

# RETTEW

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**SURFACE HOLE LOCATION (SHL):**

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,447,434.062  
EASTING: 536,696.522

**LANDING POINT LOCATION (LPL):**

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,447,532.626  
EASTING: 536,919.700

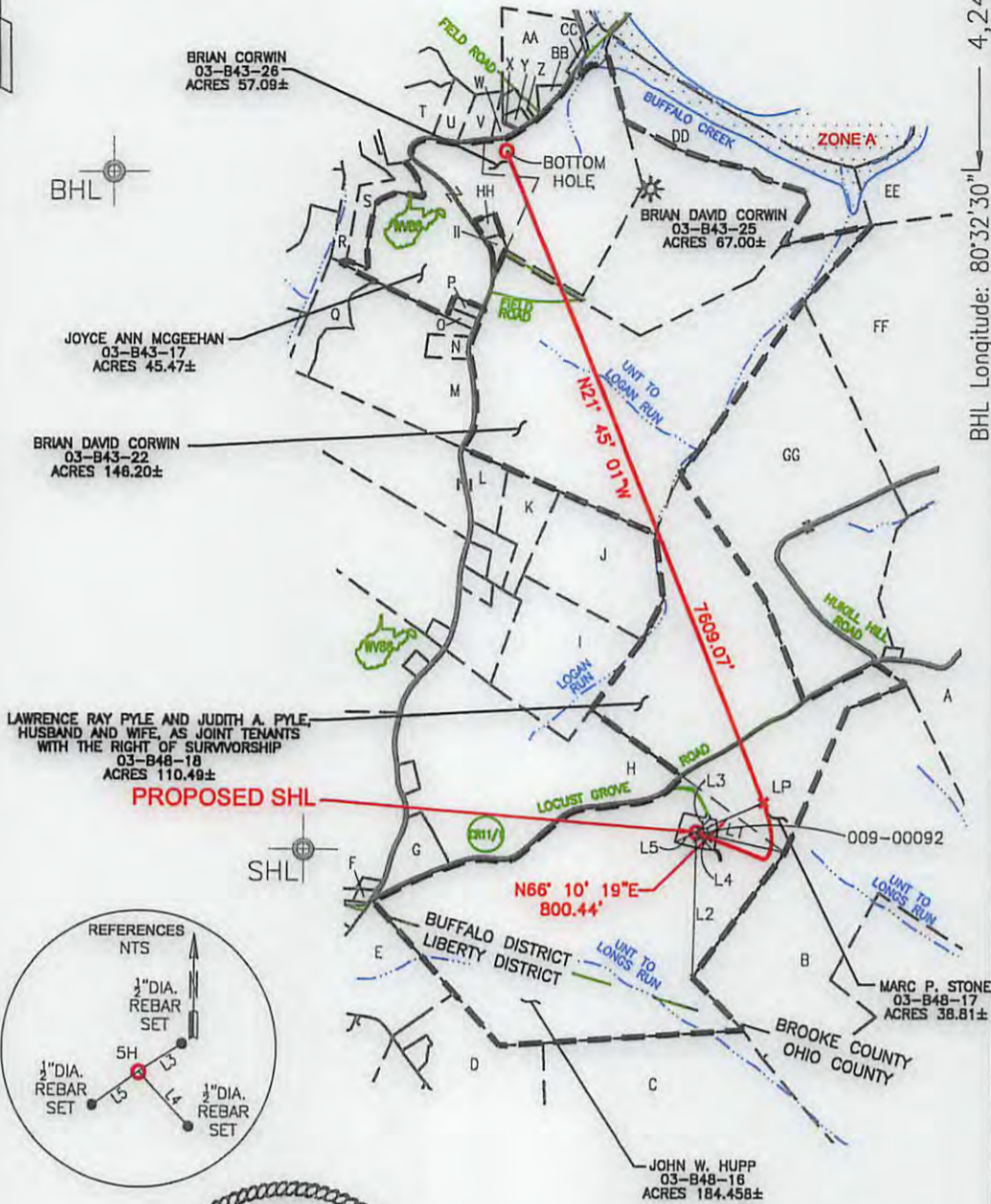
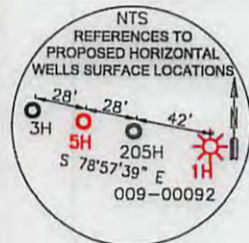
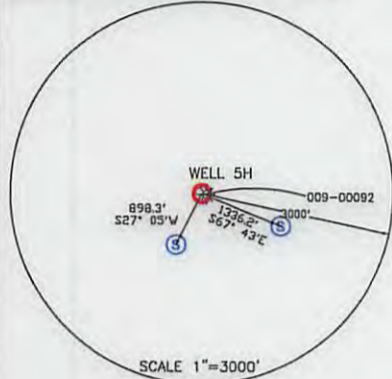
**BOTTOM HOLE LOCATION (BHL):**

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,449,686.761  
EASTING: 536,060.275

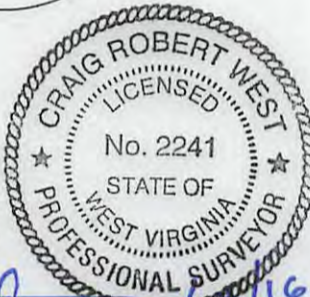
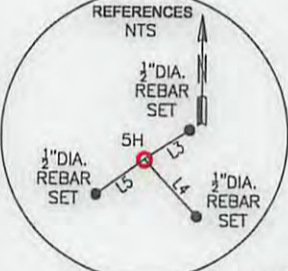
GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, US FT

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 77°05'05" E	992.59'	SHL TO LANDMARK	
L2	S 01°22'22" W	1574.03'	SHL TO LANDMARK	
L3	N 44°53'40" E	215.58'	SHL TO REF. PNT.	1/2"Ø REBAR/CAP
L4	S 41°58'36" E	273.25'	SHL TO REF. PNT.	1/2"Ø REBAR/CAP
L5	S 64°39'50" W	263.11'	SHL TO REF. PNT.	1/2"Ø REBAR SET

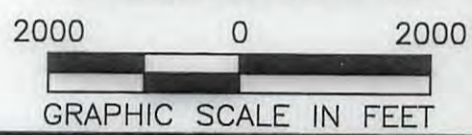
BHL Latitude: 40°12'30"



- 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 CENTER OF PAD.
  - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
  - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
  - 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.



SEE NEXT SHEET FOR ADJOINING OWNER INFORMATION

COMPANY: **SWN** Production Company, LLC



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

OPERATOR'S WELL #: JOHN HUPP BRK 5H

API WELL #: 49 STATE 009 COUNTY 00183 PERMIT

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

WATERSHED: UPPER OHIO NORTH ELEVATION: ±1,275.0 (DESIGN)

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY, WV-PA

SURFACE OWNER: JOHN W. HUPP & LINDA H. DOUBLE ACREAGE: ±184.00

OIL & GAS ROYALTY OWNER: JOHN W. HUPP & LINDA H. DOUBLE ACREAGE: ±184.00

DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION

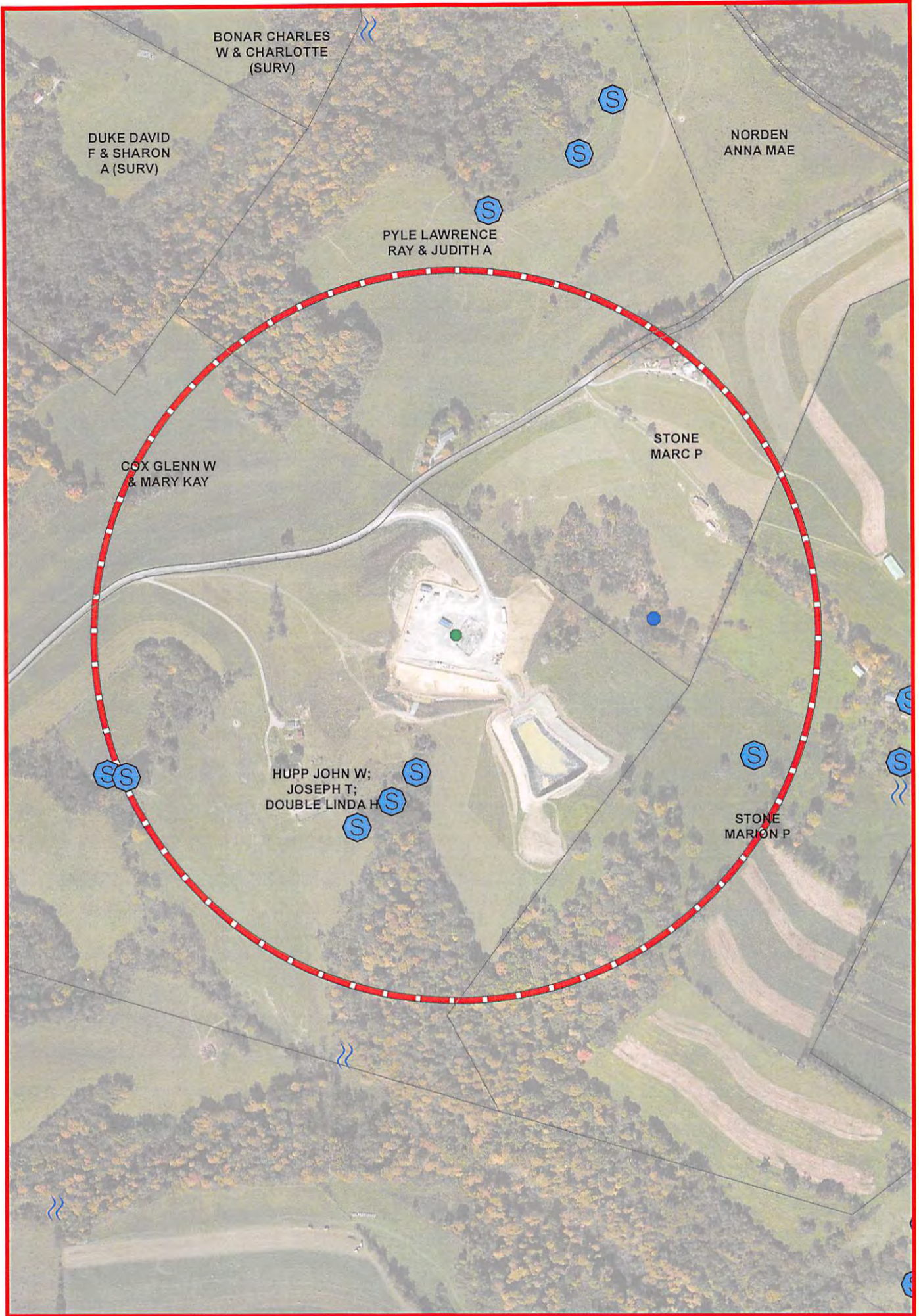
CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,225' TVD 14,317' TD

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

DESIGNATED AGENT: DEE SOUTHALL ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND:	REVISIONS:	DATE:
● PROPOSED SURFACE HOLE / BOTTOM HOLE		10-12-2016
⊙ EXISTING / PRODUCING WELLHEAD		
⊙ EXISTING SPRING		
⊙ EXISTING WATER WELL		
— ACCESS ROAD		
— TIE LINE		
--- LEASE BOUNDARY		
— MARCELLUS DHP		
		DRAWN BY: B. HERMAN
		SCALE: 1" = 2000'
		DRAWING NO:087569048
		WELL LOCATION PLAT



The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.

<b>Water Purveyor Map</b> Map by: speart NAD 1983 BLM Zone 17N ftUS		Date: 10/3/2016 	<b>Well Pad:</b> John Hupp BRK Pad John Hupp BRK Coordinates: 40.176433, -80.568979	<b>County:</b> BROOKE
			01/13/2017 	