

THRASHER

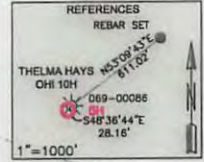
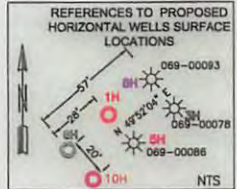
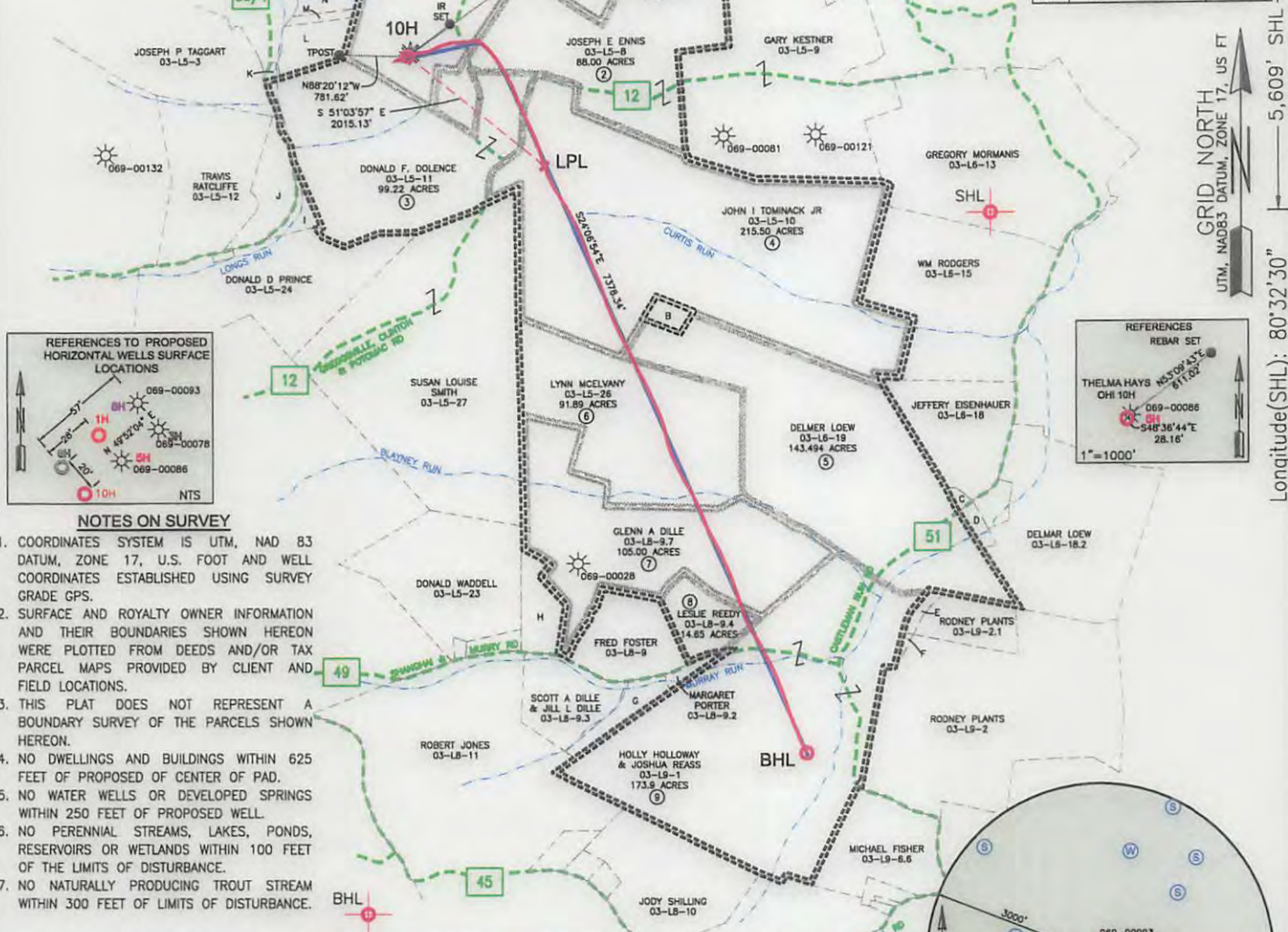
THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

10,635' BHL

Latitude: 40°10'00"

3,513' SHL

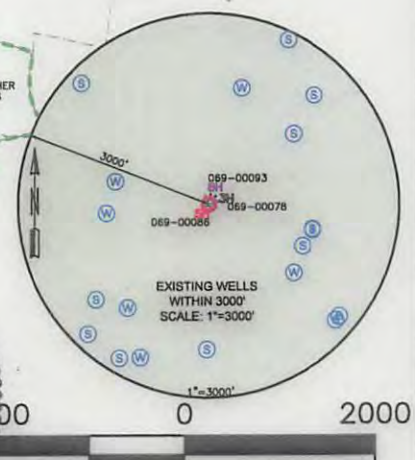
| TRACT | ADJOINER | TAX PARCEL |
|-------|----------------------------|------------|
| A | JASON T & SHEENA R HAYES | 03-12-12.2 |
| B | TUNNELL RIDGE LLC | 03-18-22 |
| C | DELMAR LOEW | 03-16-18.1 |
| D | DONNA MUSILLI | 03-16-18.3 |
| E | RODNEY PLANTS | 03-19-2.2 |
| F | RODNEY PLANTS | 03-19-2.3 |
| G | GEORGE E PORTER III | 03-18-9.5 |
| H | NEAL P BROWN | 03-18-9.6 |
| I | JOSEPH O PRINCE | 03-15-11.2 |
| J | TRAVIS C RATCLIFFE | 03-15-12.1 |
| K | GENE MONROE | 03-15-7.3 |
| L | JOSH P & SHIRLEY J TAGGART | 03-15-7.1 |
| M | GEORGE W GROVE JR | 03-15-7.4 |
| N | CHARLES W GROUNDS | 03-15-4 |



- 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.

| SURFACE HOLE LOCATION (SHL): | SURFACE HOLE LOCATION (SHL): |
|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,644.692 EASTING: 537,962.234 | UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,644.692 EASTING: 537,962.234 |
| LANDING POINT LOCATION (LPL): | LANDING POINT LOCATION (LPL): |
| UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,549.948 EASTING: 538,316.937 | UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,258.705 EASTING: 538,440.012 |
| BOTTOM HOLE LOCATION (BHL): | BOTTOM HOLE LOCATION (BHL): |
| UTM (NAD83, ZONE 17, METERS): NORTHING: 4,442,196.890 EASTING: 539,362.915 | UTM (NAD83, ZONE 17, METERS): NORTHING: 4,442,206.049 EASTING: 539,358.849 |

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 *M.S.W. 5/22/18* SWN Production Company, LLC SWN Production Company™

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| (+) 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 #: THELMA HAYS OHI 10H API WELL #: 47 069 00235 STATE COUNTY PERMIT |
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: BUFFALO CREEK ELEVATION: 1244.1'

DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: BETHANY

SURFACE OWNER: SHARON L GARRISON(LIFE ESTATE), TIMOTHY R HAYS, AND THELMA C HAYS(REMAINDER) ACREAGE: ± 102.00

OIL & GAS ROYALTY OWNER: TIMOTHY R HAYS, THELMA C HAYS, AND SHARON L GARRISON ACREAGE: ± 102.00

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,462' TDV 15,329' TDV

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: |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LPL* LANDING POINT LOCATION EXISTING WATER WELL EXISTING SPRING | <ul style="list-style-type: none"> SURVEYED BOUNDARY DRILLING UNIT LEASE BOUNDARY PROPOSED PATH AS-DRILLED PATH TPL* TURNING POINT LOCATION | 05-16-2018 DRAWN BY: K. POTH SCALE: 1" = 2000' DRAWING NO: 050-5660 WELL LOCATION PLAT |