

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 O. BONE

WELL (FARM) NAME:
ROBERT BONE BRK

COUNTY - CODE
BROOKE - 009

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

WELL # SERIAL #
205H XXXX

DISTRICT;
BUFFALO

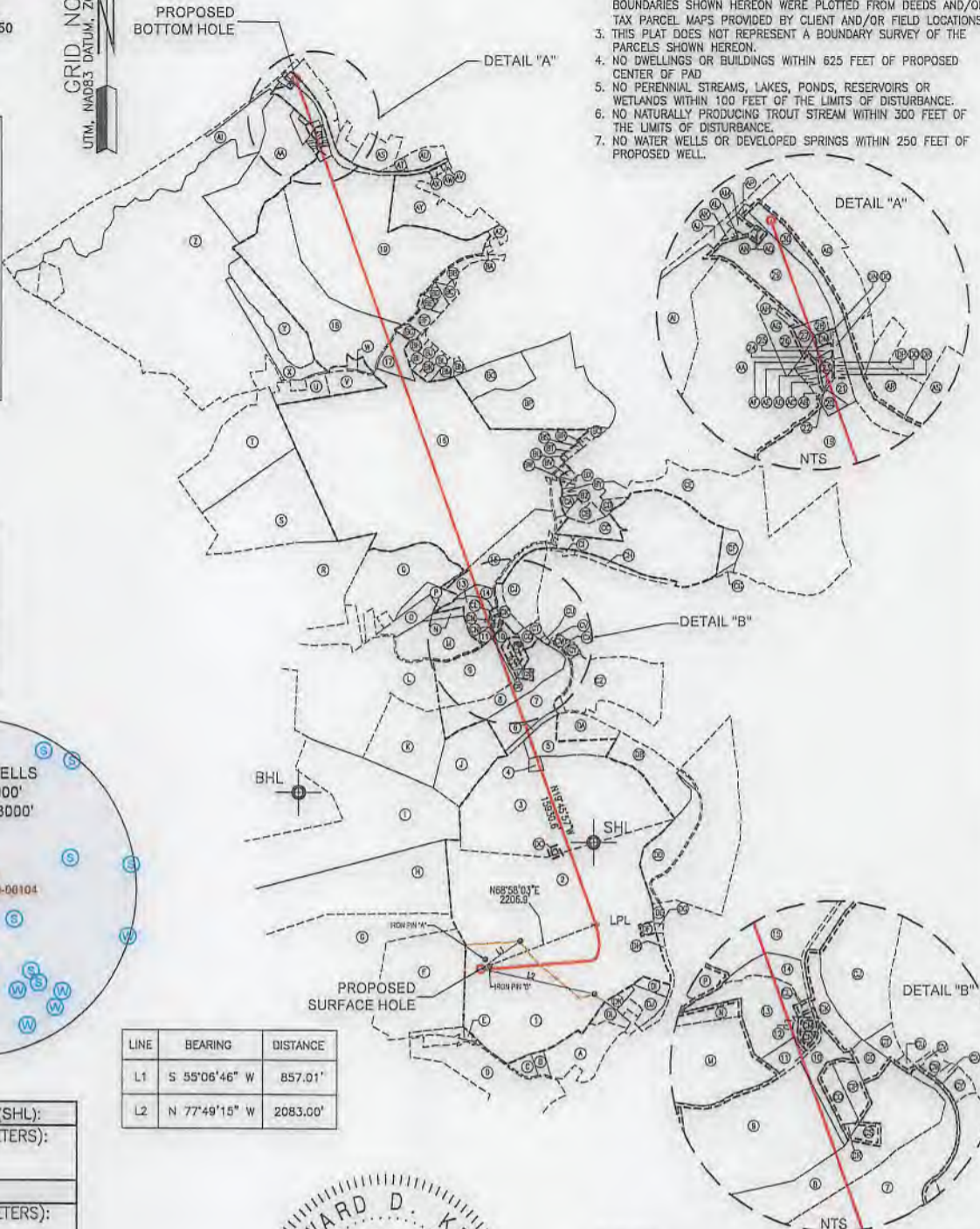
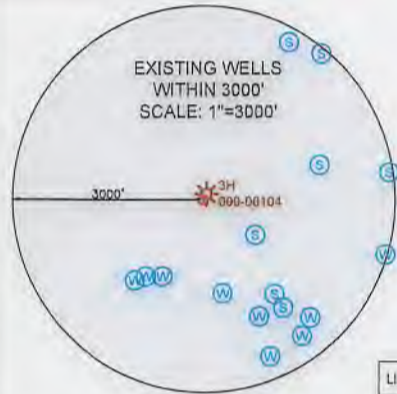
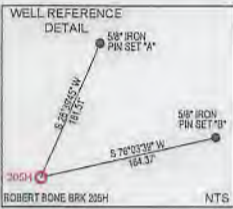
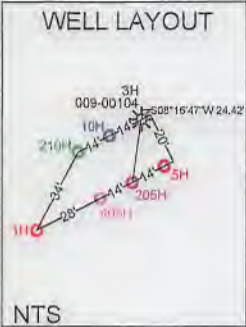


www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

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

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.

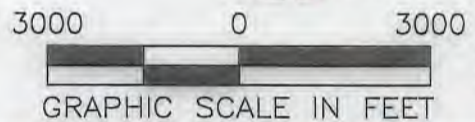


LINE	BEARING	DISTANCE
L1	S 55°06'46" W	857.01'
L2	N 77°49'15" W	2083.00'

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4452136.49 EASTING: 533834.31
LANDING POINT (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4452388.30 EASTING: 534457.80
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4456927.97 EASTING: 532740.06

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</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>COMPANY: SWN Production Company, LLC</p> <p>OPERATOR'S WELL #: ROBERT BONE BRK 205H</p> <p>API WELL #: 47 STATE 009 COUNTY 00288 PERMIT</p>
	<p>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"/></p> <p>WATERSHED: UPPER OHIO SOUTH ELEVATION: 1147.6'</p> <p>DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY, WV & EAST STEUBENVILLE, OH</p> <p>SURFACE OWNER: ROBERT O. BONE ACREAGE: ±80.99</p> <p>OIL & GAS ROYALTY OWNER: ROBERT O. BONE ACREAGE: ±80.99</p> <p>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"/></p> <p>CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,855' TVD 22,654.9'TMD</p>	<p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY</p> <p>ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201</p> <p>CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508</p>

LEGEND:	REVISIONS:	DATE: 08-27-2019
<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 		<p>DRAWN BY: CDW</p> <p>SCALE: 1" = 3000'</p> <p>DRAWING NO: 2017-219</p> <p>WELL LOCATION PLAT</p>

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	ROBERT O. BONE (S)/(R)	03-837-0081.0000
TRACT	SURFACE OWNER	TAX PARCEL
2	WILLIAM E. JOHNSTON & HAZEL E. JOHNSTON (JTWROS)	03-837-0050.0000
3	MARK A. CHRISTMAN	03-837-0045.0000
4	DONNA A. MAZZELLA	03-837-0044.0000
5	VINCENT MAZZELLA & PHILLIP MAZZELLA	03-837-0046.0000
6	VINCENT MAZZELLA & PHILLIP MAZZELLA	03-832-0128.0000
7	JOSEPH C. MORRIS & PENNY J. MORRIS	03-832-0129.0000
8	KEVIN R. COLLINS & SANDRA A. COLLINS	03-832-0130.0000
9	REBECCA L. UHLLY	03-832-0139.0000
10	DAVID L. HALL & JULIE A. HALL	03-832-0136.0000
11	CHARLES W. & TAMMY WAGNER	03-832-0193.0000
12	HAMMOND PUBLIC SERVICE DISTRICT	03-832-0194.0001
13	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
14	MARILYN ROSETTA MCCORD	03-832-0198.0000
15	SAMUEL H. HUBBARD	03-832-0096.0000
16	SCHIAPPA & COMPANY, INC	03-832-0009.0000
17	DAVID B. JONES	03-832-0008.0000
18	GERTRUDE LOUISE MCSHANE ROBIE	03-832-0029.0000
19	GERTRUDE LOUISE MCSHANE ROBIE	03-827P-0030.0000
20	DOROTHY L. FRISCO, NANCY GIST, ROSEANNA TAYLOR & PATRICIA JO WNEK	03-827K-0189.0000
21	DOROTHY L. FRISCO, NANCY GIST, ROSEANNA TAYLOR & PATRICIA JO WNEK	03-827K-0190.0000
22	DOROTHY L. FRISCO, NANCY GIST, ROSEANNA TAYLOR & PATRICIA JO WNEK	03-827K-0200.0000
23	GEORGE L. & MARIA JUNE KILLIEN	03-827K-0199.0000
24	RONALD E. & SANDRA L. WILLIAMS	03-827K-0198.0000
25	RONALD E. & SANDRA L. WILLIAMS	03-827K-0197.0000
26	RANDY M. & BRENDA WILLIAMS	03-827K-0207.0000
27	RANDY M. & BRENDA WILLIAMS	03-827K-0208.0000
28	LINDA SUE WILLIAMS	03-827P-0195.0000
29	DANIEL P. & DARLA ANN LOMBARDI	03-827K-0211.0000
30	BROOKE COUNTY BOARD OF EDUCATION	03-827K-0188.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AR	THE UNITED STATES GOVERNMENT	03-827K-0178.0000
AS	THE UNITED STATES OF AMERICA	03-827K-0164.0000
AT	MARTHA K. WILLIAMS	03-827P-0001.0000
AU	BEVERLY K. FUCHS	03-827K-0159.0000
AV	MERLE O. EARNEST	03-827P-0003.0000
AW	LENORE L. ROHRBAUGH	03-827P-0004.0000
AX	JOSEPH PAUL STEIN	03-827P-0005.0000
AY	WILLIAM KISNER	03-827R-0050.0000
AZ	EVA K. & GARY L. ELLIOTT	03-827R-0084.0000
BA	EDWARD W. & LESA M. NICHOLSON	03-827R-0082.0000
BB	GREGORY DEDITCH	03-832-0001.0000
BC	RONALD A. PETRUCCIOLI (LE-ROBERT A. & MARIE ELIZABETH)	03-832-0002.0000
BD	RONALD A. PETRUCCIOLI (LE-ROBERT A. & MARIE ELIZABETH)	03-832-0003.0000
BE	GLENN A. & SUSAN L. STEWART	03-832-0004.0000
BF	WILLIAM R. WALNOHA	03-832-0005.0000
BG	WILLIAM R. WALNOHA; CAROLYN S.; JESSICA	03-832-0007.0000
BH	EDWARD CHESTER & BEATRICE LISH	03-832-0073.0000
BI	JEANNE L. LUNSFORD & MELANIE J. LUNSFORD	03-832-0072.0000
BJ	WILLIAM WHEAT & CARRIE HIGGS (JTWS)	03-832-0071.0000
BK	WILLIAM WHEAT & CARRIE HIGGS (JTWS)	03-832-0070.0000
BL	PATRICIA SAUVAGEOT & GLORIA PREMESA	03-832-0069.0000
BM	JAY D. & KAREN S. RECK	03-832-0068.0000
BN	JOSEPH P. JACKFERT & JEFFREY P. JACKFERT	03-832-0067.0000
BO	JAY D. & KAREN S. RECK	03-832G-0067.0001
BP	HERBERT MCGOWEN	03-832G-0067.0000
BQ	VEMURI HOME & GARDEN LLC	03-832G-0001.0000
BR	KAY A. ELLIOT	03-832G-0003.0000
BS	KAY A. ELLIOT	03-832G-0004.0000
BT	ALBERT W. PLOTTS & DEBORAH A. REID	03-832G-0005.0000
BU	LARRY M. & DEBORAH R. REID	03-832G-0006.0000
BV	ROBERT F. & ANNA OHLER	03-832G-0007.0000
BW	JOHN H. FOX	03-832G-0008.0000
BX	JAMES E. & ANNETTE M. BEST (JTWS)	03-832G-0009.0000
BY	MARY ANN HARTLEY	03-832G-0010.0000
BZ	WILMA SUE YANO	03-832G-0011.0000
CA	WILMA SUE YANO	03-832-0088.0000
CB	PAUL W. & SUSAN A. FODOR	03-832-0089.0000
CC	MICHAEL SEREVIČIČ & DELLA (JTWS)	03-832-0090.0000
CD	JAMES E. & ANNETTE M. BEST	03-832-0201.0000
CE	ALBERT & LOTTIE STEWART	03-0832H-0050.0000
CF	SAMUEL HERVEY HUBBARD	03-832-0097.0000
CG	MARK & GEORGIA FEDAK	03-832-0099.0000
CH	MARK & GEORGIA FEDAK	03-832-0100.0000
CI	MARK & GEORGIA FEDAK	03-832-0101.0000
CJ	HARRY & JUDITH ICKES	03-832-0133.0000
CK	PATRICIA WILLIAMS	03-832-0134.0000
CL	GARY L. GAMBILL	03-832-0197.0000
CM	SAMANTHA ARACICH BELLE BUDE	03-832-0196.0000
CN	SAMANTHA ARACICH BELLE BUDE	03-832-0195.0000
CO	HAMMOND PUBLIC SERVICE DISTRICT	03-832-0135.0000
CP	DAVID L. HALL & JULIE A. HALL	03-832-0137.0001
CQ	DAVID L. HALL & JULIE A. HALL	03-832-0137.0000
CR	DAVID L. HALL & JULIE A. HALL	03-832-0138.0000
CS	KEVIN R. COLLINS & SANDRA A. COLLINS	03-832-0130.0001
CT	BERNARD L. JR. & DONNA J. MILLER	03-832-0132.0000
CU	BERNARD L. MILLER JR.	03-832-0131.0000
CV	VEMURI HOME & GARDEN LLC	03-832-0112.0000
CW	H3 LLC	03-832-0113.0000
CX	H3 LLC	03-832-0114.0000
CY	VEMURI HOME & GARDEN LLC	03-832-0115.0000
CZ	ROWDI T. GEORGETTI	03-832-0116.0000
DA	MAZZELLA WELDING & FABRICATION INC.	03-837-0046.0001
DB	DWARKA NATH VEMURI D/B/A AMERICAN HEART ASSOCIATES	03-837-0047.0000
DC	HAMMOND PUBLIC SERVICE DISTRICT	03-837-0045.0001
DD	SHELBY L. CARRELL, BONNIE LEE LUKACENA, EDWARD O' DYER, PAIGE ELIZABETH ROLLINS, JULIE SHEY SCHUETZNER, SHANON SCHUETZNER, SHAYNE SCHUETZNER, CHERI A. SHARPE	03-837-0046.0000
DE	WILLIAM E. & HAZEL E. JOHNSTON	03-837-0053.0001
DF	BUFFALO CREEK CAMP	03-837-0051.0000
DG	MARLIN G. SR. & JOY CRAWFORD	03-837-0055.0000
DH	JOHN E. & SHERRILL J. RIPLEY	03-837-0062.0000
DI	JOSEPH K. SR. & GLORIA BOWMAN	03-837-0070.0000
DJ	JOSEPH K. SR. & GLORIA BOWMAN	03-837-0069.0001
DK	CAROL SILVER, ETAL	03-837-0071.0000
DL	WILLIAM E. JOHNSTON & HAZEL E. BERTY	03-837-0074.0001
DM	LINDA S. WILLIAMS	03-827K-0196.0000
DN	LINDA S. WILLIAMS	03-827K-0194.0000
DO	SADIE PARKS	03-827K-0193.0000
DP	RONALD E. & SANDRA L. WILLIAMS	03-827K-0192.0000
DQ	STANLEY & NILA PATKOWSKI	03-827K-0192.0001
DR	STANLEY & NILA PATKOWSKI	03-827K-0191.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	BENJAMIN M. MOSA & CHRISTINE L. HEISE (SURV.)	03-837-0074.0000
B	BENJAMIN M. MOSA AND CHRISTINE L. HEISE	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	JAMIE L. OHLER	03-837-0043.0000
K	KEVIN D. KOSUT & BRIDGET KOSUT	03-837-0042.0000
L	CITY OF WELLSBURG COMBINED WATER & SEWAGE	03-832-0140.0002
M	JOSEPH P. LIZON III & ERIN REBECCA NIXON	03-832-0192.0000
N	JOSEPH P. LIZON III & ERIN REBECCA NIXON	03-832-0192.0001
O	DONALD C. BURKHART	03-832-0191.0000
P	DAVID MCGOWAN	03-832-0190.0000
Q	ROBERT G. TREDWAY	03-832-0188.0000
R	LILLIAN MCCORD	03-832-0185.0000
S	MASLO FARMS	03-832-0019.0000
T	JOSEPH VIDERMAN, ETAL	03-832-0013.0000
U	PENNY HAMILTON	03-832-0011.0000
V	SCHIAPPA & COMPANY INC.	03-832-0010.0000
W	GERTRUDE LOUISE MCSHANE ROBIE	03-832-0030.0000
X	TONY J. CASTILLO & RICHARD R. OSTRANDER	03-832-0027.0000
Y	TONY J. CASTILLO & RICHARD R. OSTRANDER	03-832-0028.0000
Z	LINDA COEN	03-832-0025.0000
AA	NORMA JEAN LILLY	03-827-0017.0000
AB	RANDY M. & BRENDA WILLIAMS	03-827K-0202.0000
AC	RYAN MATTHEW WILLIAMS	03-827K-0203.0000
AD	RYAN MATTHEW WILLIAMS	03-827K-0204.0000
AE	ROBERT C. CRISS III & RONICA L. CRISS	03-827K-0205.0000
AF	ROBERT C. CRISS III & RONICA L. CRISS	03-827K-0206.0000
AG	FRANCIS FORSYTHE	03-827K-0210.0000
AH	THOMAS WAYNE JERRELL JR.	03-827K-0209.0000
AI	HFS LIMITED LIABILITY COMPANY	03-827-0012.0000
AJ	WEST VIRGINIA DEPARTMENT OF HIGHWAYS	03-827-0004.0000
AK	DANIEL P. & DARLA ANN LOMBARDI	03-827-0016.0000
AL	DANIEL P. & DARLA ANN LOMBARDI	03-827-0015.0000
AM	DIANE MENDEL	03-827-0013.0000
AN	JOANN KRZYWDIK	03-827K-0214.0000
AO	DIANA W. MENDEL	03-827K-0213.0000
AP	JOSEPH K. & DIANA R. MENDEL	03-827K-0186.0000
AQ	BROOKE CITY BOARD OF EDUCATION	03-827K-0212.0000

REVISIONS:	COMPANY:	 	
	OPERATOR'S	ROBERT BONE	
	WELL #:	47-001-00288	BRK 205H
	DISTRICT:	BUFFALO	COUNTY: BROOKE
			STATE: WV
			DATE: 08-27-2019
			DRAWN BY: CDW
			SCALE: N/A
			DRAWING NO: 2017-219
			WELL LOCATION PLAT