

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-009-00278 County BROOKE District BUFFALO
Quad BETHANY Pad Name LINDA GREATHOUSE BRK PAD Field/Pool Name PANHANDLE FIELD WET
Farm name LINDA REEVES GREATHOUSE & VICKI LYNN HAMILTON Well Number LINDA GREATHOUSE BRK 206H
Operator (as registered with the OOG) SWN PRODUCTION COMPANY, LLC
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4450484.49 Easting 533447.37
Landing Point of Curve Northing 4450356.90 Easting 532999.24
Bottom Hole Northing 4446803.60 Easting 534506.67

Elevation (ft) 1,139.1' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
SOBM

Date permit issued 06/14/19 Date drilling commenced 09/17/19 Date drilling ceased 10/02/19
Date completion activities began 11/19/19 Date completion activities ceased 12/27/19
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 159' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 454' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 311' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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[Handwritten Signature]
5-11-20

Reviewed by: _____

API 47-009 - 00278 Farm name LINDA REEVES GREATHOUSE & VICKI LYNN HAMILTON Well number LINDA GREATHOUSE BRK 206H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24	20	126'	NEW	J-55/94#		Y
Surface	17.5	13.375	407'	NEW	J-55/54.50#	276.3	Y, 35 BBLS
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1,678'	NEW	J-55/36#		Y, 26 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	19,102'	NEW	P-110/20#		Y, 63 BBLS Spacer
Tubing		2.875	6,380'	NEW	P-110/6.50#		N
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	482	15.60	1.20	578.4	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	720	15.60	1.19	856.8	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,406	15.60	1.19	4,053.14	SURFACE	24
Tubing							

Drillers TD (ft) 19,102' Loggers TD (ft) 19,102'

Deepest formation penetrated Marcellus Shale Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5,485'

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

SURFACE: 7 CENTRALIZERS - EVERY THIRD JOINT OF CASING
INTERMEDIATE: 24 CENTRALIZERS - EVERY THIRD JOINT OF CASING
PRODUCTION: 181 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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Hydraulic Fracturing Fluid Product Component Information Disclosure

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Job Start Date:	11/19/2019
Job End Date:	12/10/2019
State:	West Virginia
County:	Brooke
API Number:	47-009-00278-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Linda Greathouse BRK 206
Latitude:	40.20409747
Longitude:	-80.60698767
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,955
Total Base Water Volume (gal):	18,435,340
Total Base Non Water Volume:	0

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Econo-CI200	SWN Well Services	Corrosion Inhibitor		Listed Below			
Sand	SWN Well Services	Proppant		Listed Below			



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Tolicide PS 50A	SWN Well Services	Biocide		Listed Below				
Ecopol-EEAC	SWN Well Services	Iron Control		Listed Below				
Base Water	Operator	Base Fluid		Listed Below				
Plexaid 655WG	SWN Well Services	Scale Inhibitor		Listed Below				
SWN FRW-11LC	SWN Well Services	Friction Reducer		Listed Below				
HCL	SWN Well Services	Solvent		Listed Below				
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.								
		Water		7732-18-5	100.00000	84.89359	Density = 8.345	
		Crystalline Silica, quartz		14808-60-7	100.00000	13.85858		
		Water		7732-18-5	85.00000	1.02620		
		Hydrochloric Acid		7647-01-0	15.00000	0.16478		
		Petroleum Distillates, Hydrotreated		64742-47-8	25.00000	0.02691		
		Tetrakis		55566-30-8	55.00000	0.01512		
		Glycerin		56-81-5	50.00000	0.00331		
		Acetic Acid		64-19-7	37.50000	0.00219		

				Ammonium Chloride	12125-02-9	2.00000	0.00215	
				Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00161	
				Oleic Acid Diethanolamide	93-83-4	1.50000	0.00161	
				Methanol	67-56-1	80.00000	0.00135	
				Citric Acid	77-92-9	22.50000	0.00132	
				Diethylenetriamine penta	15827-60-8	10.00000	0.00066	
				Acrylic acid terpolymer	397256-50-7	1.00000	0.00027	
				Oxyalkylated fatty acid	68951-67-7	9.67400	0.00016	
				Fatty acids	61790-12-3	5.02700	0.00008	
				Modified thiourea polymer	68527-49-1	4.74600	0.00008	
				Potassium acetate	127-08-2	0.02200	0.00000	
				Formaldehyde	50-00-0	0.00400	0.00000	

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

**WELL NAME
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	11/9/2019	19,019	18,925	36
2	11/19/2019	18,892	18,714	24
3	11/22/2019	18,681	18,503	24
4	11/24/2019	18,470	18,292	24
5	11/25/2019	18,259	18,082	24
6	11/26/2019	18,048	17,871	24
7	11/26/2019	17,840	17,660	24
8	11/26/2019	17,627	17,449	24
9	11/26/2019	17,416	17,238	24
10	11/26/2019	17,205	17,031	24
11	11/26/2019	16,994	16,820	24
12	11/27/2019	16,783	16,605	24
13	11/27/2019	16,567	16,394	24
14	11/28/2019	16,364	16,183	24
15	11/28/2019	16,150	15,973	24
16	11/28/2019	15,939	15,762	24
17	11/29/2019	15,728	15,551	48
18	11/29/2019	15,518	15,340	24
19	11/29/2019	15,307	15,129	24
20	11/30/2019	15,096	14,918	24
21	11/30/2019	14,885	14,707	24
22	11/30/2019	14,674	14,496	24
23	11/30/2019	14,463	14,285	24
24	11/30/2019	14,252	14,074	24
25	12/1/2019	14,041	13,864	24
26	12/1/2019	13,830	13,657	24
27	12/1/2019	13,619	13,439	24
28	12/1/2019	13,409	13,231	24
29	12/1/2019	13,198	13,020	24
30	12/2/2019	12,982	12,809	24
31	12/2/2019	12,771	12,598	24
32	12/2/2019	12,561	12,387	20
33	12/2/2019	12,354	12,176	20
34	12/2/2019	12,143	11,965	20
35	12/3/2019	11,932	11,760	20
36	12/3/2019	11,725	11,538	40
37	12/3/2019	11,508	11,333	20
38	12/3/2019	11,300	11,122	20
39	12/4/2019	11,089	10,911	20
40	12/4/2019	10,878	10,700	20
41	12/4/2019	10,667	10,489	24
42	12/4/2019	10,456	10,278	24
43	12/5/2019	10,241	10,067	24

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**WELL NAME
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PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
44	12/5/2019	10,034	9,856	40
45	12/5/2019	9,823	9,646	20
46	12/6/2019	9,612	9,436	24
47	12/6/2019	9,401	9,222	24
48	12/6/2019	9,191	9,013	24
49	12/6/2019	8,976	8,802	24
50	12/7/2019	8,769	8,591	24
51	12/7/2019	8,558	8,380	24
52	12/8/2019	8,344	8,169	24
53	12/8/2019	8,136	7,958	24
54	12/8/2019	7,925	7,747	24
55	12/8/2019	7,714	7,537	24
56	12/9/2019	7,503	7,322	24
57	12/9/2019	7,294	7,115	48
58	12/9/2019	7,082	6,906	36
59	12/10/2019	6,871	6,691	36
60	12/10/2019	6,642	6,483	42
61	12/10/2019	6,432	6,271	42

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WELL NAME
ATTACHMENT 2
STIM REPORT

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/other
1	11/19/2019	63	7,657	6,623	3,772	243,660	7,069	0
2	11/19/2019	75	8,306	4,839	4,275	425,620	8,282	0
3	11/24/2019	72	7,942	5,487	4,423	424,980	7,777	0
4	11/25/2019	67	7,383	5,083	4,413	371,640	9,987	0
5	11/25/2019	76	8,147	5,410	4,858	413,900	7,606	0
6	11/26/2019	80	8,566	5,965	4,595	410,020	7,296	0
7	11/26/2019	75	7,813	5,901	4,645	407,440	7,934	0
8	11/26/2019	73	7,940	5,568	4,343	418,750	7,451	0
9	11/26/2019	78	8,188	6,082	4,343	417,200	7,537	0
10	11/26/2019	65	7,548	5,690	4,154	414,680	7,188	0
11	11/26/2019	70	7,336	5,590	4,150	418,440	7,830	0
12	11/27/2019	80	8,544	5,482	4,456	415,220	6,943	0
13	11/27/2019	72	8,413	5,898	4,410	414,120	7,065	0
14	11/28/2019	68	8,430	6,154	4,199	416,210	6,983	0
15	11/28/2019	82	7,939	5,796	4,449	414,610	6,856	0
16	11/28/2019	79	8,551	4,782	4,213	424,980	7,121	0
17	11/29/2019	50	7,242	5,272	4,245	412,320	12,756	0
18	11/29/2019	87	8,344	4,711	4,479	412,260	6,454	0
19	11/29/2019	88	8,280	5,030	5,014	414,210	6,593	0
20	11/30/2019	86	8,214	5,015	4,685	415,580	6,743	0
21	11/30/2019	88	7,881	5,639	4,685	413,680	6,854	0
22	11/30/2019	85	7,957	5,392	4,685	422,550	7,044	0
23	11/30/2019	84	8,299	5,838	4,561	415,620	6,599	0
24	11/30/2019	89	8,319	3,925	4,746	413,320	6,646	0
25	12/1/2019	84	8,194	4,798	4,285	417,140	6,968	0
26	12/1/2019	82	7,734	5,871	4,398	413,860	6,894	0
27	12/1/2019	88	7,819	5,122	4,398	410,420	7,080	0
28	12/1/2019	94	8,194	5,014	5,099	417,210	6,431	0
29	12/1/2019	94	8,280	5,303	4,367	410,400	6,539	0
30	12/2/2019	94	8,366	5,438	4,312	415,940	6,906	0
31	12/2/2019	81	7,151	5,802	4,312	409,180	7,013	0
32	12/2/2019	80	7,922	5,742	4,120	412,440	6,761	0
33	12/2/2019	91	8,141	4,862	4,648	417,920	6,482	0
34	12/2/2019	93	8,049	5,059	4,660	416,980	6,495	0
35	12/3/2019	72	7,569	4,510	4,660	419,420	9,442	0
36	12/3/2019	61	65,449	4,884	4,660	412,080	9,213	0
37	12/3/2019	87	7,720	4,210	4,200	408,280	7,179	0
38	12/3/2019	87	8,306	5,071	35	420,520	7,814	0
39	12/4/2019	93	7,806	4,885	4,532	412,740	6,842	0
40	12/4/2019	71	7,564	5,024	4,384	423,810	8,433	0
41	12/4/2019	90	8,054	5,326	4,230	422,680	6,919	0
42	12/4/2019	91	7,509	4,985	4,709	425,980	6,341	0
43	12/5/2019	92	7,449	5,580	4,286	421,840	6,652	0
44	12/5/2019	69	7,101	5,512	4,275	419,120	9,286	0
45	12/5/2019	95	7,541	4,575	4,611	419,120	6,476	0
46	12/6/2019	93	7,529	5,410	4,230	416,580	6,586	0
47	12/6/2019	87	7,353	5,591	4,325	422,620	6,656	0
48	12/6/2019	96	7,497	4,956	4,463	410,800	6,363	0
49	12/7/2019	97	7,441	4,915	4,746	412,200	6,251	0
50	12/7/2019	94	7,064	5,345	4,175	417,760	6,911	0
51	12/7/2019	95	7,086	5,290	4,589	411,600	6,975	0
52	12/8/2019	95	7,509	5,263	4,188	414,940	6,806	0
53	12/8/2019	70	7,733	5,450	4,074	431,480	7,207	0

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STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/othe
54	12/8/2019	82	7,270	4,918	4,725	408,680	9,094	0
55	12/9/2019	95	6,923	5,099	4,619	421,000	6,383	0
56	12/9/2019	94	6,969	5,180	4,452	425,190	6,577	0
57	12/9/2019	68	6,970	5,121	4,425	325,810	8,485	0
58	12/10/2019	95	6,652	5,096	4,623	414,520	6,317	0
59	12/10/2019	92	6,516	5,304	4,456	416,500	6,617	0
60	12/10/2019	61	7,347	5,390	4,042	411,980	7,659	0
61	12/10/2019	96	6,576	4,843	4,522	434,560	6,578	0

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Well Name: Linda Greathouse BRK 206H

47009002780000

LITHOLOGY/FORMATION	TOP DEPTH, MD (FT)	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, MD (FT)	BOTTOM DEPTH, TVD (FT)	QUANTITY AND TYPE OF FLUID
Base of Fresh Water	0.00	0.00	159.00	159.00	
Top of Salt Water	454.00	454.00	NA	NA	
Pittsburgh Coal	311.00	311.00	460.00	460.00	
Pottsville (ss)	460.00	460.00	813.00	813.00	
Raven Cliff (ss)	813.00	813.00	1159.00	1159.00	
Maxton (ss)	1159.00	1159.00	1483.00	1483.00	
Big Injun (ss)	1520.00	1505.00	1920.00	1884.00	
Berea (siltstone)	1920.00	1884.00	5552.00	5303.00	
Rhinestreet (shale)	5552.00	5303.00	5810.00	5541.00	
Cashqua (shale)	5810.00	5541.00	5867.00	5590.00	
Middlesex (shale)	5867.00	5590.00	5944.00	5653.00	
Burket (shale)	5944.00	5653.00	5963.00	5668.00	
Tully (ls)	5963.00	5668.00	6049.00	5729.00	
Mahantango (shale)	6049.00	5729.00	6213.00	5816.00	
Marcellus (shale)	6213.00	5816.00	NA	NA	GAS

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

6664'

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

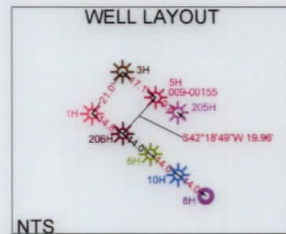
3246'



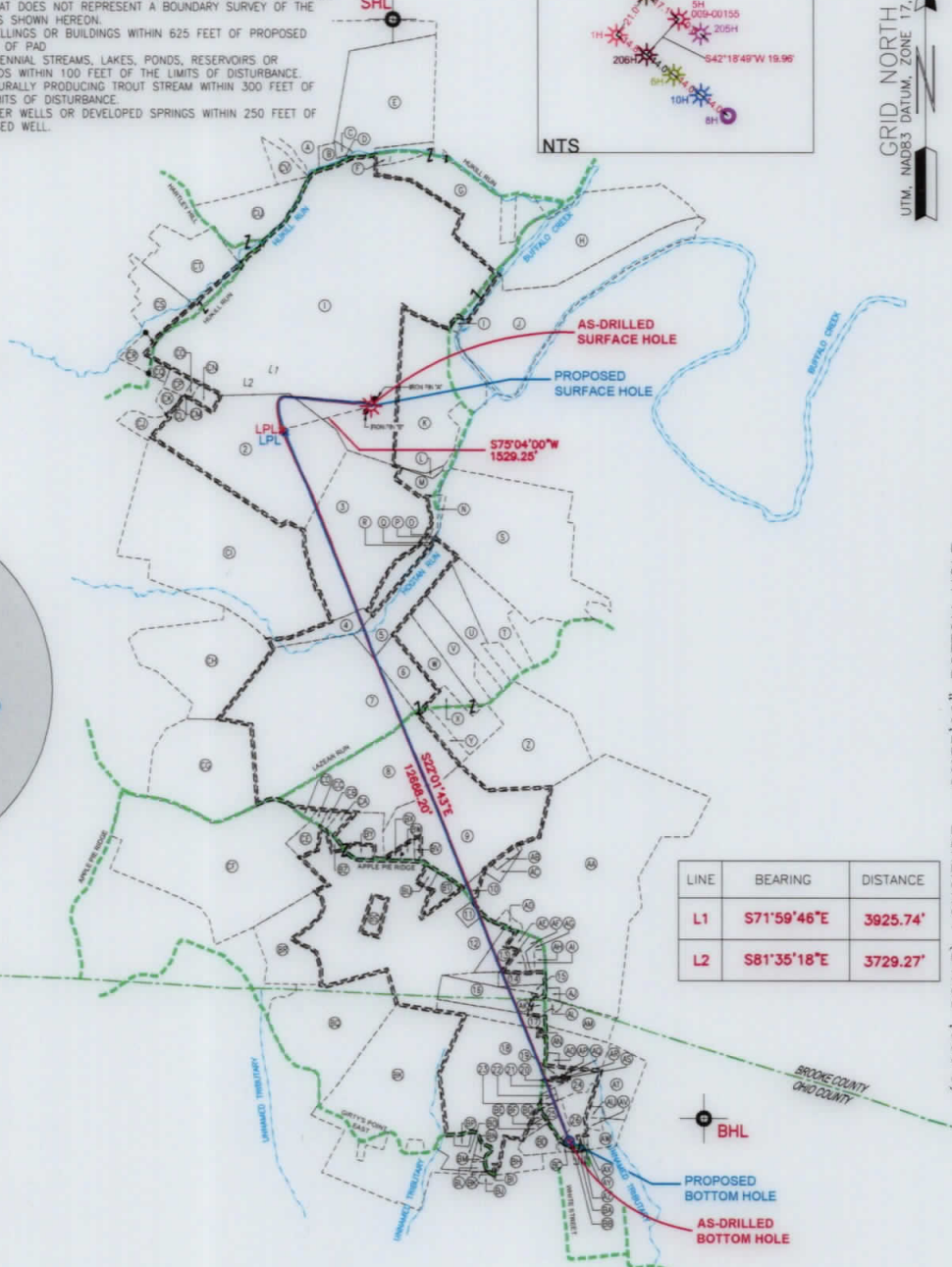
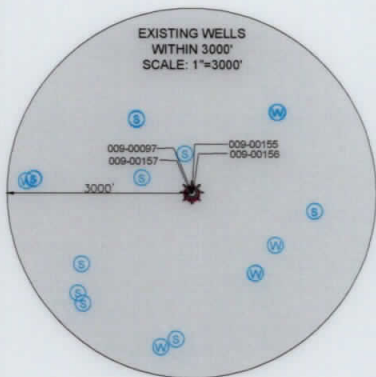
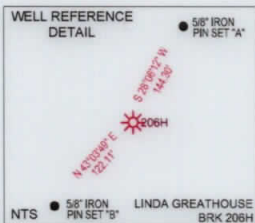
www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

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. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
4. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
6. 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°59'46"E	3925.74'
L2	S81°35'18"E	3729.27'

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4450484.49
EASTING: 533447.37
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4450356.90
EASTING: 532999.24
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4446803.60
EASTING: 534506.67
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4450484.49
EASTING: 533447.37
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4450342.24
EASTING: 533015.62
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4446803.67
EASTING: 534506.62

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, LLC

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

LINDA GREATHOUSE BRK
OPERATOR'S WELL #: 206H
API WELL #: 47 009 00278
STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,139.1'

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: 6,019' TVD 19,102' TMD

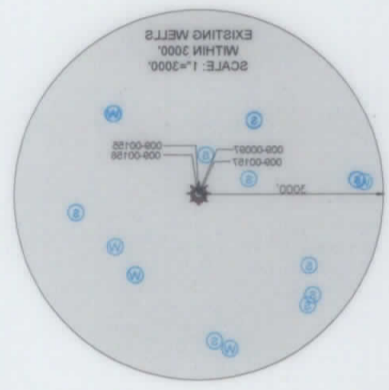
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:

 REVISIONS:
 DATE: 02-18-2020
 API #: 47-009-00278
 DRAWN BY: R. GRIMES
 SCALE: 1" = 3000'
 DRAWING NO: 2018-204
 WELL LOCATION PLAT

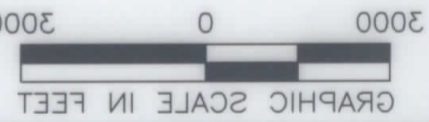
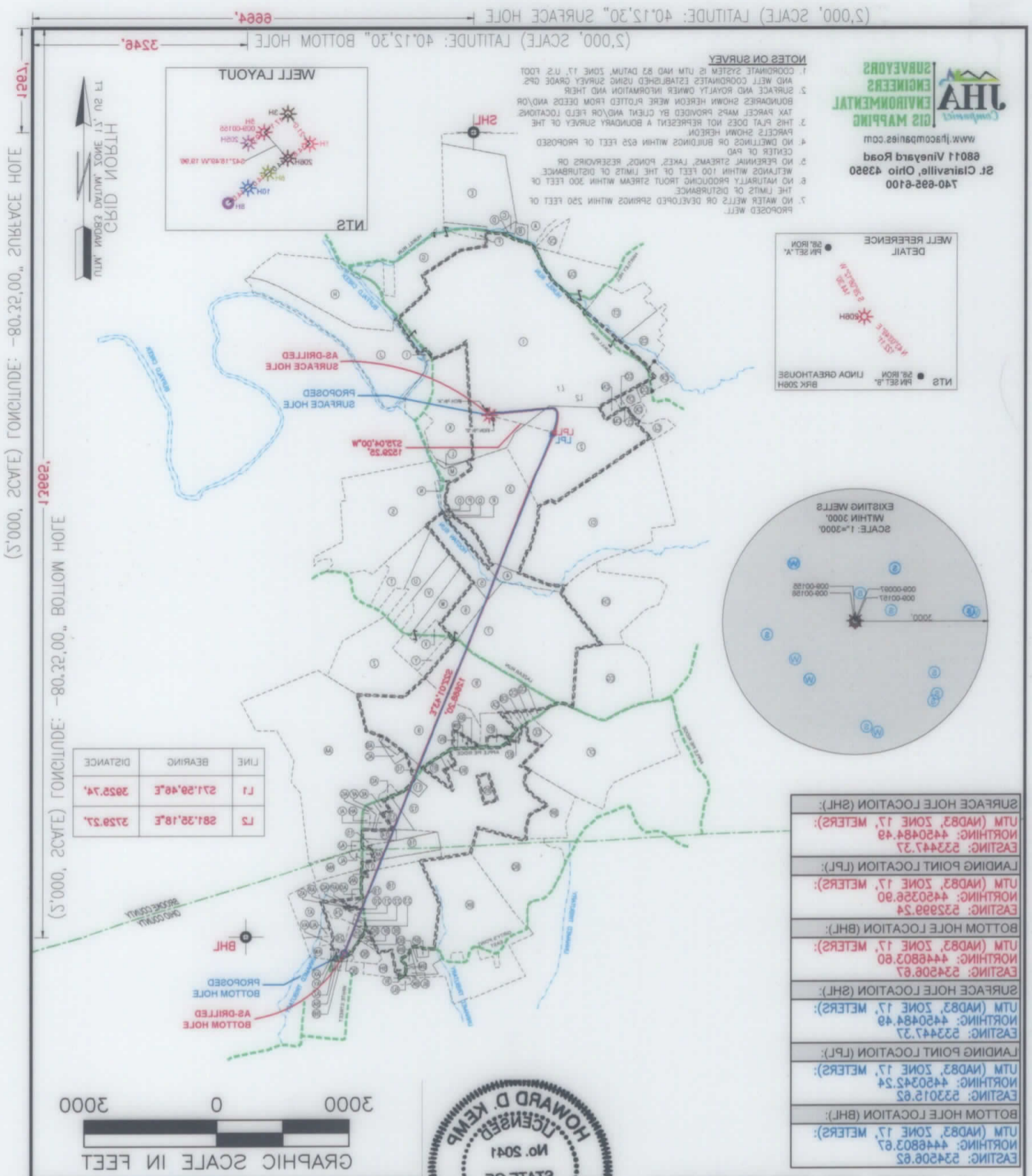
JHA
ENGINEERS
ENVIRONMENTAL
GIS MAPPING
 www.jhacompanies.com
 88011 Vineyard Road
 St. Clairsville, Ohio 43950
 740-682-8100

NOTES ON SURVEY
 1. COORDINATE SYSTEM IS UTM AND NAD 83 DATUM, ZONE 17 U.S. FOOT
 2. SURFACE AND BATHYMETRY INFORMATION AND THEIR
 BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR
 TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
 3. THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY OF THE
 PARCELS SHOWN HEREON.
 4. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED
 CENTER OF PATH.
 5. NO PERMANENT 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 300 FEET OF
 PROPOSED WELL.



LINE	BEARING	DISTANCE
L1	S71°50'46"E	2028.74'
L2	S81°30'18"E	2120.23'

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4450484.49 EASTING: 523447.37
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4450256.90 EASTING: 523989.24
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4448803.60 EASTING: 524508.67
SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4450484.49 EASTING: 523447.37
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4450242.24 EASTING: 523012.82
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4448803.67 EASTING: 524508.62



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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.

SWN
 Production Company, LLC
 Production Company

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	DESIGNATED AGENT: BRITANY WOODY ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508
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: LINDA REEVES GREATHOUSE & VICKI LYNN HAMILTON OIL & GAS ROYALTY OWNER: LINDA REEVES GREATHOUSE & VICKI LYNN HAMILTON
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,019' TVD 18,102' TMD OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY AS-DRILLED) PERFORATE NEW FORMATION <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> REDRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/>	ELEVATION: (NAD 88, US FT) SOURCE OF GRADE GPS PROVEN SURVEY ACCURACY: 1/200 MINIMUM DEGREE OF ACCURACY: 1/200 (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
API WELL #: 47 STATE: WV COUNTY: PERMIT: 009 005278 OPERATOR'S WELL #: LINDA GREATHOUSE BRK 208H	REVISIONS: DATE: 02-18-2020 API #: 47-009-005278 DRAWN BY: R. GRIMES SCALE: 1" = 3000' DRAWING NO: 2018-204 WELL LOCATION PLAN

(S'000, SCALE) LONGITUDE: -80.32,00, BOTTOM HOLE

GRID NORTH
 TRUE NORTH
 MAGNETIC NORTH

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

(S'000, SCALE) LATITUDE: 40°12'30" BOTTOM HOLE

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	JAMES L. BONAR & ET AL	03-B42-0054.0000
5	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0055.0000
6	RALPH O. & GINA L. SMITH	03-B42-0064.0000
7	MIKE RYNIAWEC	03-B42-0033.0000
8	MIKE RYNIAWEC	03-B42-0034.0000
9	CAROL G. DWYER	03-B47-0030.0000
10	TERRY D. HARWATT	03-B47-0032.0001
11	JOHN WILSON, MARK WILSON, CAROL SHAIN & BETH HOOD	03-B47-0025.0003
12	CAROL DWYER	03-B47-0025.0000
13	SUSAN IRENE ROEDER, GLEN FRANCIS & ET AL	03-B47-0034.0000
14	ROBERT W. & EDITH A. MILVET	03-B47-0040.0000
15	RONALD G. & DONNA M. KELLER	03-B47-0041.0000
16	DEREK J. & NICOLE L. ENNIS	03-B47-0043.0000
17	DEREK J. & NICOLE L. ENNIS	09-L1-4.3
18	DEREK J. & NICOLE ENNIS	03-L1-4.2
19	JANICE L. SEYLER	09-WL1-9.3
20	DEBORAH J. & THOMAS W. BUKOVAC	09-WL1-9.1
21	DEBORAH J. & THOMAS W. BUKOVAC	09-WL1-9
22	BERNARD PETTIT	09-WL1-10
23	BERNARD R. PETTIT	09-WL1-11
24	BERNARD R. PETTIT	09-WL1-7
25	JEFFREY W. & JULIE L. RYAN	09-WL1-12
26	BENJAMIN T. BORDAS	09-WL1-12.1

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	JAMES & JO ELLEN HAIZLETT	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	TRUMAN A. & MARY SPEECE, DOROTHY SPEECE & THURMAN SPEECE, JR.	03-B42-0058.0000
O	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0053.0000
P	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0051.0000
Q	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0056.0000
R	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0057.0000
S	JEFFREY S. & DAWNA J. WARD	03-B42-0059.0004
T	RALPH O. & GINA L. SMITH	03-B42-0070.0000
U	RALPH O. & GINA L. SMITH	03-B42-0068.0000
V	RALPH O. & GINA L. SMITH	03-B42-0066.0000
W	RALPH & GINA SMITH	03-B42-0065.0000
X	MICHAEL DAVID & BETH ANN FINK	03-B42-0038.0000
Y	DOUGLAS L. & BELINDA TURNER	03-B42-0035.0000
Z	NOEL R. & JOYCE L. SCHWERTFEGER	03-B42-0040.0000
AA	JOHN E. HARWATT, TERRY D. HARWATT & SHIRLEY MAE NEIL	03-B47-0032.0000
AB	TERRY D. HARWATT	03-B47-0031.0000
AC	TERRY D. HARWATT	03-B47-0032.0004
AD	TERRY D. HARWATT	03-B47-0032.0002
AE	SANDRA K. ROEDER, GLENN I. FRANCIS, JR. & ET AL	03-B47-0035.0000
AF	BRIAN G. & DEBORA I. FEIST	03-B47-0036.0000
AG	ERNEST, JR. & SUSAN ROEDER	03-B47-0037.0000
AH	SUSAN ROEDER, GLENN IRWIN FRANCIS, JR. & ET AL	03-B47-0038.0000
AI	SUSAN IRENE ROEDER, GLEN FRANCIS & ET AL	03-B47-0039.0000
AJ	JOHN E. & EDITH R. HARWATT	03-B47-0032.0003
AK	DEREK J. & NICOLE L. ENNIS	03-B47-0033.0001
AL	OHIO COUNTY COMMISSION	09-WL1-1
AM	BONNIE J. CARR & DEAN S. CARR	09-WL1-2
AN	CHILDRENS FARM TRUST	09-WL1-14
AO	JANICE J. SEYLER	09-WL1-4
AP	BERNARD R. PETTIT	09-WL1-9.5
AQ	THOMAS W. & DEBROAH J. BUKOVAC	09-WL1-9.2
AR	DEBORAH J. & THOMAS W. BUKOVAC	09-WL1-9.7
AS	DEBORAH J. & THOMAS W. BUKOVAC	09-WL1-9.6
AT	MISTI D. PASSARELLO	03-L1-13
AU	GEORGE E. DENNIS	09-WL1-13
AV	JEREMIAH J. & CHELSIE C. BUKOVAC	09-WL3-22.1
AW	AMANDA J. & DOUGLAS G. NAYLOR	09-WL3-22
AX	META M. LASCH	09-WL3-133
AY	TIMOTHY L. & PATRICIA L. SCHERF	09-WL3-132
AZ	B. SEIDLER, R. TAYLOR, M. MAUCK & F. STANLEY (L/E)	09-WL3-17
BA	B. SEIDLER, R. TAYLOR, M. MAUCK & F. STANLEY (L/E)	09-WL3-16
BB	B. SEIDLER, R. TAYLOR, M. MAUCK & F. STANLEY (L/E)	03-WL3-15
BC	PAUL E. DAWSON	09-WL3-21
BD	R.L. CLARK, JR. & C.L. HLEBICZKI	09-WL3-131
BE	JERALDINE W. DAILEY	09-WL3-130
BF	JERALDINE W. DAILEY	09-WL3-129
BG	ROBERT S. & JANET L. WISE	09-WL3-127.1
BH	LIBERTY HIGH SCHOOL	09-WL3-7
BI	MASONIC LODGE 26 A.F.A.M	09-WL3-6

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
BJ	NJS HOLDINGS, LLC	09-WL3-51
BK	CHARLES BONAR	03-L1-4
BL	MICHAEL A. & DIANA L. RICE	09-WL3-3
BM	FRANK, JR. & J.D. BLASKOVICH	09-WL3-2
BN	FRANK BLASKOVICH, JR. & JENNIFER D. BLASKOVICH	09-WL3-1
BO	CHARLES BONAR	03-L1-21.1
BP	MATTHEW P. BONAR	03-L1-21.3
BQ	CHARLES W. & CHARLOTTE R. BONAR	03-L1-2.6
BR	LAWRENCE & MARTHA SAYRE	03-B47-0014.0000
BS	CAROL DWYER	03-B47-0026.0000
BT	BETH ANN HOOD	03-B47-0025.0002
BU	RONALD J. & BETH A. HOOD	03-B47-0027.0000
BV	CAROL G. DWYER	03-B47-0029.0000
BW	WAYNE A. ABERCROMBIE, JR.	03-B47-0028.0000
BX	SCOTT T. WILHELM	03-B47-0028.0001
BY	PHILIPS R. & CORISSA DWAYER	03-B47-0025.0004
BZ	THURMAN D., JR. & KATHY I. SPEECE	03-B47-0024.0000
CA	ROBERT E. & LAURA G. GREATHOUSE	03-B47-0025.0001
CB	JOHN D. MILLER & JENNIFER LYN NEWMAN	03-B47-0022.0000
CC	LAWRENCE G. & CATHIE SUE PAUGH	03-B47-0021.0000
CD	LAWRENCE GRANT PAUGH	03-B47-0020.0000
CE	STETSON E. & WENDY S. SUTER	03-B47-0023.0000
CF	JOSEPH S. & JANE M. BUREK	03-B47-0019.0000
CG	ELIZABETH ELLEN FLUHARTY	03-B47-0018.0000
CH	APPALACHIA MIDSTREAM SERVICES, LLC	03-B47-0029.0000
CI	HENRY HEINZROTH	03-B42-0032.0000
CJ	HAROLD RICHARD & JOY LYNN KENNY	03-B42-0020.0000
CK	BRUCE & DARLENE HENTHORN	03-B42-0014.0000
CL	BRUCE & DARLENE HENTHORN	03-B42-0019.0001
CM	EDWARD E. & NANCY J. CONLEY	03-B42-0017.0000
CN	RICKEY & DEBRA CONLEY	03-B42-0018.0000
CO	EDWARD E. & NANCY J. CONLEY	03-B42-0016.0000
CP	EDWARD E. & NANCY J. CONLEY	03-B42-0015.0000
CQ	DANIEL R. GORBY	03-B42-0026.0000
CR	DANIEL R. GORBY	03-B42-0003.0000
CS	ELLEN M. STANLEY	03-B42-0001.0000
CT	VICTOR CHARLES SMITH	03-B37-0130.0000
CU	CHRISTOPHER SCOTT MILLER	03-B37-0094.0000
CV	KEVIN CHUMNEY	03-B37-0093.0000

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN *R-V+*
Production Company™

OPERATOR'S LINDA GREATHOUSE BRK

WELL #: 206H

DISTRICT:
BUFFALO

COUNTY:
BROOKE

STATE:
WV

DATE: 02-18-2020

API #: 47-009-00278

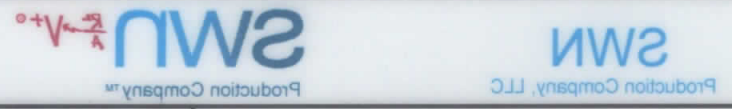
DRAWN BY: R. GRIMES

SCALE: N/A

DRAWING NO: 2018-204

WELL LOCATION PLAT

PROPERTY NUMBER 2501168493
PAD ID 3001155488

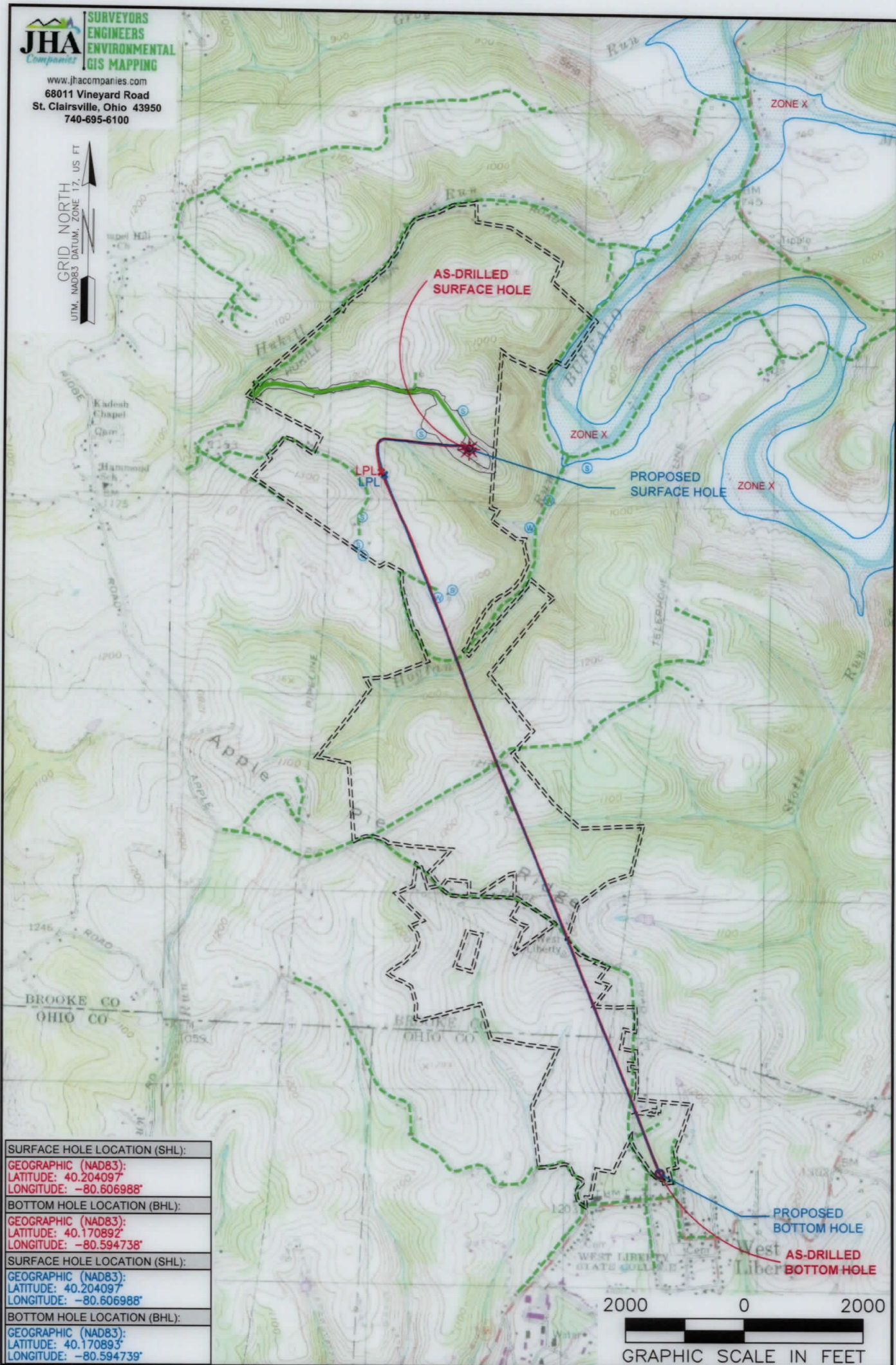
WELL LOCATION PLAT	DRAWING NO: 2018-204	SCALE: N/A	DRAWN BY: R. GRIMES	DATE: 02-18-2020
DISTRICT: BUFFALO	COUNTY: BROOKE	STATE: WV	WELL #: 206H	OPERATOR'S: LINDA GREATHOUSE BRK
				
COMPANY:				

TRACT	SURFACE OWNER	TAX PARCEL
BI	MASONIC LODGE 28 A.F.A.M.	09-WJ-8
BH	LIBERTY HIGH SCHOOL	09-WJ-7
BO	ROBERT S & JANET L WISE	09-WJ-1271
BR	JERALDINE W DAILEY	09-WJ-3-129
BS	JERALDINE W DAILEY	09-WJ-3-130
BD	R.L. CLARK, JR & C.L. HEBICZKI	09-WJ-3-131
BC	PAUL E. DAWSON	09-WJ-3-131
BB	B. SEIDLER, R. TAYLOR, M. MAUCK & F. STANLEY (J/E)	09-WJ-3-128
BA	B. SEIDLER, R. TAYLOR, M. MAUCK & F. STANLEY (J/E)	09-WJ-3-128
BA	B. SEIDLER, R. TAYLOR, M. MAUCK & F. STANLEY (J/E)	09-WJ-3-128
AY	TIMOTHY J. & PATRICIA J. SCHERR	09-WJ-3-122
AX	META M. LASCH	09-WJ-3-122
WA	AMANDA J. & DOUGLAS G. HAYLOR	09-WJ-3-25
VA	JEREMIAH J. & CHELSEA C. BUKOVAC	09-WJ-3-251
AV	GEORGE E. DENNIS	09-WJ-1-13
AU	MSTI D. PASSARELLO	03-L-1-13
AA	JOHN E. HARWATT, TERRY D. HARWATT & SHIRLEY MAE NEIL	03-B42-0040000
ZA	NOEL R. & JOYCE L. SCHWERTFELDER	03-B42-0040000
Y	DOUGLAS J. & BELINDA TURNER	03-B42-0035000
X	MICHAEL DAVID & BETH ANN LINK	03-B42-0038000
W	RALPH & GINA SMITH	03-B42-0085000
V	RALPH O. & GINA L. SMITH	03-B42-0088000
U	RALPH O. & GINA L. SMITH	03-B42-0088000
T	RALPH O. & GINA L. SMITH	03-B42-0070000
S	JEFFREY S. & DAWN J. WARD	03-B42-0029004
R	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0057000
Q	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0058000
P	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0051000
O	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0058000
N	TRUMAN A. & MARY SPEECE DOROTHY SPEECE & THURMAN SPEECE, JR	03-B42-0088000
M	AUSTIN WAYNE & JUSTINE ADAH WADE	03-B42-0050000
L	AUSTIN WAYNE & JUSTINE ADAH WADE	03-B42-0050001
K	JAMES & JO ELLIEN HAZLETT	03-B42-0060002
J	ELLEN B. SANFORD	03-B42-0078000
I	EDGAR S. & CECILIA M. ERDMAN	03-B42-0049000
H	LPS INVESTMENT PARTNERSHIP	03-B42-0066000
G	BRIAN K. & GINA M. HANEY	03-B42-0077000
F	CARL R. & SANDRA S. CLARK	03-B42-0088000
E	DEBRA F. CYPHERT, MATTHEW H. FAIR & ET AL	03-B42-0088000
D	ROBERT BONE	03-B42-0090001
C	ROBERT BONE	03-B42-0089000
B	ROBERT BONE	03-B42-0090000
A	DEBRA F. CYPHERT, MATTHEW H. FAIR & ET AL	03-B42-0091000
28	BENJAMIN T. BORDAS	09-WJ-1-121
25	JEFFREY W. & JULIE J. RYAN	09-WJ-1-12
24	BERNARD R. PETTIT	09-WJ-1-7
23	BERNARD R. PETTIT	09-WJ-1-11
22	BERNARD PETTIT	09-WJ-1-10
21	DEBORAH J. & THOMAS W. BUKOVAC	09-WJ-9
20	DEBORAH J. & THOMAS W. BUKOVAC	09-WJ-9-1
19	JANICE J. SEYLER	09-WJ-1-9-3
18	DEREK J. & NICOLE J. ENNIS	03-L-1-4-2
17	DEREK J. & NICOLE J. ENNIS	09-L-1-4-2
16	DEREK J. & NICOLE J. ENNIS	03-B42-0043000
15	RONALD G. & DONNA M. KELLER	03-B42-0041000
14	ROBERT W. W. & EDITH A. MILVET	03-B42-0040000
13	SUSAN RENEE ROEDER, GLEN FRANCIS & ET AL	03-B42-0034000
12	CAROL DWYER	03-B42-0025000
11	JOHN WILSON, MARK WILSON, CAROL SHAIN & BETH HOOD	03-B42-0025003
10	TERRY D. HARWATT	03-B42-0023001
9	CAROL G. DWYER	03-B42-0020000
8	MIKE RYANIEWICZ	03-B42-0024000
7	MIKE RYANIEWICZ	03-B42-0023000
6	RALPH O. & GINA L. SMITH	03-B42-0084000
5	WINDSOR POWER HOUSE COAL COMPANY	03-B42-0025000
4	JAMES L. BONA & ET AL	03-B42-0024000
3	PHYLLIS P. MARKER	03-B42-0025000
2	ROCCO BASIL	03-B42-0019000
1	LINDA REVEZ GREATHOUSE & VICKI LYNN HAMILTON (S/R)	03-B42-0087000

TRACT	SURFACE OWNER	TAX PARCEL
CV	KEVIN CHUMNEY	03-B42-0093000
CU	CHRISTOPHER SCOTT MILLER	03-B42-0094000
CT	VICTOR CHARLES SMITH	03-B42-0130000
CS	ELLEN M. STANLEY	03-B42-0091000
CR	DANIEL R. GORBY	03-B42-0093000
CC	DANIEL R. GORBY	03-B42-0026000
CP	EDWARD E. & NANCY J. CONLEY	03-B42-0012000
CO	EDWARD E. & NANCY J. CONLEY	03-B42-0018000
CN	RICKY & DEBRA CONLEY	03-B42-0018000
CM	EDWARD E. & NANCY J. CONLEY	03-B42-0017000
CL	BRUCE & DARLENE HEINTHORN	03-B42-0019001
CK	BRUCE & DARLENE HEINTHORN	03-B42-0014000
CJ	HAROLD RICHARD & JOY LYNN KENNY	03-B42-0020000
CI	HENRY HEINZROTH	03-B42-0023000
CH	APPALACHIA MIDSTREAM SERVICES, LLC	03-B42-0029000
CC	ELIZABETH ELLEN FLUHARTY	03-B42-0018000
CF	JOSEPH S. & JANE M. BUREK	03-B42-0019000
CE	STETSON E. & WENDY S. STUER	03-B42-0023000
CD	LAWRENCE GRANT PAUGH	03-B42-0020000
CC	LAWRENCE G. & CATHE SUE PAUGH	03-B42-0021000
CB	JOHN D. MILLER & JENNIFER LYNN NEWMAN	03-B42-0025000
CA	ROBERT E. & LAURA G. GREATHOUSE	03-B42-0025001
B5	THURMAN O. JR & KATHY L. SPEECE	03-B42-0024000
BY	PHILIP R. & CORISSA DWYER	03-B42-0025004
BX	SCOTT T. WILHELM	03-B42-0028001
BW	WAYNE A. BERGROMBLE, JR	03-B42-0028000
BV	CAROL G. DWYER	03-B42-0029000
BU	RONALD J. & BETH A. HOOD	03-B42-0027000
BT	BETH ANN HOOD	03-B42-0025002
BS	CAROL DWYER	03-B42-0026000
BR	LAWRENCE & MARTHA SZAYR	03-B42-0014000
BO	CHARLES W. & CHARLOTTE R. BONAAR	03-L-1-2
BP	MATTHEW P. BONAAR	03-L-1-213
BQ	CHARLES BONAAR	03-L-1-211
BN	FRANK BLASKOVICH, JR. & JENNIFER D. BLASKOVICH	09-WJ-3-1
BM	FRANK JR. & J.D. BLASKOVICH	09-WJ-3-2
BL	MICHAEL A. & DIANA L. RICE	09-WJ-3-3
BK	CHARLES BONAAR	03-L-1-4
BL	MIS HOLDINGS, LLC	09-WJ-3-1

TRACT	SURFACE OWNER	TAX PARCEL
ADJONING OWNERS TABLE		

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



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.204097°
LONGITUDE: -80.606988°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.170892°
LONGITUDE: -80.594738°
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.204097°
LONGITUDE: -80.606988°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.170893°
LONGITUDE: -80.594739°



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
EXISTING LANDING POINT LOCATION	FLOOD PLAIN
PROPOSED SURFACE HOLE / BOTTOM HOLE	LEASE BOUNDARY
PROPOSED LANDING POINT LOCATION	ASDRILLED PATH
	PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: LINDA GREATHOUSE BRK	WELL # 206H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY - CODE: BROOKE - 009	DISTRICT: BUFFALO	API: 47-009-00278
SURFACE OWNER: LINDA REEVES GREATHOUSE & VICKI LYNN HAMILTON	USGS 7 1/2 QUADRANGLE MAP NAME: BETHANY, WV		

