

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.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

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

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: ROBERT BONE BRK	WELL # 210H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY - CODE BROOKE - 009	DISTRICT; BUFFALO	
SURFACE OWNER: ROBERT BONE	USGS 7 1/2 QUADRANGLE MAP NAME BETHANY, WV		

Latitude: 40°12'30"

BOTTOM HOLE 10622'

Latitude: 40°15'00" SURFACE HOLE

5320'



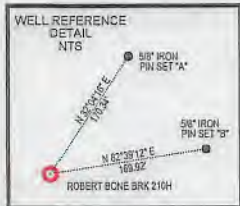
www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

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.



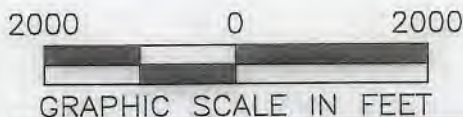
LINE	BEARING	DISTANCE
L1	N 86°33'03" E	899.30'
L2	S 77°36'11" E	2,108.46'



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4452139.91 EASTING: 533827.70
LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4452247.39 EASTING: 534600.69
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4449366.24 EASTING: 535776.64

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 **SWN** Production Company™

<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)	OPERATOR'S WELL #: ROBERT BONE BRK 210H API WELL #: 47 STATE, 009 COUNTY, 00289 PERMIT
	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: BUFFALO COUNTY: BROOKE SURFACE OWNER: ROBERT BONE OIL & GAS ROYALTY OWNER: ROBERT BONE
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: 5,997 TVD 17,031 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508
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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: REVISED DESIGNATED AGENT DATE: 08-27-2019 DRAWN BY: C.WEHR,SSU SCALE: 1" = 2000' DRAWING NO: 2017-219 WELL LOCATION PLAT
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WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	ROBERT O. BONE (S) ROBERT O. BONE (R)	03-0B37-0081.0000	81.99
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	WILLIAM E. JOHNSTON & HAZEL E. JOHNSTON (SURV.)	03-0B37-0050.0000	166.50
3	JOSEPH K. BOWMAN AND GLORIA JEAN BOWMAN, HUSBAND AND WIFE (SURV)	03-0B37-0070.0000	3.30
4	JOSEPH K. BOWMAN AND GLORIA JEAN BOWMAN, HUSBAND AND WIFE (SURV)	03-0B37-0069.0001	3.40
5	WILDA L. RIPLEY (LIFE ESTATE), JOHN E. RIPLEY AND SHERRILL J. RIPLEY (REMAINDERMEN)	03-0B37-0062.0000	95.40
6	THEODORE W. BUNNELL	03-0B37-0068.0000	13.10
7	LOTHIE KEITH, SINGLE	03-0B37-0067.0000	1.50
8	LPS INVESTMENT PARTNERSHIP	03-0B37-0066.0000	65.00
9	ELLEN B. SANFORD	03-0B37-0076.0000	66.00
10	LABELLE FARMS INC.	03-0B42-0060.0000	349.88
11	ELLEN B. SANFORD	03-0B38-0056.0000	203.93
12	WINDSOR POWER HOUSE COAL CO.	03-0B42-0048.0000	17.68
13	MARY WELLS CHAMBERS, WIDOW	03-0B43-0014.0000	11.25
14	WINDSOR POWER HOUSE COAL CO.	03-0B43-0016.0000	10.74
15	JOYCE ANN MCGEEHAN	03-0B43-0017.0000	45.47

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	WILLIAM E. JOHNSTON AND HAZEL E. JOHNSTON, JTWRs, CAROLE SILVER AND WOODROW W. SILVER, JR. (LIFE ESTATE), PAULA KAY SILVER (LIFE ESTATE)	03-0B37-0071.0000	2.36
B	WILLIAM E. JOHNSTON & HAZEL E. BERTY JOHNSTON (SURV.)	03-0B37-0074.0001	4.10
C	BENJAMIN M. MOSA & CHRISTINE L. HEISE (SURV.)	03-0B37-0074.0000	24.41
D	BENJAMIN M. MOSA & CHRISTINE L. HEISE (SURV.)	03-0B37-0079.0000	2.17
E	TERRENCE BONE & SUSAN BONE	03-0B37-0080.0000	2.58
F	BRIAN K. HANEY & GINA M. HANEY (SURV.)	03-0B37-0077.0000	45.75
G	VEMURI HOME & GARDENS LLC.	03-0B37-0082.0000	1.00
H	DEBRA CYPHERT; MATTHEW H. FAIR, SUSAN S. FAIR, RICHARD HENTHORN	03-0B37-0088.0000	59.95
I	DEBRA CYPHERT; MATTHEW H. FAIR, SUSAN S. FAIR, RICHARD HENTHORN	03-0B37-0091.0000	93.93
J	SCHIAPPA AND COMPANY INC.	03-0B37-0023.0000	90.91
K	SCHIAPPA AND COMPANY INC.	03-0B37-0022.0000	145.96
L	VIVIAN LUCILLE MAZZELLA	03-0B37-0045.0000	110.58
M	VEMURI DWARKA NATH DBA AMERICAN HEART ASSOCIATES	03-0B37-0047.0000	16.93
N	BONNIE LEE LUKACENA, SHELBY CARRELL, SHAYNE SCHUETZNER, SHANON SCHUETZNER, SHEY SCHUETZNER, CHERI SHARPE, JOHN THOMAS RODGERS, PAIGE ELIZABETH ROLLINS	03-0B37-0048.0000	81.50
O	WILLIAM E. JOHNSTON & HAZEL E. JOHNSTON	03-0B37-0053.0001	1.33
P	BUFFALO CREEK CAMP	03-0B37-0051.0000	1.00
Q	MARLIN G. CRAWFORD SR. AND JOY CRAWFORD, HIS WIFE	03-0B37-0055.0000	1.33
R	ERVIN COWAN, RICHARD COWAN, DIANE E. DIGHT, JODY TENNANT	03-0B37-0056.0000	1.11
S	JEREMY S. PERSINGER	03-0B37-0057.0000	1.07
T	TRAVIS POLEN	03-0B37-0059.0000	1.84
U	JOHN E. RIPLEY & SHERRILL J. RIPLEY	03-0B37-0061.0000	1.30
V	WILDA L. RIPLEY (LIFE ESTATE) JOHN E. RIPLEY & SHERRILL J. RIPLEY (REMAINDERMEN)	03-0B37-0062.0000	95.40
W	MELVIN E. PELUCHETTE	03-0B37-0063.0000	109.39
X	JOHN B. DAUGHERTY	03-0B37-0065.0000	3.20
Y	ESTATE OF SHAWN C. ARACICH, DECEASED	03-0B37-0064.0000	8.30
Z	LESLIE ELSON & GAYLENE ELSON	03-0B38-0055.0000	0.47
AA	LESLIE ELSON & GAYLENE ELSON	03-0B38-0048.0000	0.48
AB	PENNY MARIE STUMPF	03-0B38-0057.0000	1.38
AC	MATTHEW T. NICHOLSON	03-0B38-0043.0000	0.86
AD	MARK T. NICHOLSON & KIMBERLY J. NICHOLSON	03-0B38-0042.0001	1.23
AE	ROY T. NICHOLSON	03-0B38-0042.0000	5.08
AF	ROY T. NICHOLSON	03-0B38-0041.0000	0.02
AG	AMY LYNNE RICE	03-0B38-0040.0000	4.35
AH	GEORGE SCOTT RICE	03-0B38-0039.0000	1.00
AI	TERRY P. THOMPSON & KAREN THOMPSON	03-0B38-0038.0000	22.20
AJ	BETHANY COLLEGE	03-0B38-0031.0000	822.26
AK	BETTIE BECK LEONETTI (DECEASED)	03-0B43-0005.0000	191.25
AL	WINDSOR POWER HOUSE COAL CO.	03-0B43-0015.0000	5.74
AM	MARY WELLS CHAMBERS	03-0B43-0013.0000	3.77
AN	JOYCE ANN MCGEEHAN	03-0B43-0017.0000	45.47
AO	JOYCE ANN MCGEEHAN	03-0B43-0017.0001	1.00
AP	THOMAS AND CHERYL FLAHERTY	03-0B43-0024.0000	0.98
AQ	HILLARY SAYRE	03-0B43-0023.0000	1.29
AR	BRIAN DAVID CORWIN	03-0B43-0022.0000	146.20
AS	SILVEA MAZZELLA MAZZELLA	03-0B43-0018.0000	1.00
AT	MARION PYLE STONE	03-0B43-0019.0000	1.00
AU	MARION PYLE STONE	03-0B43-0020.0000	1.96
AV	WILLIAM BRITT COX	03-0B43-0021.0000	44.73
AW	THURMAN O. SPEECE JR., & GOLDIE M. STANLEY	03-0B42-0044.0000	8.50
AX	THURMAN O. SPEECE JR., & GOLDIE M. STANLEY	03-0B42-0045.0000	14.20
AY	THURMAN O. SPEECE JR., & GOLDIE M. STANLEY	03-0B42-0047.0000	4.10
AZ	THURMAN O. SPEECE JR., & GOLDIE M. STANLEY	03-0B42-0046.0000	89.13
BA	THURMAN O. SPEECE JR., & JASON SPEECE	03-0B42-0046.0001	2.00
BB	JEFFREY S. WARD & DAWNA J. WARD	03-0B42-0059.0004	98.11
BC	AUSTIN WAYNE WARD & JUSTINE ADAH WADE	03-0B42-0050.0000	4.94
BD	AUSTIN WAYNE WARD & JUSTINE ADAH WADE	03-0B42-0060.0001	0.67
BE	JAMES & JO ELLEN HAIZLETT	03-0B42-0060.0002	65.47
BF	WILLIAM A. HAIZLETT & LYNNETTE G. HAIZLETT, JTWRs	03-0B42-0060.0003	1.74
BG	EDGAR S. ERDMAN & CECELIA M. ERDMAN	03-0B42-0049.0000	0.63
BH	LINDA REEVES GREATHOUSE & VICKI LYNN HAMILTON	03-0B37-0087.0000	322.84
BI	WILLIAM A. SPERRINGER, III & JENNA L. SPERRINGER (SURV.)	03-0B37-0078.0000	2.36
BJ	WILLIAM E. JOHNSTON & HAZEL E. JOHNSTON	03-0B37-0069.0000	0.30
BK	WILLIAM E. JOHNSTON & HAZEL E. JOHNSTON, JTWRs	03-0B37-0073.0000	1.28
BL	WILLIAM E. JOHNSTON, AND HAZEL E. JOHNSTON, JTWRs, CAROLE SILVER AND WOODROW W. SILVER, JR. (LIFE ESTATE), PAULA KAY SILVER (LIFE ESTATE)	03-0B37-0072.0000	1.40
BM	JAMES & JO ELLEN HAIZLETT	03-0B43-0064.0000	5.74

REVISIONS:

COMPANY:

SWN
Production Company, LLC

OPERATOR'S ROBERT BONE

WELL #: 47-009-00289 BRK 210H

DISTRICT:
BUFFALO

COUNTY:
BROOKE

STATE:
WV

DATE: 08-27-2019

DRAWN BY: C.WEHR,SSU

SCALE: N/A

DRAWING NO: 2017-219

WELL LOCATION PLAT