

SHL 13,815'

BHL 9,202'

Latitude: 40°02'30"



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

NOTES ON SURVEY

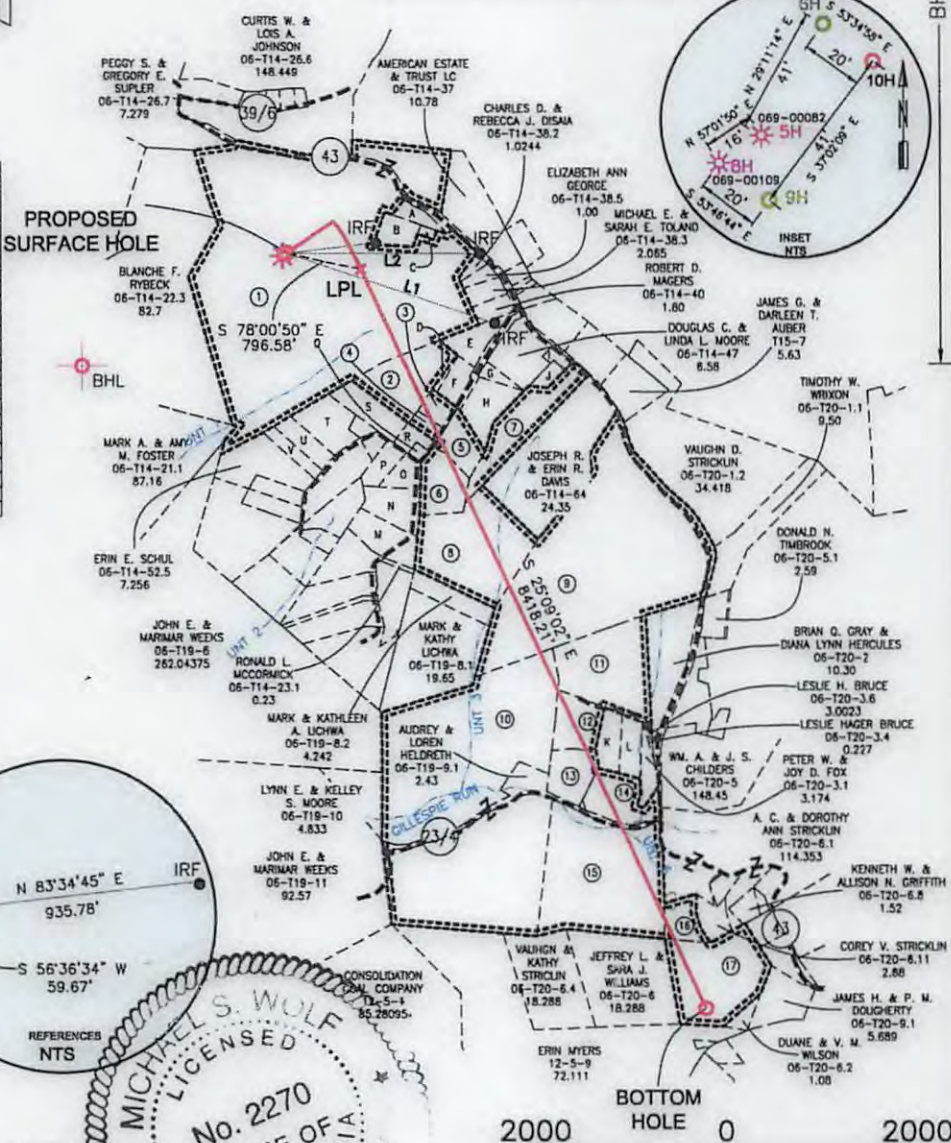
- 1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

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

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,432,270.564
EASTING: 538,612.822
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,432,220.141
EASTING: 538,850.326
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,429,897.524
EASTING: 539,940.817

WELL BORE TABLE FOR SURFACE & ROYALTY OWNERS
Table with columns: TRACT, SURFACE OWNER (S) / ROYALTY OWNER (R), TAX PARCEL, ACRES

ADJOINING OWNERS TABLE
Table with columns: TRACT, SURFACE OWNER, TAX PARCEL, ACRES



LINE BEARING DISTANCE
Table with 2 columns: LINE, BEARING, DISTANCE



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]

COMPANY: SWN Production Company, LLC

Table with columns: (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS, MINIMUM DEGREE OF ACCURACY: 1/200, OPERATOR'S WELL #: 10H, WVDOP OFFICE OF OIL & GAS, PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT), API WELL #: 47 69 00250

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
WATERSHED: WHEELING CREEK ELEVATION: 1281.4'
DISTRICT: TRIADELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE
SURFACE OWNER: LAWRENCE GRANT HICKMAN, CECIL LEE HICMAN & CAROL SUE HICKMAN ACREAGE: ± 143.77
OIL & GAS ROYALTY OWNER: CECIL LEE HICKMAN, JOHN MARK HICKMAN, LAWRENCE GRANT HICKMAN, CAROL SUE (CRISWELL) HICKMAN ACREAGE: ± 418.378

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

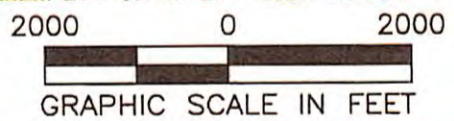
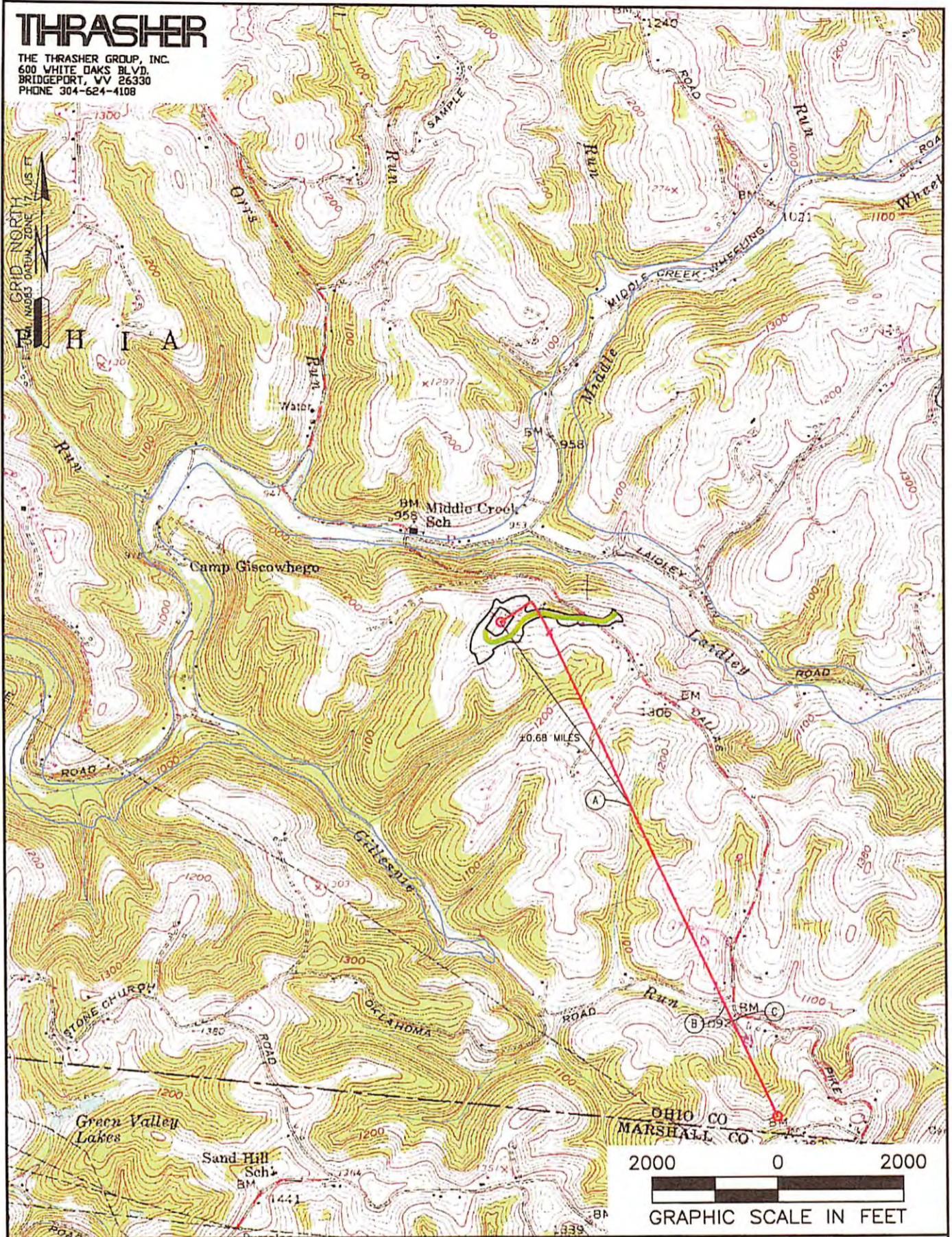
LEGEND: PROPOSED SURFACE HOLE / BOTTOM HOLE, EXISTING / PRODUCING WELLHEAD, LPL: LANDING POINT LOCATION, EXISTING WATER WELL, EXISTING SPRING, SURVEYED BOUNDARY, DRILLING UNIT, LEASE BOUNDARY, PROPOSED PATH, REVISIONS, DATE: 09-29-2017, DRAWN BY: R.DOERR, SCALE: 1" = 2000', DRAWING NO: 050-5494, WELL LOCATION PLAT

THRASHER

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GRID NORTH
NAD83 DATUM, ZONE 17, US FT

H I A



NAME AND DISTANCE TO THE NEAREST STREAM: UNIT 1 OF GILLESPIE RUN IS LOCATED ±0.68 MILES SE OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): A. LAT: 40.031835° / LONG: -80.540095° B. LAT: 40.023204° / LONG: -80.534895° C. LAT: 40.022592° / LONG: -80.534526°		COMPANY: SWN Production Company, LLC		SWN ^{RL-V+} Production 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 MARK HICKMAN OHI		WELL #: 10H	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF OHIO COUNTY, WEST VIRGINIA; MAP NUMBER 54069C00950; EFFECTIVE DATE: JULY 17, 2006. TITLE OF OIL AND GAS JUL 20 2017				LOCATION: TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.039780° LONGITUDE: -80.547384°	
				BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.018339° LONGITUDE: -80.531964°		10/20/2017	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD LPL * LANDING POINT LOCATION FLOOD PLAN		ACCESS ROAD PUBLIC ROAD ACCESS ROAD TO PREV. SITE LEASE BOUNDARY PROPOSED PATH		REVISIONS:		DATE: 07-25-2017 DRAWN BY: R.DOERR SCALE: 1" = 200' DRAWING NO: 050-5494 INTERNAL WELL PLAT	