

LATITUDE: 40°15'00" BOTTOM HOLE ← 3658'

LATITUDE: 40°12'30" SURFACE HOLE ← 10984'

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

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 HEREIN 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.

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

LINE	BEARING	DISTANCE
L1	N22°36'46"E	1945.50'
L2	N03°56'31"W	2565.44'



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4449173.21 EASTING: 532116.75
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4449132.51 EASTING: 531879.44
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4451636.82 EASTING: 530780.95



SWN Production Company, LLC

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

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS 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)	OPERATOR'S WELL #: KATHY MAYHEW BRK 1H API WELL #: 47 009 MOD 00203 STATE COUNTY PERMIT
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,281.2'

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY, WV & TILTONSVILLE, OH

SURFACE OWNER: KATHY LYNN & MICHAEL MAYHEW, ET AL ACREAGE: ±84.74

OIL & GAS ROYALTY OWNER: KATHY LYNN & MICHAEL MAYHEW, ET AL ACREAGE: ±84.74

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: 6,021' TVD 15,416.8' TMD

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: 05-22-2018
(S) PROPOSED SURFACE HOLE / BOTTOM HOLE (X) EXISTING / PRODUCING WELLHEAD LPL LANDING POINT LOCATION (W) EXISTING WATER WELL (S) EXISTING SPRING	— SURVEYED BOUNDARY - - - - - LEASE BOUNDARY ——— PROPOSED PATH	DRAWN BY: C. WEHR SCALE: 1" = 2000' DRAWING NO: 2018-341 WELL LOCATION PLAT

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	KATHY LYNN & MICHAEL MAYHEW, ET AL (S/R)	03-B42-27
TRACT	SURFACE OWNER	TAX PARCEL
2	JAY GLEN COLLINS	03-B41-80
3	JAY GLEN COLLINS	03-B41-79
4	SANDRA W. BUTLER	03-B41-78
5	SANDRA W. BUTLER	03-B41-72
6	RUTH A. HERCULES	03-B41-88
7	GARY MORRIS	03-B41-90
8	RUTH A. HERCULES	03-B41-91
9	CHARLES J. SUTER & D. LA VAUGHN	03-B41-94
10	ELIZABETH ELLEN FLUHARTY	03-B41-95
11	ERNEST F. & JOANNE P. CAPP	03-B41-98
12	ERNEST F. & JOANNE P. CAPP	03-B41-64
13	LORETTA JOAN BASIL	03-B41-99
14	CAROL L. DUFFY	03-B36-113
15	MARK PHILLIPS, ET AL	03-B36-107
16	WINDSOR POWER HOUSE COAL COMPANY	03-B36-104

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	JOSEPH S. & JANE M. BUREK	03-B47-19
B	JAMES LAMONT	03-B47-1
C	BETSY D. TUSTIN	03-B47-2-1
D	DALE T. & MARY R. WOOD	03-B46-46
E	DALE T. & MARY R. WOOD	03-B41-84
F	BARRY L. & PATRICIA A. GREATHOUSE (SURV.)	03-B41-82
G	ROBERT J. MILLER, JR. & LINDA MILLER	03-B41-47
H	WILLIAM & DAWNA MILLER (SURV.)	03-B41-61
I	SANDRA W. BUTLER	03-B41-71
J	RONALD C. BUTLER, ET AL	03-B41-70
K	FRANK & KELLY AINSCOUGH (SURV.)	03-B41-89
L	FRANK & KELLY AINSCOUGH (SURV.)	03-B41-61-7
M	DANIEL R. GORBY	03-B41-61-6
N	COREY CONLEY	03-B41-61-5
O	WILLIAM & DAWNA MILLER (SURV.)	03-B41-61
P	CARL & JUDITH SPENCER (SURV.)	03-B41-65
Q	EMILY J. HUFFNER	03-B41-65-1
R	ERNEST & JOANNE P. CAPP (SURV.)	03-B41-63
S	ERNEST & JOANNE P. CAPP (SURV.)	03-B41-53
T	ERNEST & JOANNE P. CAPP (SURV.)	03-B41-52
U	WINDSOR POWER HOUSE COAL COMPANY	03-B41-49
V	WINDSOR POWER HOUSE COAL COMPANY	03-B36-103
W	WINDSOR POWER HOUSE COAL COMPANY	03-B36-101
X	WINDSOR POWER HOUSE COAL COMPANY	03-B35L-36
Y	KEITH L. HAMILTON	03-B35L-35
Z	KEITH L. HAMILTON	03-B35L-37
AA	FLOYD R. & DORIS M. LOUGHRIE	03-B35L-38
AB	BRIAN L. TESLOVICH	03-B36-145
AC	LYNN COULTER, ET AL	03-B36-143
AD	BEECH BOTTOM VOLUNTEER FIRE DEPARTMENT	03-B36-105

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AE	TREVOR SEAN RICHMAN	03-B36-106
AF	MARK A. & MELODY J. ADAMS	03-B36-142
AG	FREDERICK B. & JULIE M. DAVIS (SURV.)	03-B36-108
AH	DAVID MCCLURE	03-B36-110
AI	VEMURI HOME & GARDENS, LLC.	03-B36-111
AJ	ROBERT & GEORGIA FATHERINGHAM	03-B36-109
AK	MARK A. & MELODY J. ADAMS	03-B36-139
AL	SCOTTY B. & AMY L. COEN (SURV.)	03-B36-138
AM	CAROL L. DUFFY	03-B36-113
AN	DONNA HARMS, ET AL	03-B36-115
AO	DONNA HARMS, ET AL	03-B36-116
AP	JEFFERY ALAN FERRY, ET AL	03-B36-117
AQ	MARK LLOYD & JOANN VANHORN (SURV.)	03-B36-118
AR	JOHN GEORGE, SR. & MAXINE GEORGE	03-B41-100
AS	ERVAN R. COWAN, ET AL	03-B41-101
AT	WILLIAM J. & SANDRA L. COCHRAN (SURV.)	03-B41-102
AU	WAYNE J. & KASSI JO SMITH (SURV.)	03-B41-103
AV	WAYNE J. & KASSI JO SMITH (SURV.)	03-B41-104
AW	ROGER L. & KAREN A. SNODERLY	03-B41-105
AX	ROGER L. & KAREN A. SNODERLY (SURV.)	03-B41-106
AY	KADESH CHAPEL CEMETARY	03-B41-107
AZ	KADESH CHAPEL CEMETARY	03-B41-108
BA	REBECCA A. LOWMILLER	03-B41-96
BB	JEFF & REGINA M. VANCAMP (SURV.)	03-B41-97
BC	KADESH CHAPEL CEMETARY	03-B41-111
BD	HAROLD GRIFFIN, JR. & LINDA GRIFFIN (SURV.)	03-B41-112
BE	HAROLD D. & EVELYN C. GRIFFIN	03-B41-113
BF	RICHARD A. & PRISCILLA OLIVER (SURV.)	03-B41-115
BG	GARY A. MORRIS, SR.	03-B41-93
BH	RUTH A. HERCULES	03-B41-92
BI	DEWAYNE E. & ALBERTA J. KELLER (SURV.)	03-B41-87
BJ	ETHEL I. SCHERICH	03-B41-73
BK	ETHEL I. SCHERICH	03-B41-75
BL	SANDRA W. BUTLER	03-B41-74
BM	SANDRA W. BUTLER	03-B41-77
BN	SHAWN M. SINES	03-B41-85
BO	HENRY MIKELS & BONNIE J. BURKETT (SURV.)	03-B41-86-1
BP	JASON D. & MARY E. WHITE (SURV.)	03-B41-86
BQ	ROBERT D. HILDEBRAND III & LESLIE C. HILDEBRAND	03-B42-63
BR	FRANK G. & KELLY L. AINSCOUGH (SURV.)	03-B42-71
BS	HENRY HEINZROTH	03-B42-32
BT	LUTHER GRIZZEL	03-B42-30
BU	LUTHER GRIZZEL	03-B42-31
BV	LUTHER GRIZZEL	03-B42-29
BW	ELIZABETH ELLEN FLUHARTY	03-B47-18
BX	MARK & TRINA PROVENZANO (SURV.)	03-B41-80-1
BY	JOSEPH P. SCRIP, SR. & ROBIN M. SCRIP (SURV.)	03-B41-80-2

REVISIONS:

COMPANY:

SWN
Production Company, LLC

OPERATOR'S

KATHY MAYHEW

DATE: 05-22-2018

WELL #:

BRK 1H

DRAWN BY: C. WEHR

DISTRICT:
BUFFALO

COUNTY:
BROOKE

STATE:
WV

SCALE: N/A
DRAWING NO: 2018-341
WELL LOCATION PLAT