

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

API 47-009-00310 County BROOKE District CROSS CREEK  
Quad STEBENVILLE EAST, WV Pad Name STATE OF WV DNR C BRK PAD Field/Pool Name PANHANDLE FIELD WET  
Farm name STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION Well Number STATE OF WV DNR C BRK 8H  
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 4,461,423.177 Easting 539,281.351  
Landing Point of Curve Northing 4,461,324.346 Easting 539,427.478  
Bottom Hole Northing 4,455,389.390 Easting 541,763.583

Elevation (ft) 988.6' 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 1/21/2021 Date drilling commenced 1/08/2021 Date drilling ceased 3/16/2021  
Date completion activities began 4/18/2021 Date completion activities ceased 5/21/2021  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 371 Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 575 Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 549 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:  
Brian Stallyn  
09/10/2021

API 47- 009 - 00310 Farm name \_\_\_\_\_ Well number STATE OF WV DNR C BRK 8H

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	425	NEW	J-55/54.50#	169.6	Y, 25 BBLs
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	1,390	NEW	J-55/36#		Y, 29 BBLs
Intermediate 2	12.25	9.625					
Intermediate 3							
Production	8.75/8.50	5.5	27,001	NEW	HCP-110/20#		Y, 85 BBLs
Tubing		2.375	6,006	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	364	15.60	1.20	436.8	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	693	15.60	1.19	824.67	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4,674	15.60	1.30	6,076.2	SURFACE	24
Tubing							

Drillers TD (ft) 23,093' Loggers TD (ft) 23,093'  
 Deepest formation penetrated \_\_\_\_\_ Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 4,916

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

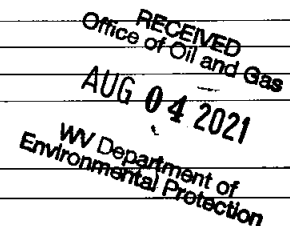
DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

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 \_\_\_\_\_





WR-35  
Rev. 8/23/13

API 47- 009 - 00310 Farm name STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES Well number STATE OF WV DNR C BRK 8H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
MARCUELLUS	5,567'	TVD	6,094' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump  
 SHUT-IN PRESSURE Surface 2136 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs  
 OPEN FLOW Gas Oil NGL Water GAS MEASURED BY  
2,956 mcfpd 1,008 bpd \_\_\_\_\_ bpd 2,784 bpd  Estimated  Orifice  Pilot

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

Logging Company BAKER HUGHES  
 Address 9110 GROGRANS MILL ROAD City THE WOODLANDS State TX Zip 77380

Cementing Company SCHLUMBERGER  
 Address 1080 US-33 City WESTON State WV Zip 26452

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

Please insert additional pages as applicable.

Completed by BOBBY WILLIS Telephone 832-796-2884  
 Signature  Title SENIOR REGULATORY ANALYST Date 8/3/2021



# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/17/2021
Job End Date:	5/9/2021
State:	West Virginia
County:	Brooke
API Number:	47-009-00310-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	STATE OF WV DNR C BRK 8
Latitude:	40.30239232
Longitude:	-80.53776928
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,736
Total Base Water Volume (gal):	34,534,290
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	88.76576	Density = 8.345
Ingredients	Operator	Listed Above	Water	7732-18-5	85.00000	0.33218	

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HCL	SWN Well Services	Solvent				Listed Below			
Econo-CI200	SWN Well Services	Corrosion Inhibitor				Listed Below			
Sand	SWN Well Services	Proppant				Listed Below			
Plexaid 655WG	SWN Well Services	Scale Inhibitor				Listed Below			
Ecopol-FEAC	SWN Well Services	Iron Control				Listed Below			
SWN FRW-11LC	SWN Well Services	Friction Reducer				Listed Below			
Tolicide PS 50A	SWN Well Services	Biocide				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			10.81486	
			Hydrochloric Acid	7647-01-0	15.00000			0.04505	
			Petroleum Distillates, Hydrotreated	64742-47-8	25.00000			0.02408	
			Tetrakis	55566-30-8	55.00000			0.00776	
			Glycerin	56-81-5	50.00000			0.00328	

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			Ammonium Chloride	12125-02-9	2.00000	0.00193
			Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00144
			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00144
			Diethylenetriamine penta	15827-60-8	10.00000	0.00066
			Acetic Acid	64-19-7	37.50000	0.00060
			Methanol	67-56-1	80.00000	0.00037
			Citric Acid	77-92-9	22.50000	0.00036
			Acrylic acid terpolymer	397256-50-7	1.00000	0.00014
			Oxyalkylated fatty acid	68951-67-7	9.67400	0.00004
			Fatty acids	61790-12-3	5.02700	0.00002
			Modified thiourea polymer	68527-49-1	4.74600	0.00002
			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)

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 ATTACHMENT 1  
 PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	4/12/2021	26,909	26,816	36
2	4/18/2021	26,712	26,605	36
3	4/18/2021	26,572	26,395	36
4	4/19/2021	26,362	26,185	36
5	4/19/2021	26,152	25,975	36
6	4/19/2021	25,942	25,765	36
7	4/21/2021	25,732	25,555	36
8	4/21/2021	25,522	25,345	36
9	4/21/2021	25,312	25,135	36
10	4/21/2021	25,102	24,925	36
11	4/22/2021	24,892	24,715	36
12	4/22/2021	24,682	24,505	36
13	4/22/2021	24,472	24,295	36
14	4/22/2021	24,262	24,085	36
15	4/22/2021	24,052	23,875	36
16	4/23/2021	23,842	23,665	36
17	4/23/2021	23,632	23,455	36
18	4/23/2021	23,422	23,245	36
19	4/23/2021	23,212	23,035	36
20	4/24/2021	23,002	22,825	36
21	4/24/2021	22,792	22,615	36
22	4/24/2021	22,580	22,405	36
23	4/24/2021	22,372	22,195	36
24	4/24/2021	22,162	21,985	36
25	4/25/2021	21,952	21,775	36
26	4/25/2021	21,742	21,565	36
27	4/25/2021	21,532	21,360	36
28	4/25/2021	21,322	21,145	36
29	4/26/2021	21,112	20,935	36
30	4/26/2021	20,902	20,725	36
31	4/26/2021	20,692	20,515	36
32	4/26/2021	20,482	20,305	36
33	4/27/2021	20,272	20,095	36
34	4/27/2021	20,062	19,882	36
35	4/27/2021	19,852	19,675	36
36	4/27/2021	19,645	19,465	36
37	4/27/2021	19,432	19,255	36
38	4/27/2021	19,222	19,045	36
39	4/28/2021	19,012	18,835	36
40	4/28/2021	18,802	18,625	36
41	4/28/2021	18,592	18,415	36
42	4/28/2021	18,382	18,205	36
43	4/29/2021	18,172	17,995	36
44	4/29/2021	17,962	17,785	36
45	4/29/2021	17,752	17,575	36
46	4/29/2021	17,542	17,365	36
47	4/29/2021	17,332	17,155	36
48	4/29/2021	17,122	16,945	36
49	4/30/2021	16,912	16,735	36
50	4/30/2021	16,707	16,525	36
51	4/30/2021	16,492	16,315	36

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STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
52	4/30/2021	16,282	16,105	36
53	4/30/2021	16,072	15,895	36
54	5/1/2021	15,862	15,685	36
55	5/1/2021	15,647	15,472	36
56	5/1/2021	15,443	15,269	36
57	5/1/2021	15,232	15,055	36
58	5/1/2021	15,022	14,845	36
59	5/1/2021	14,812	14,635	36
60	5/2/2021	14,602	14,425	36
61	5/2/2021	14,392	14,217	36
62	5/2/2021	14,182	14,005	36
63	5/2/2021	13,972	13,795	36
64	5/2/2021	13,762	13,585	36
65	5/3/2021	13,552	13,375	36
66	5/3/2021	13,342	13,165	36
67	5/3/2021	13,132	12,955	36
68	5/3/2021	12,920	12,743	36
69	5/3/2021	12,712	12,535	36
70	5/3/2021	12,502	12,325	36
71	5/4/2021	12,292	12,115	36
72	5/4/2021	12,082	11,905	36
73	5/4/2021	11,872	11,695	36
74	5/4/2021	11,662	11,485	36
75	5/4/2021	11,452	11,275	36
76	5/5/2021	11,242	11,065	36
77	5/5/2021	11,032	10,855	36
78	5/5/2021	10,822	10,645	36
79	5/5/2021	10,612	10,435	36
80	5/5/2021	10,402	10,225	36
81	5/6/2021	10,192	10,015	36
82	5/6/2021	9,982	9,805	36
83	5/6/2021	9,772	9,595	36
84	5/6/2021	9,562	9,385	36
85	5/6/2021	9,352	9,175	36
86	5/6/2021	9,142	8,965	36
87	5/7/2021	8,932	8,755	36
88	5/7/2021	8,722	8,545	36
89	5/7/2021	8,512	8,339	36
90	5/7/2021	8,302	8,125	36
91	5/7/2021	8,088	7,915	36
92	5/8/2021	7,882	7,705	36
93	5/8/2021	7,672	7,495	36
94	5/8/2021	7,462	7,285	36
95	5/8/2021	7,252	7,075	36
96	5/8/2021	7,042	6,865	36
97	5/8/2021	6,832	6,655	36
98	5/8/2021	6,625	6,447	36
99	5/8/2021	6,412	6,235	36
100	5/8/2021	6,198	6,025	36

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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/othr
1	4/18/2021	20	6,146	7,181	4,891	0	1,606	0
2	4/18/2021	69	7,029	6,202	4,221	361,040	11,171	0
3	4/18/2021	83	8,370	5,449	4,311	356,460	9,898	0
4	4/19/2021	88.3	8,446	4,485	4,469	355,710	9,870	0
5	4/19/2021	84.7	8,509	6,732	4,420	358,240	9,504	0
6	4/19/2021	90.31	8,249	6,128	3,542	364,260	13,860	0
7	4/21/2021	92.7	8,468	5,976	4,621	366,560	9,648	0
8	4/21/2021	92	8,403	5,986	4,591	356,260	9,140	0
9	4/21/2021	91.3	8,266	6,132	4,658	361,660	9,028	0
10	4/21/2021	92.8	8,335	6,232	5,021	360,800	9,550	0
11	4/22/2021	94.6	8,579	6,067	5,276	361,040	9,167	0
12	4/22/2021	94.7	8,203	5,693	4,632	360,680	9,059	0
13	4/22/2021	81.63	8,286	5,784	4,652	358,780	9,064	0
14	4/22/2021	87.9	8,298	6,227	4,709	357,080	8,966	0
15	4/23/2021	88	8,164	6,485	4,643	359,840	8,945	0
16	4/23/2021	89	8,221	6,225	4,516	358,080	8,846	0
17	4/23/2021	88.67	7,998	6,025	4,895	359,500	9,275	0
18	4/23/2021	93.2	8,153	5,250	5,374	357,640	8,752	0
19	4/23/2021	96.44	8,265	5,895	4,783	361,060	9,020	0
20	4/24/2021	81	8,139	6,557	4,772	358,560	8,952	0
21	4/24/2021	90.89	7,879	5,862	4,722	359,000	8,853	0
22	4/24/2021	97.8	7,943	4,987	4,878	359,100	8,556	0
23	4/24/2021	95.8	8,192	5,926	4,932	359,700	8,605	0
24	4/25/2021	96.5	8,048	5,210	5,082	359,340	8,559	0
25	4/25/2021	92	7,800	5,672	4,752	360,280	8,591	0
26	4/25/2021	98.33	8,042	4,897	4,621	356,340	9,215	0
27	4/25/2021	99.3	8,210	5,424	5,326	352,440	8,546	0
28	4/25/2021	90.1	8,072	5,786	4,711	358,640	8,510	0
29	4/26/2021	97.5	8,149	5,876	5,286	357,160	8,467	0
30	4/26/2021	99	7,990	4,892	4,681	356,760	8,618	0
31	4/26/2021	99.5	7,891	5,896	4,667	352,800	8,585	0
32	4/26/2021	90.2	8,126	5,648	4,636	356,680	8,427	0
33	4/27/2021	89.7	8,164	5,265	4,820	355,280	8,376	0
34	4/27/2021	89.8	7,931	5,742	4,701	361,180	8,467	0
35	4/27/2021	89.2	8,331	5,124	4,639	353,080	8,543	0
36	4/27/2021	88.4	8,124	5,681	4,715	355,100	8,515	0
37	4/27/2021	86.4	7,960	5,816	4,542	357,520	8,388	0
38	4/28/2021	87.3	8,136	5,325	4,644	364,900	8,349	0
39	4/28/2021	83.7	8,099	5,408	4,390	358,020	8,077	0
40	4/28/2021	87.22	8,082	6,350	4,539	358,400	8,131	0
41	4/28/2021	88	8,093	6,350	4,539	352,160	7,925	0
42	4/28/2021	94.9	8,344	5,293	4,544	360,780	8,032	0
43	4/29/2021	87.1	8,174	5,562	4,804	358,880	8,025	0
44	4/29/2021	91.8	8,084	5,694	4,332	356,400	8,015	0
45	4/29/2021	93.2	8,116	5,721	4,774	357,520	8,114	0
46	4/29/2021	97.1	8,139	5,730	4,665	355,820	8,021	0
47	4/29/2021	98	8,041	5,581	5,198	357,760	8,021	0
48	4/29/2021	88.1	8,011	5,631	5,062	355,260	7,864	0
49	4/30/2021	99.1	8,065	4,763	5,077	360,800	7,864	0
50	4/30/2021	93.9	8,134	5,708	4,421	357,440	7,866	0
51	4/30/2021	93.5	8,009	5,572	4,639	356,100	7,863	0
52	4/30/2021	98.2	8,157	5,439	4,822	355,060	7,837	0
53	4/30/2021	99.2	8,014	4,585	5,036	355,860	7,733	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	5/1/2021	99	8,043	5,219	4,581	354,720	7,902	0
55	5/1/2021	91.4	7,883	5,601	4,419	355,060	9,419	0
56	5/1/2021	95.7	7,910	5,471	4,332	348,940	7,755	0
57	5/1/2021	97.5	8,005	5,385	4,758	361,860	8,055	0
58	5/1/2021	98.1	8,120	5,201	4,859	360,820	7,756	0
59	5/1/2021	93.4	7,921	5,665	4,874	358,020	7,748	0
60	5/2/2021	100	7,795	4,803	4,758	357,100	7,756	0
61	5/2/2021	98.9	7,758	5,214	4,424	357,640	7,925	0
62	5/2/2021	99	7,614	5,881	4,285	358,520	8,007	0
63	5/2/2021	99.4	7,986	5,575	4,452	354,500	7,911	0
64	5/2/2021	100	7,800	5,443	3,407	358,980	7,936	0
65	5/3/2021	100	7,572	4,826	4,979	355,420	7,658	0
66	5/3/2021	99.3	8,074	5,724	4,268	353,260	8,143	0
67	5/3/2021	99.3	7,964	4,509	4,387	354,960	8,126	0
68	5/3/2021	98.9	8,020	5,488	4,721	352,400	7,842	0
69	5/3/2021	99.8	7,543	5,437	4,854	355,040	7,730	0
70	5/4/2021	99.69	7,801	5,356	4,509	357,480	8,069	0
71	5/4/2021	98.2	7,880	5,621	4,302	360,380	7,918	0
72	5/4/2021	98.8	7,751	5,788	4,383	350,940	7,880	0
73	5/4/2021	89.8	8,074	5,384	4,612	45,360	5,734	0
74	5/4/2021	100	7,476	5,237	4,728	352,840	7,740	0
75	5/4/2021	100	7,396	5,268	4,623	360,480	7,661	0
76	5/5/2021	99.2	7,660	5,306	4,287	363,060	7,699	0
77	5/5/2021	98.8	7,755	5,510	4,227	352,220	7,898	0
78	5/5/2021	99.8	7,468	5,230	4,184	354,000	7,830	0
79	5/5/2021	95.4	7,327	5,437	4,201	354,880	7,634	0
80	5/5/2021	96	7,153	5,202	4,187	361,120	7,845	0
81	5/6/2021	95.4	7,291	5,186	4,156	368,780	7,811	0
82	5/6/2021	100	7,410	5,288	4,339	363,520	7,917	0
83	5/6/2021	99.8	7,641	5,602	4,120	354,040	7,891	0
84	5/6/2021	93	7,353	5,150	4,136	355,280	7,952	0
85	5/6/2021	95.4	7,079	5,250	4,367	355,400	7,559	0
86	5/7/2021	95.9	7,071	5,380	4,193	355,220	7,632	0
87	5/7/2021	95.73	6,912	5,049	4,251	362,500	8,232	0
88	5/7/2021	99.7	6,862	5,124	4,336	363,080	7,867	0
89	5/7/2021	95	6,885	5,280	3,983	353,620	7,851	0
90	5/7/2021	99	6,784	5,304	4,303	361,980	7,976	0
91	5/8/2021	97.2	6,998	4,718	4,204	359,300	7,724	0
92	5/8/2021	95	7,175	4,581	4,172	357,760	7,728	0
93	5/8/2021	100	6,580	4,388	4,102	360,460	7,848	0
94	5/8/2021	100	6,434	4,421	4,252	363,040	7,830	0
95	5/8/2021	100	6,678	4,825	4,116	358,620	7,830	0
96	5/8/2021	100	6,319	4,789	4,357	357,860	7,745	0
97	5/8/2021	100	6,243	4,618	4,322	358,300	7,555	0
98	5/8/2021	96.6	6,764	4,613	4,129	354,920	7,897	0
99	5/8/2021	98.9	6,175	4,745	4,271	357,880	7,897	0
100	5/8/2021	98.4	6,278	4,457	4,175	355,360	7,897	0

RECEIVED  
 Office of Oil and Gas  
 AUG 04 2021  
 WV Department of Environmental Protection

09/10/2021



Well Name: State of WV DNR C BRK 8H 47009003100000

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	371.00	371.00	
Top of Salt Water	575.00	575.00	NA	NA	
Pittsburgh Coal	6.00	6.00	549.00	549.00	
Raven Cliff (ss)	549.00	549.00	805.00	805.00	
Maxton (ss)	805.00	805.00	1188.00	1186.00	
Big Injun (ss)	1188.00	1186.00	1389.00	1388.00	
Berea (siltstone)	1566.00	1564.00	5068.00	5045.00	
Rhinstreet (shale)	5068.00	5045.00	5341.00	5291.00	
Cashaqua (shale)	5341.00	5291.00	5396.00	5336.00	
Middlesex (shale)	5396.00	5336.00	5478.00	5397.00	
Burket (shale)	5478.00	5397.00	5497.00	5412.00	
Tully (ls)	5497.00	5412.00	5593.00	5474.00	
Mahantango (shale)	5593.00	5474.00	5778.00	5567.00	
Marcellus (shale)	5778.00	5567.00	NA	NA	GAS

RECEIVED  
Office of Oil and Gas  
AUG 04 2021  
WV Department of  
Environmental Protection

09/10/2021



Latitude: 40°20'00"

SURFACE HOLE 10,530'

BOTTOM HOLE 2,500'

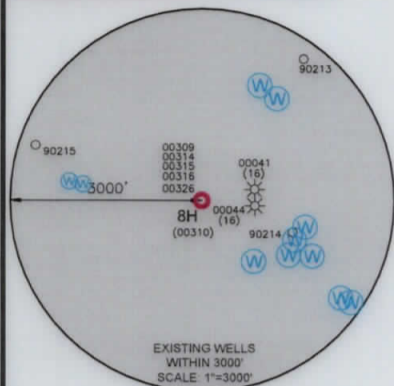
JACKSON SURVEYING INC. Latitude: 40°15'00"

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

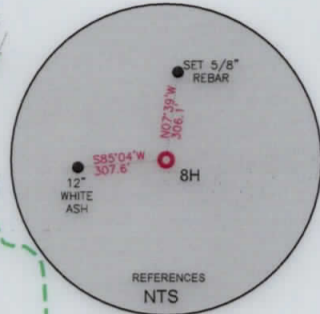


GRAPHIC SCALE IN FEET

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,423.177 EASTING: 539,281.351
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,324.346 EASTING: 539,427.478
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,455,389.390 EASTING: 541,763.583

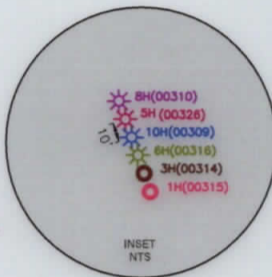


EXISTING WELLS  
WITHIN 3000'  
SCALE 1"=3000'



REFERENCES  
NTS

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,423.234 EASTING: 539,281.417
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,343.934 EASTING: 539,417.681
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,454,964.735 EASTING: 541,925.825



INSET  
NTS

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 67°57'43" W	1281.43'	SHL TO LANDMARK	2" IRON PIPE FOUND
L2	N 36°29'24" W	988.14'	SHL TO LANDMARK	STONE FOUND
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 55°55'41" E	578.78'	1175.37'	SHL TO LP

**WELL RESTRICTIONS**

1. NO OCCUPIED DWELLINGS > 2500 SQ. FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ. FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

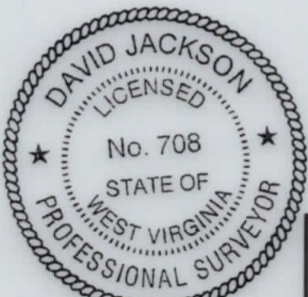
**NOTES ON SURVEY**

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.

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. 708

David L Jackson



COMPANY: **SWN** Production Company, LLC

STATE OF WV DNR C BRK  
OPERATOR'S WELL #: 8H  
API WELL #: 47 009 00310  
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 SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)

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

WATERSHED: NORTH FORK CROSS CREEK - CROSS CREEK (HUC-10) ELEVATION: 988.6'

DISTRICT: CROSS CREEK COUNTY: BROOKE QUADRANGLE: STEUBENVILLE EAST, WV

SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION ACREAGE: ±83.858

OIL & GAS ROYALTY OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION ACREAGE: ±83.858

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

CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY) **ASDRILLED** 09/10/2021

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,862 TVD 27,001 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

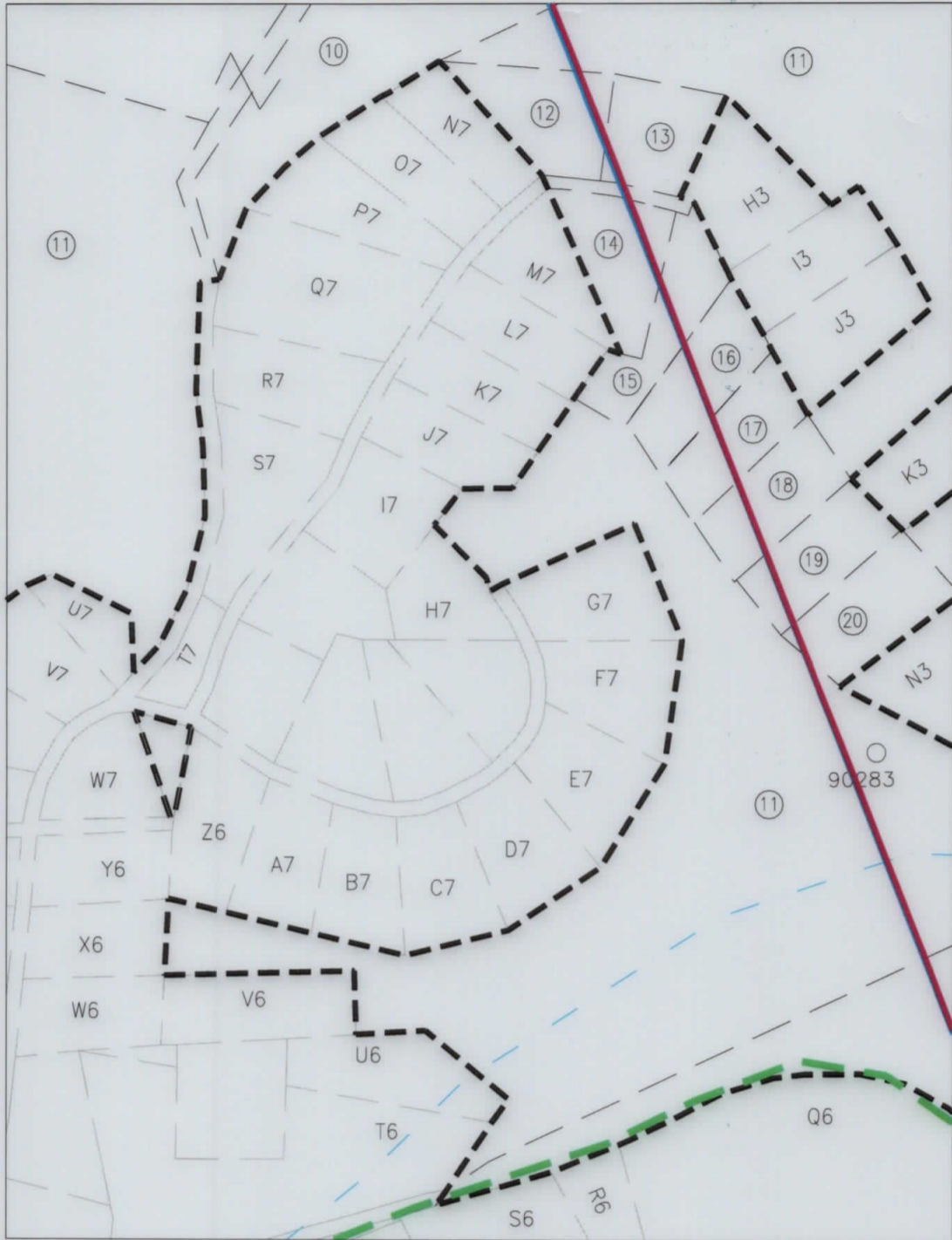
DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

<b>LEGEND:</b>	— SURVEYED BOUNDARY	<b>REVISIONS:</b>	DATE: 07-09-2021
● PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT		
★ EXISTING / PRODUCING WELLHEAD	— LEASE BOUNDARY		
LPL★ LANDING POINT LOCATION	— ASDRILLED PATH		DRAWN BY: N. MANO
⊙ EXISTING WATER WELL	— PROPOSED PATH		SCALE: 1" = 3000'
⊙ EXISTING SPRING	AZL★ AZIMUTH POINT LOCATION		DRAWING NO:
			WELL LOCATION PLAT





JACKSON SURVEYING  
 INC.  
 2413 EAST PIKE ST. # 112  
 Clarksburg, WV 26302  
 304-623-5851

SEE DETAIL "A"



09/10/2021

REVISIONS:		COMPANY:		 	
		OPERATOR'S STATE OF WV DNR C BRK		API:	DATE: 07-09-2021
		WELL #: 8H		47-009-00310	DRAWN BY: N. MANO
		DISTRICT:	COUNTY:	STATE:	SCALE: N/A
		CROSS CREEK	BROOKE	WV	DRAWING NO:
					WELL LOCATION PLAT 2



**JACKSON SURVEYING  
INC.**

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S/R)	4-CC20-06
TRACT	SURFACE OWNER	TAX PARCEL
2	SUSAN KAY PRONCHIK (S)	4-CC20-08
3	BARBARA J. MCCONNELL (S)	4-CC20-10
4	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC19-169
5	NICKOLES 3, LLC (S)	4-CC20-33
6	NORFOLK & WESTERN RAILWAY CO. (S)	4-C19K-18
7	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC23-325
8	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC24-03
9	MICHAEL OBER (S)	4-CC24-07
10	DEAN SMITH (S)	4-CC24-98
11	DEAN SMITH (S)	4-CC24-99
12	JOHN R. COOK & BEVERLY A. COOK (S)	04-CC24-97
13	WILLIAM L. MONK & TINA M. MONK (S)	4-CC24-99.4
14	BRIAN M. TAYLOR (S)	04-CC24-100
15	BRIAN TAYLOR (S)	4-CC24-99.5
16	BRIAN TAYLOR (S)	4-CC24-133
17	COREY T. CARROLL & KATELYN N. SWAGER (S)	4-CC24-134
18	RYAN E. HALL & NICOLE M. STANLEY (S)	4-CC24-137
19	JASON MICHAEL KUSIC & ALICIA RENEE KUSIC (S)	4-CC24-136
20	JOHN L. DAVIS & F. LYNN DAVIS (S)	4-CC24-145
21	MICHAEL D. JONES & LOIS J. JONES (S)	4-CC24-128
22	JOSEPH M. WHITE & RACHEL E. WHITE (S)	4-CC29-39.19
23	JOSEPH M. WHITE & RACHEL E. WHITE (S)	4-CC29-39.18
24	ELLEN CATTARUZZA (S)	4-CC29-39
25	JOSEPH E. CROSS JR. & JENNIFER L. CROSS (S)	4-CC29-39.17
26	JOSEPH E. CROSS JR. & JENNIFER L. CROSS (S)	4-CC29-39.21
27	DAVID H. MCCLAIN & KAREN MCCLAIN (S)	4-CC29-39.7
28	DEBRA CYPHERT, MATTHEW FAIR & SUSAN BRUFFY (S)	4-CC29-57
29	STATE LINE REAL ESTATE LLC (S)	370-004-00-00-0001-00
30	NICOLE R. SMITH & NEAL E. SMITH (S)	370-007-00-00-0001-02
31	RYAN M. SMITH & BROOKE N. SMITH (S)	370-007-00-00-0001-01
32	JOSEPH D. DEPETRO III (S)	370-007-00-00-0001-00
33	CHERYL BUTYA (S)	370-007-00-00-0002-01
34	ROBERT G. BRIGGS & NANCY L. BRIGGS (S)	370-007-00-00-0002-00
35	ROBERT G. McALPINE & RHONDA McALPINE (S)	370-007-00-00-0002-04
36	BROWNLEE LAND VENT LP (S)	370-007-00-00-0005-00
37	JOSEPH J. DEPETRO III (S)	370-011-00-00-0009-00

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	LINDY L. BLACK	04-CC20-07	Z	GREG NICKOLES & CAROL NICKOLES	04-C24B-14
B	JUDITH ANN BERNARDINI	04-CC20-09	A2	H3, LLC.	04-C24B-15
C	MICHAEL LEE BERNARDINI & JULIE LYNN BERNARDINI	04-CC20-44	B2	GREG NICKOLES & CAROL NICKOLES	04-C24B-16
D	LARRY E. REED	04-CC24-02	C2	RANDY L. NICKOLES	04-C24B-33
E	MICHAEL L. OBER	04-CC24-01	D2	RANDY L. NICKOLES	04-C24B-08
F	WILLIAM MORGAN ROUSE & DORIS J. ROUSE	04-CC20-20	E2	ANNETTE MILLER & FRANK MCQUILLIAN & ANNA MAE MCQUILLIAN	04-C24B-07
G	LINDY L. GALIANO & SANTY GALIANO	04-CC20-19.1	F2	GREGORY NICKOLES	04-C24B-06
H	EDWARD L. CARTER & DEBORAH C. CARTER	04-CC20-18	G2	DEBRA MCQUILLIAN & ANNETTE MILLER	04-C24B-27
I	EDWARD L. CARTER & DEBORAH C. CARTER	04-CC20-17	H2	DEBRA MCQUILLIAN & ANNETTE MILLER	04-C24B-28
J	ERIC T. GALIANO	04-CC20-16	I2	JANE KIERCE	04-C24B-04
K	ERIC T. GALIANO	04-CC20-14	J2	WVA DEPARTMENT OF HIGHWAYS	04-C24B-03
L	ERIC T. GALIANO	04-CC20-19	K2	EDWARD L. THOMPSON & CAROL J. THOMPSON	04-C24B-02
M	KEVIN MCCONNELL	04-CC20-11	L2	JEFFERY NICKOLES, RANDY NICKOLES & GREGORY NICKOLES	04-C24B-01
N	NORFOLK & WESTERN RAILWAY CO.	04-C24B-29	M2	JEFFERY O. NICKOLES	04-CC20-33.1
O	MICHAEL L. OBER	04-C24F-01	N2	JAMES JOHNSON & CHARLENE JOHNSON	04-CC20-43
P	MICHAEL L. OBER	04-C24F-10	O2	TIMOTHY J. DISERIO	04-CC20-42
Q	MICHAEL L. OBER	04-C24F-09	P2	ROBERT G. HIGGINBOTHAM JR.	04-CC20-41
R	JOSEPH SANTORO & LINA SANTORO	04-C24F-08	Q2	RON GASPARENE	04-CC20-40
S	ROBERT ANKROM & PEGGY ANKROM	04-C24F-12	R2	WILLIAM & MILDRED T. MARINO	04-CC20-35
T	ROBERT ANKROM & PEGGY ANKROM	04-C24F-13	S2	ROBERT & DELORIS CLINE	04-CC20-34
U	NORFOLK & WESTERN RAILWAY CO.	04-C19K-18	T2	WILLIAM MORGAN ROUSE & DORIS J. ROUSE	04-CC20-20
V	JAMES JOHNSON & CHARLENE JOHNSON	04-C24B-10	U2	DEBORAH K. SLIDAY	04-CC20-32
W	GREG NICKOLES & CAROL NICKOLES	04-C24B-11	V2	STATE OF WV DNR	04-CC20-25
X	GREG NICKOLES & CAROL NICKOLES	04-C24B-12	W2	CALVIN H. MYERS JR.	370-011-00-00-0022-00
Y	GREG NICKOLES & CAROL NICKOLES	04-C24B-13			

09/10/2021

REVISIONS:	COMPANY:				
	OPERATOR'S	STATE OF WV DNR C BRK		API:	DATE: 07-09-2021
	WELL #:	8H		47-009-00310	DRAWN BY: N. MANO
	DISTRICT:	CROSS CREEK	COUNTY:	STATE:	SCALE: N/A
			BROOKE	WV	DRAWING NO:
					WELL LOCATION PLAT 3





**JACKSON SURVEYING  
INC.**

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
X2	JEFFERSON QTW EXEMPT PROPERTY	380-014-00-00-0001-00	P4	GARY RUSH	370-011-00-00-0008-00
Y2	RANDY L. NICKOLES	380-015-00-00-0019-00	Q4	JOSEPH J. DEPETRO	370-011-00-00-0009-02
Z2	JEFFERY O. NICKOLES	04-C24B-09	R4	BROWNLEE LAND	370-011-00-00-0007-00
A3	PITTSBURGH & WVA RAILWAY CO	04-C24F-14	S4	RONALD BERNARD SENG & JOANNE ALICE SENG	370-011-00-00-0006-00
B3	JEFFERSON EXEMPT PROPERTY PITTSBURGH & WVA RAILWAY COMPANY	380-015-00-00-0011-00	T4	BELLVIEW CAMP MEETING ASSOC, LINDA HEPBURN	370-007-00-00-0003-00
C3	PITTSBURGH & WVA RAILWAY CO	380-015-00-00-0010-00	U4	LISA J. JACOBS & TERRY G. JACOBS	370-011-00-00-0009-01
D3	PITTSBURGH & WVA RAILWAY CO	380-015-00-00-0010-02	V4	PAUL A. CUNNINGHAM	370-007-00-00-0004-00
E3	WHEELING & LAKE ERIE RAILWAY	380-015-00-00-0010-01	W4	BROWNLEE LAND VENT, L.P.	370-011-00-00-0004-00
F3	ROBERT ROTELLINI & ANDREA L. PUSKARICH	380-015-00-00-0009-00	X4	BROWNLEE LAND VENTURES, L.P.	03-B34-66
G3	EUGENE CRUNY	04-CC24-130	Y4	BROWNLEE LAND VENTURES, L.P.	03-B34-78
H3	JASON D. DRUM & AMANDA R. DRUM	04-CC24-146	Z4	HIGHLAND SPRINGS GOLF COURSE, LLC	03-B29-18
I3	LARRY T. MAIN	04-CC24-99.8	A5	HIGHLAND SPRINGS GOLF COURSE	370-007-00-00-0006-00
J3	GARRETT AUSTIN INGRAM	04-CC24-99.7	B5	DARREN P. MILLS	04-CC29-235
K3	JUSTIN A. GRIFFITH & KERI D. GRIFFITH	04-CC24-148	C5	L & G REALTY LLC	04-CC29-234
L3	LESLIE J. JOHNS & MELISSA J. JOHNS	04-CC24-139	D5	GARLAND E. MINOR	04-CC29-232
M3	LESLIE J. JOHNS & MELISSA J. JOHNS	04-CC24-140	E5	KEVIN A. JEFFRIES & RACHAEL M. JEFFRIES	04-CC29-230
N3	JOHN L. DAVIS & F. LYNN DAVIS	4-CC24-144	F5	JEREMY J. KOLBA	04-CC29-229
O3	STARVAGGI INDUSTRIES	04-CC24-129	G5	GERALD D. JACKSON & JUDITH JACKSON	04-CC29-228
P3	BROWNLEE LAND VENTURES	370-001-00-00-0015-00	H5	NEAL E. SMITH & JOAN W. SMITH	04-CC29-194.2
Q3	KENNETH D. VARNER JR. & CECILIA C. VARNER	370-001-00-00-0014-00	I5	RUTH ANN STEWART & MADELON DAWN JACKSON	04-CC29-194
R3	PETER J. KLOVANISH INC., PETE KLOVANISH	370-001-00-00-0012-00	J5	ROBERT LEE FRESHWATER	04-CC29-134
S3	KENNETH D. VARNER JR. & CECILIA C. VARNER	370-004-00-00-0002-00	K5	JERRY FLUHARTY & MARY FLUHARTY	04-CC29-133
T3	ANGELO F. FALCONI & PHILLIP FALCONI	370-004-00-00-0003-00	L5	ROBERT L. YOUNG	04-CC29-132
U3	WILLIAM TACZAK & GEOGRE TACZAK	370-004-00-00-0047-00	M5	ERIC W. CAMPBELL	04-CC29-117
V3	RONALD B. POWELL JR. & ROSEANNE POWELL	370-007-00-00-0002-02	N5	CHARLES L. KRAFT	04-CC29-111
W3	DAVID J. DEMPSTER & JOANNE K. DEMPSTER	370-007-00-00-0002-03	O5	EMILIO A. MUSCEDERE & JUDITH A. MUSCEDERE	04-CC29-53
X3	WILLIAM TACZAK & GEORGE TACZAK	370-008-01-01-0001-01	P5	EMILIO A. MUSCEDERE & JUDITH A. MUSCEDERE	04-CC29-54
Y3	ALBERT PETRUSH & JAMIE GMITER	370-007-00-00-0002-05	Q5	JOHN H. LYLE JR. & MARY C. LYLE	04-CC29-55
Z3	INDEPENDENCE-EXEMPT PROPERTY, LOWER BUFFALO PRESBYTERIAN CHURCH	370-008-01-03-0002-00	R5	JOHN H. LYLE JR. & MARY C. LYLE	04-CC29-56
A4	LINDA LEA HALL	370-008-01-03-0003-00	S5	BRIAN T. FERDA & VI-EVA FERDA	04-CC29-58
B4	EUGENE F. GEORGETTI & SHIRLEY L. GEORGETTI	370-008-01-03-0006-00	T5	BRIAN T. FERDA & VI-EVA FERDA	04-CC29-59
C4	JOSEPH J. DEPETRO III	370-008-01-03-0011-00	U5	BRIAN T. FERDA & VI-EVA FERDA	04-CC29-60
D4	JASON J. ATKINSON	370-008-01-03-0012-00	V5	GARY KUSICH & PATRICIA ELAINE KUSICH	04-CC29-61
E4	KENNETH H. RUSH & SANDRA K. RUSH	370-008-01-03-0013-00	W5	GARY KUSICH & PATRICIA ELAINE KUSICH	04-CC29-62
F4	ROBERT S. KLEM & TERESA A. KLEM	370-008-01-03-0014-00	X5	ROGER L. CLEM & MILDRED O. CLEM	04-CC29-63
G4	WALTER J. KOPKO & HOLLY A. KOPKO	370-008-01-03-0015-00	Y5	RONALD LEE HICKS & DEBRA V. HICKS	04-CC29-43
H4	WALTER J. KOPKO & HOLLY A. KOPKO	370-008-01-03-0016-00	Z5	ROBERT R. NEWTON JR.	04-CC29-41.1
I4	LISA M. PITTMAN	370-008-01-03-0017-00	A6	NATALIE J. PAPON	04-CC29-41
J4	LISA M. PITTMAN	370-008-01-03-0018-00	B6	MARK A. HONE & LAUREN M. HONE	04-CC29-39.2
K4	INDEPENDENCE-EXEMPT PROPERTY, TOWNSHIP SUPERVISORS	370-008-01-03-0019-00	C6	ARLEY R. MITCHELL & NANCY E. MITCHELL	04-CC29-39.11
L4	TERRY G. JACOBS JR. & SAMANTHA L. JACOBS	370-008-00-00-0008-00	D6	ALFRED J. ROCCHIO JR. & SHERRY E. ROCCHIO	04-CC29-39.8
M4	ROBERT L. DEPETRO JR. & REBECCA DEPETRO	370-008-00-00-0005-00	E6	JEFFERY LUCK & JANE DAUGHERTY-LUCK	04-CC29-39.13
N4	JACK M. HOPWOOD	370-011-00-00-0010-01	F6	JEFFERY LUCK & JANE DAUGHERTY-LUCK	04-CC29-39.1
O4	PAUL A. CUNNINGHAM	370-012-00-00-0002-00	G6	MITCHELL SPURLOCK & RANA D. MITCHELL	04-CC29-40
			H6	JOHN E. MITCHELL & JOAN R. MITCHELL	04-CC29-39.16
			I6	EMILY BEALL & STEPHANIE BEALL	04-CC29-39.15
			J6	CHAD A. SOLE & MISTY D. SOLE	04-CC29-39.20
			K6	COREY L. PALMER & ALLYSON M. PALMER	04-CC24-143
			L6	PHILLIP E. BLANKENSHIP	04-CC24-153
			M6	KEITH J. FISCHER & DAWN MARIE FISCHER	04-CC24-152
			N6	KIMBERLY L. DEFIBAUGH	04-CC24-149
			O6	JOHN E. MITCHELL & JOAN R. MITCHELL	04-CC29-39.5
			P6	FREDERICK C. CASALE & SUZANNE CASALE	04-CC29-39.12
			Q6	THOMAS COLE & VIRGINIA COLE	04-CC24-127
			R6	EUGENE MITCHELL JR. & MARGARET MITCHELL - LIFE, JESSE MITCHELL ET AL	04-CC24-131
			S6	EUGENE MITCHELL JR. & MARGARET MITCHELL - LIFE, JESSE MITCHELL ET AL	04-CC24-126
			T6	GEORGE A. BARCHIESI & PAMELA J. BARCHIESI	04-CC24-125
			U6	GEORGE A. BARCHIESI & PAMELA J. BARCHIESI	04-CC24-122
			V6	TODD P. FERGUSON & LISA FERGUSON	04-CC24-99.1
			W6	TODD P. FERGUSON & LISA FERGUSON	04-CC24-120
			X6	JERRY M. BOOTH & DEBRA D. BOOTH	04-CC24-119
			Y6	PAUL J. SICURELLA & LEA M. SICURELLA	04-CC24-118
			Z6	DAVID HUNT KINS & PATRICIA ANN KINS	04-CC24-116
			A7	JEFFREY L. ADAMS & SHELIA D. ADAMS	04-CC24-115
			B7	JEFFREY L. ADAMS & SHELIA D. ADAMS	04-CC24-114
			C7	ARTHUR SCHERICH & LEIGH ANN SCHERICH	04-CC24-113

09/10/2021

REVISIONS:	COMPANY:	 	
	OPERATOR'S	STATE OF WV DNR C BRK	API:
	WELL #:	8H	47-009-00310
	DISTRICT:	CROSS CREEK	DATE: 07-09-2021
	COUNTY:	BROOKE	DRAWN BY: N. MANO
	STATE:	WV	SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 4





**JACKSON SURVEYING  
INC.**

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
D7	TRAVIS SMITH	04-CC24-112
E7	DEAN SMITH	04-CC24-111
F7	DEAN SMITH	04-CC24-110
G7	DEAN SMITH	04-CC24-109
H7	STEVEN BROWN	04-CC24-99.2
I7	RICHARD H. SCOTT & DENA M. SCOTT	04-CC24-104
J7	KEVIN L. CRAFT & MARGARET K. CRAFT	04-CC24-103
K7	SHELLY D. GAUMER	04-CC24-102
L7	JAY THOMAS GAUMER & SHELLY DAWN GAUMER	04-CC24-99.3
M7	MARK A. LAW & SANDRA K. LAW	04-CC24-101
N7	JOHN R. COOK & BEVERLY A. COOK	04-CC24-147
O7	JOSEPH M. MULLENBACH & SUSAN B. MULLENBACH	04-CC24-95
P7	JOSEPH M. MULLENBACH & SUSAN B. MULLENBACH	04-CC24-135
Q7	MICHAEL K. MCFADDEN & SHARON MCFADDEN	04-CC24-93
R7	MICHAEL J. CIPRIANI	04-CC24-142
S7	MICHAEL J. CIPRIANI	04-CC24-141
T7	JACK EARNEST & LESLIE M. EARNEST	04-CC24-138
U7	KEVIN M. FARRELL & HEIDI J. FARRELL	04-CC24-92
V7	KEVIN M. FARRELL & HEIDI J. FARRELL	04-CC24-91
W7	EDWARD ROBERT MARKS III & TONI JO MARKS	04-CC24-117
X7	RALPH A. BRADY & KIM BRADY	04-CC24-90
Y7	BRIAN L. FERGUSON & NANCY J. FERGUSON	04-CC24-89
Z7	JAMES E. HUFFNER & PATRICIA HUFFNER	04-CC24-88
A8	JAMES E. HUFFNER & PATRICIA HUFFNER	04-CC24-99.6
B8	CHRISTOPHER L. CECCHINI	04-CC24-87
C8	CHRISTOPHER L. CECCHINI & AMY CECCHINI	04-CC24-86
D8	MICHAEL SCOTT BOLEN	04-CC24-85
E8	DREW FERGUSON	04-CC24-84.1
F8	TERRI HEFFNER	04-CC24-84
G8	CHARLES WAYNE MALONEY & NANCY L. MALONEY	04-CC29-17
H8	JOHN STEVENS & LINDA STEVENS	04-CC24-56
I8	GEORGE L. BRADLEY	04-CC24-55
J8	RAYMOND S. CROSS, DENNIS P. CROSS, & KATHRYN R. BUTLER	04-CC24-13
K8	WHEELING ENERGY WORKS, LTD.	04-CC24-08
L8	MARK E. VAUGHN & LISA A. VAUGHN	04-CC24-09
M8	DAVID A. MIHLBAUER & TERI L. MIHLBAUER	04-CC24-10
N8	OTTIS T. PETTRY	04-CC24-12
O8	DON TAYLOR	04-CC24-06
P8	WILLIAM C. BAIRD & CYNTHIA L. BAIRD	04-CC24-05
Q8	ALBERT D. JOHNS JR., GARY JOHNS, GREGORY JOHNS & TAMMY MOORE	04-CC23-326
R8	WILLIAM H. THOMPSON & DEBRA THOMPSON	04-CC23-320
S8	SAMUEL HUBBARD	04-CC23-318
T8	DAVID W. HAUGHT, JOSEPH HAUGHT, YOUNG HAUGHT, CRYSTAL HOIT & BONNIE HOIT	04-CC23-78
U8	SUSAN A. MALSON, CHARLES A. COOK, CATHERINE L. WOLFE, JOHN T. COOK & BONNIE A. MCKEE, TRUSTEES OF THE COOK FAMILY TRUST REVOCABLE TRUST AGREEMENT DATED APRIL 20, 2017	04-CC23-322
V8	BOBBIE JO MENEELY & RANDALL MINCH	04-CC23-324
W8	MICHAEL W. MOORE	04-CC23-323
X8	JUDITH ANN MOORE	04-CC19-185
Y8	CHARLES D. MOORE & CECELIA P. MOORE	04-CC19-180
Z8	ROSE MARIE EDGELL	04-CC19-176
A9	CONSTANTINE EVANGELINOS & TOULA EVANGELINOS	04-CC19-171
B9	LINDY L. GALIANO	04-CC19-170
C9	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	04-CC19-169
D9	DANNY NICKOLES & GRACE NICKOLES (LIFE), GREGORY DANIEL NICKOLES, RANDY LEE NICKOLES & JEFFREY OWN NICKOLES	04-CC19-160
E9	DAVID BAKER	04-CC19-164
F9	DOUGLAS P. EMMERTH & PAMELA L. EMMERTH	04-CC19-165
G9	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	04-CC19-168
H9	GRETCHEN MOORE LANGEVIN, TRUSTEE & WESTBANCO BANK INC, TRUSTEE	04-CC20-05
I9	JOHN ERNEST MILLER & JESSE ANDREW MILLER	04-CC20-04
J9	SUSAN D. BREEN & DENNIS M. BREEN	04-CC20-22
K9	COLLIER'S SPORTSMAN CLUB	04-CC20-21

09/10/2021

REVISIONS:	COMPANY:		 	
	OPERATOR'S	STATE OF WV DNR C BRK	API:	DATE: 07-09-2021
	WELL #:	8H	47-009-00310	DRAWN BY: N. MANO
	DISTRICT:	CROSS CREEK	COUNTY:	SCALE: N/A
			STATE:	DRAWING NO:
			WV	WELL LOCATION PLAT 5