

Latitude: 40°17'30" SURFACE HOLE 1913'

Latitude: 40°20'00" BOTTOM HOLE 3112'

Longitude: 80°32'30" SURFACE HOLE 1553'

BOTTOM HOLE 11618'

Longitude: 80°32'30"



CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
800 MARKETPLACE AVENUE, SUITE 200
BRIDGEPORT, WV 26330
304-933-3119

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,459,754.771
EASTING: 538,375.852

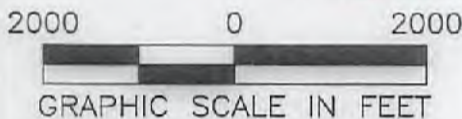
LANDING POINT (LPL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,459,828.551
EASTING: 538,463.375

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,461,311.537
EASTING: 538,002.413

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



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 660 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 800 FEET OF 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.
4. 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. 991



COMPANY: **SWN** Production Company, LLC

OPERATOR'S WELL #: SAMUEL HUBBARD BRK 5H
API WELL #: 47 009 0025346A
STATE COUNTY PERMIT



(+) 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)

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

WATERSHED: POTROCK RUN ELEVATION: 1219.20
DISTRICT: CROSS CREEK DISTRICT COUNTY: BROOKE QUADRANGLE: STEUBENVILLE EAST
SURFACE OWNER: SAMUEL HUBBARD ACREAGE: 41.00±
OIL & GAS ROYALTY OWNER: SAMUEL HUBBARD ACREAGE: 41.00±


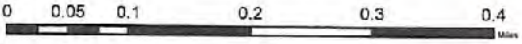
DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,872 06/08/2018





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:	— SURVEYED BOUNDARY	— DRILLING UNIT	— DATE: 03-19-2018
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	--- LEASE BOUNDARY	--- PROPOSED PATH	DRAWN BY: K.E.S.
⊙ EXISTING / PRODUCING WELLHEAD			SCALE: 1" = 2000'
LPL* LANDING POINT LOCATION			DRAWING NO: 172-288
⊙ EXISTING WATER WELL			WELL LOCATION PLAT
⊙ EXISTING SPRING			





 1 in = 833 ft


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

 Spring
 Water Well
 Pond
 1500' Buffer

RECEIVED
 Office of Oil and Gas
 APR 4 2018
 WV Department of Environmental Protection

Water Purveyor Map
 Well Pad: Samuel Hubbard
 County: BRK


 06/08/2018
 Date: 11/15/2017 | Author: willisb