

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

API 47-009-00272 County BROOKE District BUFFALO
Quad TILTONSVILLE Pad Name BARRY GREATHOUSE A BRK-PAD-1 Field/Pool Name PANHANDLE FIELD WET
Farm name BARRY L. GREATHOUSE & PATRICIA A. GREATHOUSE Well Number BARRY GREATHOUSE A BRK 3H
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 4,449,087.59 Easting 531,016.69
Landing Point of Curve Northing 4,448,965.04 Easting 530,861.47
Bottom Hole Northing 4,452,793.55 Easting 529,061.57

Elevation (ft) 1136.9 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

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Date permit issued 02/14/2019 Date drilling commenced 03/31/2019 Date drilling ceased 04/17/2019
Date completion activities began 07/04/2019 Date completion activities ceased 09/05/2019
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 275' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 384' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 292' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed
C. [Signature] 12-17-19

Reviewed by:
[Signature] 12-17-19

API 47-009 - 00272 Farm name BARRY L. GREATHOUSE & PATRICIA A. GREATHOUSE Well number BARRY GREATHOUSE A BRK 3H

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	383'	NEW	J-55/54.50#	215.7	Y
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1,626'	NEW	J-55/36#		Y, 45 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	19,967'	NEW	HCP-110/20#		Y
Tubing		2.875	6,128'	NEW	P-110/6.50#		N
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	474	15.60	1.20	568.8	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	660	15.60	1.20	792	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,447	15.60	1.19	4,101.93	SURFACE	24
Tubing							

Drillers TD (ft) 19,967' Loggers TD (ft) 19,967'

Deepest formation penetrated MARCELLUS SHALE Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5,230'

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 _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

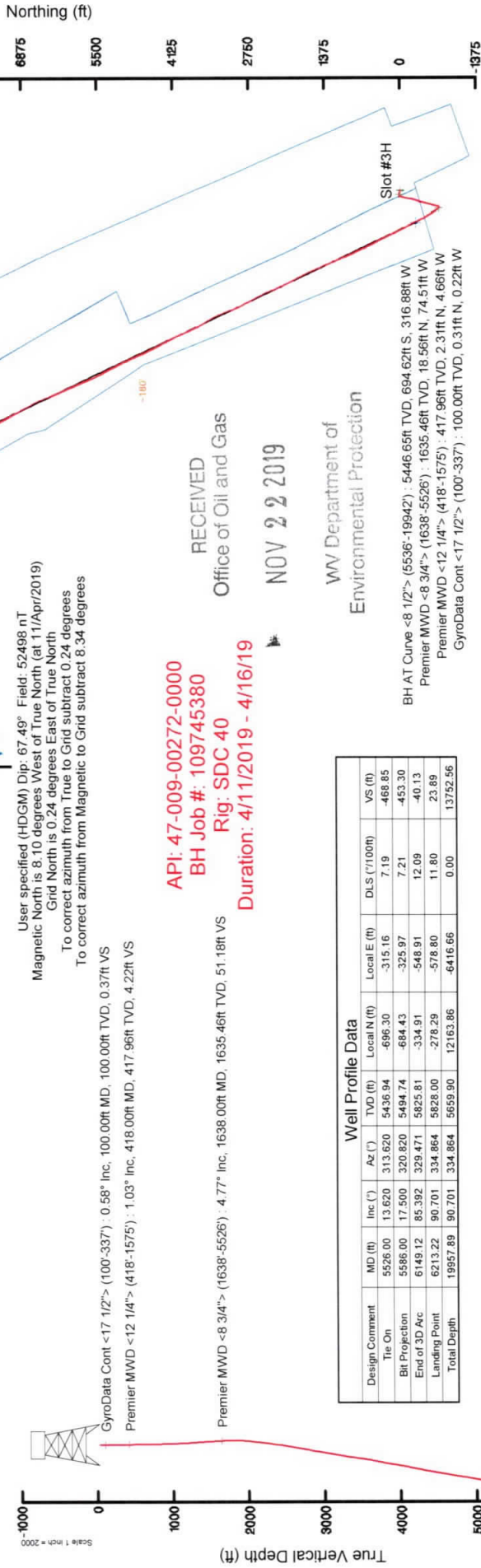
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Location: Brooke County, WV
 Facility: Barry Greathouse A BRK Pad
 Slot: Slot #3H
 Well: Barry Greathouse A BRK 3H
 Wellbore: Barry Greathouse A BRK 3H PWB

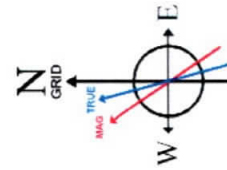
Pod reference wellpath is Barry Greathouse A BRK 3H PWP Rev-C 0	Grid System: NAD83 / UTM Zone 17 North, US feet
True vertical depths are referenced to SDC 40 (RKB)	North Reference: Grid north
Measured depths are referenced to SDC 40 (RKB)	Scale: True distance
SDC 40 (RKB) to Mean Sea Level: 1163.3 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot Slot #3H): -1137.3 feet	Created by: Highrop on 2019-04-22
Coordinates are in feet referenced to Slot	Database: WA_MPL_EASTERNUS_Dein

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Barry Greathouse A BRK Pad	1742183.679	14589655.836	80°30'08.133"W
Slot	Local E (ft)	Local N (ft)	Longitude
Slot #3H	59.14	-6.53	80°30'08.214"W
SDC 40 (RKB) to Ground level (At Slot Slot #3H)	1742177.350	14589714.850	29R
Mean Sea Level to Ground level (At Slot Slot #3H)	-1137.3R		1163.3R
SDC 40 (RKB) to Mean Sea Level			

Well Data			
Slot	Well	Wellbore	Wellpath
Slot #3H	Barry Greathouse A BRK 3H	Barry Greathouse A BRK 3H PWB	Barry Greathouse A BRK 3H PWB Rev-C 0
Slot #3H	Barry Greathouse A BRK 3H	Barry Greathouse A BRK 3H PWB	Barry Greathouse A BRK 3H PWB Rev-C 0



User specified (HDGM) Dip: 67.49° Field: 52498 nT
 Magnetic North is 8.10 degrees West of True North (at 11/Apr/2019)
 Grid North is 0.24 degrees East of True North
 To correct azimuth from True to Grid subtract 0.24 degrees
 To correct azimuth from Magnetic to Grid subtract 8.34 degrees

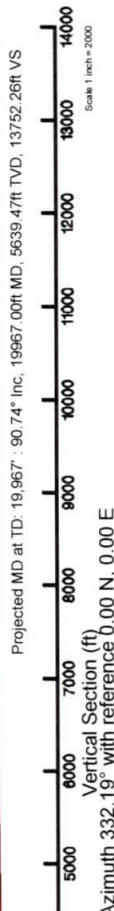


API: 47-009-00272-0000
 BH Job #: 109745380
 Rig: SDC 40
 Duration: 4/11/2019 - 4/16/19

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Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (7/100ft)	VS (ft)
Tie On	5526.00	13.620	313.620	5436.94	-315.16	7.19	-468.85	
BH Projection	5586.00	17.500	320.820	5494.74	-684.43	-325.97	7.21	-453.30
End of 3D Arc	6148.12	85.392	329.471	5825.81	-334.91	-548.91	12.09	-40.13
Landing Point	6213.22	90.701	334.864	5828.00	-278.29	-578.80	11.80	23.89
Total Depth	19957.89	90.701	334.864	5659.90	12163.86	-6416.66	0.00	13752.56

BH AT Curve <8 1/2"> (5536'-19942') : 14.26° Inc, 5536.00ft MD, 5446.65ft TVD, -466.55ft VS
 Premier MWD <8 3/4"> (1638'-5526') : 1635.46ft TVD, 18.56ft N, 74.51ft W
 Premier MWD <12 1/4"> (418'-1575') : 417.96ft TVD, 2.31ft N, 4.66ft W
 GyroData Cont <17 1/2"> (100'-337') : 100.00ft TVD, 0.31ft N, 0.22ft W



Scale 1 inch = 2000

Hydraulic Fracturing Fluid Product Component Information Disclosure

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Job Start Date:	7/21/2019
Job End Date:	8/25/2019
State:	West Virginia
County:	Brooke
API Number:	47-009-00272-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Barry Greathouse A BRK 3H
Latitude:	40.19160600
Longitude:	-80.63561500
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,729
Total Base Water Volume (gal):	21,659,014
Total Base Non Water Volume:	0



Frac Focus
Chemical Disclosure Registry



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
Fresh Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	65.96982	Density = 8.34
Produced Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	21.48509	Density = 8.34

Ingredients	Listed Above	Listed Above								
				Water	7732-18-5	100.00000	0.03615			
LEGEND(TM) LD-7750	MultiChem	Scale Inhibitor		RECEIVED Office of Oil and Gas						
FSTI-CI-01	FSTI	Acid Corrosion Inhibitor		NOV 22 2019 WV Department of Environmental Protection	Listed Below					
					Listed Below					
FSTI-C-001	FSTI	Iron Control Agent								
					Listed Below					
OptiKleen-WF (TM)	Halliburton	Concentrate								
					Listed Below					
Sand-Premium White-40/70	Halliburton	Proppant								
					Listed Below					
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant								
					Listed Below					
FSTI HCl	FSTI	Acid								
					Listed Below					
MC LD-2850	MultiChem	Friction Reducer			Listed Below					

BE-9	Halliburton	Biocide			Listed Below				
<p>RECEIVED Office of Oil and Gas NOV 22 2019 WV Department of Environmental Protection</p>									
<p>Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.</p>									
				Crystalline silica, quartz	14808-60-7	100.00000	11.64526		
				Hydrochloric acid	7647-01-0	15.00000	0.11978		
				Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02039		
				Ethaniminium, N,N,N-trimethyl-2-[(1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), polymer with 2-propenamide	69418-26-4	30.00000	0.02039		
				Sodium chloride	7647-14-5	10.00000	0.00722		
				Castor oil, ethoxylated	61791-12-6	10.00000	0.00680		
				Ammonium chloride	12125-02-9	10.00000	0.00680		
				Sorbitan monooleate polyoxyethylene derivative	9005-65-6	5.00000	0.00340		
				Alcohols, C12-16, ethoxylated	68551-12-2	5.00000	0.00340		
				9-Octadecenamide, n,n-bis-2(hydroxy-ethyl)-,(Z)	93-83-4	5.00000	0.00340		
				Acetic acid	64-19-7	60.00000	0.00240		
				Tributyl tetradecyl phosphonium chloride	81741-28-8	10.00000	0.00209		
				Methanol	67-56-1	80.00000	0.00179		
				Citric acid	77-92-9	40.00000	0.00160		
				Phosphoric Acid Salt	Proprietary	5.00000	0.00042		
				Fatty acids	Trade Secret	10.00000	0.00011		
				Formaldehyde	50-00-0	0.10000	0.00008		
				Nitrotriacetic acid, trisodium salt monohydrate	5064-31-3	0.10000	0.00007		

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NOV 22 2019	Hydroquinone monomethyl ether	150-76-5	0.10000	0.00007	
WV Department of Environmental Protection	Diethanolamine	111-42-2	0.10000	0.00007	
	1,4-Dioxane	123-91-1	0.10000	0.00007	
	Sodium glycollate	2836-32-0	0.10000	0.00007	
	Sodium perborate tetrahydrate	10486-00-7	100.00000	0.00001	

* 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)

BARRY GREATHOUSE A BRK 3H

ATTACHMENT 1

PERF REPORT

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	6/26/2019	19,883	19,786	36
2	7/21/2019	19,751	19,644	42
3	7/22/2019	19,611	19,504	42
4	7/22/2019	19,471	19,364	42
5	7/26/2019	19,331	19,219	42
6	8/4/2019	19,191	19,084	42
7	8/4/2019	19,051	18,944	42
8	8/4/2019	18,911	18,804	42
9	8/4/2019	18,771	18,664	42
10	8/5/2019	18,631	18,524	42
11	8/5/2019	18,491	18,384	42
12	8/5/2019	18,351	18,244	42
13	8/5/2019	18,211	18,104	42
14	8/5/2019	18,071	17,964	42
15	8/5/2019	17,931	17,824	42
16	8/6/2019	17,791	17,684	42
17	8/6/2019	17,651	17,544	42
18	8/6/2019	17,511	17,404	42
19	8/7/2019	17,371	17,264	42
20	8/7/2019	17,231	17,124	42
21	8/7/2019	17,091	16,984	42
22	8/8/2019	16,951	16,844	42
23	8/9/2019	16,811	16,704	42
24	8/9/2019	16,671	16,564	42
25	8/9/2019	16,531	16,424	42
26	8/9/2019	16,391	16,284	42
27	8/9/2019	16,251	16,144	42
28	8/10/2019	16,111	16,004	42
29	8/10/2019	15,971	15,864	42
30	8/11/2019	15,831	15,724	42
31	8/11/2019	15,691	15,584	42
32	8/11/2019	15,551	15,444	42
33	8/11/2019	15,411	15,304	42
34	8/12/2019	15,271	15,164	42
35	8/12/2019	15,131	15,024	42
36	8/12/2019	14,991	14,884	42
38	8/13/2019	14,711	14,604	27
39	8/13/2019	14,571	14,464	42
40	8/13/2019	14,431	14,324	42
41	8/13/2019	14,291	14,184	42
42	8/14/2019	14,151	14,044	42
43	8/14/2019	14,011	13,904	42
44	8/14/2019	13,871	13,764	42
45	8/14/2019	13,731	13,624	42
46	8/14/2019	13,591	13,484	42
47	8/14/2019	13,451	13,344	42
48	8/15/2019	13,311	13,204	42
49	8/15/2019	13,171	13,064	42
50	8/16/2019	13,031	12,924	42
51	8/16/2019	12,891	12,784	42
52	8/16/2019	12,751	12,644	42

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BARRY GREATHOUSE A BRK 3H

ATTACHMENT 1

PERF REPORT

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
53	8/16/2019	12,611	12,504	42
54	8/17/2019	12,471	12,364	42
55	8/17/2019	12,331	12,224	42
56	8/17/2019	12,191	12,084	42
57	8/18/2019	12,051	11,944	42
58	8/18/2019	11,911	11,804	42
59	8/18/2019	11,771	11,664	42
60	8/18/2019	11,631	11,524	42
61	8/18/2019	11,491	11,384	42
62	8/18/2019	11,351	11,244	42
63	8/19/2019	11,211	11,104	42
64	8/19/2019	11,071	10,964	42
65	8/19/2019	10,931	10,824	42
66	8/19/2019	10,791	10,684	42
67	8/20/2019	10,651	10,544	42
68	8/20/2019	10,511	10,404	42
69	8/20/2019	10,371	10,264	42
70	8/20/2019	10,231	10,124	42
71	8/20/2019	10,091	9,984	42
72	8/20/2019	9,951	9,844	42
73	8/20/2019	9,811	9,704	42
74	8/21/2019	9,669	9,564	42
75	6/21/2019	9,531	9,424	42
76	6/21/2019	9,391	9,284	42
77	8/21/2019	9,251	9,144	42
78	8/21/2019	9,111	9,004	42
79	8/22/2019	8,971	8,864	42
80	6/27/2019	8,831	8,724	42
81	8/22/2019	8,691	8,584	42
82	8/22/2019	8,551	8,444	42
83	8/22/2019	8,411	8,295	72
84	8/23/2019	8,273	8,164	42
85	8/23/2019	8,131	8,026	42
86	8/23/2019	7,991	7,884	42
87	8/23/2019	7,851	7,748	42
88	8/23/2019	7,711	7,604	42
89	8/24/2019	7,567	7,464	42
90	8/24/2019	7,431	7,328	42
91	8/24/2019	7,291	7,184	42
92	8/24/2019	7,151	7,044	42
93	8/24/2019	7,011	6,904	42
94	8/24/2019	6,871	6,764	42
95	8/24/2019	6,731	6,624	42
96	8/25/2019	6,586	6,484	42
97	8/25/2019	6,451	6,344	42
98	8/25/2019	6,311	6,204	42

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**BARRY GREATHOUSE A BRK 3H
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	7/21/2019	93.6	7,864	8,024	3,495	243,831	6,927	0
2	7/22/2019	95.4	7,941	4,984	3,966	245,120	7,181	0
3	7/22/2019	100.3	7,724	4,253	3,894	244,919	6,784	0
4	7/25/2019	98.5	8,140	4,659	3,908	243,400	6,798	0
5	8/2/2019	97	8,033	4,738	4,031	244,911	6,799	0
6	8/4/2019	96.4	7,984	8,043	4,063	244,500	6,911	0
7	8/4/2019	99.9	7,756	5,701	4,029	245,840	6,916	0
8	8/4/2019	95.9	7,878	4,987	3,919	244,900	6,338	0
9	8/4/2019	95.8	7,947	5,073	4,060	244,360	6,439	0
10	8/5/2019	96.4	7,994	4,986	3,944	245,000	6,350	0
11	8/5/2019	98.4	7,882	5,580	4,011	246,830	5,496	0
12	8/5/2019	99.6	7,902	5,303	4,160	245,690	5,651	0
13	8/5/2019	98.8	7,960	5,542	4,016	245,960	5,669	0
14	8/5/2019	98.1	7,896	5,444	4,028	244,480	5,420	0
15	8/5/2019	82.9	8,059	5,308	3,662	244,360	5,561	0
16	8/6/2019	97.5	7,815	5,720	3,817	245,170	5,705	0
17	8/6/2019	99.6	7,589	4,960	4,122	246,320	5,861	0
18	8/7/2019	96	7,854	5,211	4,188	245,380	5,685	0
19	8/7/2019	98.5	7,899	5,255	4,081	247,330	5,616	0
20	8/7/2019	96.6	7,778	5,163	4,029	245,740	5,766	0
21	8/7/2019	97.7	7,814	4,906	4,060	244,940	5,515	0
22	8/8/2019	96	7,866	5,035	4,181	245,170	6,243	0
23	8/9/2019	98	7,836	4,892	4,112	244,840	5,554	0
24	8/9/2019	90.7	7,994	5,053	3,978	245,630	5,705	0
25	8/9/2019	98.6	7,658	4,866	3,987	245,810	5,586	0
26	8/9/2019	93.3	7,844	4,785	3,919	245,532	5,726	0
27	8/9/2019	97.8	7,941	4,919	4,149	245,200	5,576	0
28	8/10/2019	98.8	7,468	5,097	3,810	246,150	5,742	0
29	8/10/2019	99.1	7,917	4,735	3,981	244,900	5,500	0
30	8/11/2019	96.3	7,414	4,949	3,880	246,460	5,561	0
31	8/11/2019	98.2	7,498	4,942	4,033	246,030	5,769	0
32	8/11/2019	98.3	7,417	5,374	4,156	245,080	5,547	0
33	8/11/2019	98.5	7,843	5,101	4,279	245,150	5,624	0
34	8/12/2019	98.7	7,805	4,748	4,275	245,080	5,729	0
35	8/12/2019	98.6	7,085	4,765	4,150	245,830	5,692	0
36	8/12/2019	97.7	7,410	5,213	4,132	246,050	5,745	0
38	8/12/2019	97.5	7,609	4,854	3,860	499,486	14,191	0
39	8/13/2019	99	7,286	4,780	4,230	247,920	5,331	0
40	8/13/2019	95.6	7,815	4,711	4,185	245,050	5,406	0
41	8/13/2019	95.9	7,671	4,813	4,187	245,500	5,413	0
42	8/14/2019	99.3	7,371	4,667	4,276	245,350	5,422	0
43	8/14/2019	99.2	7,241	4,631	4,151	245,340	5,424	0
44	8/14/2019	95	7,646	4,780	4,027	247,260	5,358	0
45	8/14/2019	99.2	7,267	4,540	4,132	246,300	5,404	0
46	8/14/2019	100.1	7,505	5,219	4,221	245,750	5,343	0
47	8/15/2019	100.1	7,561	5,020	4,208	245,250	5,486	0
48	8/15/2019	99.2	7,584	4,964	4,218	245,310	5,372	0
49	8/16/2019	100	7,609	4,924	4,029	245,900	5,635	0
50	8/16/2019	92.2	7,307	5,336	4,195	244,750	4,920	0
51	8/16/2019	98.4	7,414	5,083	4,047	245,010	4,646	0
52	8/16/2019	96.1	7,536	4,795	4,184	242,750	4,534	0
53	8/16/2019	48.8	8,044	5,078	8,154	13,863	4,698	0
54	8/17/2019	100.2	6,956	4,853	4,061	490,290	9,322	0

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WV Department of
 Environmental Protection

BARRY GREATHOUSE A BRK 3H

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
55	8/17/2019	94.7	7,617	4,271	4,170	244,590	5,144	0
56	8/17/2019	98.6	7,477	4,682	4,221	244,760	4,757	0
57	8/18/2019	98.8	7,509	4,267	4,124	244,450	4,598	0
58	8/18/2019	99.5	6,681	5,169	4,147	245,410	4,547	0
59	8/18/2019	98.7	6,677	5,058	4,029	245,010	4,391	0
60	8/18/2019	98.6	7,142	5,621	4,107	246,060	4,874	0
61	8/18/2019	98.9	7,268	5,279	4,213	244,520	4,547	0
62	8/19/2019	84	7,717	5,662	3,936	245,480	7,312	0
63	8/19/2019	98.8	6,786	5,278	3,987	243,920	4,687	0
64	8/19/2019	92.1	7,186	5,194	4,056	245,000	4,590	0
65	8/19/2019	98.4	7,064	5,335	4,204	244,580	4,537	0
66	8/19/2019	100	6,832	5,312	4,014	247,130	4,516	0
67	8/20/2019	91.3	7,320	5,116	4,179	244,860	4,510	0
68	8/20/2019	99	6,846	5,295	4,148	244,710	4,573	0
69	8/20/2019	100.1	6,663	5,453	4,260	245,090	4,325	0
70	8/20/2019	100.3	6,784	5,215	4,105	245,080	4,400	0
71	8/20/2019	100.3	6,881	5,255	4,231	245,040	4,561	0
72	8/20/2019	98.4	6,771	4,185	4,185	245,570	4,281	0
73	8/21/2019	90.1	7,565	5,399	4,226	67,400	3,416	0
74	8/21/2019	100.2	6,545	4,948	4,333	422,170	7,133	0
75	8/21/2019	99.4	6,747	5,113	4,211	245,010	4,640	0
76	8/21/2019	100	6,518	5,159	4,288	241,830	4,579	0
77	8/21/2019	99.9	6,606	5,119	4,216	245,200	4,208	0
78	8/22/2019	100.4	6,460	5,241	4,055	244,690	4,358	0
79	8/22/2019	100.3	6,684	5,356	4,291	245,300	4,462	0
80	8/22/2019	99.6	6,645	4,963	4,250	245,930	4,465	0
81	8/22/2019	99.3	6,561	5,103	4,278	245,520	4,436	0
82	8/22/2019	99.4	6,350	4,830	4,098	245,470	4,297	0
83	8/22/2019	97.9	7,118	5,942	3,954	243,480	6,873	0
84	8/23/2019	99.1	6,522	5,216	4,224	245,200	4,384	0
85	8/23/2019	99.5	9,353	5,482	4,286	245,700	4,135	0
86	8/23/2019	98.2	6,571	5,070	4,336	244,590	4,268	0
87	8/23/2019	93.1	7,118	5,068	4,249	244,910	5,927	0
88	8/24/2019	98.4	6,249	5,242	4,112	244,790	4,230	0
89	8/24/2019	99.2	6,325	5,300	4,285	245,060	4,238	0
90	8/24/2019	99.4	6,349	6,094	4,149	245,200	4,470	0
91	8/24/2019	99.1	6,193	5,445	4,170	246,200	4,455	0
92	8/24/2019	100	6,199	5,170	4,337	246,130	4,122	0
93	8/24/2019	95.6	5,981	5,086	4,327	244,490	4,243	0
94	8/24/2019	98.4	6,172	5,222	4,356	244,670	4,129	0
95	8/24/2019	97.3	6,098	4,988	4,365	244,290	4,070	0
96	8/25/2019	98.9	6,276	4,990	4,311	244,660	4,142	0
97	8/25/2019	99.5	6,072	5,588	4,189	244,610	4,348	0
98	8/25/2019	99.7	6,100	5,514	4,137	246,300	4,269	0

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ATTACHMENT 3

Well Name: Barry Greathouse A BRK 3H

47009002720000

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	275.00	275.00	
Top of Salt Water	384.00	384.00	NA	NA	
Pittsburgh Coal	292.00	292.00	NA	NA	
Pottsville (ss)	398.00	398.00	796.00	796.00	
Raven Cliff (ss)	796.00	796.00	1047.00	1047.00	
Maxton (ss)	1047.00	1047.00	1349.00	1349.00	
Big Injun (ss)	1349.00	1349.00	1872.00	1868.00	
Berea (siltstone)	1872.00	1868.00	5370.00	5283.00	
Rhinstreet (shale)	5370.00	5283.00	5608.00	5515.00	
Cashaqua (shale)	5608.00	5515.00	5662.00	5564.00	
Middlesex (shale)	5662.00	5564.00	5738.00	5628.00	
Burket (shale)	5738.00	5628.00	5756.00	5643.00	
Tully (ls)	5756.00	5643.00	5827.00	5695.00	
Mahantango (shale)	5827.00	5695.00	5972.00	5777.00	
Marcellus (shale)	5972.00	5777.00	NA	NA	GAS

(2,000' SCALE) LATITUDE: 40°15'00" BOTTOM HOLE-

9331'

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

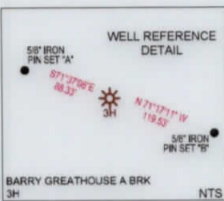
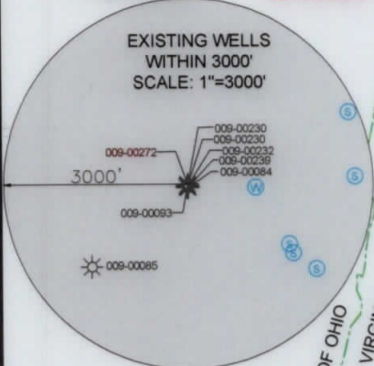
2966'



www.jhacompanies.com

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

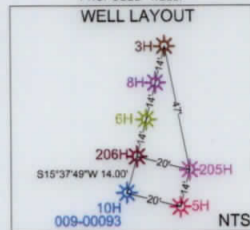
EXISTING WELLS
WITHIN 3000'
SCALE: 1"=3000'



NOTES ON SURVEY

1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
5. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

WELL LAYOUT



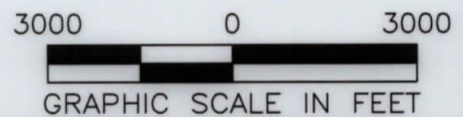
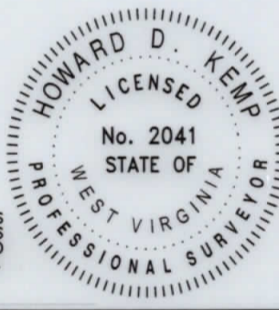
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

LINE	BEARING	DISTANCE
L1	S14°50'40"W	1083.90'
L2	N33°38'50"W	1144.24'

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4449087.59 EASTING: 531016.69
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4448965.04 EASTING: 530861.47
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4452793.55 EASTING: 529061.57
SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4449087.59 EASTING: 531016.69
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4449022.10 EASTING: 530831.30
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4452793.72 EASTING: 529061.68

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2041



SWN Production Company, LLC **SWN** Production Company™

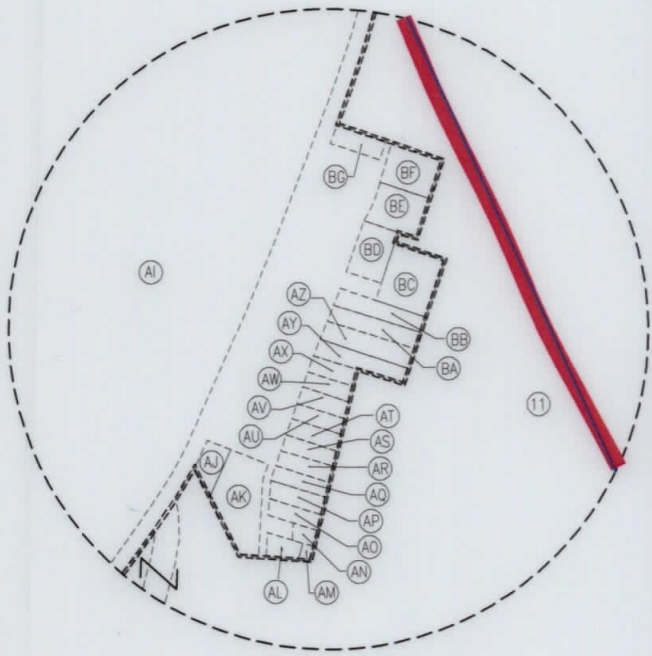
	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	BARRY GREATHOUSE A BRK		
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #:	3H	
			API WELL #:	47	009
				STATE	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"/>	ELEVATION: 1136.9'
WATERSHED: UPPER OHIO SOUTH	QUADRANGLE: TILTONSVILLE, OH-WV
DISTRICT: BUFFALO COUNTY: BROOKE	ACREAGE: ±229.00
SURFACE OWNER: BARRY L. GREATHOUSE & PATRICIA A. GREATHOUSE	ACREAGE: ±229.00
OIL & GAS ROYALTY OWNER: RAYLE COAL COMPANY	
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: 5,816' TVD 19967' TMD

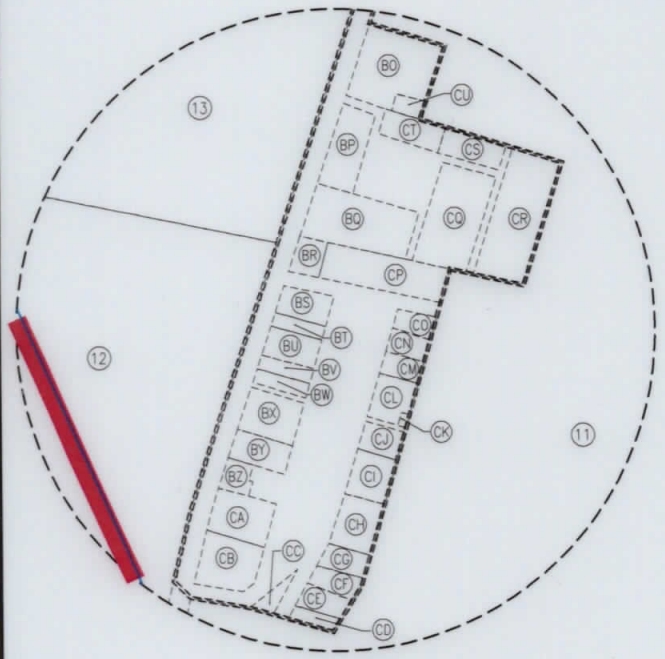
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201	ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND: ● 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: 11-18-2019
			DRAWN BY: R.GRIMES
			SCALE: 1" = 3000'
			DRAWING NO: 2017-422
			WELL LOCATION PLAT

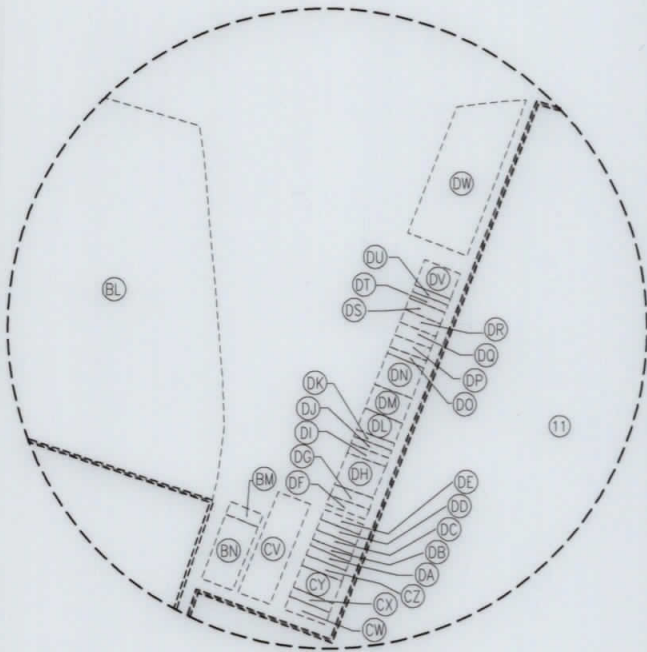
DETAIL "A"
NTS



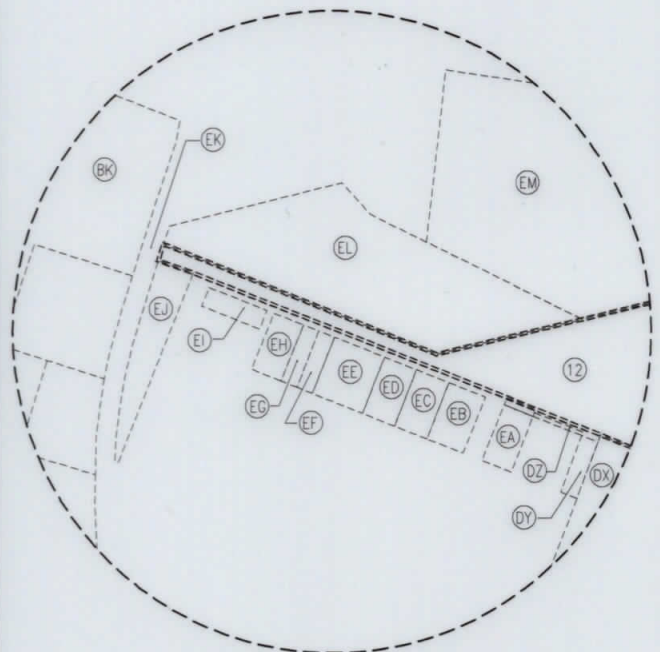
DETAIL "B"
NTS



DETAIL "C"
NTS



DETAIL "D"
NTS



REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{R-V+}
Production Company™

OPERATOR'S
WELL #:

BARRY GREATHOUSE A BRK
3H

DATE: 11-18-2019

DISTRICT:
BUFFALO

COUNTY:
BROOKE

STATE:
WV

DRAWN BY: R.GRIMES

SCALE: N/A

DRAWING NO: 2017-422

WELL LOCATION PLAT

PROPERTY NUMBER 2501166087
PAD ID 3001156331

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	BARRY L. GREATHOUSE & PATRICIA A. GREATHOUSE (S) RAYLE COAL COMPANY (R)	03-841-0082.0000
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
2	ROBERT J. MILLER, JR. & LINDA M. MILLER	03-841-0047.0000
3	WILLIAM & DAWNA MILLER	03-841-0061.0000
4	KARL DOUGLAS STEPHENS	03-841-0054.0002
5	DOROTHY S. MOORE	03-841-0054.0000
6	FRED W. YOUNG, JR.	03-841-0054.0001
7	WINDSOR COAL COMPANY	03-841-0039.0000
8	WINDSOR COAL COMPANY	03-841-0048.0000
9	WINDSOR COAL COMPANY	03-836-0102.0000
10	WINDSOR COAL COMPANY	03-836-0101.0000
11	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	01-8836-0023.0001
12	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	01-836K-0013.0000
13	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	01-836F-0077.0000
14	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	01-8836-0024.0000
15	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	01-836B-0117.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	DANNY GENE BRITT AND VIRGINIA MARGARET BRITT	03-846-0027.0000
B	BETTY F. DOPKO	04-R5-0001.0000
C	STACY A. GREATHOUSE HAYMAN AND PATRICIA A. GREATHOUSE	03-846-0041.0000
D	BARRY L. & PATRICIA A. GREATHOUSE	03-841-0083.0000
E	BARRY L. & PATRICIA A. GREATHOUSE	03-841-0032.0000
F	CHARLES BELL ESTATE	03-841-0031.0000
G	ROSEMARY KINDER MOORE	03-841-0035.0000
H	RAY PAUL NICOLSON	03-841-0042.0000
I	JOY ANN & EBBIE J. SCHUETZ	03-841-0046.0000
J	JOY ANN & EBBIE J. SCHUETZ (SURV)	03-841-0045.0000
K	JOY ANN SCHUETZ	03-841-0043.0000
L	JAMES HANCHER	03-841-0044.0000
M	SYLVESTER & MARY KELLER (SURV)	03-841-0038.0000
N	WINDSOR COAL COMPANY	03-841-0005.0000
O	WINDSOR COAL COMPANY	03-841-0007.0000
P	WINDSOR COAL COMPANY	03-836-0091.0000
Q	WINDSOR COAL COMPANY	03-836-0100.0000
R	WINDSOR COAL COMPANY	01-8836-0022.0000
S	WINDSOR COAL COMPANY	01-8836-0025.0000
T	MARY LOUISE MCALLISTER	01-8836-0020.0000
U	LEITHA ADAMSON	01-8836-0019.0000
V	RALPH & MARY ANN PLANTS	01-8836-0004.0000
W	PAUL & GENEVEVE CUNNINGHAM	01-8836-0017.0000
X	PAUL & GENEVEVE CUNNINGHAM	01-8836-0016.0000
Y	FRANKLIN MILLER	01-8836-0015.0000
Z	FRANKLIN MILLER	01-8836-0014.0000
AA	FRANKLIN MILLER	01-8836-0013.0000
AB	FRANKLIN MILLER	01-8836-0012.0000
AC	FRANKLIN & CONNIE J. MILLER	01-8836-0011.0000
AD	FRANKLIN & CONNIE J. MILLER	01-8836-0010.0000
AE	CHERYL E. SMITH	01-8836-0009.0000
AF	STEVEN ANDREW & DEBBIE MURDOCK	01-8836-0008.0000
AG	DANIEL L. & CATHY J. JOHNSTON	01-8836-0007.0000
AH	LELAND J. & TRACEY A. DICKINSON	01-8836-0006.0000
AI	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	01-8836-0001.0000
AJ	CHRISTOPHER DEAN	01-836K-0030.0000
AK	CHARLES G. & CHRISTINE L. HOOD	01-836K-0031.0000
AL	CHARLES G. & CHRISTINE L. HOOD	01-836K-0050.0003
AM	JAMES D. MEADOWS	01-836K-0050.0001
AN	JAMES D. MEADOWS	01-836K-0050.0002
AO	MARK L. & SHARON KAY JORDAN	01-836K-0050.0000
AP	MARK L. & SHARON KAY JORDAN	01-836K-0049.0000
AQ	JOHN E. & VIOLET E. CORSO	01-836K-0048.0000
AR	JOHN E. & VIOLET E. CORSO	01-836K-0047.0000
AS	JOHN E. & VIOLET E. CORSO	01-836K-0046.0000
AT	AYLSSA R. NEGRI	01-836K-0045.0000
AU	AYLSSA R. NEGRI	01-836K-0044.0000
AV	JOHN MILLER	01-836K-0043.0000
AW	DONALD & ROSEMARIE MEADOWS	01-836K-0042.0000
AX	PAUL A. & MARY R. NEGRI	01-836K-0041.0000
AY	MORRIS W. BLEAU	01-836K-0040.0000
AZ	ALICE M. TAYLOR	01-836K-0039.0000
BA	JESSE MCKEE	01-836K-0038.0000
BB	LINDA DARLIN SPENCER	01-836K-0037.0000
BC	MARISSA J. & ROBERT B. FORSHEY	01-836K-0036.0000
BD	DONALD E. & PATRICIA A. GILBERT	01-836K-0034.0000
BE	MARISSA J. FORSHEY	01-836K-0033.0000
BF	MARISSA J. FORSHEY	01-836K-0032.0000
BG	WANDA S. JONES	01-836K-0014.0000
BH	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	01-8836-0023.0000
BI	OHIO RIVER (STATE OF WEST VIRGINIA)	OHIO RIVER
BJ	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	01-836B-0116.0000
BK	BROWNLEE LAND VENTURES, LP	01-836B-0115.0000
BL	BUSINESS DEV CORP OF THE NORTHERN PANHANDLE	01-836B-0119.0000
BM	MARK T. SVETIC	01-836F-0024.0000
BN	MARK T. SVETIC	01-836F-0025.0000
BO	C & P TELEPHONE COMPANY OF WEST VIRGINIA	01-836F-0078.0000
BP	JAMES B. LANDWEHR SR.	01-836F-0080.0000
BQ	LINDA M. LEMASTERS	01-836F-0087.0000
BR	AMY N. FREY	01-836F-0088.0000
BS	GILBERT FEZER	01-836F-0103.0000
BT	WANDA MARLENE SAYRE	01-836F-0104.0000
BU	WANDA MARLENE SAYRE	01-836F-0105.0000
BV	WANDA MARLENE SAYRE	01-836F-0106.0000
BW	WANDA MARLENE SAYRE	01-836F-0107.0000
BX	WANDA MARLENE SAYRE	01-836F-0108.0000
BY	RENEE M. ALLMAN	01-836F-0109.0000
BZ	MILDRED M. HUNT, ESTATE	01-836F-0110.0000
CA	DENNIS RUSCHEL	01-836K-0001.0000
CB	DENNIS RUSCHEL	01-836K-0002.0000
CC	VILLAGE OF BEECH BOTTOM	01-836K-0003.0000
CD	DOLORES VIRGINIA COEN	01-836K-0012.0000
CE	VILLAGE OF BEECH BOTTOM	01-836K-0011.0000
CF	CURTIS D. & TINA L. OSSMAN	01-836K-0010.0000
CG	LINDA COX	01-836K-0009.0000
CH	WILLIAM JONES	01-836K-0008.0000
CJ	NICHOLAS RYMAWEC	01-836F-0098.0000
CJ	GARY EDWARD & CONSTANCE L. LEONARD	01-836F-0095.0000
CK	VILLAGE OF BEECH BOTTOM	01-836F-0094.0000
CL	WILLIAM E. & DEBRA L. LEONARD	01-836F-0093.0000
CM	TARA D. SUTER	01-836F-0092.0000
CN	TARA D. SUTER	01-836F-0091.0000
CO	JOHN ESKEY	01-836F-0090.0000
CP	AMY N. FREY	01-836F-0089.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
CO	BRUCE & DEBBI SELMON	01-836F-0086.0000
CR	BRUCE & DEBBI SELMON	01-836F-0085.0000
CS	TERRY LYNN LULLY	01-836F-0084.0000
CT	GEORGE W. & CHARLOTTE BARNHART	01-836F-0081.0000
CU	GEORGE W. & CHARLOTTE BARNHART	01-836F-0079.0000
CV	JAC FRED W.V. LLC, A NORTH CAROLINA LLC	01-836F-0026.0000
CW	MICHAEL EDWARD & EMMA FEDCZAK	01-836F-0076.0000
CX	MICHAEL EDWARD & EMMA FEDCZAK	01-836F-0075.0000
CY	SHELBY L. CASTO	01-836F-0074.0000
CZ	SHELBY L. CASTO	01-836F-0073.0000
DA	PHYLLIS MARKER	01-836F-0072.0000
DB	GLENN T. & CAROLYN MOORE	01-836F-0071.0000
DC	CARDOLYN K. MOORE	01-836F-0070.0000
DD	JEFFREY & CHERYL WEEKLEY	01-836F-0069.0000
DE	JEFFREY L. STOLLAR	01-836F-0068.0000
DF	JUNE E. MORRELL	01-836F-0067.0000
DG	JUNE E. MORRELL	01-836F-0066.0000
DH	SHIRLEY M. RYMAWEC	01-836F-0065.0000
DI	ALLEN KEITH & CAROLE YANRLING	01-836F-0064.0000
DJ	JUNE E. MORRELL	01-836F-0063.0000
DK	EDWARD A. POLAND	01-836F-0062.0000
DL	LELAND J. & TRACEY A. DICKINSON	01-836F-0061.0000
DM	THE VILLAGE OF BEECH BOTTOM	01-836F-0060.0000
DN	JOYCE L. PAINTER	01-836F-0059.0000
DO	JANET L. RICHARDSON	01-836F-0058.0000
DP	JANET L. RICHARDSON	01-836F-0057.0000
DQ	JANET L. RICHARDSON	01-836F-0056.0000
DR	JANET L. RICHARDSON	01-836F-0055.0000
DS	JANET L. RICHARDSON	01-836F-0054.0000
DT	MONONGAHELA POWER COMPANY	01-836F-0053.0000
DU	LARRY W. GRIMES	01-836F-0052.0000
DV	LARRY W. GRIMES	01-836F-0051.0000
DW	BOARD OF EDUCATION	01-836B-0106.0000
DX	THE VILLAGE OF BEECH BOTTOM	01-836B-0017.0000
DY	THE VILLAGE OF BEECH BOTTOM	01-836B-0016.0000
EZ	JUSTIN & AMANDA SMART	01-836B-0013.0000
EA	GEORGE W. & JUDY LEWIS	01-836B-0014.0000
EB	BELINDA DAUGHERTY ETAL	01-836B-0011.0000
EC	BARBARA MCCUTCHAN	01-836B-0010.0000
ED	WILLIAM B. CAIN JR. & ELIZABETH N. CAIN	01-836B-0009.0000
EE	SHEILA ANN LAZEAR	01-836B-0008.0000
EF	SHEILA ANN LAZEAR	01-836B-0007.0000
EG	JOHN C. & KELLY A. RICHIE	01-836B-0006.0000
EH	JOHN C. & KELLY A. RICHIE	01-836B-0005.0000
EI	PATRICK J. DALBO	01-836B-0002.0000
EJ	THE VILLAGE OF BEECH BOTTOM	01-836B-0001.0000
EK	STATE ROUTE #2	RIGHT OF WAY
EL	JOYCE A. SMITH	01-836B-0120.0000
EM	EMASES PROPERTIES, LLC	01-836B-0121.0001
EN	LARRY WILLIAM COUCH	01-836B-0124.0000
EO	EDWARD A. CONERY	01-836B-0125.0000
EP	LOUIS & ARLINE MILLER	03-836-0005.0000
EQ	LOUIS & ARLINE MILLER	03-836-0006.0000
ER	ELVINA WELLS BUCHEY & ET AL	03-831-0074.0000
ES	BERNARD J. LOMBARD III	03-931-0081.0000
ET	STEPHEN A. FODOR & JUDY L. BROWNLEE	03-836-0176.0000
EU	JOHN R. HOFFMAN & ALICE J. BUCHANAN	03-836-0175.0000
EV	PAUL D. & KIMBERLY D. LEONARD	03-836-0173.0000
EW	BRANNON P. & EMILY M. LEONARD	03-836-0172.0000
EX	BRANNON P. & EMILY M. LEONARD	03-836-0171.0000
EY	HARLEY J. LEMASTERS	03-836-0170.0000
EZ	HARLEY J. LEMASTERS	03-836G-0047.0000
FA	HARLEY J. LEMASTERS	03-836G-0046.0000
FB	HARLEY J. LEMASTERS	03-836G-0045.0000
FC	HARLEY J. LEMASTERS	03-836G-0044.0000
FD	HARLEY J. LEMASTERS	03-836G-0043.0000
FE	HARLEY J. LEMASTERS	03-836G-0042.0000
FF	HARLEY J. LEMASTERS	03-836G-0041.0000
FG	LESTER & KATHERINE WALLACE	03-836G-0001.0000
FH	TONYA S. LOWE	03-836L-0011.0000
FI	JEFFERY M. & KRISTINA L. BARR	03-836L-0011.0001
FJ	AMANDA HUFF	03-836L-0017.0000
FK	CONNIE WAGNER	03-836L-0015.0000
FL	BRIAN D. & CASEY K. RICHARDSON	03-836L-0021.0001
FM	WINDSOR COAL COMPANY	03-836L-0021.0000
FN	FLOYD R. & DORIS M. LOUQHRIE	03-836L-0032.0000
FO	WINDSOR COAL COMPANY	03-836L-0036.0000
FP	WINDSOR COAL COMPANY	03-836-0103.0000
FQ	BROOKE COUNTY COMMISSION	03-836-0103.0001
FR	WINDSOR COAL COMPANY	03-841-0049.0000
FS	ERNEST F. & JOANNE CAPP	03-841-0052.0000
FT	SCOTT A. & SANDRA J. SANDRETH	03-841-0050.0000
FU	DUSTIN DAVID & MARY ELIZABETH WHITE	03-841-0051.0000
FV	ERNEST F. & JOANN P. CAPP	03-841-0053.0000
FW	MARGARET E. CIPOLETTI	03-841-0061.0008
FX	ERIC CONRAD & WILDA P. FREELAND	03-841-0055.0000
FY	WILLIAM & DAWNA MILLER	03-841-0061.0002
FZ	KEVIN S. WEEKLEY	03-841-0056.0000
GA	MICHAEL PAUL ALLEN	03-841-0061.0003
GB	ERNEST F. & JOANN P. CAPP	03-841-0061.0001
GC	ERNEST F. & JOANN P. CAPP	03-841-0062.0000
GD	ERNEST F. & JOANN P. CAPP	03-841-0063.0000
GE	EMILY J. HUFFNER	03-841-0065.0001
GF	CARL & JUDITH SPENCER	03-841-0065.0000
GG	ERNEST F. & JOANNE CAPP	03-841-0064.0000
GH	COREY CONLEY	03-841-0061.0005
GI	ROBERT LEE & DELMA LOU HUFFMAN	03-841-0067.0000
GJ	CARL E. & JUDITH SPENCER	03-841-0066.0000
GK	SANDRA W. BUTLER	03-841-0061.0004
GL	SANDRA W. BUTLER	03-841-0068.0000
GM	SANDRA W. BUTLER	03-841-0069.0000
GN	SANDRA W. BUTLER	03-841-0071.0000
GO	JAY GLEN COLLINS	03-841-0080.0000
GP	DALE T. & MARY R. WOOD	03-841-0084.0000

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{R-V+0}
Production Company™

OPERATOR'S

BARRY GREATHOUSE A BRK

DATE: 11-18-2019

WELL #:

3H

DRAWN BY: R.GRIMES

DISTRICT:
BUFFALO

COUNTY:
BROOKE

STATE:
WV

SCALE: N/A
DRAWING NO: 2017-422

WELL LOCATION PLAT

PROPERTY NUMBER 2501166087
PAD ID 3001156331