

LATITUDE: 40°12'30" SURFACE HOLE

6637'

LATITUDE: 40°12'30" BOTTOM HOLE

3188'

LONGITUDE: -80°35'00" SURFACE HOLE

LONGITUDE: -80°35'00" BOTTOM HOLE

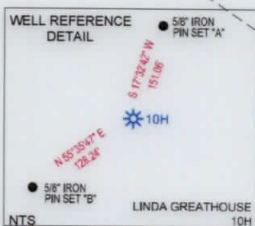
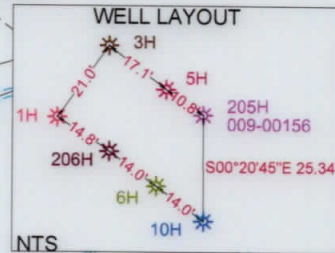


www.jhacompanies.com  
68011 Vineyard Road  
St. Clairsville, Ohio 43950  
740-695-6100

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.

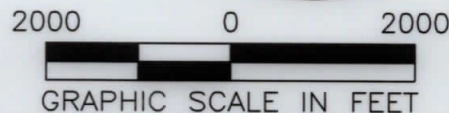


<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4450479.50 EASTING: 533454.29
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4450442.02 EASTING: 533541.02
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4448769.39 EASTING: 534513.94
<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4450479.50 EASTING: 533454.29
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4450463.11 EASTING: 533517.90
<b>TURNING POINT LOCATION (TPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4449177.61 EASTING: 534342.16
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4448769.93 EASTING: 534515.63

LINE	BEARING	DISTANCE
L1	S71°51'56"E	3952.26'
L2	S81°23'08"E	3753.94'

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



(+) 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 #: 10H  
API WELL #: 47 009 00274  
STATE COUNTY PERMIT

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW   
 WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,139.2'  
 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: 5,972' TVD 12,592' 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

<b>LEGEND:</b>	
<b>REVISIONS:</b>	DATE: 02-18-2020 API #: 47-009-00274 DRAWN BY: R. GRIMES SCALE: 1" = 2000' DRAWING NO: 2018-204 WELL LOCATION PLAT



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	JAMES & JO ELLEN HAIZLETT	03-B42-0060.0002
3	AUSTIN WAYNE & JUSTINE ADAH WADE	03-B42-0060.0001
4	AUSTIN WAYNE & JUSTINE ADAH WADE	03-B42-0050.0000
5	CNX LAND, LLC	03-B42-0051.0000
6	THURMAN SPEECE, DOROTHY SPEECE, TRUMAN SPEECE, JR. & MARY SPEECE	03-B42-0058.0000
7	JEFFREY S. WARD & DAWNA J. WARD	03-B42-0059.0004
8	RALPH O. & GINA L. SMITH	03-B42-0070.0000
9	RALPH O. & GINA L. SMITH	03-B42-0039.0000
10	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	LAZEAR WILHELM ROAD
11	RICHARD KIMBALL	03-B42-0041.0000
12	NOEL R. & JOYCE L. SCHWERTFEGER	03-B42-0040.0000

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. & CECELIA M. ERDMAN	03-B42-0049.0000
J	ELLEN B. SANFORD	03-B37-0076.0000
K	LABELLE FARMS, INC.	03-B42-0060.0000
L	WILLIAM A. & LYNETTE G. HAIZLETT	03-B42-0060.0003
M	THURMAN O. SPEECE, JR. & GOLDIE M. STANLEY	03-B42-0046.0000
N	THURMAN A. & MARY V. SPEECE	03-B42-0059.0001
O	THURMAN O. SPEECE, JR. & GOLDIE M. STANLEY	03-B42-0042.0000
P	THURMAN O. SPEECE, JR. & GOLDIE M. STANLEY	03-B42-0059.0003
Q	THURMAN O. SPEECE, JR. & GOLDIE M. STANLEY	03-B42-0059.0002
R	JOHN E. HARWATT, TERRY D. HARWATT & SHIRLEY MAE NEIL	03-B47-0032.0000
S	CAROL G. DWYER	03-B47-0030.0000
T	MIKE RYNIAWEC	03-B42-0034.0000
U	DOUGLAS L. & BELINDA TURNER	03-B42-0035.0000
V	GREGORY K. & PATRICIA M. TURNER	03-B42-0036.0000
W	LEON W. & OLIVE L. TURNER	03-B42-0037.0000
X	RALPH O. & GINA L. SMITH	03-B42-0066.0000
Y	RALPH O. & GINA L. SMITH	03-B42-0067.0000
Z	RALPH O. & GINA L. SMITH	03-B42-0068.0000
AA	RALPH O. & GINA L. SMITH	03-B42-0069.0000
AB	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0055.0000
AC	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0056.0000
AD	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0057.0000
AE	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0053.0000
AF	PHYLLIS P. MARKER	03-B42-0052.0000
AG	ROCCO BASIL	03-B42-0019.0000
AH	RICKEY & DEBRA CONLEY	03-B42-0018.0000
AI	EDWARD E. & NANCY J. CONLEY	03-B42-0016.0000
AJ	EDWARD E. & NANCY J. CONLEY	03-B42-0015.0000
AK	DANIEL R. GORBY	03-B42-0026.0000
AL	DANIEL R. GORBY	03-B42-0003.0000
AM	ELLEN M. STANLEY & ET AL	03-B42-0001.0000
AN	VICTOR CHARLES SMITH	03-B37-0130.0000
AO	CHRISTOPHER SCOTT MILLER	03-B37-0094.0000
AP	KEVIN CHUMNEY	03-B37-0093.0000

REVISIONS:	COMPANY:	 	
	OPERATOR'S	LINDA GREATHOUSE BRK	DATE: 02-18-2020
	WELL #:	10H	API #: 47-009-00274
	DISTRICT:	BUFFALO	DRAWN BY: R. GRIMES
	COUNTY:	BROOKE	SCALE: N/A
	STATE:	WV	DRAWING NO: 2018-204
			WELL LOCATION PLAT

WELL LOCATION PLAT		DRAWING NO: 2018-204		SCALE: N/A		DRAWN BY: R. GRIMES		API #: 47-009-00274		DATE: 02-18-2020	
BUFFALO		BROOKE		STATE: WV		COUNTY: BROOKE		OPERATOR'S: LINDA GREATHOUSE BRK		COMPANY: SWN Production Company, LLC	
DISTRICT:		COUNTY:		STATE:		WELL #:		OPERATOR'S:		COMPANY:	
REVISIONS:											

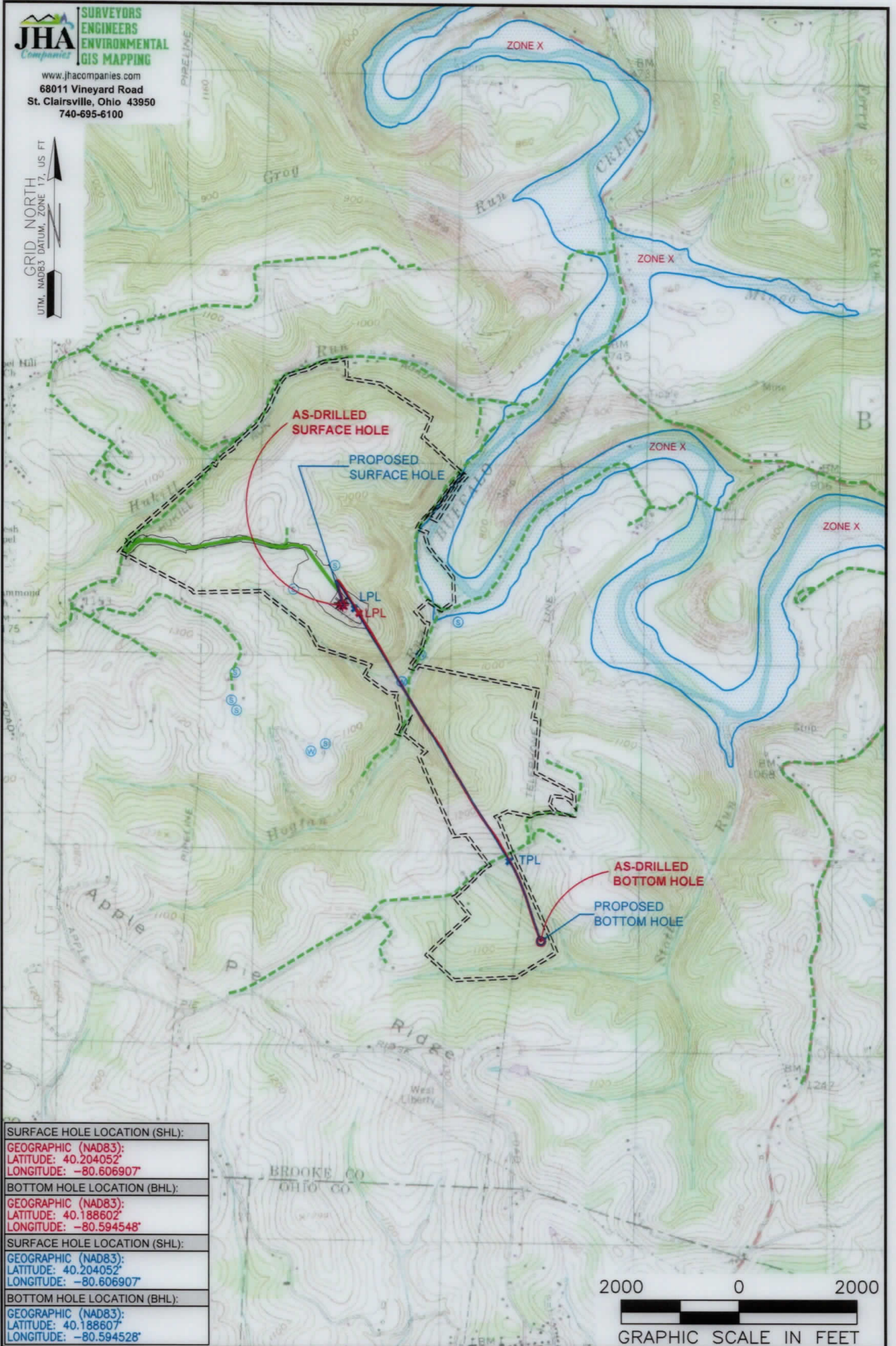
TRACT	SURFACE OWNER	TAX PARCEL
AP	KEVIN CHUMNEY	03-B37-0093.0000
AQ	CHRISTOPHER SCOTT MILLER	03-B37-0094.0000
AN	VICTOR CHARLES SMITH	03-B37-0130.0000
AM	ELLEN M. STANLEY & ET AL	03-B42-0001.0000
AL	DANIEL R. GORBY	03-B42-0003.0000
AK	DANIEL R. GORBY	03-B42-0026.0000
AJ	EDWARD E. & NANCY J. CONLEY	03-B42-0012.0000
AI	EDWARD E. & NANCY J. CONLEY	03-B42-0016.0000
AH	RICKEY & DEBRA CONLEY	03-B42-0018.0000
AG	ROCCO BASIL	03-B42-0019.0000
AF	PHYLLIS P. MARKER	03-B42-0025.0000
AE	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0023.0000
AD	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0027.0000
AC	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0026.0000
AB	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0025.0000
AA	RALPH O. & GINA L. SMITH	03-B42-0069.0000
Z	RALPH O. & GINA L. SMITH	03-B42-0068.0000
Y	RALPH O. & GINA L. SMITH	03-B42-0067.0000
X	RALPH O. & GINA L. SMITH	03-B42-0066.0000
W	LEON W. & OLIVE L. TURNER	03-B42-0037.0000
V	GREGORY K. & PATRICIA M. TURNER	03-B42-0036.0000
U	DOUGLAS L. & BELINDA TURNER	03-B42-0032.0000
T	MIKE RYNIAWEC	03-B42-0034.0000
S	CAROL G. DWYER	03-B47-0030.0000
R	JOHN E. HARWATT, TERRY D. HARWATT & SHIRLEY MAE NEIL	03-B47-0032.0000
Q	THURMAN O. SPEECE, JR. & GOLDIE M. STANLEY	03-B42-0029.0002
P	THURMAN O. SPEECE, JR. & GOLDIE M. STANLEY	03-B42-0029.0003
O	THURMAN O. SPEECE, JR. & GOLDIE M. STANLEY	03-B42-0042.0000
N	THURMAN A. & MARY V. SPEECE	03-B42-0029.0001
M	THURMAN O. SPEECE, JR. & GOLDIE M. STANLEY	03-B42-0046.0000
L	WILLIAM A. & LYNETTE G. HAZLETT	03-B42-0060.0003
K	LABELLE FARMS, INC.	03-B42-0060.0000
J	ELLEN B. SANFORD	03-B37-0076.0000
I	EDGAR S. & CECELIA M. ERDMAN	03-B42-0049.0000
H	LPS INVESTMENT PARTNERSHIP	03-B37-0066.0000
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F	CARL R. & SANDRA S. CLARK	03-B37-0086.0000
E	DEBRA F. CYPHERT, MATTHEW H. FAIR & ET AL	03-B37-0088.0000
D	ROBERT BONE	03-B37-0090.0001
C	ROBERT BONE	03-B37-0089.0000
B	ROBERT BONE	03-B37-0090.0000
A	DEBRA F. CYPHERT, MATTHEW H. FAIR & ET AL	03-B37-0091.0000

ADJOINING OWNERS TABLE

TRACT	SURFACE OWNER	TAX PARCEL
12	NOEL R. & JOYCE L. SCHWERTFEGGER	03-B42-0040.0000
11	RICHARD KIMBALL	03-B42-0041.0000
10	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	LAZEAR WILHELM ROAD
9	RALPH O. & GINA L. SMITH	03-B42-0039.0000
8	RALPH O. & GINA L. SMITH	03-B42-0070.0000
7	JEFFREY S. WARD & DAWN J. WARD	03-B42-0029.0004
6	THURMAN SPEECE, DOROTHY SPEECE, TRUMAN SPEECE, JR. & MARY SPEECE	03-B42-0028.0000
5	CNX LAND, LLC	03-B42-0021.0000
4	AUSTIN WAYNE & JUSTINE ADAH WADE	03-B42-0020.0000
3	AUSTIN WAYNE & JUSTINE ADAH WADE	03-B42-0060.0001
2	JAMES & JO ELLEN HAZLETT	03-B42-0060.0002
1	LINDA REEVES GREATHOUSE & VICKI LYNN HAMILTON (2\R)	03-B37-0087.0000

WELL BORE TABLE FOR SURFACE \ ROYALTY OWNERS

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



<b>SURFACE HOLE LOCATION (SHL):</b>
<b>GEOGRAPHIC (NAD83):</b>
<b>LATITUDE: 40.204052°</b>
<b>LONGITUDE: -80.606907°</b>
<b>BOTTOM HOLE LOCATION (BHL):</b>
<b>GEOGRAPHIC (NAD83):</b>
<b>LATITUDE: 40.188602°</b>
<b>LONGITUDE: -80.594548°</b>
<b>SURFACE HOLE LOCATION (SHL):</b>
<b>GEOGRAPHIC (NAD83):</b>
<b>LATITUDE: 40.204052°</b>
<b>LONGITUDE: -80.606907°</b>
<b>BOTTOM HOLE LOCATION (BHL):</b>
<b>GEOGRAPHIC (NAD83):</b>
<b>LATITUDE: 40.188607°</b>
<b>LONGITUDE: -80.594528°</b>



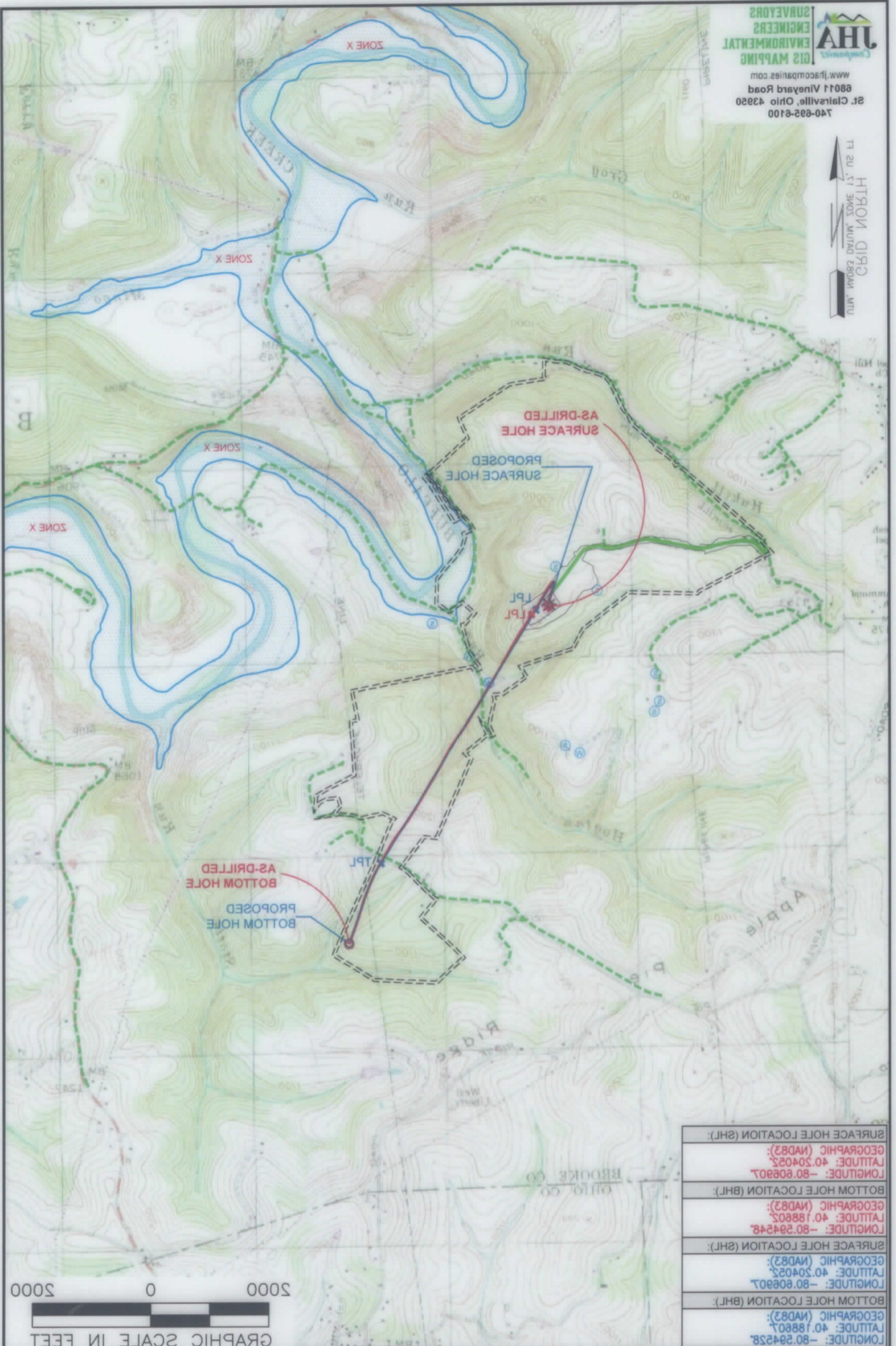
**NOTES ON SURVEY**

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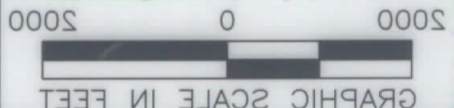
**LEGEND:**

- ⊙ EXISTING BOTTOM HOLE
- ☼ EXISTING / PRODUCING WELLHEAD
- LPL\* EXISTING LANDING POINT LOCATION
- ⊙ PROPOSED SURFACE HOLE / BOTTOM HOLE
- LPL\* PROPOSED LANDING POINT LOCATION
- ACCESS ROAD
- - - PUBLIC ROAD
- ⬭ FLOOD PLAIN
- LEASE BOUNDARY
- ASDRILLED PATH
- PROPOSED PATH

<b>WELL OPERATOR:</b> SWN PRODUCTION COMPANY, LLC	<b>WELL (FARM) NAME:</b> LINDA GREATHOUSE BRK	<b>WELL #</b> 10H	<b>SERIAL #</b> XXXX
<b>ADDRESS:</b> 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	<b>COUNTY - CODE:</b> BROOKE - 009	<b>DISTRICT:</b> BUFFALO	<b>API:</b> 47-009-00274
<b>SURFACE OWNER:</b> LINDA REEVES GREATHOUSE & VICKI LYNN HAMILTON	<b>USGS 7 1/2 QUADRANGLE MAP NAME:</b> BETHANY, WV		



SURFACE HOLE LOCATION (SHL): GEOGRAPHIC (NAD83): LATITUDE: 40.204052 LONGITUDE: -80.608907
BOTTOM HOLE LOCATION (BHL): GEOGRAPHIC (NAD83): LATITUDE: 40.188602 LONGITUDE: -80.584548
SURFACE HOLE LOCATION (SHL): GEOGRAPHIC (NAD83): LATITUDE: 40.204052 LONGITUDE: -80.608907
BOTTOM HOLE LOCATION (BHL): GEOGRAPHIC (NAD83): LATITUDE: 40.188602 LONGITUDE: -80.584528



**LEGEND:**

EXISTING BOTTOM HOLE	PROPOSED SURFACE HOLE \ BOTTOM HOLE
EXISTING \ PRODUCING WELLS	AS-DRILLED SURFACE HOLE \ BOTTOM HOLE
EXISTING LANDING POINT LOCATION	AS-DRILLED SURFACE HOLE \ BOTTOM HOLE
PROPOSED SURFACE HOLE \ BOTTOM HOLE	AS-DRILLED SURFACE HOLE \ BOTTOM HOLE
PROPOSED SURFACE HOLE \ BOTTOM HOLE	AS-DRILLED SURFACE HOLE \ BOTTOM HOLE
PROPOSED SURFACE HOLE \ BOTTOM HOLE	AS-DRILLED SURFACE HOLE \ BOTTOM HOLE

**NOTES ON SURVEY**

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<b>WELL OPERATOR:</b> SWN PRODUCTION COMPANY, LLC		<b>WELL (FARM) NAME:</b> LINDA GREATHOUSE BRK	
<b>ADDRESS:</b> 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508		<b>COUNTY - CODE</b> BROOKE - 009	
<b>SURFACE OWNER:</b> LINDA REEVE'S GREATHOUSE & VICKI LYNN HAMILTON		<b>DISTRICT:</b> BUFFALO	
<b>USGS 7 1/2 QUADRANGLE MAP NAME:</b> BETHANY, WV		<b>API:</b> 47-009-00274	
<b>WELL #</b> 10H		<b>WELL SERIAL #</b> XXXX	