

THRASHER

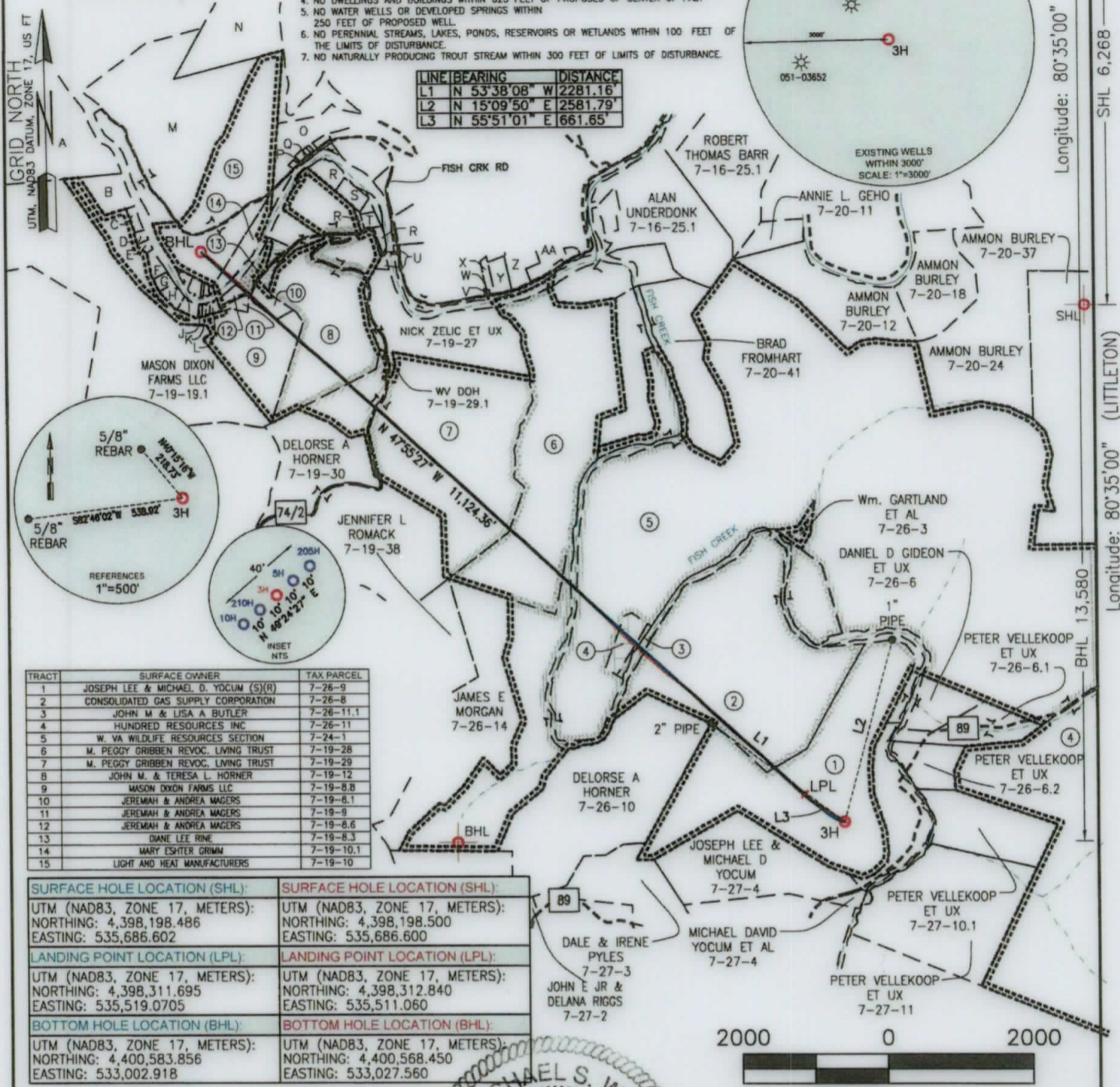
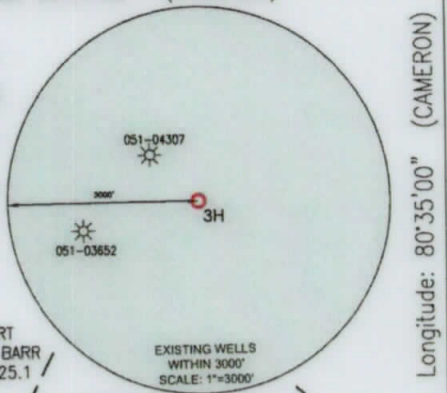
THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

Latitude: 39°45'00" (LITTLETON) SHL 126'
BHL 8,895'
Latitude: 39°47'30" (CAMERON)

NOTES ON SURVEY

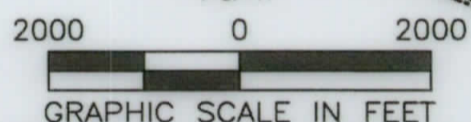
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
- THIS PLAT DOES NOT 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.

LINE	BEARING	DISTANCE
L1	N 53°38'08" W	2281.16
L2	N 15°09'50" E	2581.79
L3	N 55°51'01" E	661.65



TRACT	SURFACE OWNER	TAX PARCEL
1	JOSEPH LEE & MICHAEL D. YOCUM (S)(R)	7-26-9
2	CONSOLIDATED GAS SUPPLY CORPORATION	7-26-8
3	JOHN M & LISA A BUTLER	7-26-11.1
4	HUNDRED RESOURCES INC	7-26-11
5	W. VA WILDLIFE RESOURCES SECTION	7-24-1
6	M. PEGGY GRIBBEN REVOC. LIVING TRUST	7-19-28
7	M. PEGGY GRIBBEN REVOC. LIVING TRUST	7-19-29
8	JOHN M. & TERESA L. HORNER	7-19-12
9	MASON DIXON FARMS LLC	7-19-8.8
10	JEREMIAH & ANDREA MAGERS	7-19-8.1
11	JEREMIAH & ANDREA MAGERS	7-19-9
12	JEREMIAH & ANDREA MAGERS	7-19-8.6
13	DAVE LEE RINE	7-19-8.3
14	MARY ESHTER GRIMM	7-19-10.1
15	LIGHT AND HEAT MANUFACTURERS	7-19-10

SURFACE HOLE LOCATION (SHL):	SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,398,198.486 EASTING: 535,686.602	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,398,198.500 EASTING: 535,686.600
LANDING POINT LOCATION (LPL):	LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,398,311.695 EASTING: 535,519.0705	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,398,312.840 EASTING: 535,511.060
BOTTOM HOLE LOCATION (BHL):	BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,400,583.856 EASTING: 533,002.918	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,400,568.450 EASTING: 533,027.560



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 *[Signature]* 8/16/19



COMPANY: **SWN** Production Company, LLC **SWN** Production Company™

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF VIRGINIA ACCURACY PROVEN SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

OPERATOR'S WELL #: YOCUM MSH 3H
API WELL #: 47 051 02124
STATE COUNTY PERMIT

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

WATERSHED: FISH CREEK ELEVATION: 1079.4'

DISTRICT: LIBERTY COUNTY: MARSHALL QUADRANGLE: LITTLETON, WV

SURFACE OWNER: JOSEPH LEE AND MICHAEL D. YOCUM ACREAGE: ± 97.07

OIL & GAS ROYALTY OWNER: JOSEPH LEE AND MICHAEL D. YOCUM ACREAGE: ± 97.07

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: 6,809.03 TVD 18,470 MD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE SUITE 201 ADDRESS: 1300 FORT PIERPONT DRIVE SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	SURVEYED BOUNDARY	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— SURVEYED BOUNDARY		08-16-2019
☼ EXISTING / PRODUCING WELLHEAD	— DRILLING UNIT		
LPL* LANDING POINT LOCATION	----- LEASE BOUNDARY		
⊙ EXISTING WATER WELL	— PROPOSED PATH		
⊙ EXISTING SPRING	— AS-DRILLED PATH		