

Latitude: 40°15'00" SHL 1,952'

THRASHER

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

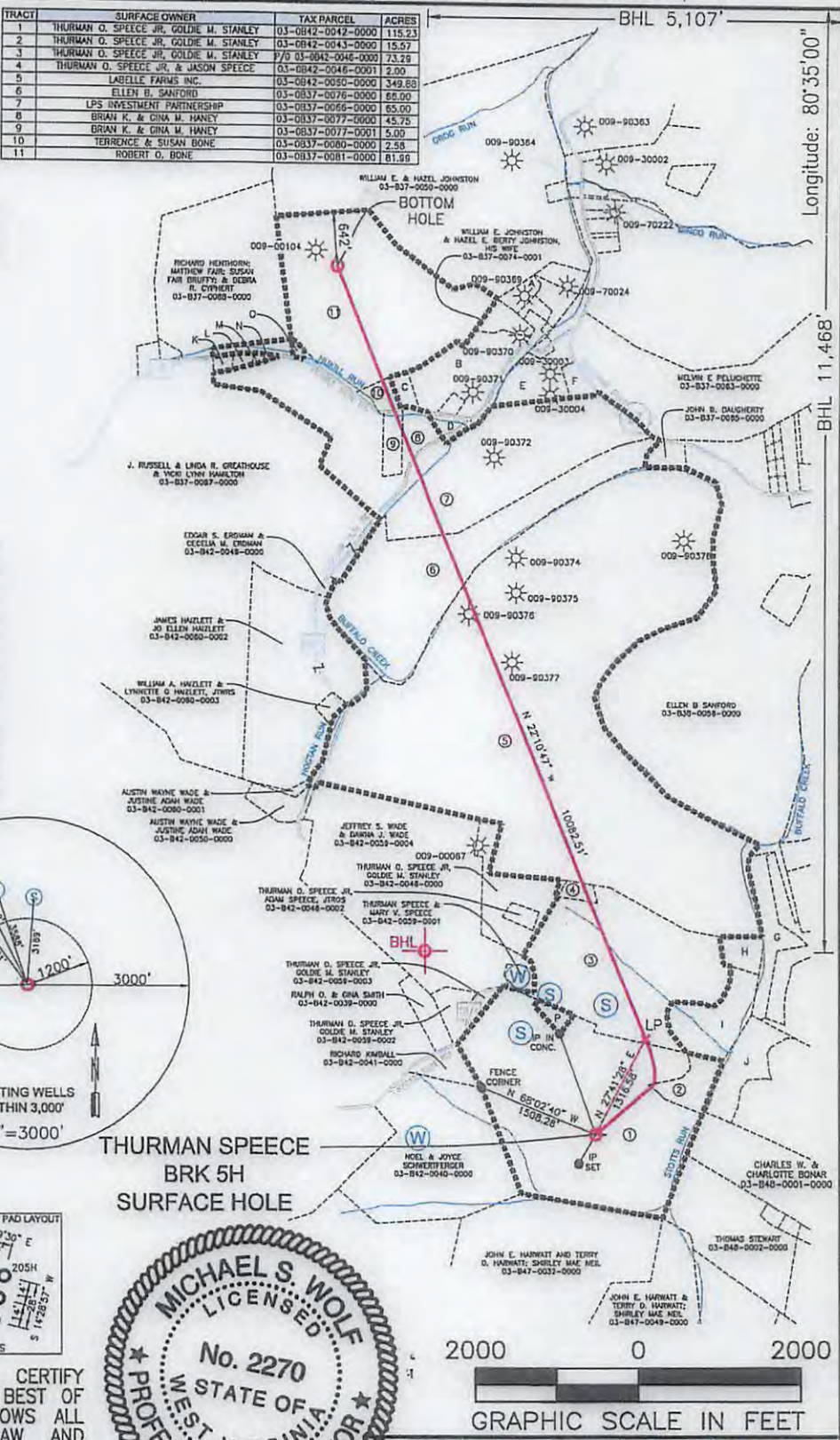
NOTES ON SURVEY

- 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 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.

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

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
1	THURMAN O. SPEECE JR, GOLDIE M. STANLEY	03-0842-0042-0000	115.23
2	THURMAN O. SPEECE JR, GOLDIE M. STANLEY	03-0842-0043-0000	15.57
3	THURMAN O. SPEECE JR, GOLDIE M. STANLEY	7/0 03-0842-0046-0000	73.29
4	THURMAN O. SPEECE JR, & JASON SPEECE	03-0842-0046-0001	2.00
5	LEBELLE FARMS INC.	03-0842-0050-0000	349.83
6	ELLEN B. SANFORD	03-0837-0076-0000	66.00
7	LPS INVESTMENT PARTNERSHIP	03-0837-0066-0000	65.00
8	BRIAN K. & CINA M. HANEY	03-0837-0077-0000	45.75
9	BRIAN K. & CINA M. HANEY	03-0837-0077-0001	5.00
10	TERRENCE & SUSAN BONE	03-0837-0080-0000	2.58
11	ROBERT O. BONE	03-0837-0081-0000	81.99

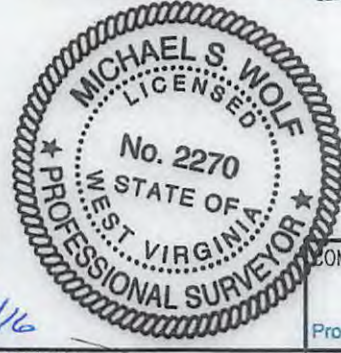
ID	ADJOINER	TAX PARCEL
A	WILLIAM E. JOHNSTON & HAZEL E. JOHNSTON	03-037-0071-0000
B	BENJAMIN M. MOSA & CHRISTINE L. HESE	03-037-0074-0000
C	BENJAMIN M. MOSA & CHRISTINE L. HESE	03-037-0079-0000
D	WILLIAM A. SPERRINGER III & JENNA L. SPERRINGER	03-037-0078-0000
E	THEODORE W. BURNELL	03-037-0088-0000
F	LOUISE KETH	03-037-0087-0000
G	WINDSOR POWER HOUSE COAL CO.	03-042-0048-0000
H	THURMAN O. SPEECE JR & GOLDIE M. STANLEY	03-042-0047-0000
I	THURMAN O. SPEECE JR & GOLDIE M. STANLEY	03-042-0045-0000
J	THURMAN O. SPEECE JR & GOLDIE M. STANLEY	03-042-0044-0000
K	SANDRA & CARL CLARK	03-037-0086-0000
L	MICHAEL ARADICH, WIDOWER	03-037-0085-0000
M	KAREN TOBEN, WIDOW	03-037-0084-0000
N	EDWARD EUGENE RINDERER	03-037-0083-0000
O	VERNAIR HOME & GARDEN, LLC	03-037-0082-0000
P	RICHARD A. STANLEY JR	03-042-0042-0001



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,448,887.111 EASTING: 534,889.359
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,449,242.445 EASTING: 535,075.843
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,452,088.103 EASTING: 533,915.445



THURMAN SPEECE
BRK 5H
SURFACE HOLE



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 *Michael S. Wolf* 11/30/16

COMPANY: **SWN** Production Company, LLC

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)</p>	<p>THURMAN SPEECE</p> <p>OPERATOR'S WELL #: BRK 5H</p> <p>API WELL #: 47 009 00185 H6A</p> <p>STATE COUNTY PERMIT</p>
	<p>WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: BUFFALO CREEK</p> <p>DISTRICT: BUFFALO COUNTY: BROOKE</p> <p>SURFACE OWNER: THURMAN O. SPEECE JR & GOLDIE M. STANLEY</p> <p>OIL & GAS ROYALTY OWNER: THURMAN O. SPEECE JR & GOLDIE M. STANLEY</p> <p>DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/></p> <p>CONVERT PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,972' TVD</p>	<p>ELEVATION: 1139.5'</p> <p>QUADRANGLE: BETHANY</p> <p>ACREAGE: 115.23</p> <p>ACREAGE: 115.23</p>

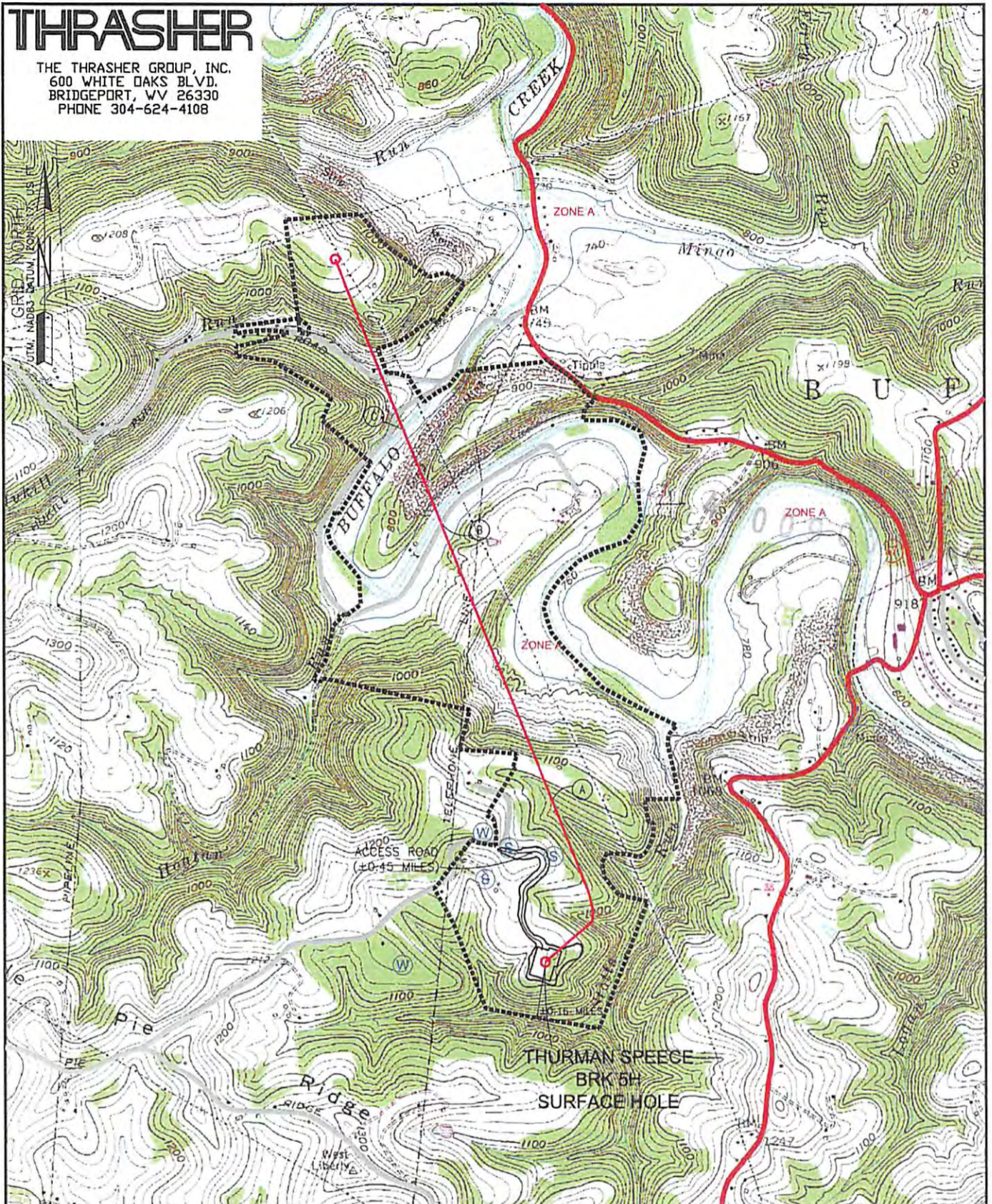
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378

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

<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊘ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR 	<p>REVISIONS:</p>	<p>DATE: 11-30-2016</p>
<p>----- LEASE BOUNDARY</p> <p>----- 400' DHP BUFFER</p> <p>----- MARCELLUS DHP</p> <p>----- ABANDONED PATH</p>	<p>DRAWN BY: K. POTH</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO: 030-2888</p> <p>WELL LOCATION PLAT</p>	<p>PROPERTY NUMBER 2501164521</p> <p>PAD ID 3001164503</p>

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Received
Office of Oil & Gas
WELL: THURMAN SPEECE BRK 5H
QUAD: BETHANY, WV
DEC 05 2016
GRAPHIC SCALE IN FEET
2000 0 2000

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.		STREAM CROSSING COORDINATES (NAD 83): A. LAT: 40.195247° / LONG: -80.569707° B. LAT: 40.207946° / LONG: -80.559846° C. LAT: 40.211509° / LONG: -80.557719°		COMPANY: 	
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		OPERATOR'S THURMAN SPEECE		WELL #: BRK 5H	
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.		LOCATION: BUFFALO, BROOKE COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.189647° LONGITUDE: -80.590131°	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ✖ EXISTING / PRODUCING WELLHEAD ✖ ABANDONED WELL ✖ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR		(S) EXISTING SPRING (W) EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.218526° LONGITUDE: -80.601403°	
REVISIONS:		DATE: 11-30-2016		02/17/2017	
DRAWN BY: K. POTH SCALE: 1" = 2000' DRAWING NO: 030-2888 TOPOGRAPHIC MAP		PROPERTY NUMBER 2501164521 PAD ID 3001164503			