

Latitude: 40°17'30" SURFACE HOLE 1899'

Latitude: 40°20'00" BOTTOM HOLE 2427'

Longitude: 80°32'30" SURFACE HOLE 1552'

BOTTOM HOLE 11274'

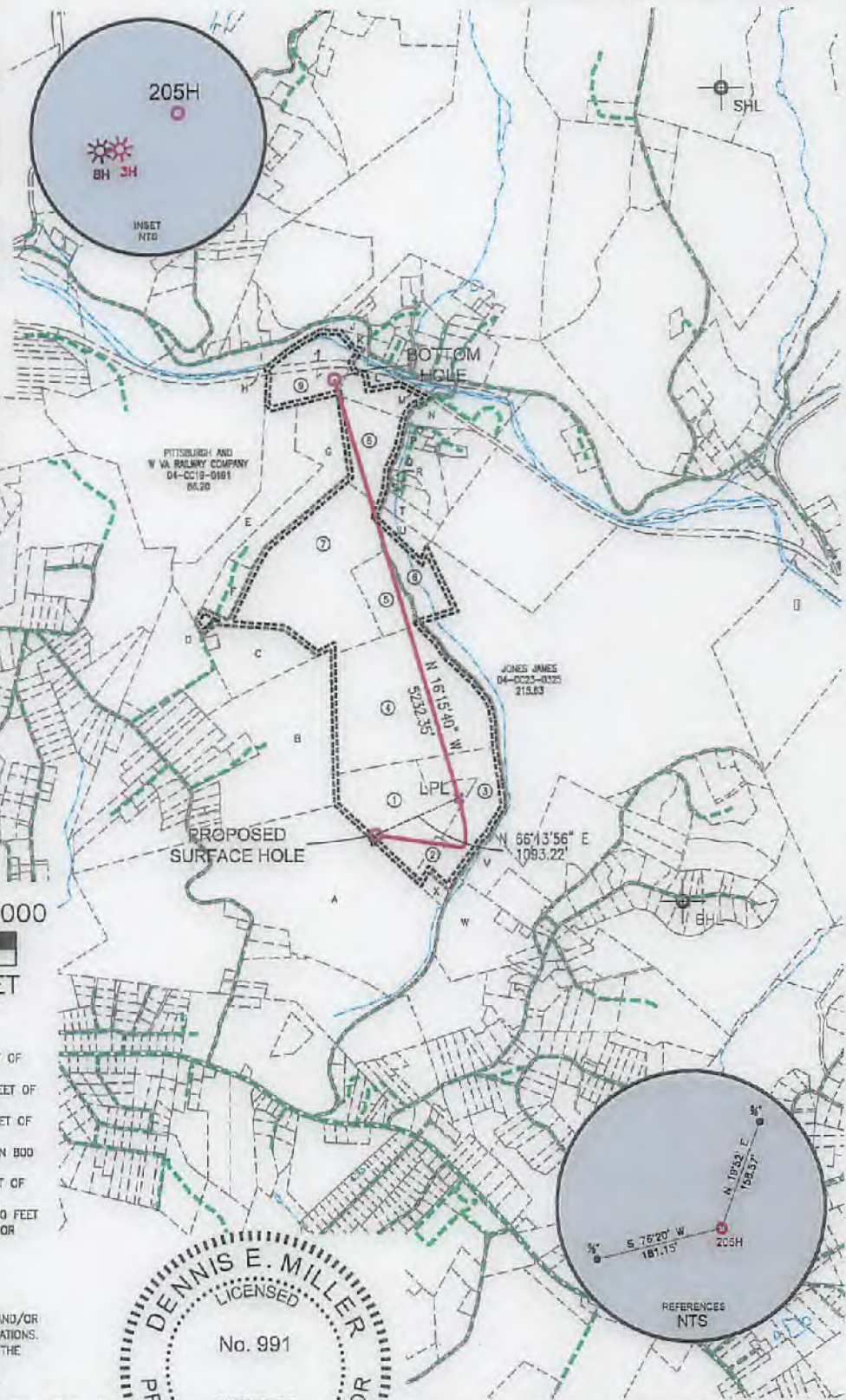
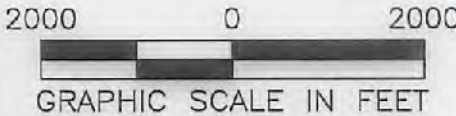
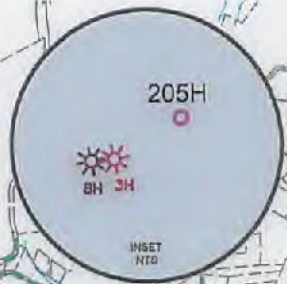
Longitude: 80°32'30"



CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
600 MARKETPLACE AVENUE, SUITE 200
BRIDGEPORT, WV 26380
304-938-3119

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,459,755.255 EASTING: 538,380.101
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,459,894.577 EASTING: 538,682.643
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,417.302 EASTING: 538,210.644

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 989 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.

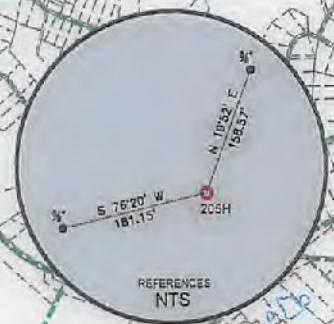
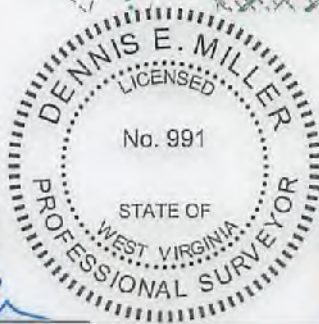
NOTES ON SURVEY

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

Dennis E. Miller



(+) 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)

COMPANY: **SWN** Production Company, LLC

SWN Production Company™

SAMUEL HUBBARD BRK

OPERATOR'S WELL #: 205H

API WELL #: 47 009 00254

STATE COUNTY PERMIT

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: 5,884 TVD 11,392 TMD

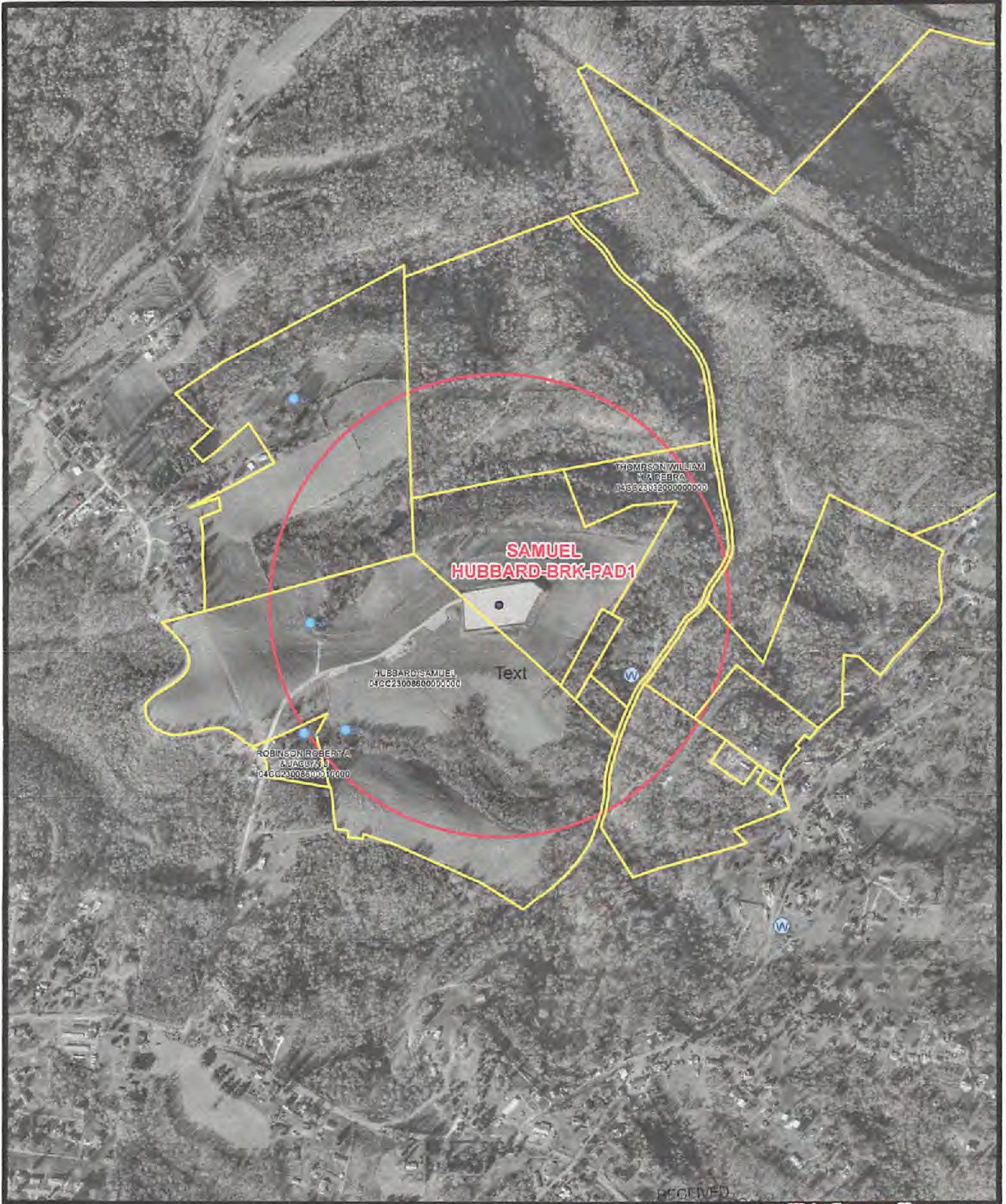
06/08/2018

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL

ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300

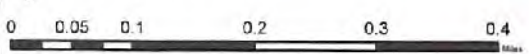
CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

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



N

 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

swn ^{RT-V+}
 Southwestern Energy®

06/08/2018

Date: 11/15/2017 | Author: willisb