

Latitude: 40°05'00"

SURFACE HOLE 9608'

ELK LAKE SERVICES, LLC

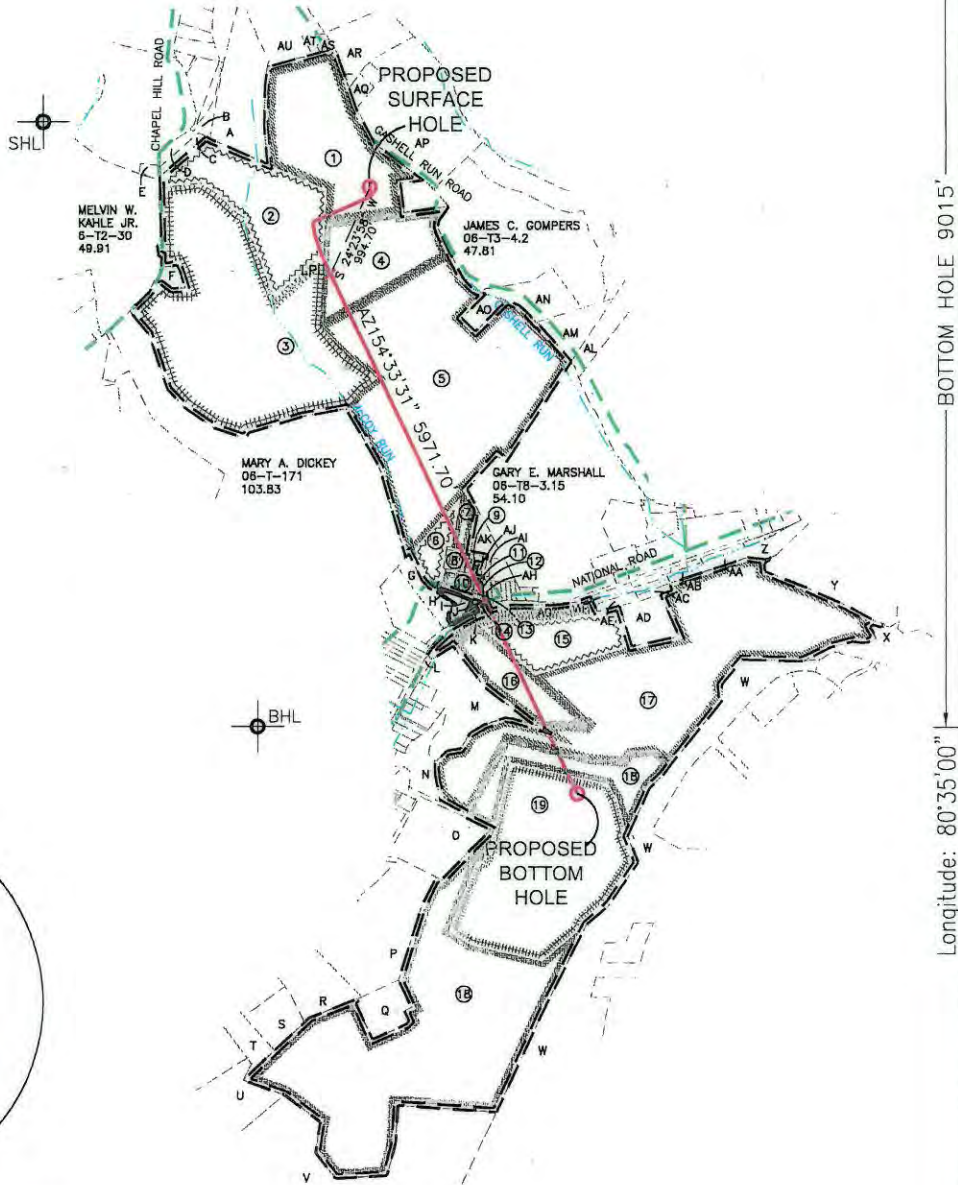
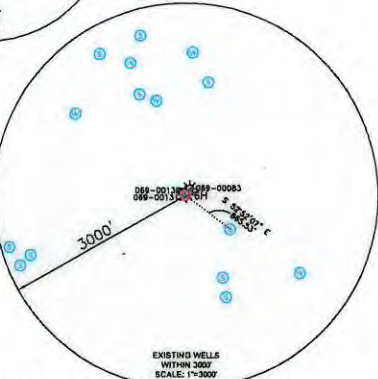
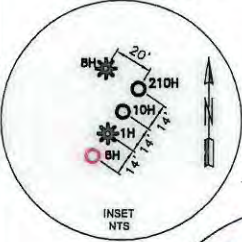
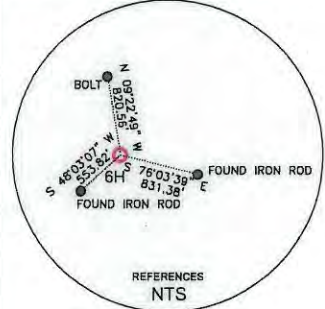
280 Indian Springs Road,
Suite 123 Indiana, PA 15701
Phone: (724) 463-7303

Latitude: 40°05'00"

BOTTOM HOLE 7379'

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,240.17 EASTING: 532,599.78
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,435,962.98 EASTING: 532,478.92
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,434,333.21 EASTING: 533,287.96

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



BOTTOM HOLE 9015'
Longitude: 80°35'00"

Longitude: 80°35'00"

WELL RESTRICTIONS

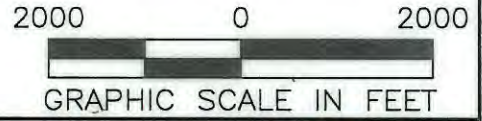
1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 866 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS ARE WITHIN THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. 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

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.

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. 2164



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 ACCURACY: 1/200
 PROVEN SOURCE OF SURVEY GRADE GPS ELEVATION: (NAVD 88, US FT)

OPERATOR'S WELL #: MASON COTTRELL OHI 6H
 API WELL #: 47 STATE 69 COUNTY 00233 PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1296.4'

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

SURFACE OWNER: LOUIS COTTRELL, JR. AS TRUSTEE FOR MASON LOUIS COTTRELL ACREAGE: ±37.475000

OIL & GAS ROYALTY OWNER: LOUIS COTTRELL, JR. AS TRUSTEE FOR MASON LOUIS COTTRELL ACREAGE: ±37.475000

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

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

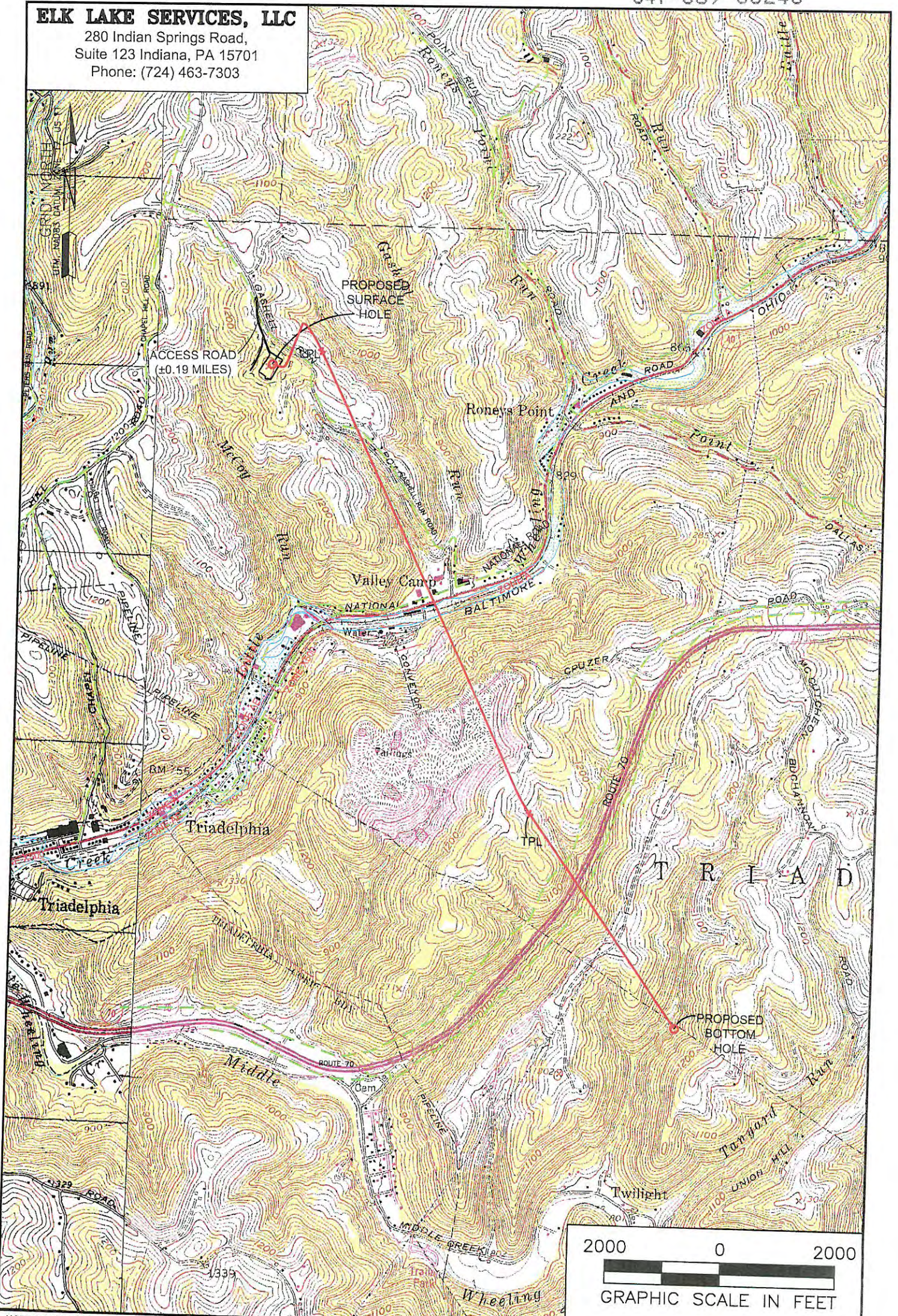
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,414' 09/08/2017

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: 08-29-2017
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— SURVEYED BOUNDARY	FILE NO: 16-53
⊙ EXISTING / PRODUCING WELLHEAD	— DRILLING UNIT	DRAWN BY: H. JOHN
LPL * LANDING POINT LOCATION	==== LEASE BOUNDARY	SCALE: 1" = 2000'
⊕ EXISTING WATER WELL	— PROPOSED PATH	DRAWING NO: 1
⊙ EXISTING SPRING		WELL LOCATION PLAT 1

ELK LAKE SERVICES, LLC

280 Indian Springs Road,
Suite 123 Indiana, PA 15701
Phone: (724) 463-7303



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 4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

WELL OPERATOR:
 SWN PRODUCTION COMPANY, LLC

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

SURFACE OWNER:
 LOUIS COTTRELL, JR. AS TRUSTEE FOR MASON LOUIS COTTRELL TRUST

LEGEND:		ACCESS ROAD	09/08/2017
PROPOSED SURFACE HOLE / BOTTOM HOLE	EXISTING / PRODUCING WELLHEAD	ACCESS ROAD TO PREV. SITE	
LPL	LANDING POINT LOCATION	LEASE BOUNDARY	
FLOOD PLAIN		PROPOSED PATH	
WELL (FARM) NAME:	MASON COTTRELL OHI	WELL #	10H
COUNTY	OHIO COUNTY - 69	SERIAL #	XXXX
USGS 7 1/2 QUADRANGLE MAP NAME	WHEELING, WV	DISTRICT:	TRIADELPHIA