

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

API 47-009-00330 County BROOKE District BUFFALO  
Quad BETHANY WV Pad Name MYKE RYNIWEC-BRK-PAD1 Field/Pool Name PANHANDLE FIELD WET  
Farm name SWN PRODUCTION COMPANY, LLC Well Number MIKE RYNIWEC 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 4,448,988.80 Easting 533,254.25  
Landing Point of Curve Northing 4,448,803.67 Easting 532,828.70  
Bottom Hole Northing 4,445,151.67 Easting 534,359.25

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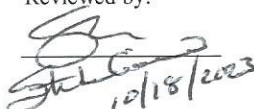
Elevation (ft) 1,148.1' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  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 4/19/2022 Date drilling commenced 3/21/2023 Date drilling ceased 4/13/2023  
Date completion activities began 5/25/2023 Date completion activities ceased 6/10/2023  
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 346' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 645' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 342' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:  
  
10/18/2023

API 47-009 - 00330 Farm name SWN PRODUCTION COMPANY, LLC Well number MIKE RYNIAWEC 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	135'	NEW	J-55/94#		Y
Surface	17.5	13.375	404	NEW	J-55/54.5#		Y; 23 BBLs
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1702	NEW	J-55/36#		Y; 15 BBLs
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	19931	NEW	P-110 HP/20#		Y; 40 BBLs
Tubing		2.875	6502	NEW	P-110/6.5#		N
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	141	15.60	1.19	167.79	SURFACE	8
Coal							
Intermediate 1	CLASS A	611	15.60	1.19	727.09	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3837	15.00	1.29	4,949.73	5,786	24
Tubing							

Drillers TD (ft) 19,932' Loggers TD (ft) 19,932'  
 Deepest formation penetrated MARCELLUS Plug back to (ft) 19,845  
 Plug back procedure N/A

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Kick off depth (ft) 5,445' MD

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

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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: 21 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 PRODUCTION: 425 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 \_\_\_\_\_

API 47- 009 - 00330

Farm name SWN PRODUCTION COMPANY, LLC

Well number MIKE RYNIAWEC BRK 206H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMENT	1		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
		SEE	ATTACHMENT	2				

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Please insert additional pages as applicable.

API 47- 009 - 00330 Farm name SWN PRODUCTION COMPANY, LLC Well number MIKE RYNIAWEC BRK 206H

PRODUCING FORMATION(S)	DEPTHS	
MARCELLUS	5,884'	TVD 6,522' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2,140 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas 7,752 mcfpd Oil 871 bpd NGL \_\_\_\_\_ bpd Water 1,447 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	0		0		
	SEE	ATTACHMENT	3		

Please insert additional pages as applicable.

Drilling Contractor SWN DRILLING COMPANY  
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

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Logging Company BAKER HUGHES  
Address 9110 GROGANS MILL RD City THE WOODLANDS State TX Zip 77380

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Cementing Company SCHLUMBERGER WELL SERVICES  
Address 110 SCHLUMBERGER DRIVE City SUGAR LAND State TX Zip 77478

Stimulating Company SWN WELL SERVICES  
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

Please insert additional pages as applicable.

Completed by DENISE GRANTHAM Telephone 832-796-6139  
Signature Denise GrantHAM Title REGULATORY SPECIALIST Date 8/15/2023

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry



Well Name: MIKE RYNIAWEC BRK 206H 470090033000000

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	346.00	346.00	
Top of Salt Water	645.00	645.00	NA	NA	
Pittsburgh Coal	342.00	342.00	348.00	348.00	
Big Injun (ss)	1701.00	1674.00	1965.00	1920.00	
Berea (siltstone)	1965.00	1920.00	2054.00	2003.00	
Rhinstreet (shale)	5641.00	5342.00	5989.00	5648.00	
Middlesex (shale)	5989.00	5648.00	6107.00	5730.00	
Tully (ls)	6107.00	5730.00	6206.00	5787.00	
Mahantango (shale)	6206.00	5787.00	6522.00	5884.00	
Marcellus (shale)	6522.00	5884.00	NA	NA	GAS

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MIKE RYNIAWEC BRK 206H

ATTACHMENT 1

PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	5/18/2023	19,845	19,757	36
2	5/26/2023	19,723	19,546	36
3	5/26/2023	19,513	19,336	36
4	5/26/2023	19,303	19,126	36
5	5/26/2023	19,093	18,916	36
6	5/27/2023	18,883	18,706	36
7	5/27/2023	18,673	18,497	36
8	5/27/2023	18,464	18,287	36
9	5/27/2023	18,254	18,077	36
10	5/27/2023	18,044	17,867	36
11	5/28/2023	17,834	17,657	36
12	5/28/2023	17,624	17,447	36
13	5/28/2023	17,414	17,237	36
14	5/28/2023	17,204	17,027	36
15	5/28/2023	16,994	16,817	36
16	5/28/2023	16,784	16,607	36
17	5/28/2023	16,574	16,397	36
18	5/28/2023	16,365	16,188	36
19	5/29/2023	16,155	15,978	36
20	5/29/2023	15,945	15,768	36
21	5/29/2023	15,735	15,558	36
22	5/29/2023	15,525	15,348	36
23	5/29/2023	15,315	15,138	36
24	5/29/2023	15,105	14,928	36
25	5/29/2023	14,895	14,718	36
26	5/29/2023	14,685	14,508	36
27	5/30/2023	14,475	14,298	36
28	5/30/2023	14,265	14,089	36
29	5/30/2023	14,056	13,879	36
30	5/30/2023	13,846	13,669	36
31	5/30/2023	13,636	13,459	36
32	5/30/2023	13,426	13,249	36
33	5/30/2023	13,216	13,039	36
34	5/30/2023	13,006	12,829	36
35	5/31/2023	12,796	12,619	36
36	5/31/2023	12,586	12,409	36
37	5/31/2023	12,376	12,199	36
38	5/31/2023	12,166	11,989	36
39	5/31/2023	11,956	11,780	36
40	5/31/2023	11,747	11,570	36
41	5/31/2023	11,537	11,360	36
42	5/31/2023	11,327	11,150	36

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PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
43	6/1/2023	11,117	10,940	36
44	6/1/2023	10,907	10,730	36
45	6/1/2023	10,697	10,520	36
46	6/1/2023	10,487	10,310	36
47	6/1/2023	10,277	10,100	36
48	6/1/2023	10,067	9,890	36
49	6/2/2023	9,857	9,681	36
50	6/2/2023	9,648	9,471	36
51	6/2/2023	9,438	9,261	36
52	6/2/2023	9,228	9,051	36
53	6/2/2023	9,018	8,841	36
54	6/2/2023	8,808	8,631	36
55	6/2/2023	8,598	8,421	36
56	6/3/2023	8,388	8,211	36
57	6/3/2023	8,178	8,001	36
58	6/3/2023	7,968	7,791	36
59	6/3/2023	7,758	7,581	36
60	6/3/2023	7,548	7,372	36
61	6/3/2023	7,339	7,162	36
62	6/4/2023	7,129	6,952	36
63	6/4/2023	6,919	6,742	36
64	6/4/2023	6,709	6,532	36

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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/othe
1	5/26/2023	88.6	8,554	8,354	4,228	192,500	6,124	0
2	5/26/2023	89.7	8,165	4,733	4,485	315,000	6,853	0
3	5/26/2023	96	8,809	4,763	4,685	315,000	7,497	0
4	5/26/2023	94.7	8,777	4,977	4,703	315,000	7,105	0
5	5/26/2023	87.2	7,768	4,887	8,556	315,000	6,561	0
6	5/27/2023	92.3	8,977	5,327	4,725	315,000	6,703	0
7	5/27/2023	92.1	9,047	5,525	4,658	305,000	7,142	0
8	5/27/2023	95	9,046	9,114	4,423	315,000	11,477	0
9	5/27/2023	93.1	9,073	5,446	4,620	315,000	6,305	0
10	5/27/2023	92.8	9,061	5,397	4,925	315,000	6,426	0
11	5/28/2023	95	8,942	5,538	4,561	315,000	6,511	0
12	5/28/2023	89.2	8,640	5,625	4,528	315,000	6,355	0
13	5/28/2023	93.6	8,865	5,673	4,585	315,000	6,515	0
14	5/28/2023	96.8	8,616	5,411	4,685	315,000	6,838	0
15	5/28/2023	96.4	8,451	5,273	4,685	249,560	6,194	0
16	5/28/2023	84.3	8,004	5,579	4,559	315,000	6,035	0
17	5/28/2023	92.8	8,698	5,460	4,355	291,450	6,299	0
18	5/28/2023	93.6	8,743	5,700	4,549	315,000	6,343	0
19	5/29/2023	86.9	8,335	5,426	4,852	315,000	6,411	0
20	5/29/2023	86.5	8,126	5,794	4,894	315,000	6,529	0
21	5/29/2023	88	7,936	5,432	4,685	254,700	6,096	0
22	5/29/2023	88.4	7,886	5,474	4,585	273,040	6,222	0
23	5/29/2023	96.9	8,305	5,340	4,475	312,000	6,609	0
24	5/29/2023	97.8	8,565	5,673	4,858	315,000	6,315	0
25	5/29/2023	94.1	8,307	5,785	4,615	320,000	6,366	0
26	5/29/2023	93.7	8,704	5,425	4,525	315,000	6,510	0
27	5/30/2023	89.8	8,432	5,426	4,954	320,000	6,471	0
28	5/30/2023	91.3	8,430	5,489	4,615	320,000	6,238	0
29	5/30/2023	97.6	8,159	5,348	4,585	268,160	6,053	0
30	5/30/2023	97.9	8,410	5,785	4,685	315,000	6,878	0
31	5/30/2023	97.2	8,282	5,909	4,875	315,000	6,285	0
32	5/30/2023	92.9	8,763	6,042	4,852	315,000	6,216	0
33	5/30/2023	95.3	8,420	6,515	4,856	367,500	7,841	0
34	5/30/2023	96.2	8,719	6,672	4,687	367,500	7,413	0
35	5/31/2023	95.5	7,959	6,071	4,954	367,500	8,088	0
36	5/31/2023	95.8	8,468	6,189	4,687	367,500	7,804	0
37	5/31/2023	98	8,011	5,728	4,685	315,000	6,428	0
38	5/31/2023	98	7,898	5,647	4,685	315,000	6,158	0
39	5/31/2023	97.8	8,173	6,142	4,897	315,000	6,077	0
40	5/31/2023	93.2	7,795	5,884	4,875	315,000	5,841	0
41	5/31/2023	98	7,909	5,875	4,725	367,500	8,250	0
42	6/1/2023	95.1	7,474	4,125	4,211	367,500	7,867	0
43	6/1/2023	85.9	7,123	5,907	4,450	367,500	7,822	0
44	6/1/2023	98	7,626	6,014	4,875	367,500	7,742	0
45	6/1/2023	97.8	7,789	5,569	4,785	315,000	6,097	0
46	6/1/2023	92.3	7,444	5,645	4,852	315,000	6,032	0
47	6/1/2023	94.3	7,325	5,925	4,752	315,000	5,847	0
48	6/2/2023	93.4	7,165	6,200	4,410	315,000	5,985	0
49	6/2/2023	86.4	6,685	6,100	4,450	367,500	7,463	0
50	6/2/2023	97.8	7,216	5,157	4,585	367,500	7,759	0
51	6/2/2023	100	7,102	5,603	4,658	367,500	7,281	0
52	6/2/2023	94.2	6,933	5,324	4,785	367,500	7,578	0
53	6/2/2023	95	7,166	5,347	3,645	315,000	5,750	0

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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/othe
54	6/2/2023	94.2	7,144	5,950	4,850	315,000	5,777	0
55	6/3/2023	87.3	6,389	5,330	4,451	315,000	6,109	0
56	6/3/2023	91.2	6,774	5,412	4,412	315,000	5,835	0
57	6/3/2023	98.3	6,837	5,227	4,358	367,500	8,029	0
58	6/3/2023	100	6,814	2,721	4,452	367,500	7,572	0
59	6/3/2023	96.9	6,726	5,641	4,856	367,500	7,568	0
60	6/3/2023	96.1	6,600	5,394	4,856	367,500	7,469	0
61	6/3/2023	85.9	6,177	5,498	4,852	315,000	5,625	0
62	6/4/2023	92	6,872	5,301	4,739	315,000	5,656	0
63	6/4/2023	86.8	6,150	5,702	4,305	315,000	5,581	0
64	6/4/2023	100	6,535	5,468	4,685	315,000	5,910	0

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/26/2023
Job End Date:	6/4/2023
State:	West Virginia
County:	Brooke
API Number:	47-009-00330-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	MIKE RYNIAWEC BRK 206
Latitude:	40.19063000
Longitude:	-80.60933407
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,969
Total Base Water Volume (gal):	18,006,862
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
Base Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	87.50665	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.37182	

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			Water	7732-18-5	45.00000	0.37182	
			Water	7732-18-5	85.00000	0.37182	
Tolicide 4Frac	SWN Well Services	Biocide		Listed Below			
Plexaid 655NM	SWN Well Services	Scale Inhibitor		Listed Below			
Ferriplex 80	SWN Well Services	Iron Control		Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor		Listed Below			
Sand	SWN Well Services	Proppant		Listed Below			
Plexslick 930	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.							
		Crystalline Silica, quartz		14808-60-7	100.00000	12.02032	
		Hydrochloric Acid		7647-01-0	15.00000	0.05573	

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			Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8	45.00000	0.00455
			Sodium Erythorbate	6381-77-7	100.00000	0.00198
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00076
			Ethanol	64-17-5	2.50000	0.00025
			Ethylene glycol	107-21-1	40.00000	0.00023
			Cinnamaldehyde	104-55-2	10.00000	0.00006
			N,N-Dimethylformamide	68-12-2	10.00000	0.00006
			Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	10.00000	0.00006
			Isopropyl alcohol	67-63-0	5.00000	0.00003
			Triethyl phosphate	78-40-0	5.00000	0.00003
			1-Octanol	111-87-5	5.00000	0.00003
			benzyl chloridequaternized	72480-70-7	5.00000	0.00003
			1-Decanol	112-30-1	5.00000	0.00003
			2-Butoxyethanol	111-76-2	5.00000	0.00003

\* 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)

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LATITUDE: 40°12'30" SURFACE HOLE (2000' SCALE)

LATITUDE: 40°10'00" BOTTOM HOLE (2000' SCALE)

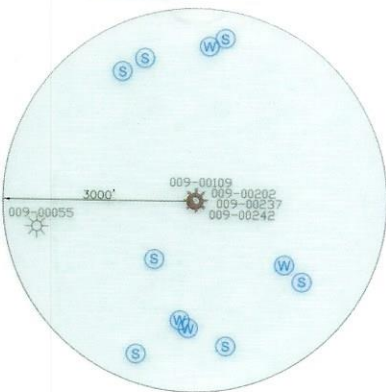
7318'

3758'

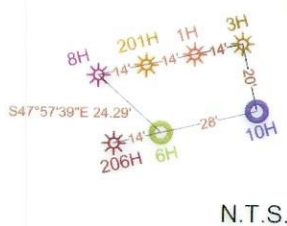


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St. Clairsville, Ohio 43950  
740-695-6100



WELL LAYOUT

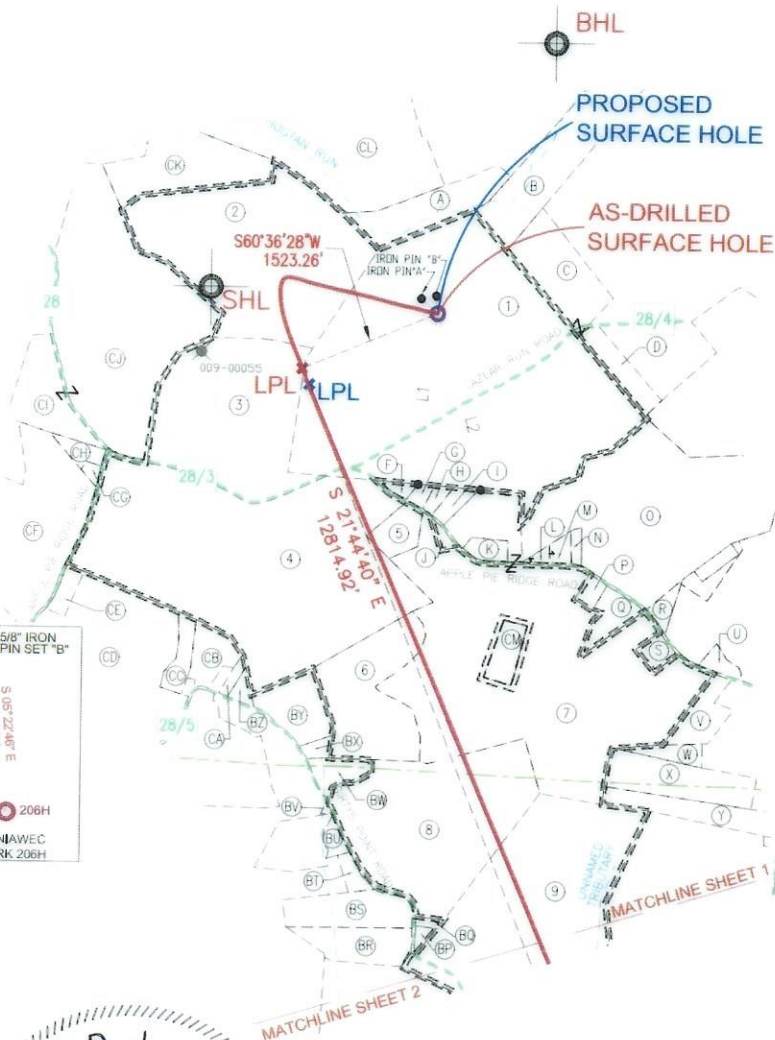


LINE	BEARING	DISTANCE
L1	N05°51'22"E	1782.70'
L2	N14°26'56"W	1883.84'

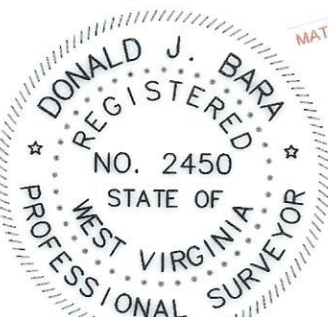


NOTES ON SURVEY

- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- 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.
- NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.



<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4448988.80 EASTING: 533254.25
<b>LANDING POINT LOCATION (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4448803.67 EASTING: 532828.70
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4445151.67 EASTING: 534359.25
<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4448988.71 EASTING: 533254.11
<b>LANDING POINT LOCATION (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4448890.51 EASTING: 532791.74
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4395133.41 EASTING: 534360.65



2000 0 2000

GRAPHIC SCALE IN FEET



COMPANY:	SWN	SWN
OPERATOR'S WELL #:	MIKE RYNIAWEC BRK 206H	
API WELL #:	47	009 00330
	STATE	COUNTY PERMIT

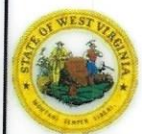
WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>
WATERSHED: UPPER OHIO SOUTH
DISTRICT: BUFFALO COUNTY: BROOKE/OHIO
SURFACE OWNER: MIKE RYNIAWEC
OIL & GAS ROYALTY OWNER: MIKE RYNIAWEC
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 ESTIMATED DEPTH: 6,040' TVD 19,932' 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: 06-26-2023
EXISTING BOTTOM HOLE	ACCESS ROAD	API NO: 47-009-00330
EXISTING / PRODUCING WELLHEAD	PUBLIC ROAD	DRAWN BY: Z.WOOD
LPL* EXISTING LANDING POINT LOCATION	FLOOD PLAIN	SCALE: 1" = 2000'
PROPOSED SURFACE HOLE / BOTTOM HOLE	LEASE BOUNDARY	DRAWING NO: 2017-220
PROPOSED LANDING POINT LOCATION	AS-DRILLED PATH	WELL LOCATION PLAT
	PROPOSED PATH	

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. 2450



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

LATITUDE: 40°12'30" SURFACE HOLE (2000' SCALE)

7318'

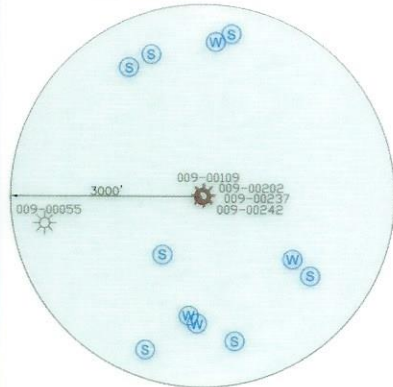
LATITUDE: 40°10'00" BOTTOM HOLE (2000' SCALE)

3758'



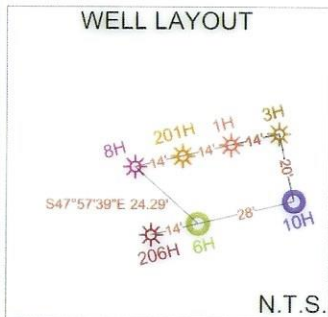
www.jhacompanies.com

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St. Clairsville, Ohio 43950  
740-695-6100



**NOTES ON SURVEY**

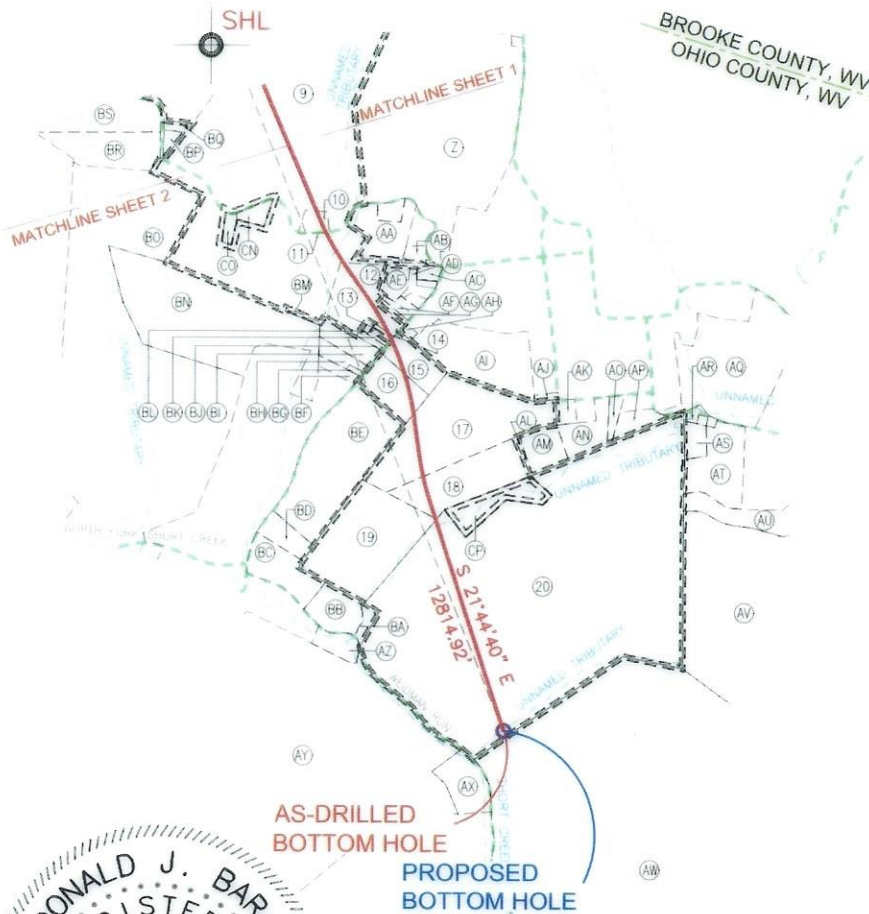
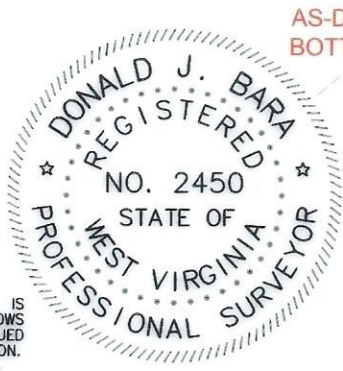
1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
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6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
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N.T.S.

LINE	BEARING	DISTANCE
L1	N05°51'22"E	1782.70'
L2	N14°26'56"W	1883.84'

<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4448988.80 EASTING: 533254.25
<b>LANDING POINT LOCATION (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4448803.67 EASTING: 532828.70
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<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4395133.41 EASTING: 534360.65



LONGITUDE: 80°35'00" BOTTOM HOLE (2000' SCALE)  
LONGITUDE: 80°35'00" SURFACE HOLE (2000' SCALE)

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. 2450

COMPANY: **SWN** Production Company, LLC

OPERATOR'S WELL #:	MIKE RYNIAWEC BRK 206H		
API WELL #:	47	009	00330
	STATE	COUNTY	PERMIT

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

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

WATERSHED: UPPER OHIO SOUTH  
DISTRICT: BUFFALO COUNTY: BROOKE/OHIO  
SURFACE OWNER: MIKE RYNIAWEC  
OIL & GAS ROYALTY OWNER: MIKE RYNIAWEC

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: 6,040' TVD 19,932' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508
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<b>LEGEND:</b> ○ 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 PLAN — LEASE BOUNDARY — AS-DRILLED PATH — PROPOSED PATH	<b>REVISIONS:</b>	<b>DATE:</b> 06-26-2023 <b>API NO:</b> 47-009-00330 <b>DRAWN BY:</b> Z.WOOD <b>SCALE:</b> 1" = 2000' <b>DRAWING NO:</b> 2017-220 <b>WELL LOCATION PLAT</b>
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WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	RYNIAWEC MIKE (S/R)	3-B42-33
TRACT	SURFACE OWNER	TAX PARCEL
2	APPALACHIA MIDSTREAM SERVICES LLC	3-B42-29
3	FLUHARTY ELIZABETH ELLEN	3-B47-18
4	BUREK JOSEPH S & JANE M	3-B47-19
5	SUTER STETSON E & WENDY S	3-B47-23
6	SAYRE LAWRENCE & MARTHA (SURV)	3-B47-14
7	DWYER CAROL	3-B47-25
8	BONAR CHARLES W & CHARLOTTE R	3-L1-2.6
9	BONAR MATTHEW P	3-L1-4
10	BONAR CHARLOTTE R	3-L1-21
11	STATE OF WEST VIRGINA, DEPARTMENT OF HIGHWAYS	GIRTYS POINT ROAD
12	WEST LIBERTY FEDERATED CHURCH TRUSTEES	9-WL3-62.1
13	R & D HOLDINGS LLC	9-WL3-62
14	STATE OF WEST VIRGINA, DEPARTMENT OF HIGHWAYS	STATE ROUTE 88
15	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.7
16	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.6
17	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.8
18	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.9
19	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.4
20	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	BONAR JAMES L ETAL	3-B42-54
B	WINDSOR POWER HOUSE COAL CO	3-B42-55
C	SMITH RALPH O & GINA L	3-B42-64
D	TURNER DOUGLAS L & BELINDA	3-B42-35
E	SCHWERTFEGER NOEL R	3-B42-40
F	PAUGH LAWRENCE GRANT	3-B47-20
G	PAUGH LAWRENCE G & CATHIE SUE	3-B47-21
H	MILLER JOHN D;NEWMAN JENNIFER LYN (SURV)	3-B47-22
I	GREATHOUSE ROBERT E & LAURA G	3-B47-25.1
J	SPEECE THURMAN O JR & KATHY I	3-B47-24
K	DWYER PHILIP R CORRISA	3-B47-25.4
L	WILHELM SCOTT T	3-B47-28.1
M	ABERCROMBIE WAYNE A JR	3-B47-28
N	DWYER CAROL G	3-B47-29
O	DWYER CAROL G	3-B47-30
P	HOOD RONALD J & BETH A	3-B47-27
Q	HOOD BETH ANN	3-B47-25.2
R	HARWATT TERRY D	3-B47-32.1
S	DWYWER CAROL	3-B47-25.3
T	HARWATT EDITH R & TERRY D; NEIL, SUZANNE	3-B47-32
U	HARWATT TERRY D	3-B47-32.2
V	ROEDER SUSAN IRENE; FRANCIS GLEN ETAL	3-B47-34
W	MILVET ROBERT W & EDITH A	3-B47-42
X	ENNIS DEREK J & NICOLE L	3-B47-43
Y	ENNIS DEREK J & NICOLE L	3-L1-43
Z	ENNIS DEREK J & NICOLE L	3-L1-4.2
AA	BONAR MATTHEW P	3-L1-21.1
AB	RICE MICHAEL A & DIANA L	9-WL3-3
AC	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-51
AD	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-53
AE	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-54
AF	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-60
AG	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-61
AH	STATE BOARD OF EDUCATION WEST LIBERTY STATE COLLEGE	9-WL3-65
AI	PRALL CEMETERY	9-WL3-127
AJ	PELLEN HESTER S & P	9-WL7-26
AK	MILLER THOMAS F & K L	9-WL7-28

ADJOINING OWNERS TABLE

TRACT	SURFACE OWNER	TAX PARCEL
AL	BOARD OF EDUCATION	9-WL7-30.2
AM	BOARD OF EDUCATION	9-WL7-30.1
AN	WHEELING POWER CO WHEELING ELECTRIC CO	9-WL7-30.3
AO	READ DAVID T - TOD	9-WL7-30
AP	FOWLER RUTH M - TOD	9-WL7-31
AQ	CUSTER KIMBERLY ANN BAUKNECHT DONNA MARIE	3-L1-36
AR	WILSON MARK W & DAWN L	3-L1-39.11
AS	BECK DAVID LEE	3-L1-39.7
AT	BECK DAVID L	3-L1-39.12
AU	BEAVER JAMES H & ROBIN L	3-L1-39.14
AV	DUVALL MARK A	3-L1-39.1
AW	MCGLUMPHY STEVEN & LORI - TOD	3-L4-110.3
AX	HUNTER JASON O	3-L4-104.2
AY	HONECKER JANET L; HONECKER ELIZABETH	3-L4-103
AZ	MONROE TIMOTHY L ET AL	9-WL10-11
BA	PERRY MARY P	9-WL10-14
BB	FOWLCON LIMITED LIABILITY CO	9-WL10-13
BC	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.2
BD	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.3
BE	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.5
BF	R & D HOLDINGS LLC	9-WL6-3
BG	FRONTIER WV INC CHESAPEAKE&POTOMAC TELEPHONE	9-WL6-2
BH	HERRICK SUSAN DR	9-WL6-1
BI	CATHOLIC DIOCESE OF WHEELING -CHARLESTON	9-WL2-1
BJ	R&D HOLDINGS LLC	9-WL3-64
BK	R&D HOLDINGS LLC	9-WL3-63
BL	R & D HOLDINGS LLC	9-WL3-62.2
BM	WEST RENTALS INC	3-L1-4.3
BN	WEST RENTALS INC	3-L1-22
BO	SAMPSON DALE M	3-L1-24
BP	DAVIS ALLEN O - LE; J R GALLETINE & T A DAVIS	3-L1-2.1
BQ	BYHANNA TIMOTHY A	3-L1-2.3
BR	PATTERSON GARRET L	3-L1-3
BS	EVANS PHARES O	3-L1-2.2
BT	NICHOLSON CHARLES W & M C -LE; MYERS LAURA A & NICHOLSON M A	3-L1-2.4
BU	WINDSOR POWER HOUSE COAL CO C/O CNX LAND - PROPERTY TAX	3-L1-1
BV	SAMPSON DALE M	4-R6-18
BW	MCCOY TERRI L	3-L1-2.5
BX	THOMAS DOROTHY A	3-B47-13
BY	SAYRE LAWRENCE & MARTHA J	3-B47-12
BZ	SMITH SANDRA;LINDA;NICHOLSON EARLENE	3-B47-11
CA	BRITTON JODY L;JANIE L	3-B47-10
CB	KLEIN JACK;GEORGE JENNIFER (SURV)	3-B47-8
CC	DUNN DAVID A & CRYSTAL G	3-B47-7
CD	WADE MARK A & MARY IVA SMITH	3-B47-4
CE	SHARIER JOHN E III	3-B47-3
CF	TUSTIN BETSY D & WOOD MARY R (JTWS)	3-B47-2.1
CG	FINSLEY ROBERT JR	3-B47-1.1
CH	LAMONT JAMES	3-B47-1
CI	MAYHEW KATHY LYNN & MICHAEL ETAL (SURV)	3-B42-27
CJ	MAYHEW KATHY LYNN & MICHAEL ETAL (SURV)	3-B42-27
CK	APPALACHIA MIDSTREAM SERVICES LLC	3-B42-31
CL	HEINZEROTH HENRY	3-B42-32
CM	DWYER CAROL	3-B47-26
CN	ROTHERMUND THOMAS F & MM	3-L1-4.1
CO	BONAR CHARLOTTE R	3-L1-21.2
CP	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.1

REVISIONS:


COMPANY:					
OPERATOR'S		MIKE RYNIWEC BRK		DATE: 06-26-2023	
WELL #:		206H		API NO: 47-009-00330	
DISTRICT:		COUNTY:		DRAWN BY: Z.WOOD	
BUFFALO		BROOKE/OHIO		SCALE: N/A	
		STATE:		DRAWING NO: 2017-220	
		WV		WELL LOCATION PLAT	