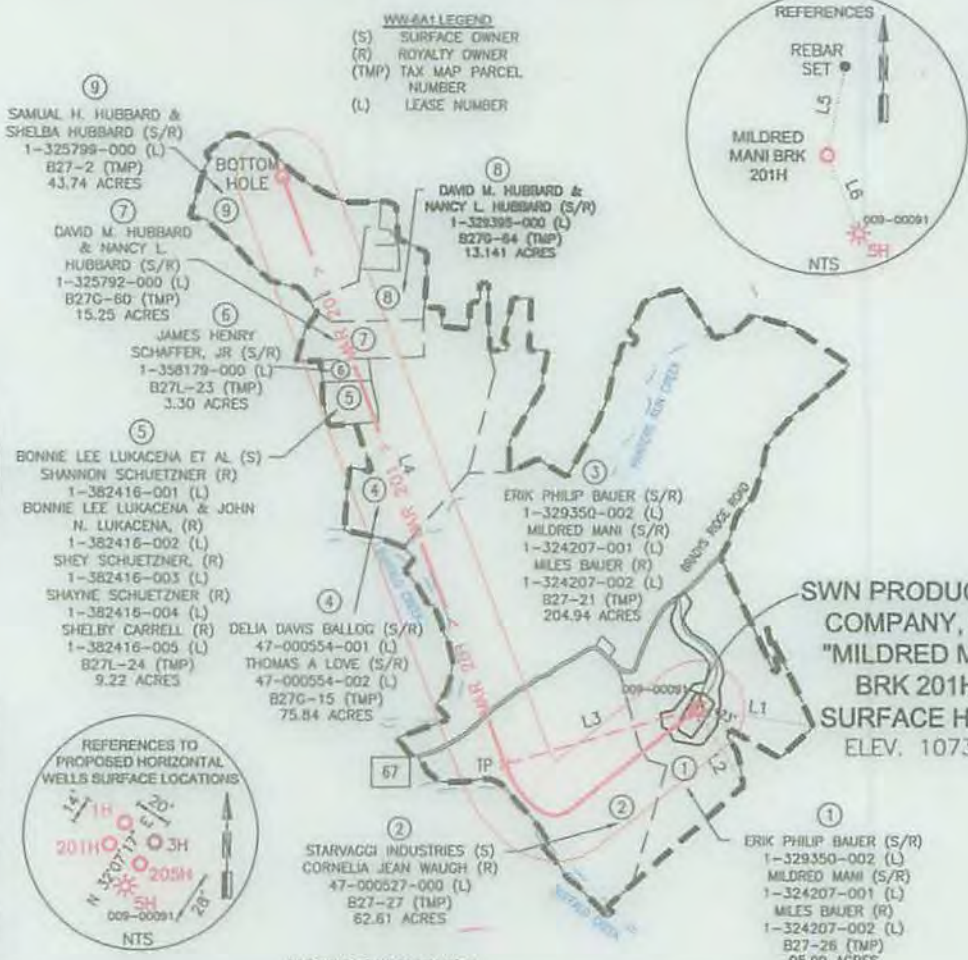


| LINE | BEARING | DISTANCE | DESCRIPTION | MONUMENT |
|------|---------------|----------|------------------|---|
| L1 | S 89°05'04" E | 1450.05' | SHL TO LANDMARK | FOUND IRON PIPE |
| L2 | S 47°57'10" E | 995.08' | SHL TO LANDMARK | FOUND IRON PIPE |
| L3 | S 73°47'11" W | 2132.46' | SHL TO TPL | |
| L4 | N 21°15'39" W | 6676.88' | TPL TO BHL | |
| L5 | N 11°04'38" E | 169.06' | SHL TO REF. PNT. | 1/2" REBAR SET |
| L6 | S 23°20'24" E | 24.51' | SHL TO REF. PNT. | MILDRED MANI BRK 5H WELL HEAD 009-00091 |

Latitude: 40°17'30"

Longitude: 80°35'00"

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



| |
|---|
| SURFACE HOLE LOCATION (SHL): |
| GEOGRAPHIC (NAD83): LATITUDE: 40.253950° LONGITUDE: -80.589622° |
| UTM (NAD83, ZONE 17, FEET): NORTHING: 14,619,473.940 EASTING: 1,754,918.683 |
| UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,024.569 EASTING: 534,899.675 |
| TURNING POINT LOCATION (TPL): |
| GEOGRAPHIC (NAD83): LATITUDE: 40.252341° LONGITUDE: -80.596971° |
| UTM (NAD83, ZONE 17, FEET): NORTHING: 14,618,878.518 EASTING: 1,752,869.037 |
| UTM (NAD83, ZONE 17, METERS): NORTHING: 4,455,843.084 EASTING: 534,275.551 |
| BOTTOM HOLE LOCATION (BHL): |
| GEOGRAPHIC (NAD83): LATITUDE: 40.269458° LONGITUDE: -80.605548° |
| UTM (NAD83, ZONE 17, FEET): NORTHING: 14,625,100.962 EASTING: 1,750,447.899 |
| UTM (NAD83, ZONE 17, METERS): NORTHING: 4,457,739.689 EASTING: 533,537.587 |

- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 1000 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

SURVEYED BY TRIPLE H ENTERPRISES, WEST UNION, WV.



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. 667 *Darrell R. Boice*

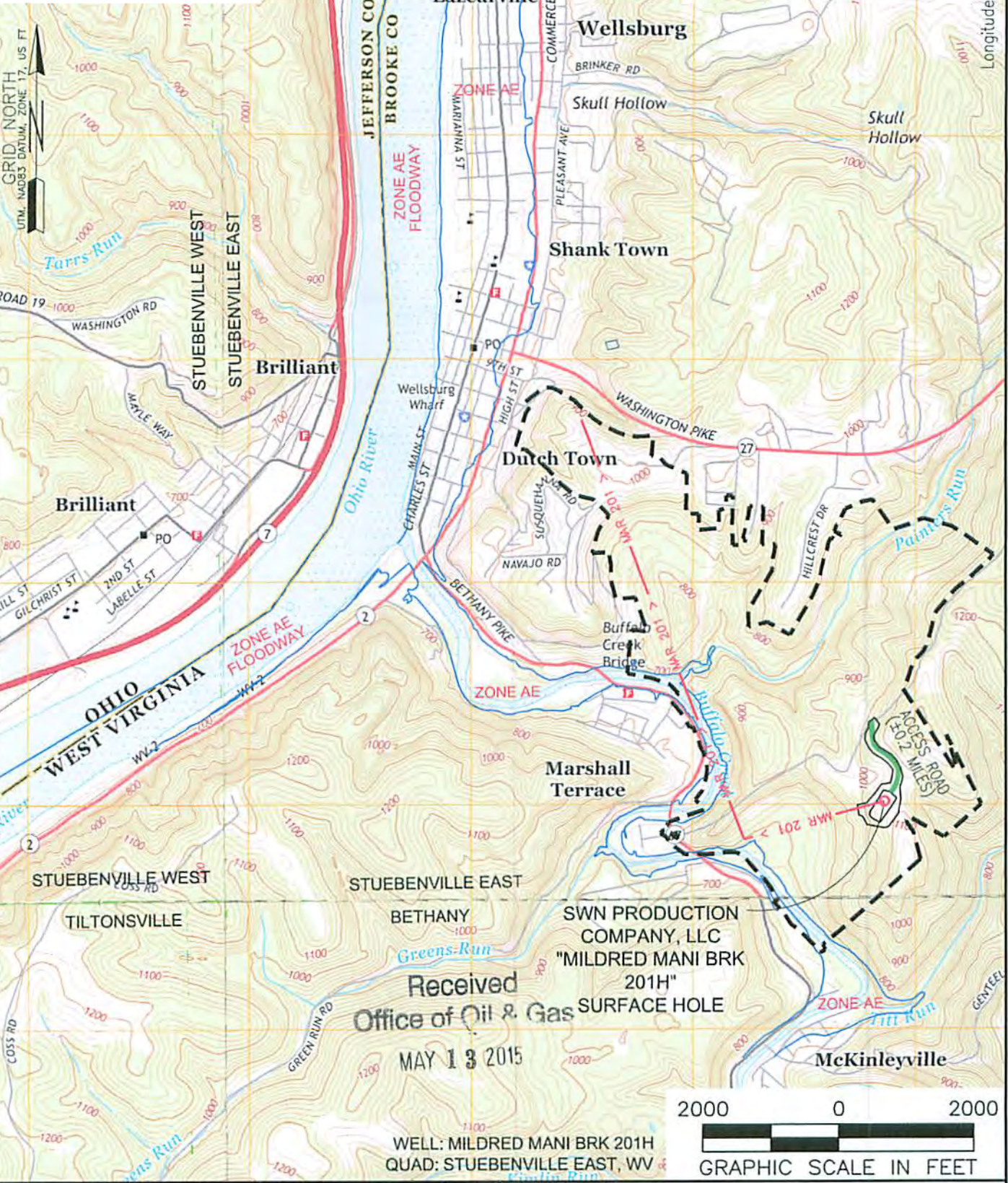
| | |
|---|---|
| <p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p> | <p>COMPANY: SWN Production Company, LLC</p> |
| | <p>OPERATOR'S WELL #: 47</p> <p>API WELL #: 47</p> <p>STATE: WV</p> |

| | | | | | | | |
|---|----------------|--------------------|---|---|-------------------------|---------|---|
| WELL TYPE: OIL | WASTE DISPOSAL | PRODUCTION | DEEP | GAS <input checked="" type="checkbox"/> | LIQUID INJECTION | STORAGE | SHALLOW <input checked="" type="checkbox"/> |
| WATERSHED: BUFFALO CREEK | | | | ELEVATION: 1073.1' | | | |
| DISTRICT: BUFFALO | | | | COUNTY: BROOKE | | | |
| SURFACE OWNER: MILDRED MANI & ERIK PHILIP BAUER | | | | ACREAGE: 95.00± | | | |
| OIL & GAS ROYALTY OWNER: MILDRED MANI & ERIK PHILIP BAUER | | | | ACREAGE: 95.00± | | | |
| DRILL <input checked="" type="checkbox"/> | DRILL DEEPER | REDRILL | FRACTURE OR STIMULATE <input checked="" type="checkbox"/> | PLUG OFF OLD FORMATION | PERFORATE NEW FORMATION | | |
| CONVERT | PLUG & ABANDON | CLEAN OUT & REPLUG | OTHER CHANGE (SPECIFY) | | | | |
| TARGET FORMATION: MARCELLUS | | | | ESTIMATED DEPTH: 5,677' TO 07/31/2015 | | | |

| | |
|--|--------------------------------|
| WELL OPERATOR: SWN PRODUCTION COMPANY, LLC | DESIGNATED AGENT: DEE SOUTHALL |
| ADDRESS: P.O. BOX 1300 | ADDRESS: P.O. BOX 1300 |
| CITY: JANE LEW | CITY: JANE LEW |
| STATE: WV | STATE: WV |
| ZIP CODE: 26378 | ZIP CODE: 26378 |

| | | |
|--|--|--|
| <p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR --- LEASE BOUNDARY --- 500' OHP BUFFER - MAR 1 - MARCELLUS OHP - - - - - ABANDONED PATH | <p>REVISIONS:</p> <p>Δ REVISED TVD & TMD, 07-22-2015</p> | <p>DATE: 04-28-2015</p> <p>DRAWN BY: S. HUTSON</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO: 58996</p> <p>WELL LOCATION PLAT</p> |
|--|--|--|

HOFFMAN ASSOCIATES INC
 320 O'Bryan Lane • Van Buren, AR 72956
 Office: 479.474.7916 • Fax: 479.474.2450
 Surveying • handa-inc.com



| | | | | | |
|---|--|---|--|--|--|
| NAME AND DISTANCE TO THE NEAREST STREAM: TITT RUN IS LOCATED ±0.31 MILES SOUTHEAST OF THE CENTER OF THE DRILL PAD. | | STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS. | | COMPANY: | |
| WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET | | OPERATOR'S MILDRED MANI BRK | | WELL #: 201H | |
| FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM UNINCORPORATED AREA OF BROOKE COUNTY, WEST VIRGINIA; MAP NUMBERS 54009C0090 D, 54009C0130 D, & 54009C0088 D; EFFECTIVE DATE APRIL, 19, 2010. | | LOCATION: BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA | | SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.253950° LONGITUDE: -80.589622° | |
| LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊘ ABANDONED WELL ⊖ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR | | BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.269458° LONGITUDE: -80.605548° | | REVISIONS: DATE: 04-28-2015 | |
| ○ EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD | | DATE: 04-28-2015 | | DRAWN BY: S. HUTSON SCALE: 1" = 2000' DRAWING NO: 58517 TOPOGRAPHIC MAP | |

07/31/2015