

SHL 13,642'

BHL 11,437'

Latitude: 40°02'30"

Longitude: 80°30'00"

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

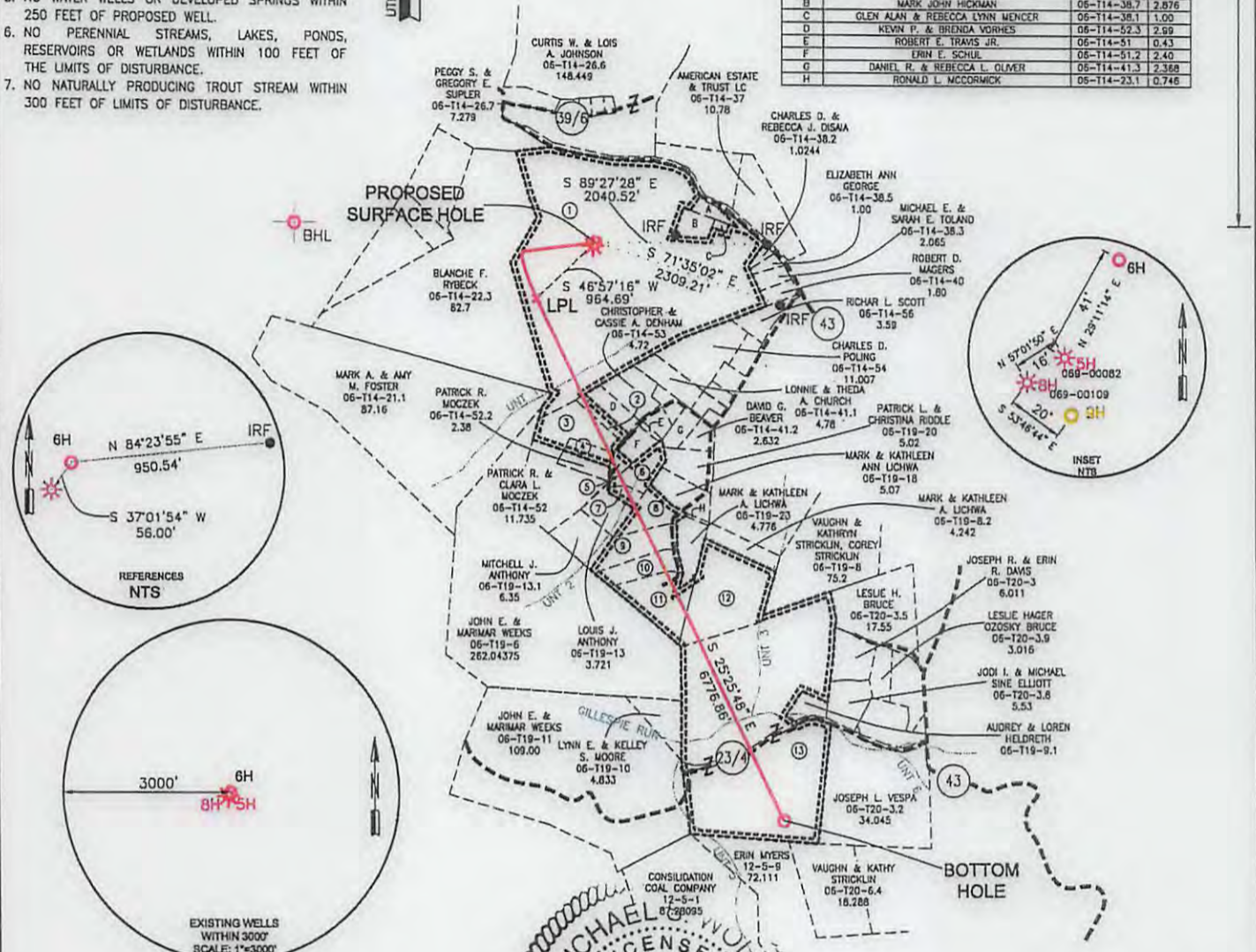
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,432,274.182
EASTING: 538,607.918

LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,432,073.477
EASTING: 538,393.030

BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,430,208.021
EASTING: 539,280.015

WELL BORE TABLE FOR SURFACE & ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	CECIL L. LAWRENCE G., JOHN M. & CAROL S. HICKMAN	06-T14-38	143.53
2	KEVIN P. & BRENDA VORHES	06-T14-52.4	2.00
3	ERIN E. SCHUL	06-T14-52.5	7.256
4	PRESTON R. MOCZEK	06-T14-52.1	2.051
5	ERIN E. SCHUL	06-T14-51.1	1.03
6	CHRISTOPHER D. STRAIT	06-T19-13.3	4.176
7	JEREMY L. DVORCEK	06-T19-13.2	6.06
8	DAVID E. YAHN	06-T19-21	5.05
9	MARK F. & KATHLEEN A. LICHWA	06-T19-19	5.00
10	MARK F. LICHWA	06-T19-22	5.00
11	KATHLEEN A. LICHWA	06-T19-24	10.00
12	MARK & KATHY LICHWA	06-T19-8.1	19.65
13	HERBERT & ALICE SHARP	06-T19-9	101.555

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL ACRES
A	MARK JOHN HICKMAN	06-T14-38.6 1.597
B	MARK JOHN HICKMAN	06-T14-38.7 2.876
C	GLEN ALAN & REBECCA LYNN MENCER	06-T14-38.1 1.00
D	KEVIN P. & BRENDA VORHES	06-T14-52.3 2.99
E	ROBERT E. TRAVIS JR.	06-T14-51 0.43
F	ERIN E. SCHUL	06-T14-51.2 2.40
G	DANIEL R. & REBECCA L. OLIVER	06-T14-41.3 2.368
H	RONALD L. MCCORMICK	06-T14-23.1 0.746



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

SWN COMPANY: SWN Production Company, LLC Production Company™

<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 SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>MARK HICKMAN UP OHI</p> <p>OPERATOR'S WELL #: 6H</p> <p>API WELL #: 47 69 00249</p> <p>STATE COUNTY PERMIT</p>
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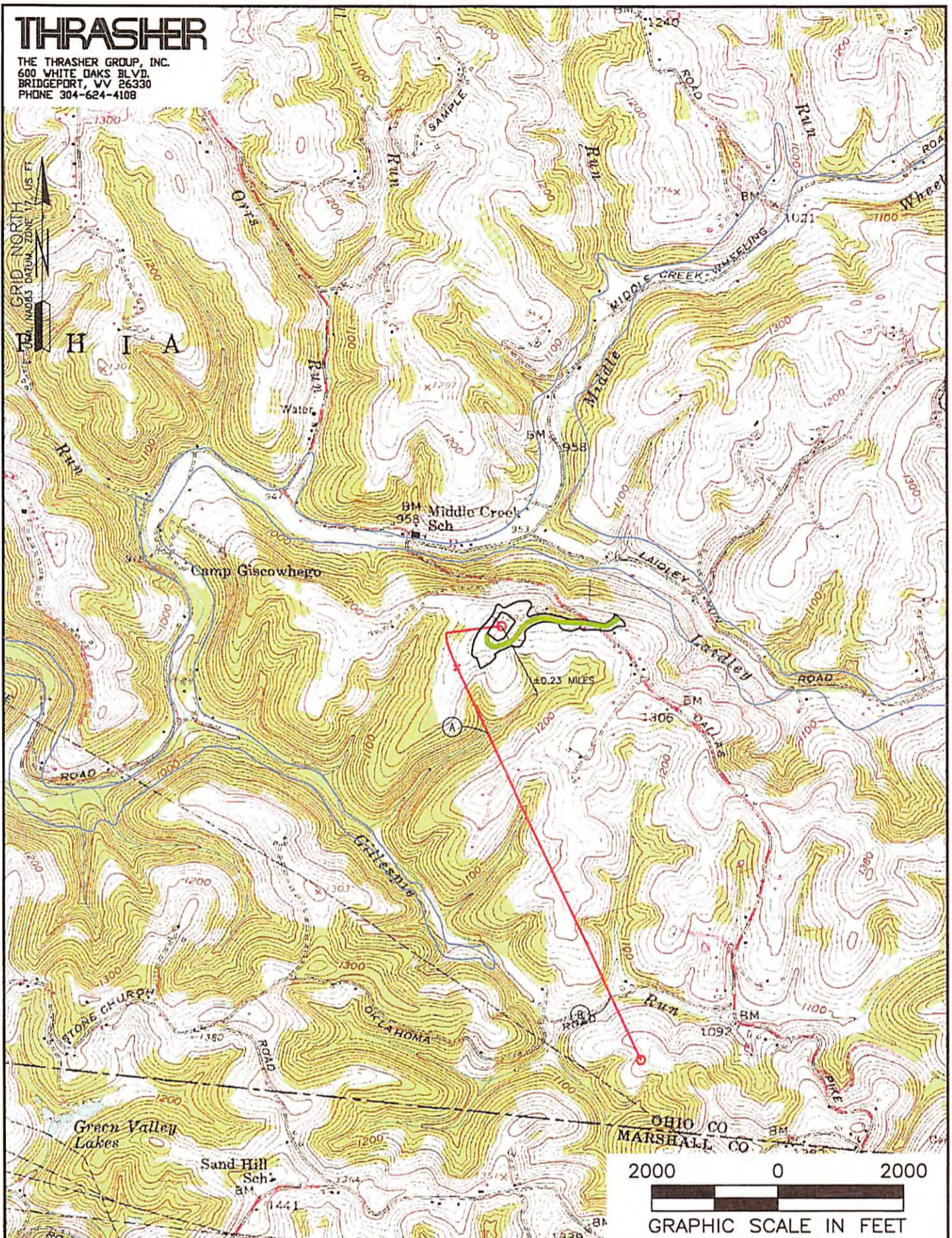
WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	WATERSHED: WHEELING CREEK	ELEVATION: 1281.4'
DISTRICT: TRIADELPHIA	COUNTY: OHIO	QUADRANGLE: VALLEY GROVE
SURFACE OWNER: LAWRENCE G., JOHN M. & CAROL S. HICKMAN	ACREAGE: ± 143.53	
OIL & GAS ROYALTY OWNER: CECIL LEE HICKMAN, JOHN MARK HICKMAN, LAWRENCE GRANT HICKMAN, CAROL SUE (CRISWELL) HICKMAN	ACREAGE: ± 312.358	
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"/>		
CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)		
TARGET FORMATION: POINT PLEASANT	ESTIMATED DEPTH: 6,795' TVD 13,867' IMD	

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: 07-25-2017
<p>○ PROPOSED SURFACE HOLE / BOTTOM HOLE</p> <p>⊛ EXISTING / PRODUCING WELLHEAD</p> <p>LPL* LANDING POINT LOCATION</p> <p>⊙ EXISTING WATER WELL</p> <p>⊙ EXISTING SPRING</p>	<p>— SURVEYED BOUNDARY</p> <p>— DRILLING UNIT</p> <p>— LEASE BOUNDARY</p> <p>— PROPOSED PATH</p>	<p>DRAWN BY: R.DOERR</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO: 050-5494</p> <p>WELL LOCATION PLAT</p>

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NAME AND DISTANCE TO THE NEAREST STREAM: UNT 1 OF GILLESPIE RUN IS LOCATED ±0.23 MILES SE OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): A. LAT: 40.035183' / LONG: -80.548243' B. LAT: 40.023966' / LONG: -80.541396'		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 UP OHI		WELL #: 6H	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF OHIO COUNTY, WEST VIRGINIA; MAP NUMBER 54069C0095D; EFFECTIVE DATE: JULY 17, 2006.		LOCATION: TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.039813' LONGITUDE: -80.547441' 10/20/2017	
LEGEND: 		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.021167' LONGITUDE: -80.539688'		REVISIONS: DATE: 07-25-2017	
WELL OF OIL AND GAS JUL 28 2017		DRAWN BY: R.DOERR SCALE: 1" = 2000' DRAWING NO: 050-5494 INTERNAL WELL PLAT		PROPERTY NUMBER 2501166378 PAD ID 3001156579	