

JHA SURVEYORS
ENGINEERS
ENVIRONMENTAL
GIS MAPPING

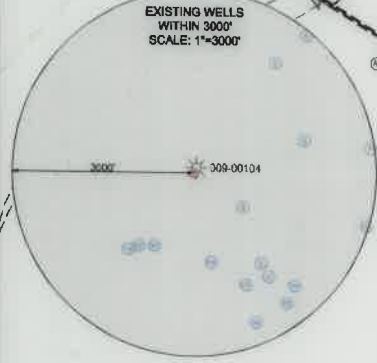
www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-895-6100

(2,000' SCALE) LATITUDE: 40°17'30" BOTTOM HOLE
(2,000' SCALE) LATITUDE: 40°15'00" SURFACE HOLE

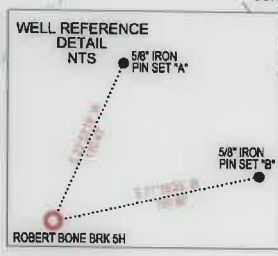
10588'
5310'

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: 4452138.51 EASTING: 533837.98
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4452413.84 EASTING: 534174.32
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4457086.85 EASTING: 532214.64
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4452138.47 EASTING: 533838.08
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4452263.71 EASTING: 534224.03
TURNING POINT LOCATION (TPL1)
UTM (NAD83, ZONE 17, METERS): NORTHING: 4453839.00 EASTING: 533662.28
TURNING POINT LOCATION (TPL2)
UTM (NAD83, ZONE 17, METERS): NORTHING: 4454527.84 EASTING: 533295.41
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4457085.25 EASTING: 532210.13



LINE	BEARING	DISTANCE
L1	S 54°59'07" W	843.16'
L2	N 77°34'33" W	2072.21'



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.E. 19809

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	ROBERT BONE
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SOURCE OF SURVEY GRADE GPS ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #: ROBERT BONE BRK 5H
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	COUNTY: BROOKE	ELEVATION: 1147.5'
DISTRICT: BUFFALO	SURFACE OWNER: ROBERT BONE	OIL & GAS ROYALTY OWNER: ROBERT BONE	QUADRANGLE: BETHANY, WV & STEUBENVILLE EAST, OH
DRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input 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 checked="" type="checkbox"/> (SPECIFY) AS-DRILLED	TARGET FORMATION: MARCELLUS	ACREAGE: ±81.99 ACREAGE: ±81.99
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	DESIGNATED AGENT: BRITTANY WOODY	DATE: 02-16-2022	ESTIMATED DEPTH: 5,866' TVD 23,660' TMD
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201	ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201	DRAWN BY: R. GRIMES	09/09/2022
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	SCALE: 1" = 3000'	
LEGEND:	EXISTING WATER WELL	REVISIONS:	DATE: 02-16-2022
○ EXISTING BOTTOM HOLE	○ EXISTING SPRING		
★ EXISTING / PRODUCING WELL-HEAD	— SURVEYED BOUNDARY		
LPL★ EXISTING LANDING POINT LOCATION	----- LEASE BOUNDARY		
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	----- AS-DRILLED PATH		
LPL★ PROPOSED LANDING POINT LOCATION	----- PROPOSED PATH		
			WELL LOCATION PLAT

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	ROBERT O. BONE (S/R)	03-837-081.0
TRACT SURFACE OWNER TAX PARCEL		
2	WILLIAM E. & HAZEL E. JOHNSTON	03-837-050.0
3	MARK A. CHRISTMAN	03-837-045.0
4	JAMIE L. OHLER	03-837-043.0
5	KEVIN R. & SANDRA A. COLLINS	03-832-130.0
6	REBECCA L. UHLLY	03-832-139.0
7	JOSEPH P. LIZON III & ERIN RECECCA NIXON	03-832-192.0
8	JOSEPH P. LIZON III & ERIN RECECCA NIXON	03-832-192.1
9	BENITA HOITT, JAMES R. JOHNSON JR., LURA M. JOHNSON(F.K.A. LURA M. HOITT), JEANETTA WELLMAN, KENT WELLMAN, RANDY WELLMAN, & CHARLES LANE KILDOW	03-832-194.0
10	JAMES J. ALLEY	03-832-191.0
11	DAVID MCGOWAN	03-832-190.0
12	ROBERT G. TREADWAY	03-832-188.0
13	SCHIAPPA & COMPANY, INC	03-832-009.0
14	SCHIAPPA & COMPANY, INC	03-832-010.0
15	ROBIE & GERTRUDE LOUISE MCSHANE	03-832-029.0
16	NORMA JEAN LILLY	03-827-017.0
17	LINDA COEN	03-832-025.0
18	HFS LIMITED LIABILITY COMPANY	03-827-012.0
19	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	03-827-004.0
20	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	STATE ROUTE 2
21	HFS LIMITED LIABILITY COMPANY	03-827-012.0
22	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	03-827-011.0
23	CAMPBELL TRANSPORTATION COMPANY	03-827-010.0
24	STATE OF WEST VIRGINIA	OHIO RIVER

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	BENJAMION M. MOSA & CHRISTINE L. HEISE (SURVIVOR)	03-837-074.0
B	BENJAMION M. MOSA & CHRISTINE L. HEISE (SURVIVOR)	03-837-079.0
C	TERRENCE & SUSAN BONE	03-837-080.0
D	BRIAN K. & GINA M. HANEY (SURVIVOR)	03-837-077.0
E	VEMURI HOME AND GARDENS LLC	03-837-082.0
F	DEBRA CYPHERT, MATTHEW H. FAIR, SUSAN S. FAIR, RICHARD HENTORN	03-837-088.0
G	DEBRA CYPHERT, MATTHEW H. FAIR, SUSAN S. FAIR, RICHARD HENTORN	03-837-091.0
H	SCHIAPPA AND COMPANY INC.	03-837-023.0
J	SCHIAPPA AND COMPANY INC.	03-837-022.0
J	KEVIN D. & BRIDGET KOSUT (SURVIVOR)	03-837-042.0
K	CITY OF WELLSBURG COMBINED WATER AND SEWAGE	03-837-140.2
L	CITY OF WELLSBURG COMBINED WATER AND SEWAGE	03-832-192.2
M	EDWARD & SUSAN ZATTA	03-832-140.0
N	ROBERT G. TREDWAY JR	03-832-189.0
O	KAREN L. REINACHER	03-832-187.0
P	CHARLES MICHAEL & BARBARA JEAN TREDWAY	03-832-186.0
Q	JOYCE BRADY, BRIAN JOHNSTON, DANIEL JOHNSTON, KENNETH JOHNSTON, RALPH JOHNSTON, ROBERT JOHNSTON	03-832-189.0
R	MASLO FARMS LLC, A PENNSYLVANIA LLC	03-832-019.0
S	JOSEPH, DAVID, LAWRENCE, & GEORGE VIDERMAN, ETAL	03-832-013.0
T	HAMILTON PENNY	03-832-011.0
U	TONY J. CASTILLO & RICHARD R. OSTRANDER	03-832-027.0
V	TONY J. CASTILLO & RICHARD R. OSTRANDER	03-832-028.0
W	JAMES SCOTT GEAR	03-832-026.0
X	WILLIAM & CAROLYN WALNOHA (SURVIVOR)	03-832-014.0
Y	JOHN PORTER & BRIGETTE ROGERS (SURVIVOR)	03-832-015.0
Z	DOROTHY L. STEVENS	03-832-016.0
AA	RUTH BERNADINE HART	03-832-022.1
AB	WILLIAM RUSSELL WALNOHA, RUTH HART, & GEORGE WALNOHA	03-832-022.0
AC	WILLIAM RUSSELL WALNOHA	03-832-022.2
AD	HFS LIMITED LIABILITY COMPANY	03-832-023.0
AE	HFS LIMITED LIABILITY COMPANY	03-832-024.0
AF	COSS ROAD FARM LLC	03-831-114.0
AG	HFS LIMITED LIABILITY COMPANY	03-831-001.0
AH	CAMPBELL TRANSPORTATION COMPANY INC	03-827-003.0
AI	SMITH REAL ESTATE, LLC	03-827-007.0
AJ	CAMPBELL TRANSPORTATION COMPANY INC	03-827-008.0
AK	GREG PROVENZANO	03-827-009.0
AL	SMITH REAL ESTATE, LLC	03-827-006.0
AM	SMITH REAL ESTATE, LLC	03-827-005.0
AN	BROOKE COUNTY BOARD OF EDUCATION	03-827K-212.0
AO	ABANDON RAILWAY, SOUTH OF BUFFALO CREEK	03-827K-188.0
AP	JOSEPH K. & DIANA R. MENDEL (SURVIVOR)	03-827K-186.0

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AQ	DIANE MENDEL	03-827-013.0
AR	DANIEL P. & DARLA ANN LOMBARDI (SURVIVOR)	03-827-016.0
AS	DANIEL P. LOMBARDI	03-827K-211.0
AT	FRANCIS FORSYTHE, ALLEN LEE FORSYTHE, PAUL DAVID FORSYTHE	03-827K-210.0
AU	ROBERT C. III & RONICA L. CRISS (SURVIVOR)	03-827K-206.0
AV	ROBERT C. III & RONICA L. CRISS (SURVIVOR)	03-827K-205.0
AW	RANDY M. & BRENDA WILLIAMS	03-827K-204.0
AX	RANDY M. & BRENDA WILLIAMS	03-827K-203.0
AY	RANY M. & BRENDA WILLIAMS (SURVIVOR)	03-827K-202.0
AZ	JOHN J. SR, FRISCO, & JOSEPHINE (WANYSZN	03-827K-189.0
BA	ROBIE & GERTRUDE LOUISE MCSHANE	03-827P-030.0
BB	WILLIAM R., CAROLYN S., & JESSICA WALNOHA (SURVIVOR)	03-832-007.0
BC	DAVID B. JONES	03-832-008.0
BD	JEANNE L. & MELANIE JEANNE LUNSFORD	03-832-072.0
BE	WILLIAM WHEAT & CARRIE HIGGS	03-832-071.0
BF	WILLIAM WHEAT & CARRIE HIGGS	03-832-070.0
BG	PATRICIA PREMESA GLORIA SAUVAGEOT	03-832-069.0
BH	JAY D. & KARN SUE RECK	03-832-068.0
BI	JAY D. & KARN SUE RECK	03-832-067.0
BJ	JAY D. & KARN SUE RECK	03-832G-067.1
BK	HERBERT MCGOWAN	03-832G-067.0
BL	VEMURI HOME & GARDEN LLC	03-832G-001.0
BM	DIXIE LEE OHLER	03-832G-002.0
BN	KAY ELLIOTT	03-832G-003.0
BO	KAY ELLIOTT	03-832G-004.0
BP	LARRY M. & DEBORAH R. REED	03-832G-005.0
BQ	LARRY M. & DEBORAH R REED (SURVIVOR)	03-832G-006.0
BR	ROBERT F. & ANNA OHLER	03-832G-007.0
BS	JOHN H. FOX	03-832G-008.0
BT	JAMES E. & ANNETTE M. BEST	03-832G-009.0
BU	JAMES E. & ANNETTE M. BEST	03-832G-010.0
BV	MATTHEW PATRICK TOMSHACK	03-832G-011.0
BW	MATTHEW PATRICK TOMSHACK	03-832-088.0
BX	SUSAN A. FODOR	03-832-089.0
BY	MICHAEL & DELLA SEREVICZ	03-832-090.0
BZ	SAMUEL HERVEY HUBBARD	03-832-096.0
CA	PATRICIA WILLIAMS	03-832-134.0
CB	PATRICIA WILLIAMS	03-832-198.0
CC	STEVEN & HEIDI SARACCO	03-832-197.0
CD	WESLEY M. RINE	03-832-196.0
CE	WESLEY M. RINE	03-832-195.0
CF	CHARLES W. & TAMMY S. WAGNER (SURVIVOR)	03-832-193.0
CG	DAVID L. & JULIE A. HALL	03-832-136.0
CH	DAVID L. & JULIE A. HALL	03-832-137.0
CI	DAVID L. & JULIE A. HALL	03-832-138.0
CJ	KEVIN R. & SANDRA A. COLLINS	03-832-130.1
CK	DAVID L. & JULIE A. HALL	03-832-137.1
CL	HAMMOND PUBLIC SERVICE DISTRICT	03-832-135.0
CM	BERNARD L. JR & DONNA J. MILLER	03-832-132.0
CN	BENARD L. MILLER JR	03-832-131.0
CO	JOSEPH C. & PENNY J. MORRIS	03-832-129.0
CP	VINCENT & PHILLIP MAZZELLA	03-832-128.0
CQ	VINCENT & PHILLIP MAZZELLA	03-837-046.0
CR	DONNA A. MAZZELLA	03-837-047.0
CS	SHELBY L. CARRELL, BONNIE LEE LUKACENA, EDWARD O'DYER, PAIGE ELIZABETH ROLLINS, JULIE SHEY SCHUETZNER, SHANON SCHUETZNER, SHAYNE SCHUETZNER, CHERI A. SHARPE	03-837-048.0
CT	DWARKA NATH VEMURI DBA AMERICAN HEART ASSOCIATES	03-837-047.0
CU	WILLIAM E. & HAZEL M. JOHNSTON JTWROS	03-837-053.1
CV	BUFFALO CREEK CAMP	03-837-51.0
CW	MARLIN G. SR & JOY CRAWFORD (SURVIVOR)	03-837-055.0
CX	JOHN E. & SHERRIL J. RIPLEY	03-837-062.0
CY	JOSEPH K. & GLORIA JEAN BOWMAN	03-837-070.0
CZ	JOSEPH K. & GLORIA JEAN BOWMAN	03-837-067.1
DA	WILLIAM E. & HAZEL E. JOHNSTON JTWROS, CAROLE & WOODROW W. SILVER JR (L/E), PAULA K, SILVER (L/E)	03-837-047.0
DB	WILLIAM E. & HAZEL E. BERTY JOHNSTON JTWROS	03-837-074.1
DC	JAMES L. & SONDR A. ELLIOT	03-837-071.0
DD	ROBIE & GERTRUDE LOUISE MCSHANE	03-832-030.0
DE	HAMMOND PUBLIC SERVICE DISTRICT	03-832-194.1
DF	HAMMOND PUBLIC SERVICE DISTRICT	03-837-045.1

REVISIONS:

COMPANY:

SWN
Production Company, LLC

swr
Production Company™

09/09/2022

OPERATOR'S

ROBERT BONE

DATE: 02-16-2022

WELL #:

BRK 5H

DRAWN BY: R. GRIMES

DISTRICT:

BUFFALO

COUNTY:

BROOKE

STATE:

WV

SCALE: N/A

DRAWING NO: 2017-219

WELL LOCATION PLAT