

JACKSON SURVEYING INC.
 P.O. Box 1460
 677 W. Main St.
 Clarksburg, WV 26302
 304-623-5851

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,142.255 EASTING: 535,610.189
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,432,970.899 EASTING: 535,610.256
AZIMUTH TURN 1 (AZT-1):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,431,400.657 EASTING: 536,677.820
AZIMUTH TURN 2 (AZT-2):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,431,348.168 EASTING: 536,710.842
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,430,806.382 EASTING: 537,025.384

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

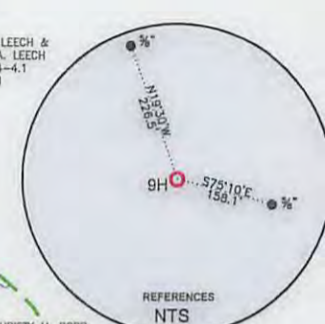
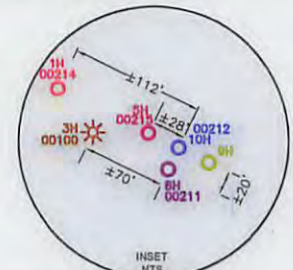
Latitude: 40°02'30" | BOTTOM HOLE 6834'

Latitude: 40°05'00" SURFACE HOLE 297'

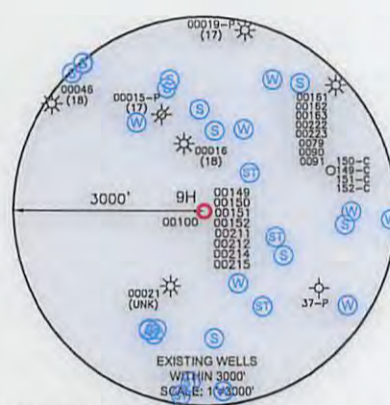
BOTTOM HOLE 5467'

Latitude: 80°32'30" | SURFACE HOLE 12954'

Longitude: 80°35'00"



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 13°25'49" W	3055.35'	SHL TO LANDMARK	SPIKE FOUND
L2	S 79°43'23" E	1075.44'	SHL TO LANDMARK	FENCE POST FOUND
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 42°52'12" E	767.08'	821.43'	SHL TO LP
L4	S 32°10'29" E	203.45'	203.49'	TP1 TO TP2

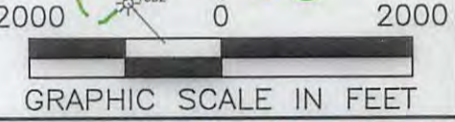
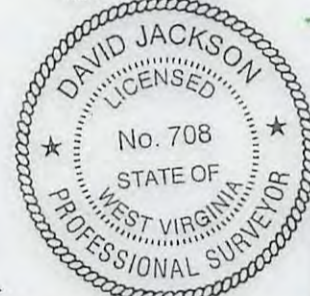


- WELL RESTRICTIONS**
- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
 - NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
 - WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
 - PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
 - NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

- NOTES ON SURVEY**
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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. 708 *David L Jackson*



COMPANY: **SWN** Production Company, LLC

(+) 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 SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)	COMPANY: SWN Production Company, LLC OPERATOR'S WELL #: DEBORAH CRAIG UD OHI 9H API WELL #: 47 STATE 069 COUNTY 00230 PERMIT
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: TARYARD RUN OF MIDDLE WHEELING CREEK ELEVATION: 1329.3'

DISTRICT: TRIADELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE, WV

SURFACE OWNER: DEBORAH ANN CRAIG & SETH COLLIN CRAIG ACREAGE: ±84.63

OIL & GAS ROYALTY OWNER: DEBORAH ANN CRAIG & SETH COLLIN CRAIG ACREAGE: ±84.63

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

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

TARGET FORMATION: BURKET ESTIMATED DEPTH: 6,512' TMD 13,164' TMD

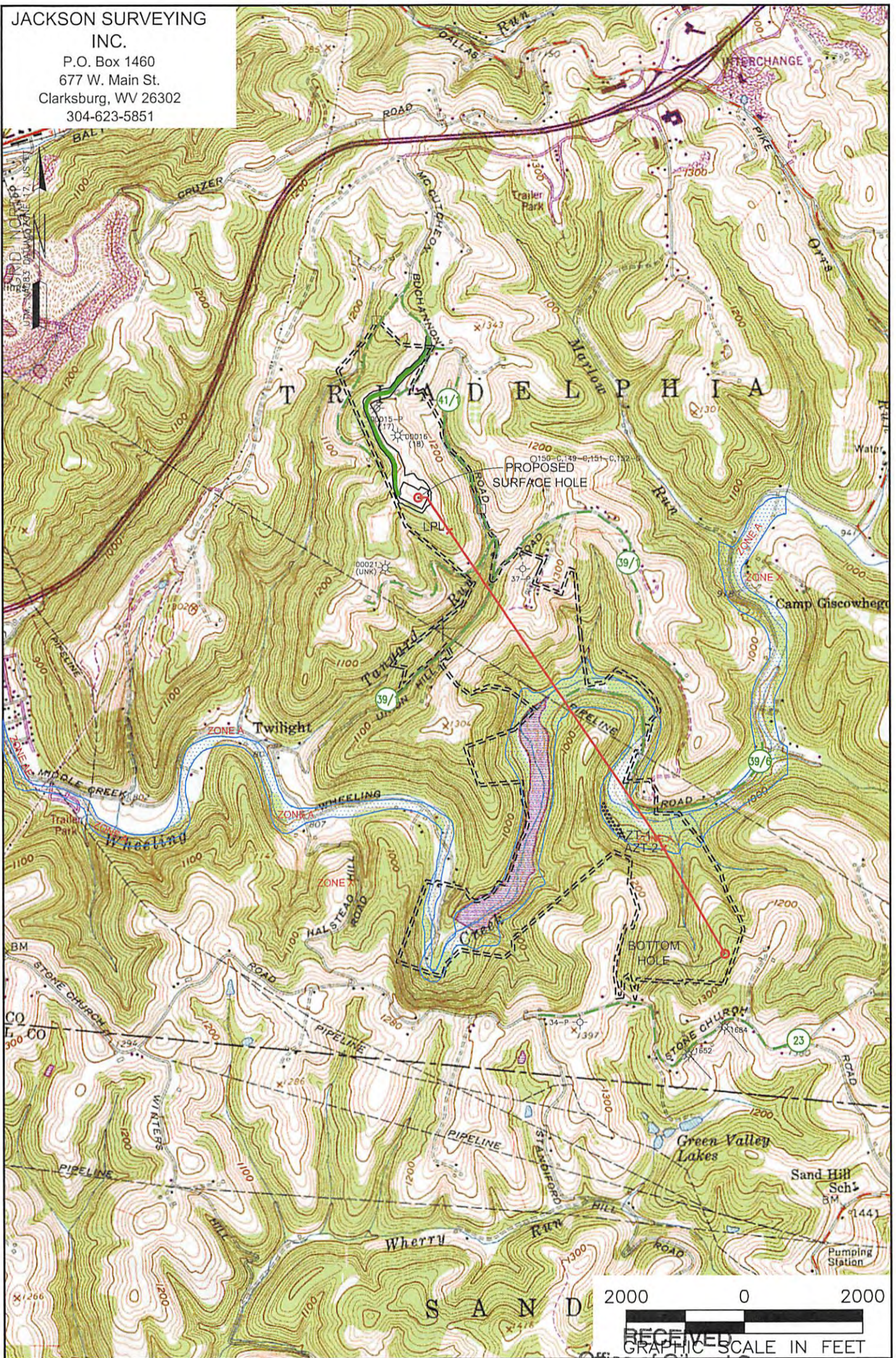
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL
 ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300
 CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD LPL * LANDING POINT LOCATION W EXISTING WATER WELL S EXISTING SPRING	— SURVEYED BOUNDARY — DRILLING UNIT — LEASE BOUNDARY — PROPOSED PATH	REVISIONS: DATE: 04-19-2017 DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT
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INC.

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677 W. Main St.
Clarksburg, WV 26302
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NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊛ EXISTING / PRODUCING WELLS
- LPL* LANDING POINT LOCATION
- 🌊 FLOOD PLAIN
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

RECEIVED
Office of Oil and Gas
APR 24 2017
08/18/2017

WELL OPERATOR:
SWN PRODUCTION COMPANY, LLC

ADDRESS:
P.O. BOX 1300 JANE LEW, WV 26378

SURFACE OWNER:
DEBORAH ANN CRAIG & SETH COLLIN CRAIG

WELL (FARM) NAME: DEBORAH ANN CRAIG OH
WELL #
SERIAL #

COUNTY - CODE: OHIO - 069
DISTRICT; TRIADELPHIA

USGS 7 1/2 QUADRANGLE MAP NAME: VALLEY GROVE, WV