR'S |  | MILDRED MANI BRK  |  | DATE: 06-28-2019  |  |
| WELL #:    |  | 8H  |  | API NO: 47-009-XXXXX  |  |
| DISTRICT:  |  | COUNTY:   |  | STATE:  |  |
| BUFFALO    |  | BROOKE  |  | WV  |  |
|            |  |   |  | DRAWN BY: D. REED   |  |
|            |  |   |  | SCALE: N/A  |  |
|            |  |   |  | DRAWING NO: 2018-402  |  |
|            |  |   |  | WELL LOCATION PLAT  |  |



- S Spring
- W Water Well
- P Pond
- Parcel
- 1500' Buffer

**Water Purveyor Map**  
**Well Pad: Mildred Mani**  
**County: BRK**



Coordinate System: NAD 1983 UTM Zone 17N  
 Units: Meter

**Coordinates: 40.253838, -80.589665**

Date: 6/11/2019 Author: willisb