

(2,000' SCALE) LATITUDE: 40°12'30" SURFACE HOLE

6584'

(2,000' SCALE) LATITUDE: 40°10'00" BOTTOM HOLE

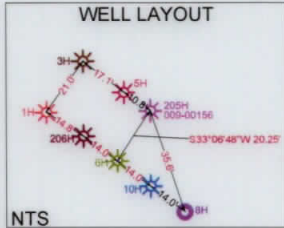
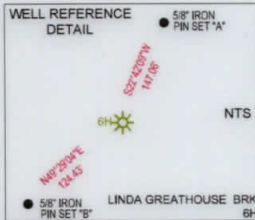
1780'

(2,000' SCALE) LONGITUDE: -80°35'00" BOTTOM HOLE
(2,000' SCALE) LONGITUDE: -80°35'00" SURFACE HOLE



www.jhacompanies.com

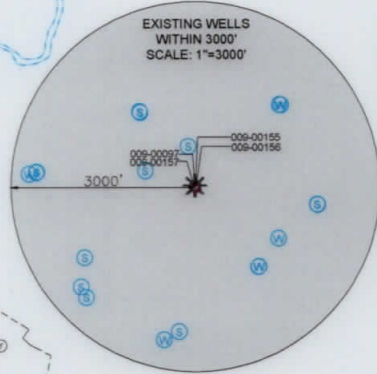
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100



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.

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

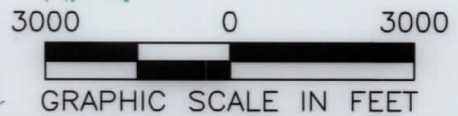


LINE	BEARING	DISTANCE
L1	S71°55'50"E	3939.00'
L2	S81°29'12"E	3741.60'

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4450482.00 EASTING: 533450.83
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4450369.46 EASTING: 533275.29
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4446133.13 EASTING: 534924.61
SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4450482.00 EASTING: 533450.83
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4450324.40 EASTING: 533299.45
TURNING POINT LOCATION (TPL1): UTM (NAD83, ZONE 17, METERS): NORTHING: 4446905.32 EASTING: 534808.71
TURNING POINT LOCATION (TPL2): UTM (NAD83, ZONE 17, METERS): NORTHING: 4446581.05 EASTING: 534859.57
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4446134.72 EASTING: 534930.13

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



SWN Production Company, LLC **SWN** Production Company™

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

LINDA GREATHOUSE BRK
OPERATOR'S WELL #: 6H
API WELL #: 47 009 00277
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,139.4'

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY, WV

SURFACE OWNER: LINDA REEVES GREATHOUSE & VICKI LYNN HAMILTON ACREAGE: ±322.84

OIL & GAS ROYALTY OWNER: LINDA REEVES GREATHOUSE & VICKI LYNN HAMILTON ACREAGE: ±322.84

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) AS-DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,029' TVD 21,069' TMD


WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY 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:
● EXISTING BOTTOM HOLE		02-18-2020
⊙ EXISTING / PRODUCING WELLHEAD		
LPL ⊙ EXISTING LANDING POINT LOCATION		
● PROPOSED SURFACE HOLE / BOTTOM HOLE		
LPL ⊙ PROPOSED LANDING POINT LOCATION		
— ACCESS ROAD		
--- PUBLIC ROAD		
— FLOOD PLAN		
— LEASE BOUNDARY		
— AS-DRILLED PATH		
— PROPOSED PATH		

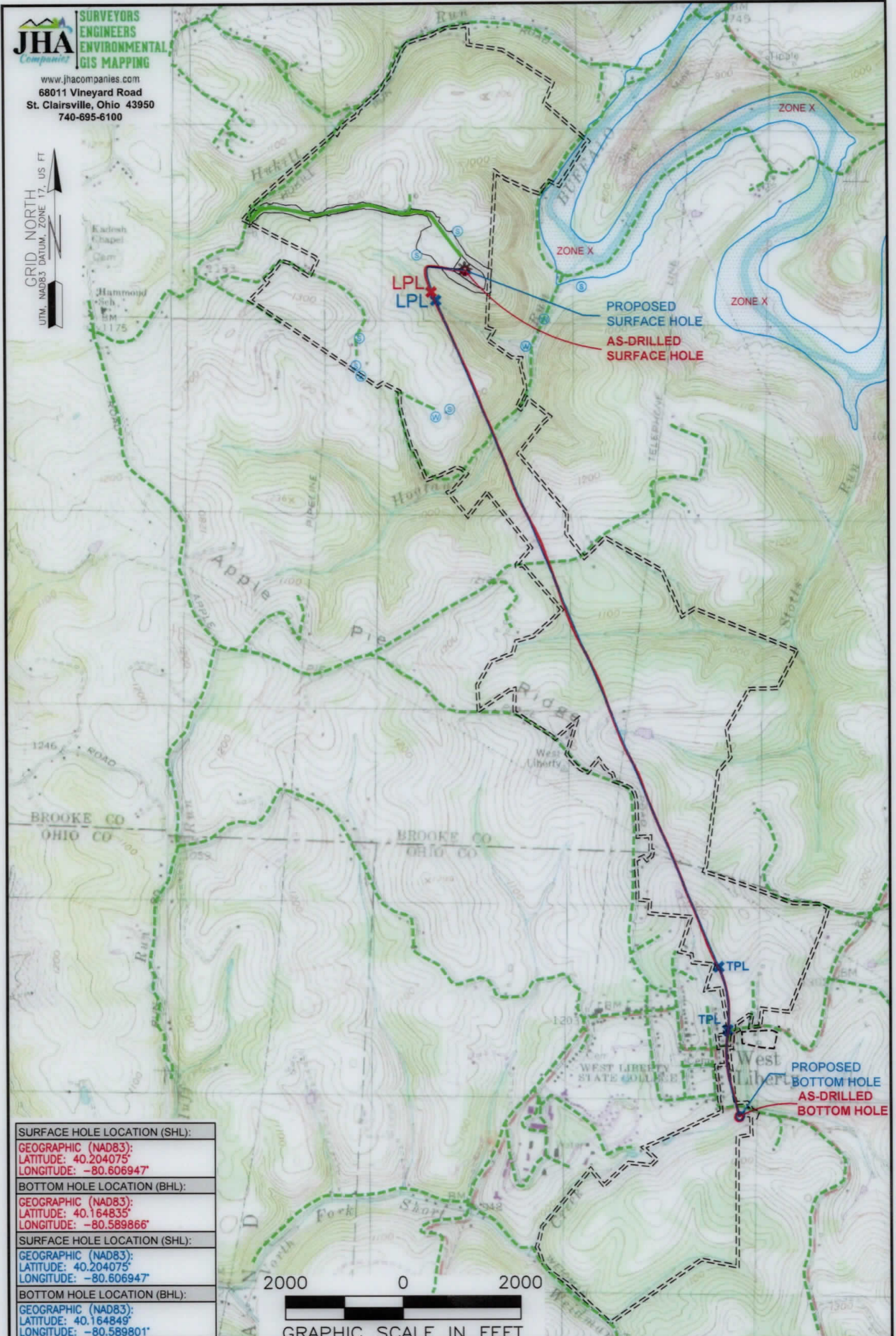
WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	LINDA REEVES GREATHOUSE & VICKI LYNN HAMILTON (S/R)	03-B37-0087.0000
TRACT	SURFACE OWNER	TAX PARCEL
2	ROCCO BASIL	03-B42-0019.0000
3	PHYLLIS P. MARKER	03-B42-0052.0000
4	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0053.0000
5	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0055.0000
6	RALPH O. & GINA L. SMITH	03-B42-0066.0000
7	RALPH & GINA SMITH	03-B42-0065.0000
8	MICHAEL DAVID & BETH ANN FINK	03-B42-0038.0000
9	OLIVE L. TURNER	03-B42-0037.0000
10	GREGORY K. & PATRICIA M. TURNER	03-B42-0036.0000
11	NOEL R. & JOYCE L. SCHWERTFEGER	03-B42-0040.0000
12	CAROL G. DWYER	03-B47-0030.0000
13	TERRY D. HARWATT	03-B47-0031.0000
14	TERRY D. HARWATT	03-B47-0032.0004
15	JOHN E. HARWATT, TERRY D. HARWATT & SUZANNE NEIL	03-B47-0032.0000
16	BONNIE J. CARR, DEAN S. CARR, RACHEL L. CARR & JOSHUA A. CARR	09-WL1-0002.0000
17	DANIEL J. & COURTNEY D. VARGO	09-WL1-0003.0000
18	MISTI D. PASSARELLO	03-L1-0013.0000
19	SARAH ESTHER BOND	03-L1-0014.0000
20	KIMBERLY GEARY	09-WL4-0008.0000
21	WEST LIBERTY VOLUNTEER FIRE DEPARTMENT, INC	09-WL4-0001.0000
22	WEST LIBERTY VOLUNTEER FIRE DEPARTMENT, TRUSTEES	09-WL3-0099.0000
23	ROBERT C., JR. & M.I. MOZINGO	09-WL3-0126.0000
24	JAMES L. BECK	09-WL7-0014.0000
25	JAMES L. BECK	09-WL7-0013.0000
26	LEE EDWARD DAVIS	09-WL7-0012.0000
27	RANDY W. GRAHAM & SCOTTIE W. GRAHAM, JR.	09-WL7-0015.0000
28	SCOTTIE W. & CONNIE M. GRAHAM	09-WL7-0016.0000
29	SCOTTIE W. & CONNIE M. GRAHAM	09-WL7-0016.0001
30	THE BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	03-L1-0035.0000
31	MARK W. & DAWN L. WILSON	03-L1-0039.0011
32	DAVID LEE BECK	03-L1-0039.0007

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	DEBRA F. CYPHERT, MATTHEW H. FAIR & ET AL.	03-B37-0091.0000
B	ROBERT BONE	03-B37-0090.0000
C	ROBERT BONE	03-B37-0089.0000
D	ROBERT BONE	03-B37-0090.0001
E	DEBRA F. CYPHERT, MATTHEW H. FAIR & ET AL.	03-B37-0088.0000
F	CARL R. & SANDRA S. CLARK	03-B37-0086.0000
G	BRIAN K. & GINA M. HANEY	03-B37-0077.0000
H	LPS INVESTMENT PARTNERSHIP	03-B37-0066.0000
I	EDGAR S. & CECILIA M. ERDMAN	03-B42-0049.0000
J	ELLEN B. SANFORD	03-B37-0076.0000
K	JAMES & JOELLEN HAZLETT	03-B42-0060.0002
L	AUSTIN WAYNE & JUSTINE ADAH WADE	03-B42-0060.0001
M	AUSTIN WAYNE & JUSTINE ADAH WADE	03-B42-0050.0000
N	MARY SPEECE, DOROTHY SPEECE, THURMAN SPEECE & TRUMAN SPEECE, JR.	03-B42-0058.0000
O	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0051.0000
P	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0056.0000
Q	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0057.0000
R	JEFFREY S. & DAWNA J. WARD	03-B42-0059.0004
S	RALPH O. & GINA L. SMITH	03-B42-0070.0000
T	RALPH O. & GINA L. SMITH	03-B42-0069.0000
U	RALPH O. & GINA L. SMITH	03-B42-0068.0000
V	RALPH O. & GINA L. SMITH	03-B42-0067.0000
W	RICHARD KIMBALL	03-B42-0041.0000
X	THURMAN D. SPEECE, JR. & GOLDIE STANLEY	03-B42-0042.0000
Y	THOMAS STEWART	03-B48-0002.0000
Z	JOHN E. HARWATT, TERRY D. HARWATT & SHIRLEY MAE NEIL	03-B47-0049.0000
AA	TERESA K. SCHAEFER	03-B47-0048.0000
AB	ARLIE R. & DORA M. MCCARDLE	03-B47-0047.0000
AC	ARLIE & DORA MCCARDLE	03-L1-0016.0000
AD	LARRY G. BALL	03-L1-0038.0003
AE	LARRY G. BALL	03-L1-0038.0000
AF	THOMAS F. MILLER & ET AL.	03-WL4-0005.0000
AG	TINGUM PROPERTIES, LLC	09-WL4-0014.0001
AH	TINGUM PROPERTIES, LLC	09-WL4-0003.0003
AI	PETER R. & CHERYL M. MILLER	09-WL4-0003.0002
AJ	LEE D. & BONNIE M. BONAR	09-WL4-0003.0000
AK	LEE D. & BONNIE M. BONAR	09-WL4-0003.0001
AL	KENNETH W. & JANET M. MAHY	09-WL4-0002.0000
AM	CHARLES R. BOND	09-WL4-0009.0000
AN	TREVOR R. BECK	09-WL4-0007.0000
AO	KIMBERLY ANN CUSTER & DONNA MARIE BAUKNECHT	03-L1-0036.0000
AP	MARK WILSON & DAWN WILSON	03-L1-0039.0005
AQ	DAVID L. BECK	03-L1-0039.0012
AR	JAMES H. & ROBIN L. BEAVER	03-L1-0039.0014
AS	MARK A. DUVALL	03-L1-0039.0001
AT	STEVEN M. MCGLUMPHY	03-L4-0110.0003
AU	JASON O. HUNTER	03-L4-0104.0001
AV	JASON O. HUNTER	03-L4-0104.0002
AW	JANET L. HONECKER & ELIZABETH HONECKER	03-L4-0103.0000
AX	TIMOTHY L. MONROE & ET AL.	09-WL10-0011.0000
AY	JOHN C. & MARY P. PERRY	09-WL10-0014.0000
AZ	FOWLCON LIMITED LIABILITY COMPANY	09-WL10-0013.0000
BA	THE BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	03-L1-0035.0004
BB	THE BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	03-L1-0035.0009
BC	THE BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	03-L1-0035.0001

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
BD	BOARD OF EDUCATION	09-WL7-0030.0001
BE	WHEELING ELECTRIC COMPANY	09-WL7-0030.0003
BF	DAVID T. READ	09-WL7-0030.0000
BG	K.L. & R.M. FOWLER	09-WL7-0031.0000
BH	KENNETH & RUTH FOWLER	09-WL7-0033.0000
BI	EDWARD BARNET & LAURIE L. BECK	09-WL7-0017.0000
BJ	CHARLES E., JR. & RUTH READ	09-WL7-0018.0000
BK	JEFF & JULIE RYAN	09-WL7-0010.0000
BL	KEVIN L. MCCAUSLAND	09-WL7-0009.0000
BM	MICHAEL E. MURRAY	09-WL3-0126.0002
BN	DON T. & JENNIFER L. WALKER	09-WL3-0126.0001
BO	DON T. & JENNIFER L. WALKER	09-WL3-0124.0001
BP	PAUL KUPROSKI	09-WL3-0124.0000
BQ	WEST LIBERTY VOLUNTEER FIRE DEPARTMENT, INC	09-WL3-0100.0000
BR	WEST LIBERTY VOLUNTEER FIRE DEPARTMENT, INC	09-WL3-0134.0000
BS	WEST LIBERTY VOLUNTEER FIRE DEPARTMENT, TRUSTEES	09-WL3-0098.0000
BT	ALAN D. HOWARD	03-WL3-0097.0001
BU	RONALD T. & KAREN S. RUPERT	09-WL3-0026.0000
BV	RONALD T. & K.S. RUPERT	09-WL3-0025.0000
BW	MICHAEL A. GRIMES	09-WL3-0024.0000
BX	RORY S. & KRISTINA K. BARNES	09-WL3-0020.0000
BY	AMANDA J. & DOUGLAS G. NAYLOR	09-WL3-0022.0000
BZ	GEORGE E. DENNIS	09-WL1-0013.0000
CA	BENJAMIN T. BORDAS	09-WL1-0012.0001
CB	BERNARD R. PETTIT	09-WL1-0007.0000
CC	BERNARD R. PETTIT	09-WL1-0009.0005
CD	JANICE J. SEYLER	09-WL1-0009.0003
CE	JANICE J. SEYLER	09-WL1-0004.0000
CF	DEREK J. & NICOLE L. ENNIS	03-L1-0004.0002
CG	CHILDRENS FARM TRUST (C/O WESBANCO BANK)	09-WL1-0014.0000
CH	DEREK J. & NICOLE L. ENNIS	03-L1-0043.0000
CI	OHIO COUNTY COMMISSION	09-WL1-0001.0000
CJ	JOHN E. & EDITH R. HARWATT	03-B47-0032.0003
CK	DEREK J. & NICOLE L. ENNIS	03-B47-0033.0001
CL	RONALD G. & DONNA M. KELLER	03-B47-0041.0000
CM	ROBERT W. & EDITH A. MILVET	03-B47-0040.0000
CN	SUSAN ROEDER, GLENN IRWIN FRANCIS, JR. & ET AL.	03-B47-0038.0000
CO	ERNEST, JR. & SUSAN ROEDER	03-B47-0037.0000
CP	BRIAN G. & DEBORA I. FEIST	03-B47-0036.0000
CQ	SUSAN IRENE ROEDER, GLENN I. FRANCIS, JR. & ET AL.	03-B47-0035.0000
CR	TERRY D. HARWATT	03-B47-0032.0002
CS	CAROL DWYER	03-B47-0025.0000
CT	JOHN WILSON, MARK WILSON, SHAIN CAROL & BETH HOOD	03-B47-0025.0003
CU	TERRY D. HARWATT	03-B47-0032.0001
CV	BETH ANN HOOD	03-B47-0025.0002
CW	RONALD J. & BETH A. HOOD	03-B47-0027.0000
CX	CAROL G. DWYER	03-B47-0029.0000
CY	WAYNE A. ABERCROMBIE, JR.	03-B47-0028.0000
CZ	SCOTT T. WILHELM	03-B47-0028.0001
DA	MIKE RYNAWEC	03-B42-0034.0000
DB	DOUGLAS L. & BELINDA TURNER	03-B42-0035.0000
DC	RALPH O. & GINA L. SMITH	03-B42-0064.0000
DD	MIKE RYNAWEC	03-B42-0033.0000
DE	JAMES L. BONAR & ET AL.	03-B42-0054.0000
DF	HENRY HEINZROTH	03-B42-0032.0000
DG	RICHARD HAROLD KENNY & LYNN JOY	03-B42-0020.0000
DH	BRUCE & DARLENE HENTHORN	03-B42-0014.0000
DI	BRUCE & DARLENE HENTHORN	03-B42-0019.0001
DJ	EDWARD E. & NANCY J. CONLEY	03-B42-0017.0000
DK	RICKEY & DEBRA CONLEY	03-B42-0018.0000
DL	EDWARD E. & NANCY J. CONLEY	03-B42-0016.0000
DM	EDWARD E. & NANCY J. CONLEY	03-B42-0015.0000
DN	DANIEL R. GORBY	03-B42-0026.0000
DO	DANIEL R. GORBY	03-B42-0003.0000
DP	ELLEN M. STANLEY & ET AL.	03-B42-0001.0000
DQ	VICTOR CHARLES SMITH	03-B37-0130.0000
DR	CHRISTOPHER SCOTT MILLER	03-B37-0094.0000
DS	KEVIN CHUMNEY	03-B37-0093.0000

REVISIONS:	COMPANY:	 	
	OPERATOR'S	LINDA GREATHOUSE BRK	
	WELL #:	6H	
	DISTRICT:	COUNTY:	STATE:
	BUFFALO	BROOKE	WV
			DATE: 02-18-2020
			DRAWN BY: R. GRIMES
			SCALE: N/A
			DRAWING NO: 2018-204
			WELL LOCATION PLAT

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



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.204075° LONGITUDE: -80.606947°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.164835° LONGITUDE: -80.589866°
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.204075° LONGITUDE: -80.606947°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.164849° LONGITUDE: -80.589801°



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:

● EXISTING BOTTOM HOLE	— ACCESS ROAD
⊛ EXISTING / PRODUCING WELLHEAD	- - - PUBLIC ROAD
LPL⊛ EXISTING LANDING POINT LOCATION	○ FLOOD PLAIN
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— LEASE BOUNDARY
LPL⊛ PROPOSED LANDING POINT LOCATION	— AS DRILLED PATH
	— PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: LINDA GREATHOUSE BRK	WELL # 6H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN WV, 26508	COUNTY - CODE BROOKE - 009	DISTRICT: BUFFALO	API # 47-009-00277
SURFACE OWNER: LINDA REEVES GREATHOUSE & VICKI LYNN HAMILTON	USGS 7 1/2 QUADRANGLE MAP NAME: BETHANY, WV		