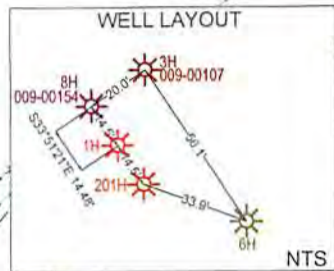
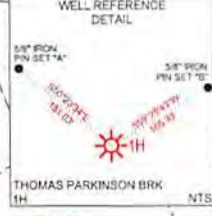
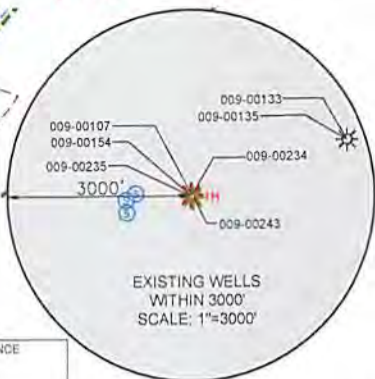
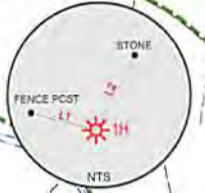


LATITUDE: 40°15'00" SURFACE HOLE ← 6273'

LATITUDE: 40°15'00" BOTTOM HOLE ← 9412'

JHA SURVEYORS
ENGINEERS
ENVIRONMENTAL
GIS MAPPING
www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

LINE	BEARING	DISTANCE
L1	S75°53'30"E	945.14'
L2	S29°07'23"W	1811.59'



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4451492.32
EASTING: 537084.44

LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4451473.20
EASTING: 536976.13

BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4453940.26
EASTING: 536122.10

- NOTES ON SURVEY**
- COORDINATE 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/OR FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 - 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 THE LIMITS OF DISTURBANCE.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - THIS AS-DRILLED PLAT IS PREPARED FROM THE FINAL WELL PLAT PREPARED BY ANOTHER CONSULTANT AND THE DRILLING INFORMATION IS PROVIDED TO JHA.

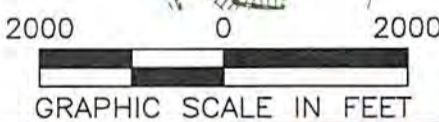
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4451464.47
EASTING: 537090.91

LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4451467.69
EASTING: 536980.08

BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4453924.04
EASTING: 536121.52

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. 2041 *[Signature]* 9/28/18



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)

THOMAS PARKINSON BRK
OPERATOR'S WELL #: 1H

API WELL #: 47 009 00234
STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,160.4'

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY, WV

SURFACE OWNER: BETHANY COLLEGE ACREAGE: ±822.26

OIL & GAS ROYALTY OWNER: BETHANY COLLEGE, A CORPORATION, F/A THE TRUSTEES OF BETHANY COLLEGE, F/A THE TRUSTEES OF BETHANY COLLEGE, A CORPORATION ACREAGE: ±822.26

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: 6,010' TVD 14,950.0' 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:**
- PROPOSED SURFACE HOLE / BOTTOM HOLE
 - ⊙ EXISTING / PRODUCING WELLHEAD
 - LPL LANDING POINT LOCATION
 - ⊙ EXISTING WATER WELL
 - ⊙ EXISTING SPRING
 - PUBLIC ROAD
 - NATURAL WATERWAY
 - SURVEYED BOUNDARY
 - LEASE BOUNDARY
 - AS-DRILLED PATH
 - PROPOSED PATH

REVISIONS:

NO.	DESCRIPTION	DATE

DATE: 09-28-2018

DRAWN BY: D. REED
SCALE: 1" = 2000'
DRAWING NO: 2018-675
WELL LOCATION PLAT

RECEIVED
Office of Oil and Gas
OCT - 9 2018
WV Department of Environmental Protection

LONGITUDE: 80°32'30" SURFACE HOLE 13567'
LONGITUDE: 80°32'30" BOTTOM HOLE 5478'