

Latitude: 40°05'00"

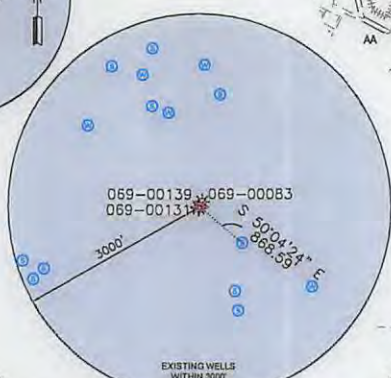
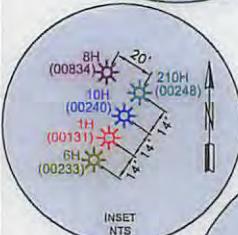
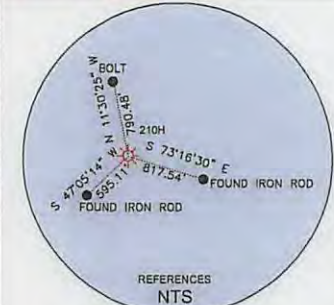
SURFACE HOLE 9582'

Latitude: 40°05'00" BOTTOM HOLE 1616'

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: 4,436,250.93 EASTING: 532,606.87
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,339.09 EASTING: 533,295.63
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,432,946.97 EASTING: 535,050.14

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,250.96 EASTING: 532,606.90
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,407.84 EASTING: 533,238.97
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,432,945.20 EASTING: 535,047.68



WELL RESTRICTIONS

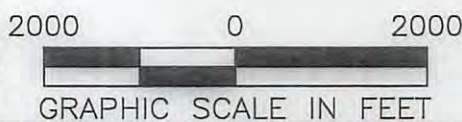
- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 888.59 FEET OF PROPOSED WELL.
- PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS ARE WITHIN THE LIMITS OF DISTURBANCE.
- 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. 2164



COMPANY:
SWN **SWN** ^{R+V+®}
Production Company, LLC 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 SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

MASON COTTRELL OHI
OPERATOR'S WELL #: 210H

API WELL #: 47 069 00248
STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1296.3'

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

SURFACE OWNER: LOUIS COTTRELL, JR., AS TRUSTEE FOR MASON LOUIS COTTRELL ACREAGE: ±37.4750

OIL & GAS ROYALTY OWNER: LOUIS COTTRELL, JR., AS TRUSTEE FOR MASON LOUIS COTTRELL ACREAGE: ±37.4750

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,516' TVD 20,338' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY

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: 07-27-2018
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT		FILE NO: 16-53
⊙ EXISTING / PRODUCING WELLHEAD	— LEASE BOUNDARY		DRAWN BY: JMB
LPL * LANDING POINT LOCATION	— ASDRILLED PATH		SCALE: 1" = 2000'
⊙ EXISTING WATER WELL	— PROPOSED PATH		DRAWING NO: 1
⊙ EXISTING SPRING			WELL LOCATION PLAT 1

Longitude: 80°35'00" SURFACE HOLE 2710'

Longitude: 80°35'00" BOTTOM HOLE 13,591'

09/07/2018