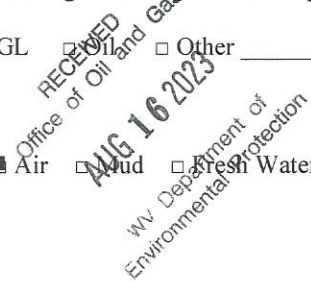


State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-009-00329 County BROOKE District BUFFALO
Quad BETHANY WV Pad Name MIKE RYNIAWEC-BRK-PAD1 Field/Pool Name PANHANDLE FIELD WET
Farm name SWN PRODUCTION COMPANY, LLC Well Number MIKE RYNIAWEC BRK 6H
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 4,448,989.56 Easting 533,258.22
Landing Point of Curve Northing 4,448,934.04 Easting 533,030.99
Bottom Hole Northing 4,444,205.51 Easting 534,994.71

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 4/13/2023 Date drilling ceased 5/6/2023
Date completion activities began 5/25/2023 Date completion activities ceased 6/14/2023
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 - 00329 Farm name SWN PRODUCTION COMPANY, LLC Well number MIKE RYNIAWEC BRK 6H

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	406'	NEW	J-55/54.5#		Y/22 BBLs
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1,695'	NEW	J-55/36#		Y/21 BBLs
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	23,597'	NEW	HCP-110/20#		N
Tubing		2.875	6,361'	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 ³ /sks)	Volume (ft ³)	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	SEE SURFACE						
Intermediate 1	CLASS A	611	15.60	1.19	727.09	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4,785	15.00	1.29	6,172.65	3,650'	24
Tubing							

Drillers TD (ft) 23,597' Loggers TD (ft) 23,597'
 Deepest formation penetrated MARCELLUS Plug back to (ft) 23,508'
 Plug back procedure N/A

Kick off depth (ft) 5,280' MD

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

RECEIVED
Office of Oil and Gas
AUG 16 2023
WV Department of Environmental Protection

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

SURFACE: 6 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 INTERMEDIATE: 21 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 497 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 _____



Well Name: **MIKE RYNIAWEC BRK 6H** 47009003290000

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)	1511.00	1505.00	1701.00	1692.00	
Berea (siltstone)	1943.00	1925.00	2023.00	2002.00	
Rhinestreet (shale)	5550.00	5347.00	5882.00	5653.00	
Middlesex (shale)	5882.00	5653.00	5988.00	5734.00	
Tully (ls)	5988.00	5734.00	6073.00	5791.00	
Mahantango (shale)	6073.00	5791.00	6270.00	5885.00	
Marcellus (shale)	6270.00	5885.00	NA	NA	GAS

RECEIVED
Office of Oil and Gas
AUG 16 2023
WV Department of
Environmental Protection

MIKE RYNIAWEC BRK 6H

ATTACHMENT 1

PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	5/18/2023	23,508	23,417	36
2	5/26/2023	23,383	23,206	36
3	5/26/2023	23,173	22,996	36
4	5/26/2023	22,963	22,786	36
5	5/26/2023	22,753	22,577	36
6	5/26/2023	22,544	22,367	36
7	5/27/2023	22,334	22,157	36
8	5/27/2023	22,124	21,947	36
9	5/27/2023	21,914	21,737	36
10	5/27/2023	21,704	21,527	36
11	5/27/2023	21,494	21,317	36
12	5/27/2023	21,284	21,107	36
13	5/28/2023	21,074	20,898	36
14	5/28/2023	20,865	20,688	36
15	5/28/2023	20,655	20,478	36
16	5/28/2023	20,445	20,268	36
17	5/28/2023	20,235	20,058	36
18	5/28/2023	20,025	19,848	36
19	5/28/2023	19,815	19,638	36
20	5/28/2023	19,605	19,429	36
21	5/29/2023	19,396	19,219	36
22	5/29/2023	19,186	19,009	36
23	5/29/2023	18,976	18,799	36
24	5/29/2023	18,766	18,589	36
25	5/29/2023	18,556	18,379	36
26	5/29/2023	18,346	18,169	36
27	5/29/2023	18,136	17,959	36
28	5/29/2023	17,926	17,750	36
29	5/30/2023	17,717	17,540	36
30	5/30/2023	17,507	17,330	36
31	5/30/2023	17,297	17,120	36
32	5/30/2023	17,087	16,910	36
33	5/30/2023	16,877	16,700	36
34	5/30/2023	16,667	16,490	36
35	5/30/2023	16,457	16,281	36
36	5/30/2023	16,248	16,071	36
37	5/31/2023	16,038	15,861	36
38	5/31/2023	15,828	15,651	36
39	5/31/2023	15,618	15,441	36
40	5/31/2023	15,408	15,231	36
41	5/31/2023	15,198	15,021	36
42	5/31/2023	14,988	14,811	36

RECEIVED
Office of Oil and Gas
AUG 16 2023
WV Department of Environmental Protection

MIKE RYNIAWEC BRK 6H

ATTACHMENT 1

PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
43	5/31/2023	14,779	14,602	36
44	5/31/2023	14,569	14,392	36
45	5/31/2023	14,359	14,182	36
46	6/1/2023	14,149	13,972	36
47	6/1/2023	13,939	13,762	36
48	6/1/2023	13,729	13,552	36
49	6/1/2023	13,519	13,342	36
50	6/1/2023	13,309	13,133	36
51	6/1/2023	13,100	12,923	36
52	6/1/2023	12,890	12,713	36
53	6/1/2023	12,680	12,503	36
54	6/2/2023	12,470	12,293	36
55	6/2/2023	12,260	12,083	36
56	6/2/2023	12,050	11,873	36
57	6/2/2023	11,840	11,664	36
58	6/2/2023	11,631	11,454	36
59	6/2/2023	11,421	11,244	36
60	6/2/2023	11,211	11,034	36
61	6/2/2023	11,001	10,824	36
62	6/3/2023	10,791	10,614	36
63	6/3/2023	10,581	10,404	36
64	6/3/2023	10,371	10,194	36
65	6/3/2023	10,161	9,985	36
66	6/3/2023	9,952	9,775	36
67	6/3/2023	9,742	9,565	36
68	6/3/2023	9,532	9,355	36
69	6/3/2023	9,322	9,145	36
70	6/3/2023	9,112	8,935	36
71	6/4/2023	8,902	8,725	36
72	6/4/2023	8,692	8,516	36
73	6/4/2023	8,483	8,306	36
74	6/4/2023	8,273	8,096	36
75	6/4/2023	8,063	7,886	36
76	6/4/2023	7,853	7,676	36
77	6/4/2023	7,643	7,466	36
78	6/4/2023	7,433	7,256	36
79	6/4/2023	7,223	7,046	36
80	6/4/2023	7,013	6,836	36
81	6/4/2023	6,804	6,627	36
82	6/5/2023	6,594	6,417	36

RECEIVED
 Office of Oil and Gas
 AUG 16 2023
 Department of
 Environmental Protection

MIKE RYNIAWEC BRK 6H

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
1	5/25/2023	76.8	8,710	6,338	4,277	192,500	5,883	0
2	5/26/2023	92.3	8,991	4,850	4,885	367,500	7,808	0
3	5/26/2023	90.4	9,286	5,132	4,785	315,000	7,242	0
4	5/26/2023	88.7	9,589	5,441	4,525	302,500	6,847	0
5	5/26/2023	85.2	8,716	5,226	4,485	315,000	7,087	0
6	5/27/2023	88.2	9,420	6,560	4,225	315,000	6,872	0
7	5/27/2023	87.5	9,512	6,125	4,425	318,300	6,450	0
8	5/27/2023	92.8	9,568	6,123	4,352	315,000	7,402	0
9	5/27/2023	94.1	9,630	5,886	4,685	315,000	7,154	0
10	5/27/2023	92.9	9,513	5,887	4,665	310,720	6,680	0
11	5/27/2023	91.1	9,580	4,860	4,933	315,000	6,733	0
12	5/28/2023	91.6	9,468	5,845	4,575	315,000	6,634	0
13	5/28/2023	92.3	9,408	5,695	4,709	315,000	6,605	0
14	5/28/2023	91.3	9,109	6,274	4,585	315,000	6,962	0
15	5/28/2023	81	8,695	6,445	4,875	315,000	6,989	0
16	5/28/2023	96.9	9,319	6,086	4,825	315,000	7,126	0
17	5/28/2023	95.5	9,068	6,278	4,897	315,000	7,032	0
18	5/28/2023	92.7	9,193	6,025	4,700	320,800	6,762	0
19	5/28/2023	92.8	9,471	6,262	4,925	320,000	6,639	0
20	5/29/2023	88.4	8,999	5,857	4,852	320,000	6,598	0
21	5/29/2023	85.8	8,895	6,500	4,852	290,000	6,188	0
22	5/29/2023	92.6	8,722	5,949	4,214	315,000	7,024	0
23	5/29/2023	84.6	8,485	6,585	4,685	315,000	7,121	0
24	5/29/2023	97.9	9,201	5,789	4,859	315,000	7,248	0
25	5/29/2023	97.1	9,285	5,912	4,896	315,000	6,850	0
26	5/29/2023	91.6	9,708	6,311	4,865	315,000	6,578	0
27	5/29/2023	93	9,401	6,354	4,885	320,000	6,513	0
28	5/29/2023	89	9,214	6,225	4,615	320,000	6,610	0
29	5/30/2023	77.3	8,847	6,267	4,852	315,000	6,314	0
30	5/30/2023	93.8	8,535	5,395	4,985	315,000	6,751	0
31	5/30/2023	93.6	8,845	6,244	3,785	315,000	6,662	0
32	5/30/2023	98.3	9,138	6,296	4,858	315,000	6,085	0
33	5/30/2023	94.6	9,024	6,394	4,897	315,000	6,662	0
34	5/30/2023	95	8,427	5,264	4,850	320,000	6,605	0
35	5/30/2023	92.4	9,194	6,531	4,865	320,000	6,501	0
36	5/30/2023	93	9,099	6,336	4,850	320,000	6,264	0
37	5/31/2023	92.3	9,246	6,346	4,925	320,000	6,334	0
38	5/31/2023	92.1	9,767	6,075	4,885	320,000	6,296	0
39	5/31/2023	96.9	8,887	6,043	4,896	320,000	6,456	0
40	5/31/2023	97.8	8,816	5,785	4,985	315,000	6,414	0
41	5/31/2023	97.8	8,869	5,580	4,297	315,000	6,377	0
42	5/31/2023	95.8	8,853	6,354	4,852	315,000	6,438	0
43	5/31/2023	94.4	9,263	6,243	5,100	315,000	6,207	0
44	5/31/2023	93.5	8,867	6,049	4,951	315,000	6,642	0
45	5/31/2023	92	8,334	5,837	4,240	315,000	6,209	0
46	6/1/2023	92.5	8,605	6,221	4,720	315,000	6,971	0
47	6/1/2023	96.9	8,419	6,252	7,895	315,000	6,512	0
48	6/1/2023	96.7	8,643	5,903	4,785	315,000	7,723	0
49	6/1/2023	98	8,649	5,861	4,685	315,000	6,436	0

RECEIVED
 Department of Oil and Gas
 Environmental Protection
 AUG 16 2023

MIKE RYNIAWEC BRK 6H

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
50	6/1/2023	92.2	9,064	6,351	4,758	315,000	6,527	0
51	6/1/2023	93.3	8,408	6,002	4,952	315,000	6,136	0
52	6/1/2023	92.8	8,636	6,188	4,856	315,000	5,977	0
53	6/1/2023	92.3	8,242	6,041	4,787	315,000	5,704	0
54	6/2/2023	88.1	7,725	6,203	4,700	315,000	6,096	0
55	6/2/2023	87.7	7,417	5,922	4,685	315,000	6,040	0
56	6/2/2023	96.9	8,200	6,296	4,568	315,000	6,306	0
57	6/2/2023	97.2	8,012	6,286	4,585	315,000	6,295	0
58	6/2/2023	94.9	7,532	6,266	4,685	315,000	6,078	0
59	6/2/2023	90.2	7,879	6,208	4,856	315,000	5,995	0
60	6/2/2023	84.5	7,250	6,088	4,852	315,000	5,924	0
61	6/2/2023	77.7	7,038	6,001	4,320	315,000	5,533	0
62	6/3/2023	86.1	7,134	6,283	4,720	315,000	5,879	0
63	6/3/2023	92.7	7,412	6,192	4,685	315,000	5,968	0
64	6/3/2023	97.9	7,482	5,794	4,785	315,000	6,158	0
65	6/3/2023	99.9	7,241	5,864	4,658	315,000	6,125	0
66	6/3/2023	95.5	7,220	5,926	4,652	315,000	6,007	0
67	6/3/2023	97.7	7,361	6,008	4,856	315,000	6,012	0
68	6/3/2023	94.1	7,514	6,081	4,657	281,480	5,519	0
69	6/3/2023	85.7	6,993	6,073	4,954	315,000	5,865	0
70	6/4/2023	84.1	6,815	6,027	4,356	315,000	5,836	0
71	6/4/2023	89.7	6,757	5,975	4,206	315,000	5,865	0
72	6/4/2023	87.1	6,618	5,901	4,585	315,000	5,864	0
73	6/4/2023	99.2	6,951	5,668	4,458	315,000	6,008	0
74	6/4/2023	97.6	6,859	5,744	4,358	315,000	5,900	0
75	6/4/2023	99.2	7,174	6,036	4,458	272,980	5,372	0
76	6/4/2023	99.9	6,849	5,869	4,785	315,000	5,980	0
77	6/4/2023	96.7	6,657	5,678	4,674	315,000	5,853	0
78	6/4/2023	96.8	6,839	6,141	4,845	315,000	5,867	0
79	6/4/2023	96.1	6,758	5,930	4,200	315,000	6,059	0
80	6/4/2023	95.7	6,999	6,190	4,645	315,000	6,057	0
81	6/4/2023	94.2	6,618	6,148	4,645	315,000	5,854	0
82	6/5/2023	95	6,243	4,987	4,852	315,000	5,657	0

RECEIVED
Office of Oil and Gas
AUG 16 2023
WV Department of
Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/25/2023
Job End Date:	6/5/2023
State:	West Virginia
County:	Brooke
API Number:	47-009-00329-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	MIKE RYNIWEC BRK 6
Latitude:	40.19063671
Longitude:	-80.60928748
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,010
Total Base Water Volume (gal):	21,935,664
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 Office of Oil and Gas Environmental Protection	Base Fluid	Water	7732-18-5	100.00000	87.28919	Density = 8.345
Ingredients	Listed Above	Listed Above	Water	7732-18-5	45.00000	0.35573	

RECEIVED
 AUG 16 2023
 West Virginia Department of Environmental Protection

				Water	7732-18-5	85.00000	0.35573	
				Water	7732-18-5	100.00000	0.35573	
Tolicide 4Frac	SWN Well Services	Biocide			Listed Below			
HCL	SWN Well Services	Solvent			Listed Below			
Plexslick 930	SWN Well Services	Friction Reducer			Listed Below			
Plexaid 655NM	SWN Well Services	Scale Inhibitor			Listed Below			
Sand	SWN Well Services	Proppant			Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor			Listed Below			
Ferriplex 80	SWN Well Services	Iron Control			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	12.25594	
				Hydrochloric Acid	7647-01-0	15.00000	0.05269	

RECEIVED
 AUG 16 2003
 W. Department of
 Environmental Protection

Via Federal Express

August 15, 2023

State of West Virginia
Department of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RECEIVED
Office of Oil and Gas
AUG 16 2023
WV Department of
Environmental Protection

RE: SWN Production Company, LLC
Operator ID: 494512924
Regulatory Filings: WR-34 & WR-35

To Whom It May Concern:

Please find enclosed form WR-34 Discharge Monitoring Report and WR-35 Operator's Report of Well Work along with supporting documentation, for the wells listed below:

API	Well Name
47-009-00329	MIKE RYNIAWEC BRK 6H
47-009-00330	MIKE RYNIAWEC BRK 206H

If you have any questions or require additional information, please contact me via email at denise_grantham@swn.com or telephone at (281) 620-9610.

Sincerely,



Denise Grantham
Regulatory Analyst
SW Appalachia Division

/dg
Encl.

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

7305'

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

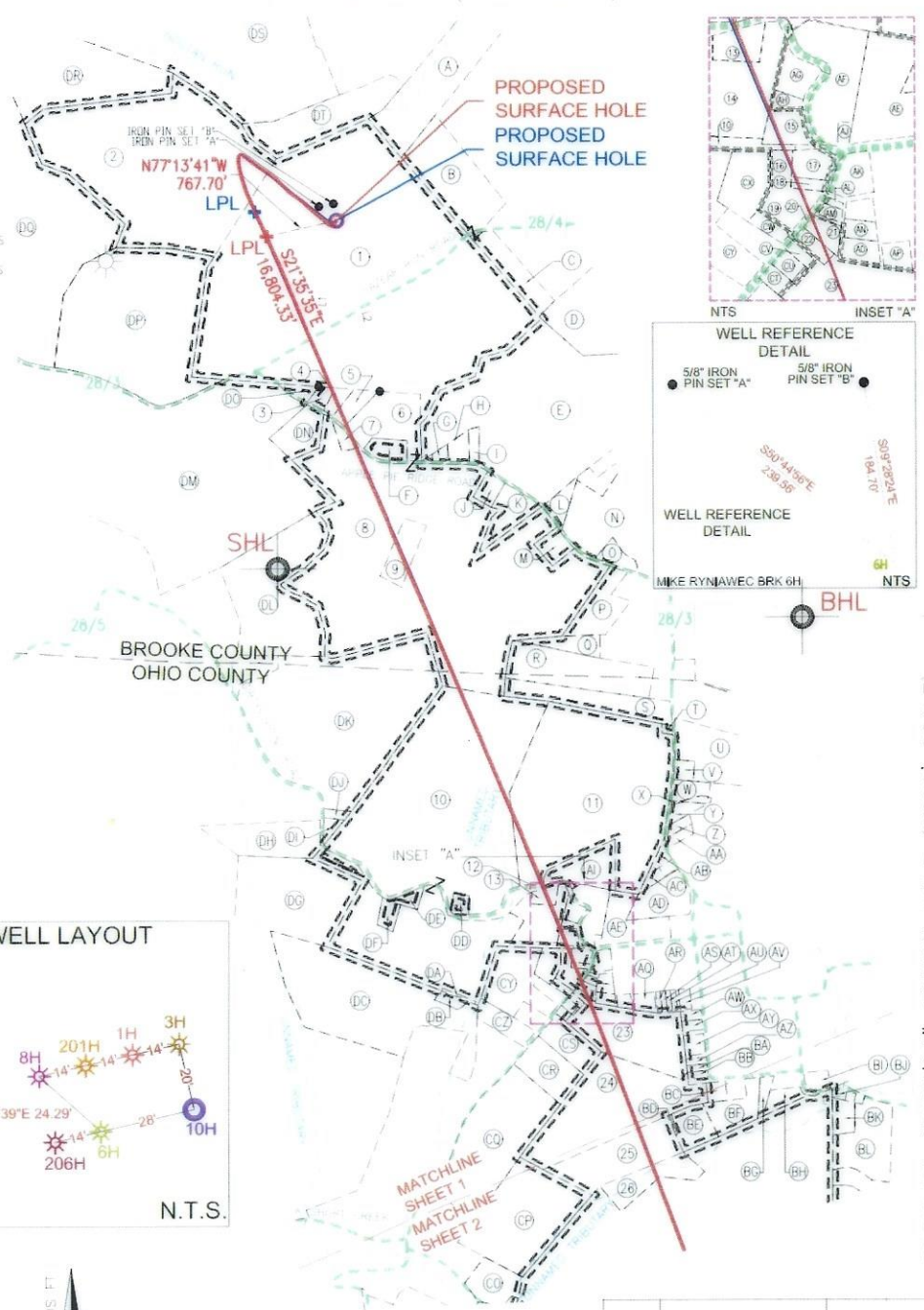
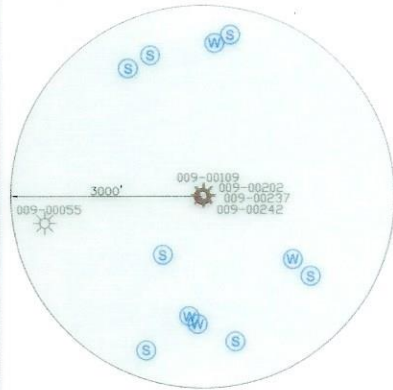
1689'



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

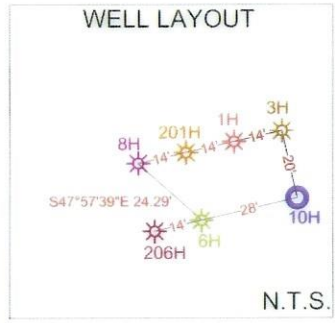
NOTES ON SURVEY

- 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.



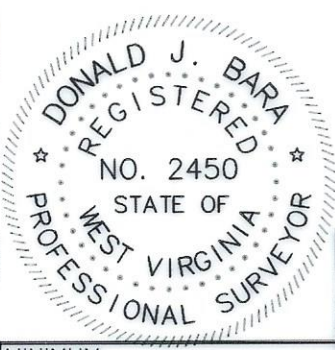
6988'
6462'
LONGITUDE: 80°35'00" BOTTOM HOLE (2000' SCALE)
LONGITUDE: 80°35'00" SURFACE HOLE (2000' SCALE)

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4448989.56 EASTING: 533258.22
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4448934.04 EASTING: 533030.99
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 444205.51 EASTING: 534994.71
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4448989.75 EASTING: 533258.18
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4449014.71 EASTING: 532992.17
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4444160.39 EASTING: 535013.55



LINE	BEARING	DISTANCE
L1	N06°15'54"E	1786.35'
L2	N14°02'50"W	1882.85'

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



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

COMPANY: **SWN** Production Company, LLC

MIKE RYNIWEC BRK 6H

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	OPERATOR'S WELL #:	6H
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	API WELL #:	47 STATE 009 COUNTY 00329 PERMIT

WELL TYPE: OIL	WASTE DISPOSAL	PRODUCTION <input checked="" type="checkbox"/>	DEEP	GAS <input checked="" type="checkbox"/>	LIQUID INJECTION	STORAGE	SHALLOW <input checked="" type="checkbox"/>
WATERSHED: UPPER OHIO SOUTH				ELEVATION: 1148.1'			
DISTRICT: BUFFALO				QUADRANGLE: BETHANY WV			
SURFACE OWNER: MIKE RYNIWEC				ACREAGE: ±102.0			
OIL & GAS ROYALTY OWNER: MIKE RYNIWEC				ACREAGE: ±102.0			
DRILL	DRILL DEEPER	REDRILL	FRACTURE OR STIMULATE	PLUG OFF OLD FORMATION	PERFORATE NEW FORMATION		
CONVERT	PLUG & ABANDON	CLEAN OUT & REPLUG	OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) AS-DRILLED				
TARGET FORMATION: MARCELLUS				ESTIMATED DEPTH: 6,098' TVD 23,599' 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		API NO: 47-009-00329
EXISTING / PRODUCING WELLHEAD	ACCESS ROAD	DRAWN BY: Z.WOOD
EXISTING LANDING POINT LOCATION	PUBLIC ROAD	SCALE: 1" = 2000'
EXISTING SURFACE HOLE / BOTTOM HOLE	FLOOD PLAN	DRAWING NO: 2017-220
PROPOSED SURFACE HOLE / BOTTOM HOLE	LEASE BOUNDARY	WELL LOCATION PLAT
PROPOSED LANDING POINT LOCATION	AS-DRILLED PATH	
	PROPOSED PATH	

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

7305'

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

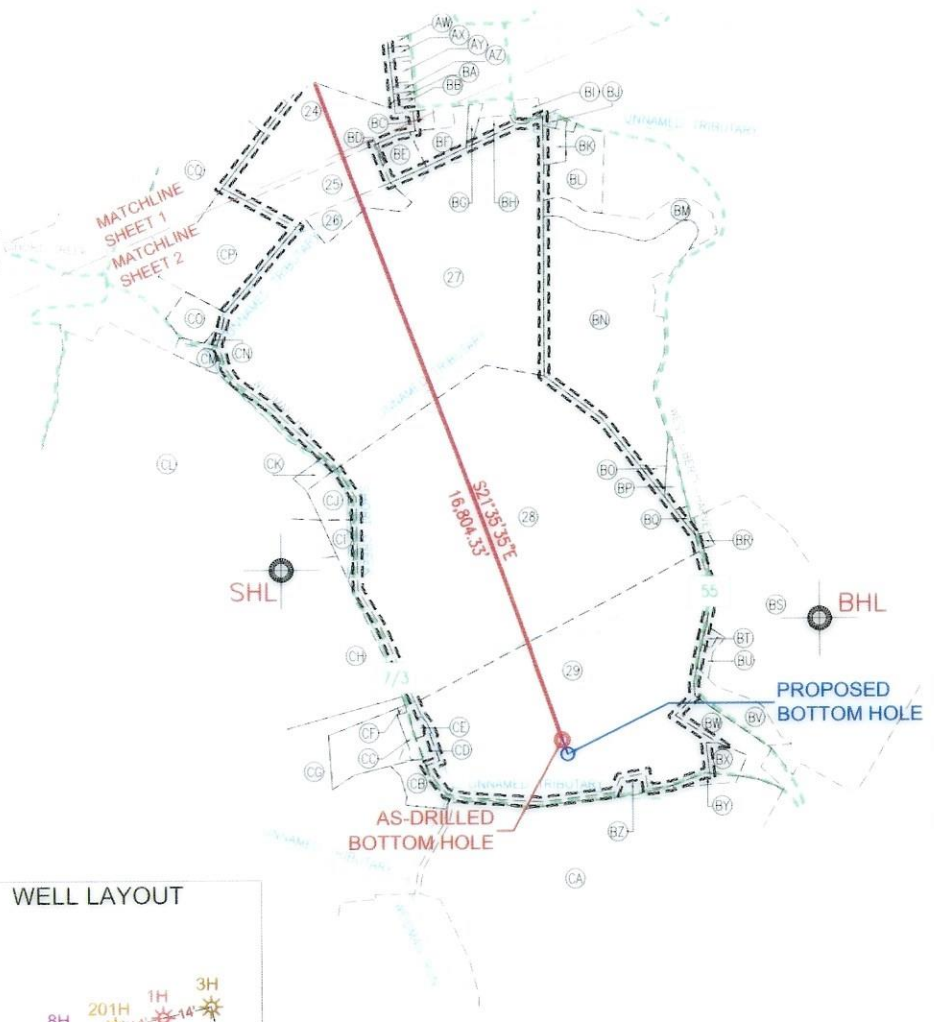
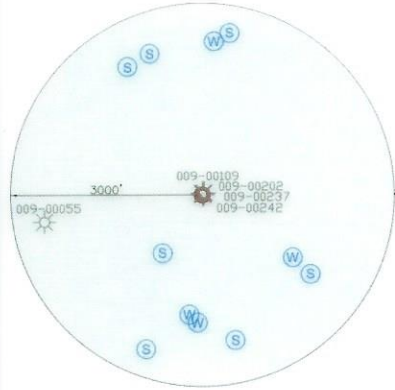
1689'



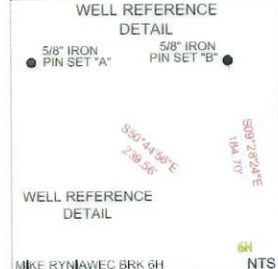
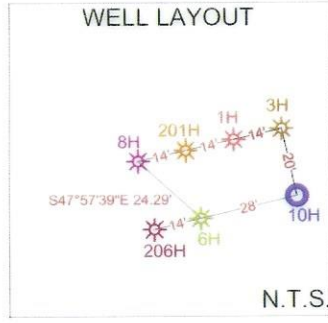
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

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.



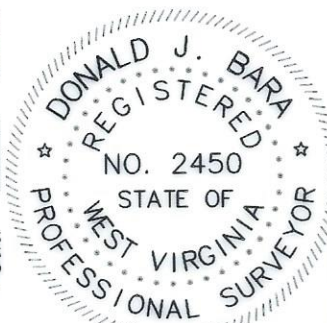
6988'
6462'
LONGITUDE: 80°35'00" BOTTOM HOLE (2000' SCALE)
LONGITUDE: 80°35'00" SURFACE HOLE (2000' SCALE)



LINE	BEARING	DISTANCE
L1	N06°15'54"E	1786.35'
L2	N14°02'50"W	1882.85'



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4448989.56 EASTING: 533258.22
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4448934.04 EASTING: 533030.99
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4444205.51 EASTING: 534994.71
SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4448989.75 EASTING: 533258.18
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4449014.71 EASTING: 532992.17
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4444160.39 EASTING: 535013.55



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

COMPANY: **SWN** Production Company, LLC

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)	MIKE RYNIWEC BRK OPERATOR'S WELL #: 6H API WELL #: 47 STATE 009 COUNTY 00329 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 SURFACE OWNER: MIKE RYNIWEC OIL & GAS ROYALTY OWNER: MIKE RYNIWEC	ELEVATION: 1148.1' QUADRANGLE: BETHANY WV ACREAGE: ±102.0 ACREAGE: ±102.0
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: 6,098' TVD 23,599' 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
--	--

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 — AS-DRILLED PATH — PROPOSED PATH	REVISIONS: DATE: 06-26-2023 API NO: 47-009-00329 DRAWN BY: Z.WOOD SCALE: 1" = 2000' DRAWING NO: 2017-220 WELL LOCATION PLAT
---	--

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	RYNIAWEC MIKE (S/R)	3-842-33
TRACT	SURFACE OWNER	TAX PARCEL
2	APPALACHIA MIDSTREAM SERVICES LLC	3-842-29
3	PAUGH LAWRENCE G & CATHIE SUE	3-847-21
4	MILLER JOHN D; NEWMAN JENNIFER LYN (SURV)	3-847-22
5	GREATHOUSE ROBERT E & LAURA G	3-847-25.1
6	DWYER CAROL	3-847-25
7	SPEECE THURMAN O JR & KATHY I	3-847-24
8	DWYER CAROL	3-847-25
9	DWYER CAROL	3-847-26
10	BONAR MATTHEW P	3-L1-4
11	ENNIS DEREK J & NICOLE L	3-L1-4.2
12	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	GIRTYS POINT ROAD
13	BONAR MATTHEW P	3-L1-21.3
14	BONAR MATTHEW P	3-L1-21.1
15	RICE MICHAEL A & DIANA L	9-WL3-3
16	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-53
17	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-51
18	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-52
19	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-58
20	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	STATE ROUTE 88
21	CONWAY CRAIG	9-WL3-69.1
22	STATE BOARD OF EDUCATION	9-WL3-68
23	PRALL CEMETERY	9-WL3-127
24	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.8
25	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.9
26	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.1
27	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35
28	MCGLUMPHY STEVEN & LORI - TOD	3-L4-110.3
29	MCGLUMPHY STEVEN & LORI - TOD	3-L4-110
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	WINDSOR POWER HOUSE COAL CO	3-842-55
B	SMITH RALPH O & GINA L	3-842-64
C	TURNER DOUGLAS L & BELINDA	3-842-35
D	SCHWERTFEGER NOEL R	3-842-40
E	DWYER CAROL G	3-847-30
F	DWYER PHILIP R CORISSA	3-847-25.4
G	WILHELM SCOTT T	3-847-28.1
H	ABERCROMBIE WAYNE A JR	3-847-28
I	DWYER CAROL G	3-847-29
J	HOOD RONALD J & BETH A	3-847-27
K	HOOD BETH ANN	3-847-25.2
L	HARWATT TERRY D	3-847-32.1
M	DWYER CAROL	3-847-25.3
N	HARWATT EDITH R & TERRY D; NEIL, SUZANNE	3-847-32
O	HARWATT TERRY D	3-847-32.2
P	ROEDER SUSAN IRENE; FRANCIS GLEN ETAL	3-847-34
Q	MILVET ROBERT W & EDITH A	3-847-42
R	ENNIS DEREK J & NICOLE L	3-847-43
S	ENNIS DEREK J & NICOLE L	3-L1-43
T	AMERICAN TOWERS LLC	9-WL1-14
U	VARGO DANIEL J & COURTNEY D	9-WL1-3
V	VARGO DANIEL J & COURTNEY D	9-WL1-4
W	VARGO DANIEL J & COURTNEY D	9-WL1-9.3
X	BUKOVAC DEBORAH J & THOMAS W	9-WL1-9.1
Y	BUKOVAC DEBORAH J & THOMAS W	9-WL1-9
Z	PETTIT BERNARD R	9-WL1-10
AA	PETTIT BERNARD R	9-WL1-11
AB	WISE ROBERT S & JANET L	9-WL3-127.1
AC	DAILEY JERALDINE W	9-WL3-130
AD	CLARK R L JR & C L HLEBICZKI	9-WL3-131
AE	LIBERTY HIGH SCHOOL	9-WL3-7
AF	ENNIS PROPERTIES LLC	3-L1-4.4
AG	BLASKOVICH FRANK JR & BLASKOVICH JENNIFER D	9-WL3-1
AH	BLASKOVICH FRANK JR & J D	9-WL3-2
AI	ENNIS PROPERTIES LLC	3-L1-4.5
AJ	MASONIC LODGE 26 A F A M	9-WL3-6
AK	CHRISTIAN CHURCH AT W LIBERTY TRUSTEES	9-WL3-50
AL	RYAN JEFFREY W & JULIE L	9-WL3-70
AM	RYAN JEFFREY W HILL JULIE L	9-WL3-69
AN	PAJAK SHARON L & CLARK W	9-WL3-73
AO	BONAR MATTHEW P & TAMARA A	9-WL3-74
AP	BALL HOLDINGS LLC	9-WL3-74.1
AQ	POSTLEWAIT RENEE L C/O WESBANCO TRUST DEPT	9-WL3-114
AR	HUNTER BRITTANY N	9-WL3-113
AS	HUNTER BRITTANY N	9-WL3-112
AT	APPLEBY LORA L	9-WL3-111
AU	COMER JAMES L & D L	9-WL3-110
AV	PAVLIC CHARMINE M	9-WL3-109.1

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AW	SCHRAMM JEANNE V	9-WL3-117.1
AX	SCHRAMM JEANNE V	9-WL3-117
AY	SCHRAMM JEANNE V	9-WL7-1
AZ	PELLEN HESTER S & PHILLIP	9-WL7-24
BA	GOOCH CLARA S GOOCH RICKY L	9-WL7-25
BB	PELLEN HESTER S & P	9-WL7-26
BC	MILLER THOMAS F & K L	9-WL7-28
BD	BOARD OF EDUCATION	9-WL7-30.2
BE	BOARD OF EDUCATION	9-WL7-30.1
BF	WHEELING POWER CO WHEELING ELECTRIC CO	9-WL7-30.3
BG	READ DAVID T - TOD	9-WL7-30
BH	FOWLER RUTH M - TOD	9-WL7-31
BI	GRAHAM SCOTTIE W & CONNIE M	9-WL7-16.1
BJ	WILSON MARK W & DAWN L	3-L1-39.11
BK	BECK DAVID LEE	3-L1-39.7
BL	BECK DAVID L	3-L1-39.12
BM	BEAVER JAMES H & ROBIN L	3-L1-39.14
BN	DUVALL MARK A	3-L1-39.1
BO	DUVALL ISRAEL R & MEGAN L BIRKINSHA	3-L1-39.13
BP	DUVALL ROBERT E & E C	3-L4-111.2
BQ	THOMAS KALIB	3-L4-111.3
BR	DUVALL ROBT E & E C	3-L4-111.1
BS	KAUFMAN MARK P & ANNELIESE	3-L5-2
BT	PORTER TODD E	3-L4-125
BU	PORTER TODD E	3-L5-2.1
BV	KAUFMAN MARK P & ANNELIESE	3-L5-2.2
BW	PATTERSON WILLIAM S JR	3-L4-115
BX	NORMAN MARK E	3-L4-110.2
BY	APPALACHIA MIDSTREAM SERVICES LLC	3-L4-114
BZ	APPALACHIA MIDSTREAM SVCS LLC	3-L4-110.1
CA	APPALACHIAN MIDSTREAM SERVICES LLC	3-L4-117
CB	WINDSOR POWER HOUSE COAL CO C/O CNX LAND - PROPERTY TAX	3-L4-105.7
CC	RIDLER B G; TALLMON J M	3-L4-106
CD	RIDLER B G; TALLMON J M	3-L4-113
CE	GILBERT DONALD E JR	3-L4-112
CF	LAUDERMILT DIXIE M & L - 1999	3-L4-106.1
CG	HOLLAND PARK LIMITED LIABILITY C/O PAUL LEE C III	3-L4-105
CH	HONECKER ELIZABETH; C/O HONECKER JANET (LE)	3-L4-104
CI	WARNER DENNY A (BUYER) BARKER CAROLYN S (SELLER)	3-L4-104.5
CJ	HUNTER JASON O	3-L4-104.1
CK	HUNTER JASON O	3-L4-104.2
CL	HONECKER JANET L; HONECKER ELIZABETH	3-L4-103
CM	MONROE TIMOTHY L ET AL	9-WL10-11
CN	PERRY MARY P	9-WL10-14
CO	FOWLCON LIMITED LIABILITY CO	9-WL10-13
CP	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.4
CQ	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.5
CR	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.6
CS	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.7
CT	STATE BOARD OF EDUCATION WEST LIBERTY STATE COLLEGE	9-WL3-65
CU	TURNER LEON W & O S	9-WL3-66
CV	DEENIS GREGORY R LASCH META M	9-WL3-67
CW	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-60
CX	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-54
CY	WEST LIBERTY FEDERATED CHURCH TRUSTEES	9-WL3-62.1
CZ	CATHOLIC DIOCESE OF WHEELING - CHARLESTON	9-WL2-1
DA	WEST RENTALS INC	3-L1-4.3
DB	WEST LIBERTY UNIVERSITY	3-L1-22.1
DC	WEST RENTALS INC	3-L1-22
DD	BONAR CHARLOTTE R	3-L1-21
DE	ROTHERMUND THOMAS F & MM	3-L1-4.1
DF	BONAR CHARLOTTE R	3-L1-21.2
DG	SAMPSON DALE M	3-L1-24
DH	PATTERSON GARRET L	3-L1-3
DI	DAVIS ALLEN O - LE; J R GALLETINE & T A DAVIS	3-L1-2.1
DJ	BYHANNA TIMOTHY A	3-L1-2.3
DK	BONAR CHARLES W & CHARLOTTE R	3-L1-2.6
DL	SAYRE LAWRENCE & MARTHA (SURV)	3-847-14
DM	BUREK JOSEPH S & JANE M	3-847-19
DN	SUTER STETSON E & WENDY S	3-847-23
DO	PAUGH LAWRENCE GRANT	3-847-20
DP	FLUHARTY ELIZABETH ELLEN	3-847-18
DQ	MAYHEW KATHY LYNN & MICHAEL ETAL (SURV)	3-842-27
DR	APPALACHIA MIDSTREAM SERVICES LLC	3-842-31
DS	HEINZEROTH HENRY	3-842-32
DT	BONAR JAMES L ETAL	3-842-54

REVISIONS:

COMPANY:					
OPERATOR'S		MIKE RYNIWEC BRK		DATE: 06-26-2023	
WELL #:		6H		API NO: 47-009-00329	
DISTRICT:		COUNTY:		DRAWN BY: Z.WOOD	
BUFFALO		BROOKE/OHIO		SCALE: N/A	
		STATE:		DRAWING NO: 2017-220	
		WV		WELL LOCATION PLAT	