

THRASHER

THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

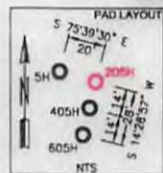
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
1	THURMAN O. SPEECE JR, GOLDIE M. STANLEY	3-B42-43	15.57
2	THURMAN O. SPEECE JR, GOLDIE M. STANLEY	3-B42-45	14.20
3	WILLIAM A. SPERRINGER III & JENNA L. SPERRINGER	3-B37-78	2.36
4	BENJAMIN M. MOSA & CHRISTINE L. HEISE	3-B37-74	24.41
5	BENJAMIN M. MOSA & CHRISTINE L. HEISE	3-B37-75	1.29

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.

ID	ADJOINER	TAX PARCEL
A	CARLY SILVER, CAYMAN MCDONALD, JENNIFER FERIGSON	3-B37-71
B	WILLIAM E. JOHNSTON AND HAZEL E. JOHNSTON	3-B37-73
C	THEODORE W. BUNNELL	3-B37-68
D	LOTHE KEITH	3-B37-67
E	JOHN B. O'GUHERTY	3-B37-65
F	WINOSOR POWER HOUSE COAL CO	3-B42-48
G	THURMAN O. SPEECE, JR. AND GOLDIE M. STANLEY	3-B42-47

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



SWN PRODUCTION COMPANY, LLC SURFACE HOLES

1. THURMAN SPEECE BRK 5H
2. THURMAN SPEECE BRK 205H
3. THURMAN SPEECE BRK 405H
4. THURMAN SPEECE BRK 605H

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,448,885.599
EASTING: 534,895.273

LANDING POINT LOCATION (LPL):

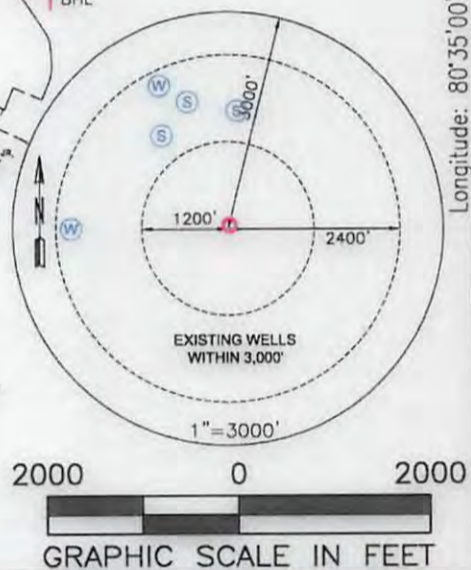
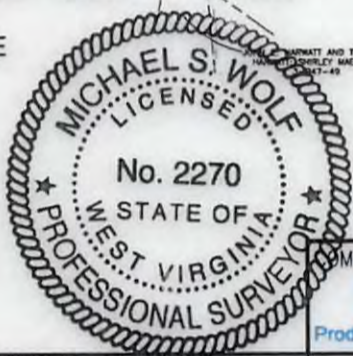
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,449,403.020
EASTING: 535,282.619

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,452,164.217
EASTING: 534,121.088

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. 2270



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

THURMAN SPEECE
OPERATOR'S WELL #: BRK 205H

API WELL #: 47 STATE COUNTY PERMIT 009 00186HGA

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

WATERSHED: BUFFALO CREEK ELEVATION: 1139.5'

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY

SURFACE OWNER: THURMAN O. SPEECE JR & GOLDIE M. STANLEY ACREAGE: 119.33

OIL & GAS ROYALTY OWNER: THURMAN O. SPEECE JR & GOLDIE M. STANLEY ACREAGE: 119.33 SHL

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

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) ESTIMATED DEPTH: 5,972' TVD 16,522' TMD

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

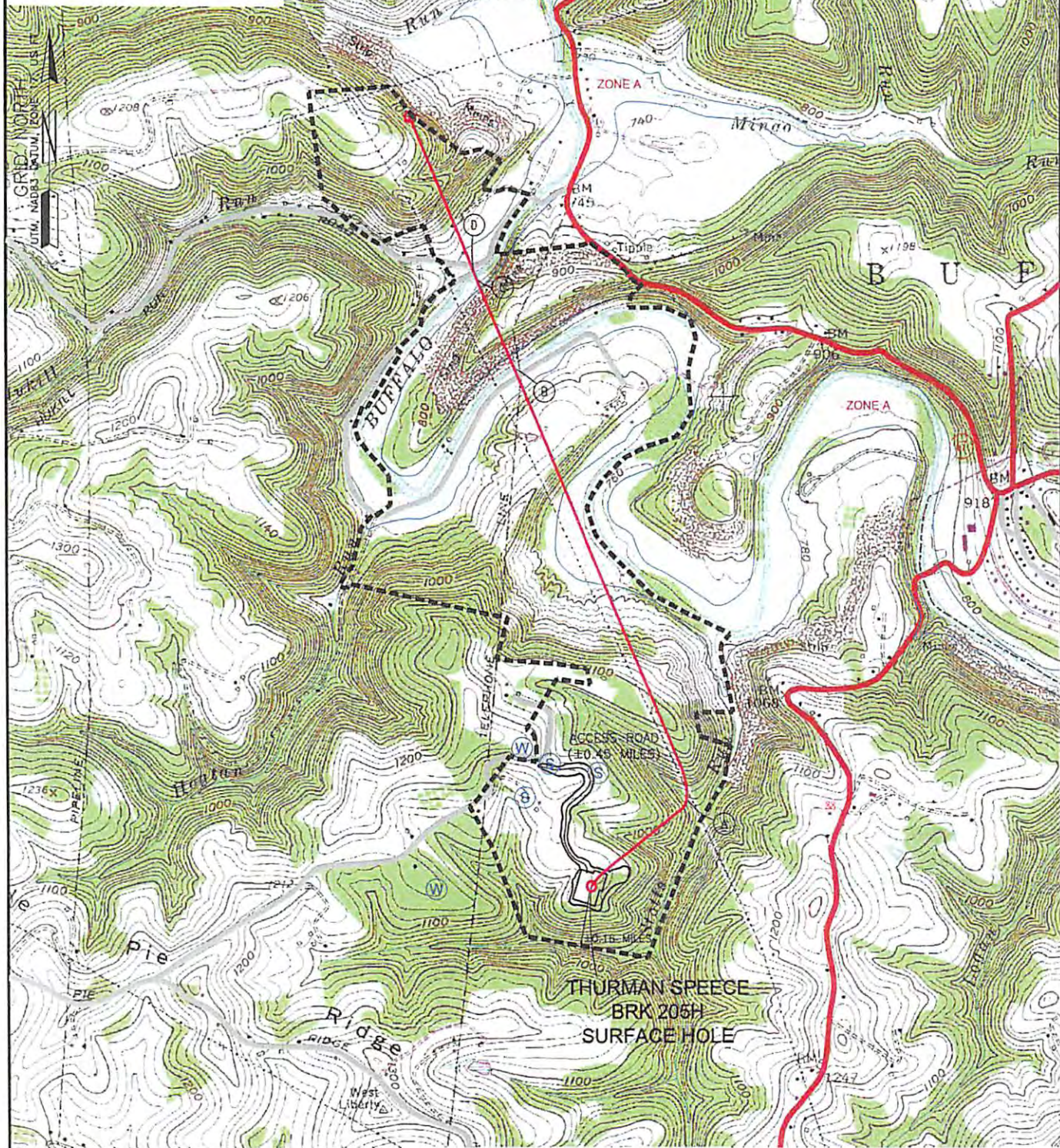
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300

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

LEGEND:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		02-17-2017
⊙ EXISTING / PRODUCING WELLHEAD	----- LEASE BOUNDARY	
⊗ ABANDONED WELL	----- 400' DHP BUFFER	
⊗ PLUGGED & ABANDONED WELL	----- MARCELLUS DHP	
△ CUT CONDUCTOR	----- ABANDONED PATH	
		DRAWN BY: E.LYTLÉ
		SCALE: 1" = 2000'
		DRAWING NO: 030-2888
		WELL LOCATION PLAT

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2000 0 2000

BROOKE CO
OHIO CO

WELL: THURMAN SPEECE BRK 205H
QUAD: BETHANY, WV

GRAPHIC SCALE IN FEET

<p>NAME AND DISTANCE TO THE NEAREST STREAM: UNNAMED TRIBUTARY TO STOTTS RUN IS LOCATED ±0.16 MILES SOUTH OF THE CENTER OF THE DRILL PAD.</p>	<p>STREAM CROSSING COORDINATES (NAD 83): A. LAT: 40.192990° / LONG: -80.535171° B. LAT: 40.209534° / LONG: -80.53744° C. LAT: 40.213083° / LONG: -80.535670° D. LAT: 40.213277° / LONG: -80.535771°</p>	<p>COMPANY: SWN Production Company, LLC</p> <p>SWN Production Company™</p>
<p>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</p>	<p>OPERATOR'S THURMAN SPEECE WELL #: BRK 205H LOCATION: BUFFALO, BROOKE COUNTY, WEST VIRGINIA</p>	<p>Received Office of Oil & Gas</p>
<p>FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF BROOKE COUNTY, WEST VIRGINIA; MAP NUMBER 54009C0130D; EFFECTIVE DATE: 04/19/2010 & MAP NUMBER 54009C0140D; EFFECTIVE DATE: 04/19/2010.</p>	<p>SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.189634° LONGITUDE: -80.590062°</p>	<p>02/25/2017</p>
<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊗ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR ⊙ EXISTING SPRING ⊙ EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD 	<p>BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.219203° LONGITUDE: -80.598982°</p> <p>REVISIONS:</p> <p>DATE: 12-01-2016</p> <p>DRAWN BY: E.LYTLÉ SCALE: 1" = 2000' DRAWING NO: 030-2888 TOPOGRAPHIC MAP</p>	<p>PROPERTY NUMBER 2501164518 PAD ID 3001164503</p>