

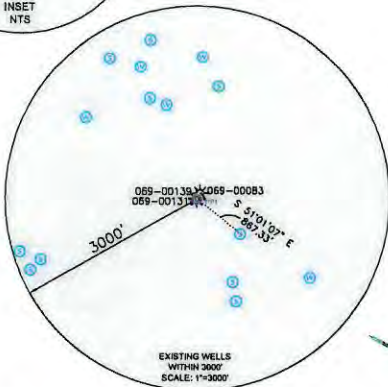
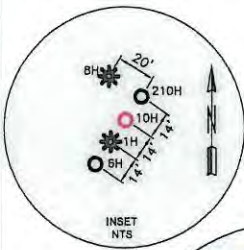
Latitude: 40°05'00" SURFACE HOLE 9592'

Latitude: 40°05'00" BOTTOM HOLE 2186'

ELK LAKE SERVICES, LLC

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

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,247.30 EASTING: 532,604.49
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,326.31 EASTING: 532,862.08
TURNING POINT (TPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,936.51 EASTING: 534,059.74
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,432,843.45 EASTING: 534,877.15



WELL RESTRICTIONS

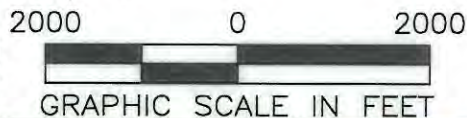
1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 867 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS ARE WITHIN THE LIMITS OF DISTURBANCE.
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.
3. 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

(+) 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 GRADE GPS ELEVATION: (NAVD 88, US FT)

MASON COTTRELL OHI
OPERATOR'S WELL #: 10H
API WELL #: 47 STATE 69 COUNTY 00240 PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1296.0'

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

SURFACE OWNER: LOUIS COTTRELL, JR. AS TRUSTEE FOR MASON LOUIS COTTRELL TRUST ACREAGE: ±37.475

OIL & GAS ROYALTY OWNER: LOUIS COTTRELL, JR. AS TRUSTEE FOR MASON LOUIS COTTRELL TRUST ACREAGE: ±37.475

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

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

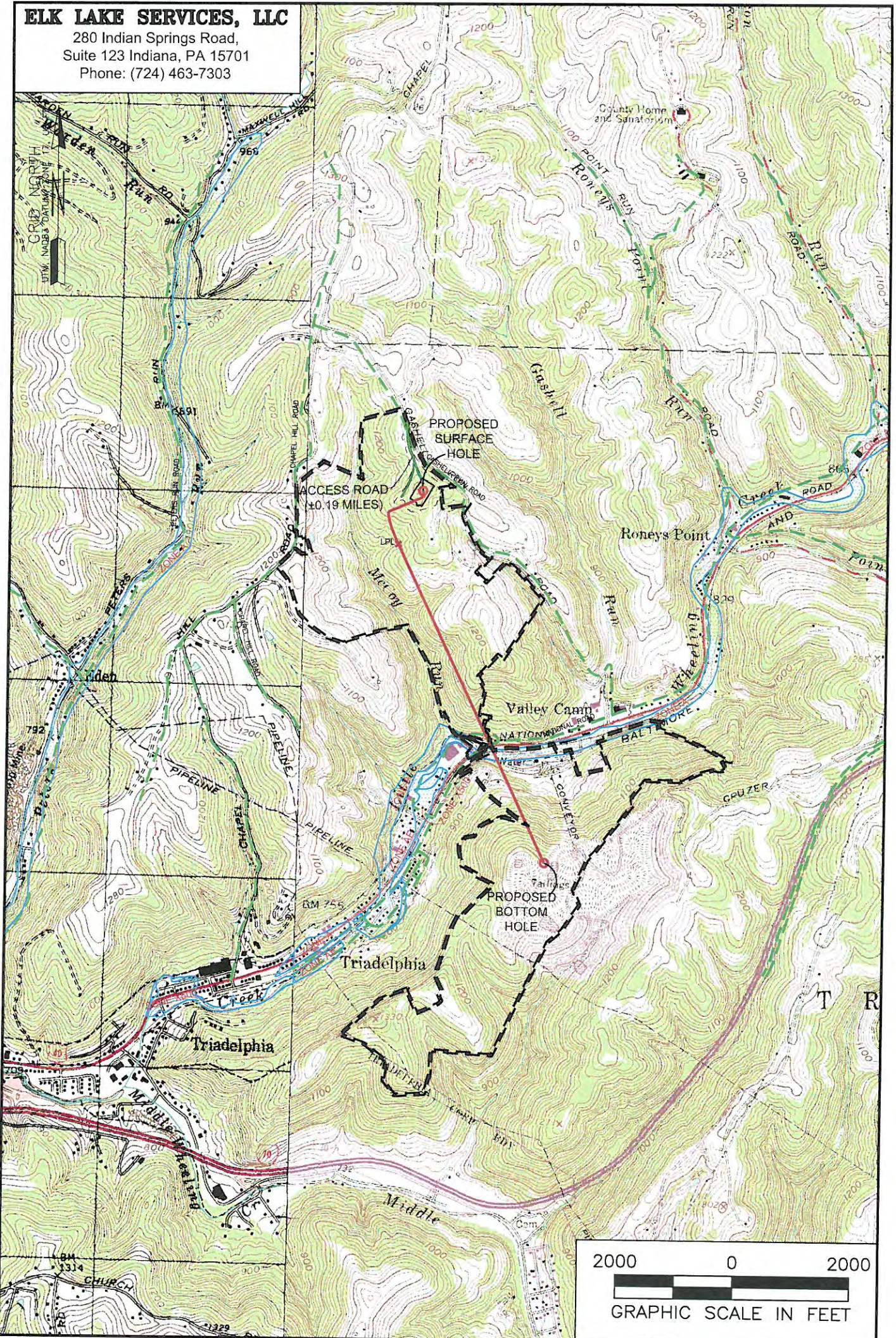
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,484' 09/08/2017

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

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 4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:		ACCESS ROAD
○	PROPOSED SURFACE HOLE / BOTTOM HOLE	--- PUBLIC ROAD
⊗	EXISTING / PRODUCING WELLHEAD	--- ACCESS ROAD
LPL*	LANDING POINT LOCATION	--- LEASE BOUNDARY
🌊	FLOOD PLAIN	--- PROPOSED PATH

09/08/2017

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

WELL (FARM) NAME: MASON COTTRELL OHI	WELL # 6H	SERIAL # XXXX
COUNTY OHIO COUNTY -- 69	DISTRICT: TRIADELPHIA	
USGS 7 1/2 QUADRANGLE MAP NAME WHEELING, WV		

RTEXT: file open error
RTEXT: file open error