



RETTEW Associates, Inc.
27 Travato Street, Suite 101
Bridgeport, WV 26330
Phone (800) 738-8395
Email: rettetw@rettetw.com
Website: www.rettetw.com

Table with 2 columns: Location Type (SHL, LPL, BHL) and UTM Coordinates (NORTHING, EASTING).

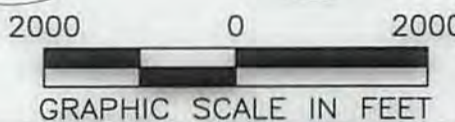
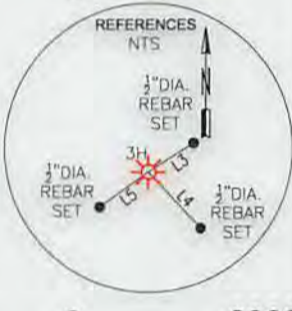
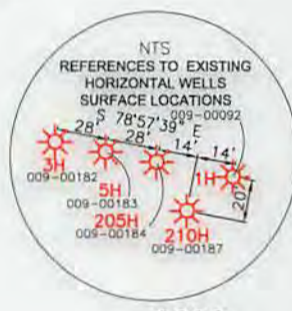
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

Table with 5 columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT.

AS-DRILLED



- NOTES ON SURVEY
1. COORDINATES 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 FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.



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. 2241 [Signature]

COMPANY: SWN Production Company, LLC

Table with well details: (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS, MINIMUM DEGREE OF ACCURACY: 1/200, OPERATOR'S WELL #: JOHN HUPP BRK 3H, API WELL #: 47 009 00182.

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION X DEEP GAS LIQUID INJECTION STORAGE SHALLOW X
WATERSHED: UPPER OHIO NORTH DISTRICT: BUFFALO COUNTY: BROOKE
SURFACE OWNER: JOHN W. HUPP & LINDA H. DOUBLE
OIL & GAS ROYALTY OWNER: JOHN W. HUPP & LINDA H. DOUBLE
DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE X (SPECIFY) As-Drilled
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,215' TVD 13,180' TMD

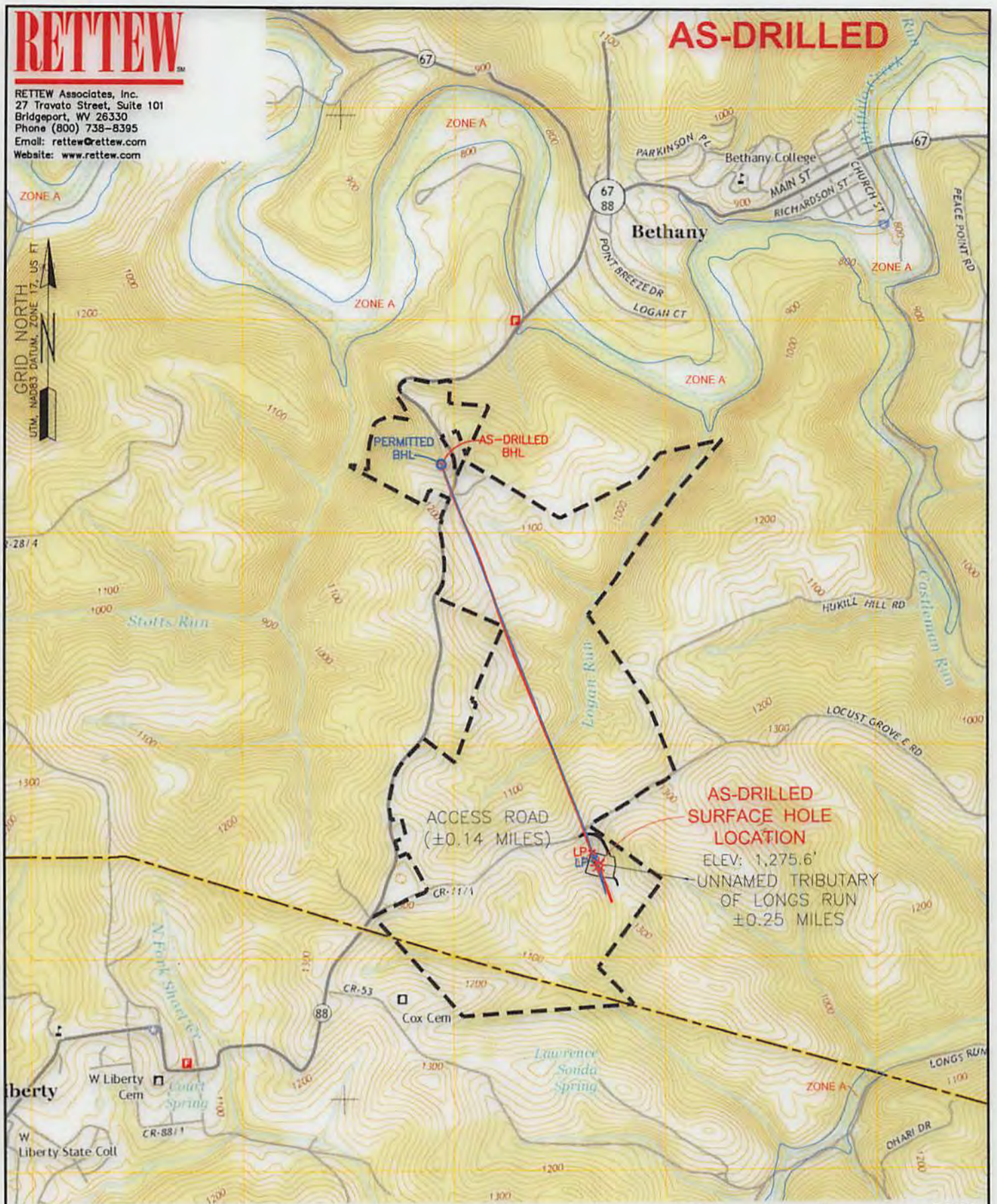
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND: PROPOSED SURFACE HOLE / BOTTOM HOLE, EXISTING SPRING, EXISTING / PRODUCING WELLHEAD, EXISTING WATER WELL, TIE LINE, ABANDONED WELL, LEASE BOUNDARY, PLUGGED & ABANDONED WELL, ASDRILLED WELLPATH, PERMITTED NOT DRILLED, PERMITTED WELLPATH, CUT-CONDUCTOR, STREAM, REVISIONS, DATE: 11-13-2017, DRAWN BY: W. MCCLEAF, SCALE: 1" = 2000', DRAWING NO: 087569048, WELL LOCATION PLAT

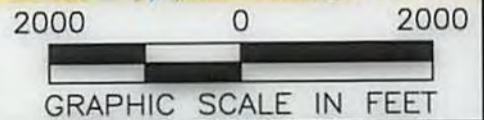
# RETTEW



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## AS-DRILLED



WELL: JOHN HUPP BRK 3H  
QUAD: BETHANY, WV-PA



<b>NAME AND DISTANCE TO THE NEAREST STREAM:</b> UN-NAMED TRIBUTARY TO LONGS RUN IS LOCATED ±0.25 MILES SOUTH EAST OF THE CENTER OF THE DRILL PAD.		<b>STREAM CROSSING COORDINATES (NAD 83):</b> NO NEW CROSSINGS.		<b>COMPANY:</b>  	
<b>WELL RESTRICTIONS:</b> 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		<b>OPERATOR'S:</b> JOHN HUPP BRK		<b>WELL #:</b> 3H	
<b>FEMA FLOOD INFORMATION:</b> BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF BROOKE COUNTY, WEST VIRGINIA; MAP NUMBERS 54009C0130D, 54009C0135D, 54009C0140D, 54009C0141D, 54009C0145D; EFFECTIVE DATE: APRIL 19, 2010.  NO FLOOD ZONES ARE SITUATED WITHIN THE UNIT.		<b>LOCATION:</b> BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA		<b>SURFACE HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 40.176495° LONGITUDE: -80.569083° <b>07/20/2018</b>	
<b>LEGEND:</b> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD --- LEASE BOUNDARY --- ASDRILLED WELLPATH --- PERMITTED WELLPATH --- ACCESS ROAD --- HIGHWAY/INTERSTATE --- COUNTY ROAD		<b>BOTTOM HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 40.193509° LONGITUDE: -80.577716°		<b>REVISIONS:</b> DATE: 11-13-2017  DRAWN BY: W. MCCLEAF SCALE: 1" = 2000' DRAWING NO: 087569048 TOPOGRAPHIC MAP	