

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.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR:
SWN PRODUCTION COMPANY, LLC

ADDRESS:
1300 FORT PIERPONT DRIVE, SUITE 201 MORGANTOWN WV 26508

SURFACE OWNER:
ROBERT BONE

WELL (FARM) NAME:
ROBERT BONE BRK

COUNTY - CODE DISTRICT;
BROOKE - 009 BUFFALO

USGS 7 1/2 QUADRANGLE MAP NAME
BETHANY, WV & STEUBENVILLE EAST, OH

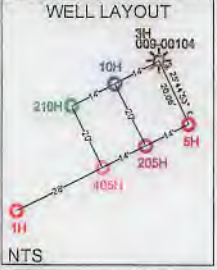
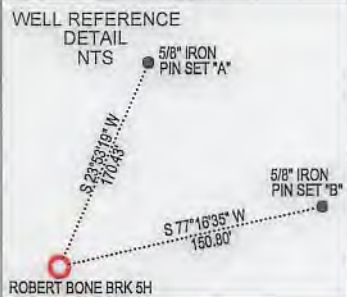
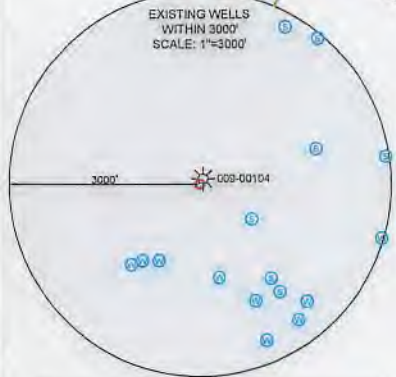
WELL # SERIAL #
5H XXXX



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

NOTES ON SURVEY

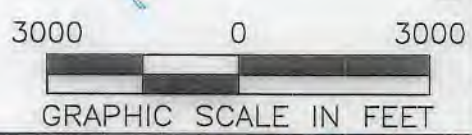
1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
3. THIS PLAT DOES 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.



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4452138.47 EASTING: 533838.08
LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4452309.50 EASTING: 534242.80
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4456784.96 EASTING: 532555.52

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



COMPANY: **SWN** Production Company, LLC

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)</p>	<p>OPERATOR'S WELL #: ROBERT BONE BRK 5H</p> <p>API WELL #: 47 STATE 009 COUNTY PERMIT 00286 HGA</p>
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1147.5'

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY, WV & STEUBENVILLE EAST, OH

SURFACE OWNER: ROBERT BONE ACREAGE: ±81.99

OIL & GAS ROYALTY OWNER: ROBERT BONE ACREAGE: ±81.99

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: 5,851' TVD 22,155.7' TMD



WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	DESIGNATED AGENT: BRITANY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201	ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	REVISIONS:	DATE: 08-26-2019
<ul style="list-style-type: none"> PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LPL LANDING POINT LOCATION EXISTING WATER WELL EXISTING SPRING SURVEYED BOUNDARY DRILLING UNIT LEASE BOUNDARY PROPOSED PATH 	<ul style="list-style-type: none"> REVISOR REVISION DESCRIPTION 	<ul style="list-style-type: none"> DRAWN BY: M. SNIDER SCALE: 1" = 3000' DRAWING NO: 2017-219 WELL LOCATION PLAT

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	ROBERT BONE (S)/(R)	03-837-0081.0000
TRACT	SURFACE OWNER	TAX PARCEL
2	WILLIAM E. JOHNSTON & HAZEL E. JOHNSTON, HUSBAND AND WIFE, JTWROS	03-837-0050.0000
3	MARK A. CHRISTMAN	03-837-0045.0000
4	JAMIE L. OHLER	03-837-0043.0000
5	KEVIN R. COLLINS & SANDRA A. COLLINS	03-832-0130.0000
6	REBECCA L. UHLLY	03-832-0139.0000
7	JOSEPH P. LIZON III & ERIN REBECCA NIXON	03-832-0192.0000
8	JOSEPH P. LIZON III & ERIN REBECCA NIXON	03-832-0192.0001
9	BENITA HOITT, JAMES R. JOHNSON, JR., LURA M. JOHNSON (F.K.A. LURA M. HOIT), JEANETTA WELLMAN, KENT WELLMAN, RANDY WELLMAN, & CHARLES LANE KILDOW	03-832-0194.0000
10	DONALD C. BURKHART	03-832-0191.0000
11	DAVID MCGOWAN	03-832-0190.0000
12	ROBERT G. TREDWAY	03-832-0188.0000
13	SCHIAPPA AND COMPANY INC.	03-832-0009.0000
14	SCHIAPPA AND COMPANY INC.	03-832-0010.0000
15	ROBIE AND GERTRUDE LOUISE MCSHANE	03-832-0030.0000
16	ROBIE AND GERTRUDE LOUISE MCSHANE	03-832-0029.0000
17	ROBIE AND GERTRUDE LOUISE MCSHANE	03-827P-0030.0000
18	NORMA JEAN LILLY	03-827-0017.0000
19	HFS LIMITED LIABILITY COMPANY	03-827-0012.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	BENJAMIN M. MOSA & CHRISTINE L. HEISE (SURV.)	03-837-0074.0000
B	BENJAMIN M. MOSA & CHRISTINE L. HEISE (SURV.)	03-837-0079.0000
C	TERRENCE BONE & SUSAN BONE	03-837-0080.0000
D	BRIAN K. HANEY & GINA M. HANEY (SURV.)	03-837-0077.0000
E	VEMURI HOME AND GARDENS L.L.C.	03-837-0082.0000
F	DEBRA CYPHERT, MATTHEW H. FAIR, SUSAN S. FAIR, RICHARD HENTHORN	03-837-0088.0000
G	DEBRA CYPHERT, MATTHEW H. FAIR, SUSAN S. FAIR, RICHARD HENTHORN	03-837-0091.0000
H	SCHIAPPA AND COMPANY INC.	03-837-0023.0000
I	SCHIAPPA AND COMPANY INC.	03-837-0022.0000
J	KEVIN D. KOSUT & BRIDGET KOSUT (SURV.)	03-837-0042.0000
K	CITY OF WELLSBURG COMBINED WATER AND SEWER BOARD	03-832-0140.0002
L	CITY OF WELLSBURG COMBINED WATER AND SEWER BOARD	03-832-0192.0002
M	EDWARD & SUSAN ZATTA	03-832-0140.0000
N	ROBERT G. TREDWAY JR.	03-832-0189.0000
O	KAREN L. REINACHER	03-832-0187.0000
P	CHARLES MICHAEL TREDWAY & BARBARA JEAN TREDWAY	03-832-0186.0000
Q	JOYCE BRADY, BRIAN JOHNSTON, DANIEL JOHNSTON, KENNETH JOHNSTON, RALPH JOHNSTON, ROBERT A. JOHNSTON	03-832-0185.0000
R	MASLO FARMS, LLC. A PENNSYLVANIA LLC.,	03-832-0019.0000
S	JOSEPH; DAVID; LAWRENCE; GEORGE VIDERMAN, ETAL	03-832-0013.0000
T	HAMILTON PENNY (TRANSFER UPON DEATH)	03-832-0011.0000
U	TONY J. CASTILLO; RICHARD R. OSTRANDER	03-832-0027.0000
V	TONY J. CASTILLO; RICHARD R. OSTRANDER	03-832-0028.0000
W	LINDA COEN	03-832-0025.0000
X	JAMES L. ELLIOTT & SONDR A. ELLIOTT	03-831-0121.0000
Y	HFS LIMITED LIABILITY COMPANY	03-831-0001.0000
Z	W VA DEPT OF HIGHWAYS	03-827-0011.0000
AA	W VA DEPT OF HIGHWAYS	03-827-0004.0000
AB	DANIEL P. LOMBARDI	03-827K-0211.0000
AC	FRANCIS FORSYTHE	03-827K-0210.0000
AD	ROBERT C. III & RONICA L. CRISS	03-827K-0206.0000
AE	ROBERT C. III & RONICA L. CRISS (SURV)	03-827K-0205.0000
AF	RYAN MATTHEW WILLIAMS	03-827K-0204.0000
AG	RYAN MATTHEW WILLIAMS	03-827K-0203.0000
AH	RANDY M & BRENDA WILLIAMS (SURV)	03-827K-0202.0000
AI	JOHN J. SR. FRISCO, JOSEPHINE IWANYSZN	03-827K-0189.0000
AJ	JOHN J. SR. FRISCO, JOSEPHINE IWANYSZN	03-827K-0190.0000
AK	ABANDON RAILWAY, S. OF BUFFALO CREEK	03-827K-0188.0000
AL	WILLIAM KISNER	03-827R-0050.0000
AM	EVA K. ELLIOTT & GARY L. ELLIOTT (SURV)	03-827R-0084.0000
AN	EDWARD W. & LESA M. NICHOLSON	03-827R-0082.0000
AO	GREGORY DEDITCH	03-832-0001.0000
AP	PETRUCCIOLI RONALD A (LE- ROBERT A & MARIE ELIZABETH)	03-832-0002.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AQ	PETRUCCIOLI RONALD A (LE- ROBERT A & MARIE ELIZABETH)	03-832-0003.0000
AR	GLENN A. & SUSAN L. STEWART	03-832-0004.0000
AS	WILLIAM R. WALNOHA	03-832-0005.0000
AT	WILLIAM R; CAROLYN S; JESSICA WALNAHA (SURV)	03-832-0007.0000
AU	DAVID B. JONES	03-832-0008.0000
AV	JEANNE L. & MELANIE JEANNE LUNSFORD	03-832-0072.0000
AW	FLOYD J. & VIRGINIA A. SWIGER (SURV)	03-832-0071.0000
AX	FLOYD J. & VIRGINIA A. SWIGER (SURV)	03-832-0070.0000
AY	PATRICIA PREMESA GLORIA SAUVAGEOT	03-832-0069.0000
AZ	JAY D. & KAREN SUE RECK	03-832-0068.0000
BA	JAY D. & KAREN SUE RECK	03-832-0067.0000
BB	JAY D. & KAREN SUE RECK	03-832G-0067.0001
BC	HERBERT MCGOWAN	03-832G-0067.0000
BD	VEMURI HOME & GARDENS LLC	03-832G-0001.0000
BE	DIXIE LEE OHLER	03-832G-0002.0000
BF	PARCEL W & B PIKE	03-832G-0003.0000
BG	EDDIE E. ELLIOTT	03-832G-0004.0000
BH	ALBERT W; REID DEBORAH ANN PLOTTS (SURV)	03-832G-0005.0000
BI	LARRY M. & DEBORAH R. REED (SURV)	03-832G-0006.0000
BJ	ROBERT F & ANNA OHLER	03-832G-0007.0000
BK	JOHN H. FOX	03-832G-0008.0000
BL	RUBY E. WOLFE	03-832G-0009.0000
BM	MARY ANN HARTLEY	03-832G-0010.0000
BN	WILMA SUE YANO	03-832G-0011.0000
BO	WILMA SUE YANO	03-832-0088.0000
BP	SUSAN A. FODOR	03-832-0089.0000
BQ	LEO F. BOLDEN & BARBARA R. BOLDEN	03-832-0090.0000
BR	SAMUEL HERVEY HUBBARD	03-832-0096.0000
BS	PATRICIA WILLIAMS	03-832-0134.0000
BT	MARILYN MCCORD	03-832-0198.0000
BU	GARY L. GAMBILL	03-832-0197.0000
BV	ADA M. ARACICH	03-832-0196.0000
BW	ADA M. ARACICH	03-832-0195.0000
BX	CHARLES W. WAGNER & TAMMY S. WAGNER (SURV.)	03-832-0193.0000
BY	DAVID L. HALL & WIFE JULIE A. HALL	03-832-0136.0000
BZ	DAVID L. HALL & WIFE JULIE A. HALL	03-832-0137.0000
CA	DAVID L. HALL & WIFE JULIE A. HALL	03-832-0138.0000
CB	KEVIN R. COLLINS & SANDRA A. COLLINS	03-832-0130.0001
CC	DAVID L. HALL & WIFE JULIE A. HALL	03-832-0137.0001
CD	HAMMOND PUBLIC SERVICE DISTRICT	03-832-0135.0000
CE	BERNARD L. MILLER JR. & DONNA J. MILLER	03-832-0132.0000
CF	BERNARD L. MILLER JR.	03-832-0131.0000
CG	JOSEPH C. MORRIS & PENNY J. MORRIS	03-832-0129.0000
CH	VINCENT MAZZELLA & PHILLIP MAZZELLA	03-832-0128.0000
CI	VINCENT MAZZELLA & PHILLIP MAZZELLA	03-832-0046.0000
CJ	DONNA A. MAZZELLA	03-832-0044.0000
CK	DWARKA NATH VEMURI D/B/A AMERICAN HEART ASSOCIATES	03-832-0047.0000
CL	SHELBY L. CARRELL, BONNIE LEE LUKACENA, EDWARD O'DYER, PAIGE ELIZABETH ROLLINS, JULIE SHEY SCHUETZNER, SHANON SCHUETZNER, SHAYNE SCHUETZNER, CHERI A. SHARPE	03-832-0048.0000
CM	WILLIAM E. JOHNSTON & HAZEL E. JOHNSTON JTWROS	03-832-0053.0001
CN	BUFFALO CREEK CAMP	03-832-0051.0000
CO	MARLIN G. CRAWFORD SR. & JOY CRAWFORD	03-832-0055.0000
CP	JOHN E. RIPLEY & SHERRILL J. RIPLEY	03-832-0062.0000
CQ	JOSEPH K. BOWMAN & GLORIA JEAN BOWMAN	03-832-0070.0000
CR	JOSEPH K. BOWMAN & GLORIA JEAN BOWMAN	03-832-0069.0001
CS	WILLIAM E. JOHNSTON & HAZEL E. JOHNSTON, JTWROS, CAROLE SILVER & WOODROW W. SILVER JR. (LIFE ESTATE), PAULA KAY SILVER (LIFE ESTATE)	03-832-0071.0000
CT	WILLIAM E. JOHNSTON & HAZEL E. BERTY JOHNSTON, JTWROS	03-832-0074.0001
CU	HAMMOND PUBLIC SERVICE DISTRICT	03-832-0194.0001
CV	HAMMOND PUBLIC SERVICE DISTRICT	03-832-0045.0001

REVISIONS:	COMPANY:	 	
	OPERATOR'S	ROBERT BONE	DATE: 08-26-2019
	WELL #:	47-001-00246 BRK 5H	DRAWN BY: M. SNIDER
	DISTRICT:	BUFFALO	SCALE: N/A
	COUNTY:	BROOKE	DRAWING NO: 2017-219
	STATE:	WV	WELL LOCATION PLAT