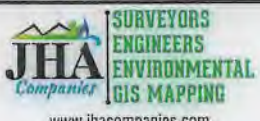


(2,000' SCALE) LATITUDE: 39°45'00" BOTTOM HOLE | 4426'
 (2,000' SCALE) LATITUDE: 39°42'30" SURFACE HOLE | 4097'



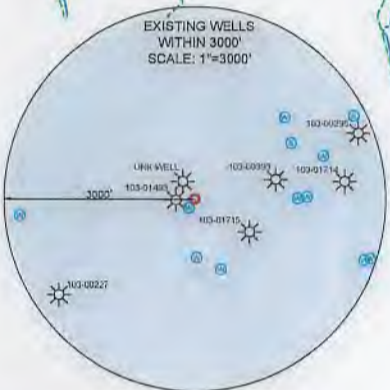
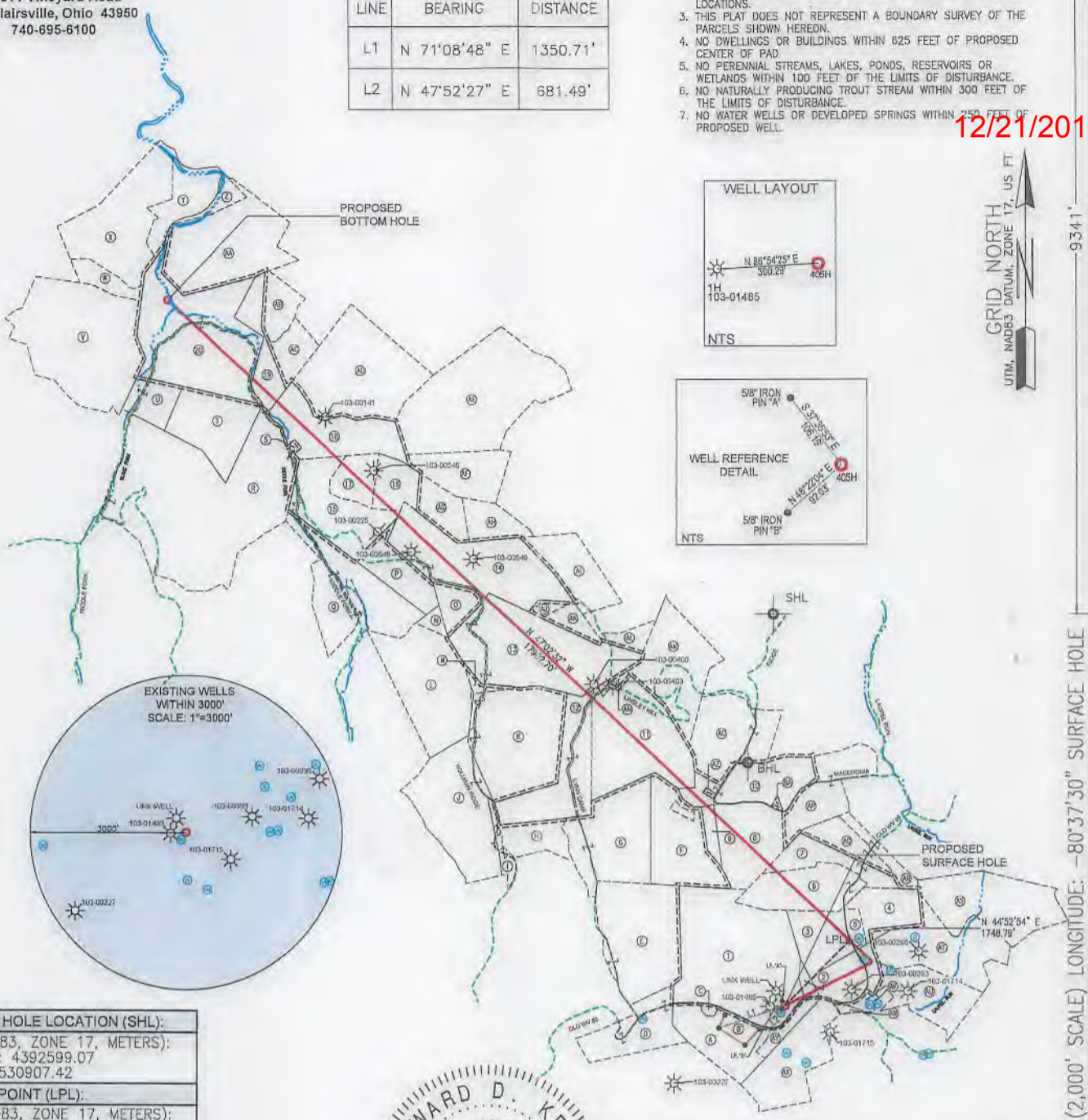
www.jhacompanies.com
 68011 Vineyard Road
 St. Clairsville, Ohio 43950
 740-695-6100

LINE	BEARING	DISTANCE
L1	N 71°08'48" E	1350.71'
L2	N 47°52'27" E	681.49'

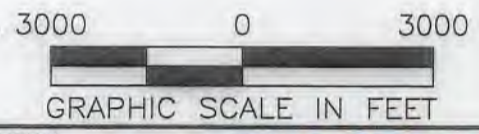
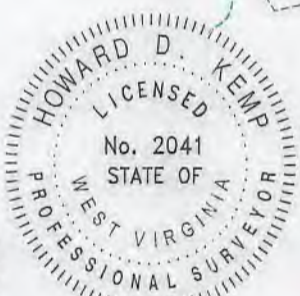
NOTES ON SURVEY

1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. 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.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD
5. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

12/21/2018



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4392599.07 EASTING: 530907.42
LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4392982.86 EASTING: 531277.06
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4396632.99 EASTING: 527223.30



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]* 7/30/18

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	COMPANY: SWN Production Company, LLC OPERATOR'S WELL #: SWN A WTZ 405H API WELL #: 47 STATE 103 COUNTY PERMIT 03253
	WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	WATERSHED: UPPER OHIO SOUTH DISTRICT: PROCTOR COUNTY: WETZEL SURFACE OWNER: SWN PRODUCTION COMPANY, LLC OIL & GAS ROYALTY OWNER: RODNEY CALVERT, ET AL
DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)	TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,389' TVD 25,934.5' TMD	
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378	DESIGNATED AGENT: BRITTANY WOODY ADDRESS: P.O. BOX 1300 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: 07-30-2018 DRAWN BY: D. REED SCALE: 1" = 3000' DRAWING NO: 2016-519 WELL LOCATION PLAT

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	SWN PRODUCTION COMPANY, LLC (S) RODNEY CALVERT, ET AL (R)	12-10-29
TRACT	SURFACE OWNER	TAX PARCEL
2	JACOB & ANNA BICKERSTAFF	12-10-29.2
3	NORMA F. YOCUM	01-7-40
4	SUSAN ANNETT SMITH	01-7-3
5	SUSAN ANNETT SMITH	01-7-3.1
6	CORY & DAVID DURIG	01-7-2
7	CORY & DAVID DURIG	01-7-1
B	DEBORAH D. SHOWALTER	12-10-18
9	DEBORAH D. SHOWALTER	12-10-17
10	BRADLEY SCOTT YOHO	12-10-19
11	SWN PRODUCTION COMPANY, LLC	12-10-11
12	SWN PRODUCTION COMPANY, LLC	12-10-10
13	MILLTREE PROPERTIES, LLC	12-10-3
14	MILLTREE PROPERTIES, LLC	12-5-21
15	CLAUDIA JONAS-MECKEL & ET AL	12-4-27
16	HERBERT O. NICHOLSON	12-4-29
17	CLAUDIA JONAS-MECKEL & ET AL	12-4-28
18	JOHN STULGA	12-4-19
19	NANCY RABER & ET AL	12-4-7
20	NANCY RABER & ET AL	12-4-6

12/21/2018

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	RODNEY A. CALVERT	12-10-29.3
B	RODNEY A. CALVERT	12-10-29.4
C	RODNEY CALVERT & ET AL	12-10-29.1
D	HAESSLY LAND & TIMBER, LLC	12-10-33
E	SWN PRODUCTION COMPANY, LLC	12-10-28
F	KEVIN M. YOHO	12-10-15
G	SWN PRODUCTION COMPANY, LLC	12-10-15
H	SWN PRODUCTION COMPANY, LLC	12-10-14
I	COURTNEY E. & RHEA K. RICHMOND	12-10-21
J	COURTNEY E. & RHEA K. RICHMOND	12-10-13
K	MILLTREE PROPERTIES, LLC	12-10-9
L	ANDREW D. & ANDREA M. SHULUGA REVOCABLE TRUST	12-10-1
M	MILLTREE PROPERTIES, LLC	12-10-2
N	RICHARD W. MASTNEY & MARK MASSARI	12-5-29
O	RICHARD W. MASTNEY & MARK MASSARI	12-5-20
P	JAMES L. RITCHEA & HAZEL JORETTA RITCHEA	12-4-39
Q	MARK MASSARI	12-4-38
R	CHRISTOPHER P. BITHELL	12-4-26
S	SCHOOL	12-4-18
T	CHRISTOPHER P. BITHELL	12-4-17
U	NANCY RABER & ET AL	12-4-16
V	KEVIN L. BLATT (TRUSTEE): BLATT FAMILY IRREVOCABLE TRUST	12-4-5
W	ZACHARY M. BLAIR	09-21-20
X	ZACHARY M. BLAIR	09-21-19
Y	XXXXX	09-21-15
Z	ZACHARY M. BLAIR	09-21-13
AA	MASON DIXON FARMS, LLC	09-21-12
AB	SARAH V. RICHMOND	12-4-8
AC	NANCY RABER & ET AL	12-4-10
AD	CRAIG & CAROL NORDBERG	12-4-11
AE	MASON DIXON FARMS, LLC	12-5-7
AF	MASON DIXON FARMS, LLC	12-5-12
AG	MILLTREE PROPERTIES, LLC	12-5-14
AH	AUGUSTUS R. MCMAHON, III	12-5-15
AI	DANIEL F. & RHONDA K. DURIG	12-5-22
AJ	MILLTREE PROPERTIES, LLC	12-5-25
AK	MILLTREE PROPERTIES, LLC	12-5-26
AL	SWN PRODUCTION COMPANY, LLC	12-10-5
AM	SWN PRODUCTION COMPANY, LLC	12-10-6
AN	ZONA L. TAYLOR	12-10-4
AO	BRADLEY SCOTT YOHO	12-10-12
AP	C.L. YOHO	01-4-37
AQ	CORY & DAVID DURIG	01-4-38
AR	CORY & DAVID DURIG	01-4-39
AS	COASTAL FOREST RESOURCES COMPANY	01-7-5
AT	ERIC L. & AMANDA J. YEATER	01-7-10
AU	ERIC L. & AMANDA J. YEATER	01-7-9
AV	TERRY W. & DORIS YEATER	01-7-9.2
AW	ERIC L. & AMANDA J. YEATER	12-10-34
AX	CRIS B. YOCUM (L/E: GARY & LAVERNE YOCUM)	12-15-9
AY	RODNEY A. CALVERT	12-10-29.5
AZ	DEBORAH D. SHOWALTER	12-10-19.1
BA	RYAN ALLEN YOHO	12-10-19.2

REVISIONS:	COMPANY:	 	
	OPERATOR'S	SWN A	DATE: 07-30-2018
	WELL #:	WTZ 405H	DRAWN BY: D. REED
	DISTRICT:	PROCTOR	SCALE: N/A
	COUNTY:	WETZEL	DRAWING NO: 2016-519
	STATE:	WV	WELL LOCATION PLAT