

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

API 47-009-00297 County BROOKE District CROSS CREEK
Quad STEUBENVILLE EAST, OH Pad Name STATE OF WV DNR A BRK PAD Field/Pool Name PANHANDLE FIELD WET
Farm name STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR Well Number STATE OF WV DNR A 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 4,463,498.74 Easting 539,503.62
Landing Point of Curve Northing 4,463,386.84 Easting 539,398.67
Bottom Hole Northing 4,459,755.40 Easting 540,830.31

Elevation (ft) 1,139.9' 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

Date permit issued 2/7/2020 Date drilling commenced 04/01/2020 Date drilling ceased 10/20/2020
Date completion activities began 12/31/2020 Date completion activities ceased 2/04/2021
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 542 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 692 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 99 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by:
Bryce Stiller
8-08/27/2021

API 47-009 - 00297

Farm name STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR

Well number STATE OF WV DNR A 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	126	NEW	J-55/94#		Y
Surface	17.5	13.375	645	NEW	J-55/54.50#	559.1	Y, 30 BBLS
Coal							
Intermediate 1	12.25	9.625	1,465	NEW	J-55/36#		Y, 35 BBLS
Intermediate 2	12.25	9.625					
Intermediate 3							
Production	8.75/8.50	6.5	19,154	NEW	P-110HP/20#		Y, 150 BBLS
Tubing		2.375	6,324	NEW	P-110/4.7#		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	584	15.60	1.19	694.96	SURFACE	8
Coal							
Intermediate 1	CLASS A	579	15.60	1.19	698.01	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,820	15.60	1.19	4,545.8	SURFACE	24
Tubing							

Drillers TD (ft) 19,154'

Loggers TD (ft) 19,154'

Deepest formation penetrated _____

Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 4,848

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

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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API 47-009 - 00297 Farm name STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR Well number STATE OF WV DNR A 6H

PERFORATION RECORD

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

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

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

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Please insert additional pages as applicable.

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Farm name STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR Well number STATE OF WV DNR A 6H

PRODUCING FORMATION(S)	DEPTHS	
	TVD	MD
MARCELLUS	5,656	5,956

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2025 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 4,595 mcfpd Oil 1,296 bpd NGL _____ bpd Water 1,608 bpd
GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ 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 GROGANS MILL ROAD City THE WOODLANDS State TX Zip 77380

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

Stimulating Company SWN DRILLING COMPANY
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 [Signature] Title SENIOR REGULATORY ANALYST Date 4/19/2021

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

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/1/2021
Job End Date:	1/21/2021
State:	West Virginia
County:	Brooke
API Number:	47-009-00297-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	STATE OF WV DNR A BRK 6
Latitude:	40.32062101
Longitude:	-80.53578099
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,777
Total Base Water Volume (gal):	20,306,208
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	88.33996	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.27747	

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SWN FRW-11LC	SWN Well Services	Friction Reducer					
				Listed Below			
Ecopol-FEAC	SWN Well Services	Iron Control					
				Listed Below			
Econo-CI200	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
Plexaid 655WG	SWN Well Services	Scale Inhibitor					
				Listed Below			
HCL	SWN Well Services	Solvent					
				Listed Below			
Tolicide PS 50A	SWN Well Services	Biocide					
				Listed Below			
Sand	SWN Well Services	Proppant					
				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	11.30499	
		Hydrochloric Acid	7647-01-0	15.00000	0.03571	
		Petroleum Distillates, Hydrotreated	64742-47-8	25.00000	0.02314	
		Tetrakis	55566-30-8	55.00000	0.00926	
		Glycerin	56-81-5	50.00000	0.00296	

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			Ammonium Chloride	12125-02-9	2.00000	0.00185	
			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00139	
			Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00139	
			Diethylenetriamine penta	15827-60-8	10.00000	0.00059	
			Acetic Acid	64-19-7	37.50000	0.00048	
			Methanol	67-56-1	80.00000	0.00029	
			Citric Acid	77-92-9	22.50000	0.00029	
			Acrylic acid terpolymer	397256-50-7	1.00000	0.00017	
			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	12/22/2020	19,070	18,977	36
2	1/1/2021	18,943	18,799	30
3	1/3/2021	18,730	18,550	36
4	1/3/2021	18,517	18,337	36
5	1/4/2021	18,304	18,124	36
6	1/5/2021	18,090	17,911	36
7	1/5/2021	17,877	17,698	36
8	1/6/2021	17,664	17,484	36
9	1/6/2021	17,451	17,271	36
10	1/6/2021	17,238	17,058	36
11	1/7/2021	17,025	16,845	36
12	1/7/2021	16,812	16,632	36
13	1/7/2021	16,598	16,419	36
14	1/8/2021	16,385	16,206	36
15	1/8/2021	16,172	15,992	36
16	1/8/2021	15,959	15,779	36
17	1/9/2021	15,746	15,566	36
18	1/9/2021	15,533	15,353	36
19	1/9/2021	15,319	15,140	36
20	1/9/2021	15,106	14,927	36
21	1/10/2021	14,893	14,714	36
22	1/10/2021	14,680	14,500	36
23	1/10/2021	14,467	14,287	36
24	1/11/2021	14,254	14,074	36
25	1/11/2021	14,041	13,861	36
26	1/11/2021	13,827	13,648	36
27	1/11/2021	13,614	13,435	36
28	1/12/2021	13,401	13,221	36
29	1/12/2021	13,188	13,008	36
30	1/12/2021	12,975	12,795	36
31	1/12/2021	12,762	12,582	36
32	1/13/2021	12,549	12,369	36
33	1/13/2021	12,335	12,156	36
34	1/13/2021	12,122	11,943	36
35	1/13/2021	11,909	11,729	36
36	1/14/2021	11,696	11,516	36
37	1/14/2021	11,483	11,303	36
38	1/14/2021	11,270	11,090	36
39	1/14/2021	11,056	10,877	36
40	1/15/2021	10,843	10,664	36
41	1/15/2021	10,630	10,451	36
42	1/15/2021	10,417	10,237	36
43	1/15/2021	10,204	10,024	36
44	1/16/2021	9,991	9,811	36
45	1/16/2021	9,773	9,598	36
46	1/17/2021	9,564	9,386	36
47	1/17/2021	9,351	9,168	36
48	1/18/2021	9,138	8,958	36
49	1/17/2021	8,928	8,745	36
50	1/18/2021	8,712	8,532	36
51	1/18/2021	8,499	8,319	36
52	1/18/2021	8,286	8,106	36
53	1/18/2021	8,072	7,893	36
54	1/19/2021	7,859	7,680	36
55	1/19/2021	7,646	7,466	36
56	1/19/2021	7,433	7,253	36
57	1/20/2021	7,220	7,040	36
58	1/20/2021	7,007	6,827	36
59	1/20/2021	6,793	6,614	36
60	1/20/2021	6,580	6,401	36
61	1/21/2021	6,367	6,188	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	1/1/2021	80.86	7,604	7,074	3,598	251,500	7,827	0
2	1/1/2021	85.08	7,928	4,791	3,968	372,620	11,081	0
3	1/3/2021	81.7	6,874	5,561	3,928	362,900	8,991	0
4	1/4/2021	97.1	7,953	5,710	4,444	355,140	8,586	0
5	1/4/2021	96	7,040	5,094	4,423	362,060	8,852	0
6	1/5/2021	98	7,896	5,295	4,163	364,200	8,233	0
7	1/5/2021	98.8	8,061	6,089	4,186	352,620	8,262	0
8	1/6/2021	93.82	8,046	5,495	4,754	355,100	8,924	0
9	1/6/2021	94	8,186	5,124	4,671	355,000	8,273	0
10	1/6/2021	95.2	8,229	5,375	4,486	359,660	7,702	0
11	1/7/2021	92.6	8,177	5,458	4,525	352,070	8,116	0
12	1/7/2021	92.9	7,949	5,654	4,602	354,460	8,403	0
13	1/7/2021	95.2	8,051	4,898	4,717	339,600	7,731	0
14	1/8/2021	92.8	7,739	5,475	4,591	352,160	8,225	0
15	1/8/2021	93.1	7,904	5,714	4,423	355,300	8,111	0
16	1/8/2021	96.4	8,000	5,592	4,631	361,740	8,226	0
17	1/9/2021	88.5	7,971	4,651	4,487	360,760	8,072	0
18	1/9/2021	92.2	7,807	4,842	4,312	358,120	8,109	0
19	1/9/2021	98.8	7,665	4,590	4,572	356,140	8,369	0
20	1/9/2021	95.7	7,884	4,425	4,286	353,180	8,313	0
21	1/10/2021	94.9	7,539	5,589	4,741	365,000	8,108	0
22	1/10/2021	94.4	7,578	5,340	4,560	359,540	8,049	0
23	1/10/2021	97.8	8,117	5,538	4,506	357,880	8,148	0
24	1/11/2021	93.2	7,801	4,952	4,383	362,480	8,304	0
25	1/11/2021	91.6	7,842	5,498	4,289	358,480	8,185	0
26	1/11/2021	98.2	7,881	4,222	4,093	356,760	8,499	0
27	1/12/2021	93.9	8,116	4,683	4,441	354,800	8,279	0
28	1/12/2021	93.8	7,551	4,693	4,245	355,720	7,840	0
29	1/12/2021	93.2	7,668	4,560	4,151	357,500	7,794	0
30	1/12/2021	99	7,626	5,486	4,515	360,940	8,079	0
31	1/12/2021	97.5	7,094	4,525	4,929	361,820	8,019	0
32	1/13/2021	94.1	7,434	5,320	4,281	356,900	7,892	0
33	1/13/2021	95.6	7,351	4,258	4,510	354,280	7,702	0
34	1/13/2021	100	7,379	5,122	4,428	357,840	7,916	0
35	1/13/2021	100	6,991	5,157	4,213	351,270	7,942	0
36	1/14/2021	100	7,053	4,192	4,715	354,120	8,022	0
37	1/14/2021	95.5	7,291	5,531	4,682	356,300	7,600	0
38	1/14/2021	96	7,334	5,251	4,444	360,060	7,434	0
39	1/14/2021	92.9	7,576	5,141	4,194	358,100	7,626	0
40	1/15/2021	98.6	7,164	5,429	4,450	357,860	7,662	0
41	1/15/2021	96.2	7,221	5,169	4,432	358,760	7,457	0
42	1/15/2021	99	7,243	5,344	4,316	348,380	7,285	0
43	1/16/2021	99.2	7,064	5,102	3,975	366,900	7,560	0
44	1/16/2021	100.3	7,099	5,062	4,211	357,500	7,594	0
45	1/17/2021	100.9	7,206	5,101	4,316	362,320	7,543	0
46	1/17/2021	97	6,774	5,534	4,580	358,900	7,490	0
47	1/17/2021	95.2	7,006	5,842	4,222	358,740	7,373	0
48	1/17/2021	99	7,046	4,005	4,341	360,740	7,511	0
49	1/17/2021	99	7,114	4,986	4,265	366,460	7,503	0
50	1/18/2021	100.1	6,979	5,104	4,512	352,080	7,301	0
51	1/18/2021	94.9	6,585	5,564	4,150	353,860	7,316	0
52	1/18/2021	100	7,016	5,485	4,128	348,900	7,502	0
53	1/19/2021	100	7,028	5,418	4,236	356,660	7,572	0
54	1/19/2021	92	7,517	5,574	4,401	360,160	7,448	0
55	1/19/2021	100	7,032	5,425	4,376	352,940	7,600	0
56	1/20/2021	97.4	7,532	4,270	4,435	354,000	7,388	0
57	1/20/2021	99.3	6,575	5,660	4,297	349,160	7,313	0
58	1/20/2021	98.3	6,866	4,401	4,089	357,920	7,855	0
59	1/20/2021	98	6,939	5,557	4,324	354,640	7,403	0
60	1/21/2021	100	6,594	5,315	3,956	358,080	7,386	0
61	1/21/2021	97.3	7,060	5,195	3,962	356,360	7,793	0

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Well Name: State of WV DNR A 6H

47009002970000

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	542.00	542.00	
Top of Salt Water	692.00	692.00	NA	NA	
Pittsburgh Coal	99.00	99.00	342.00	342.00	
Pottsville (ss)	342.00	342.00	691.00	691.00	
Raven Cliff (ss)	691.00	691.00	874.00	874.00	
Maxton (ss)	948.00	948.00	1241.00	1241.00	
Big Injun (ss)	1241.00	1241.00	1395.00	1395.00	
Berea (siltstone)	1674.00	1674.00	5243.00	5147.00	
Rhinestreet (shale)	5243.00	5147.00	5516.00	5389.00	
Cashaqua (shale)	5516.00	5389.00	5582.00	5440.00	
Middlesex (shale)	5582.00	5440.00	5662.00	5498.00	
Burket (shale)	5662.00	5498.00	5686.00	5515.00	
Tully (ls)	5686.00	5515.00	5782.00	5573.00	
Mahantango (shale)	5782.00	5573.00	5956.00	5656.00	
Marcellus (shale)	5956.00	5656.00	NA	NA	GAS

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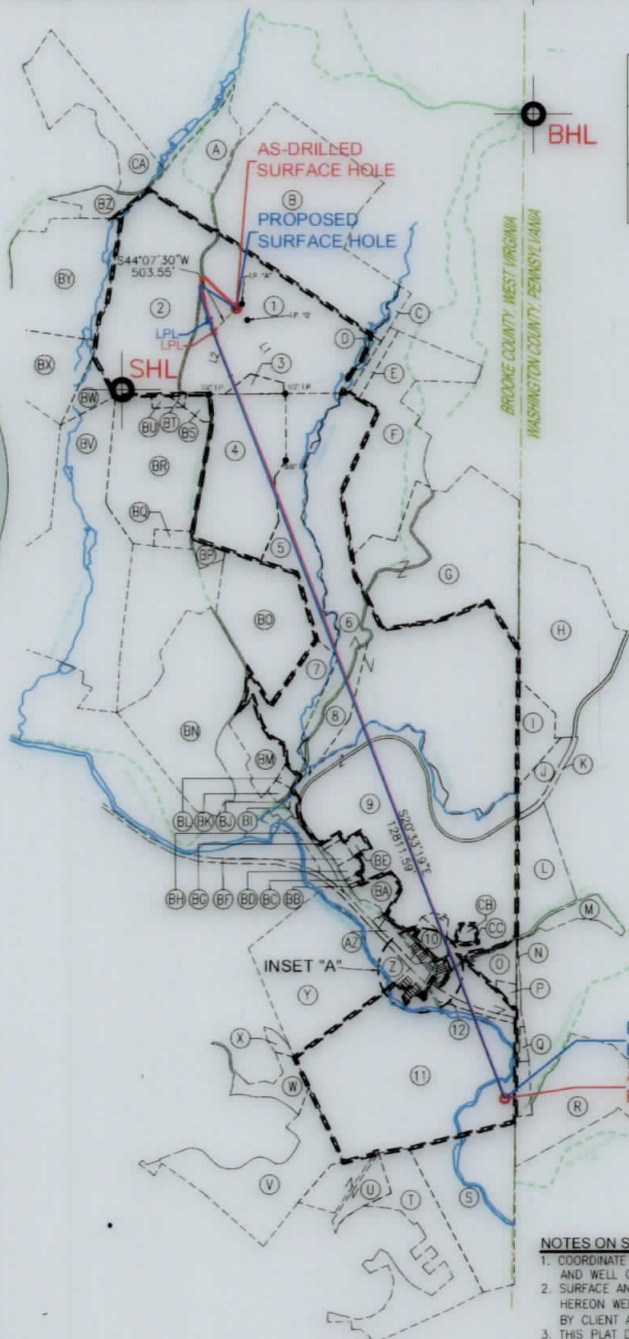
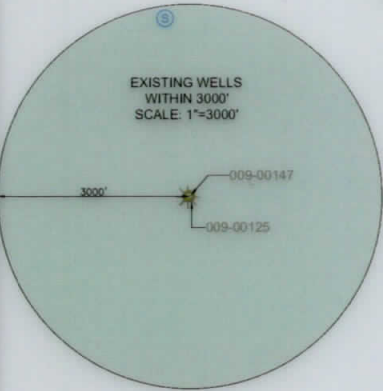
(2000' SCALE) LATITUDE: 40°20'00" SURFACE HOLE
9767'

(2000' SCALE) LATITUDE: 40°17'30" BOTTOM HOLE

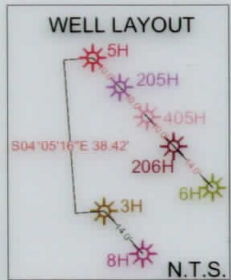
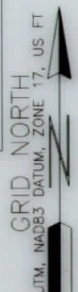
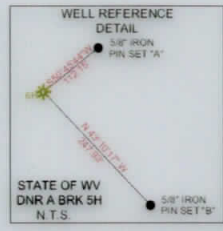
5482'

(2000' SCALE) LONGITUDE: 80°30'00" BOTTOM HOLE
1588'
4464'
(2000' SCALE) LONGITUDE: 80°30'00" SURFACE HOLE

JHA Companies
ENGINEERS SURVEYORS ENVIRONMENTAL GIS MAPPING
www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100



LINE	BEARING	DISTANCE
L1	N29°39'54"W	1537.09'
L2	S17°26'27"W	1407.41'



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4463498.74
EASTING: 539503.62
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4463386.84
EASTING: 539398.67
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4459755.40
EASTING: 540830.31
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4463498.74
EASTING: 539503.62
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4463438.84
EASTING: 539375.95
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4459756.26
EASTING: 540832.38

- 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.



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

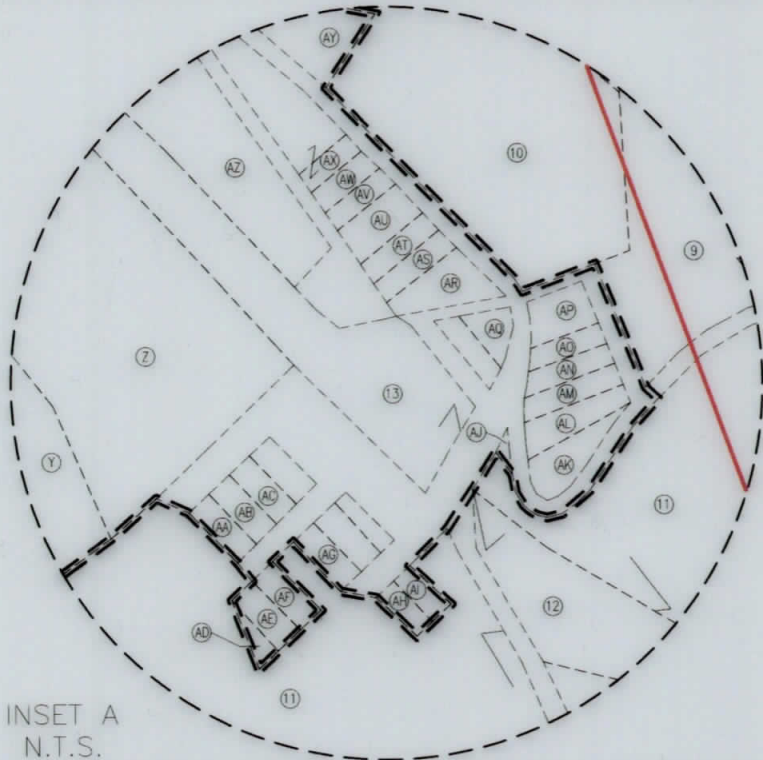
	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	STATE OF WV DNR A
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)	OPERATOR'S WELL #: BRK 6H API WELL #: 47 009 297 STATE COUNTY 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 NORTH				ELEVATION: 1139.9'			
DISTRICT: CROSS CREEK				COUNTY: BROOKE			
SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR				QUADRANGLE: STEUBENVILLE EAST, OH			
OIL & GAS ROYALTY OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR				ACREAGE: ±97.50			
				ACREAGE: ±97.50			
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: 5,853' TVD 19,154' 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	EXISTING LANDING POINT LOCATION	PROPOSED SURFACE HOLE / BOTTOM HOLE	PROPOSED LANDING POINT LOCATION	ACCESS ROAD	PUBLIC ROAD	FLOOD PLAN	LEASE BOUNDARY	ASDRILLED PATH	PROPOSED PATH
REVISIONS:	DATE: 04-07-2021										
	API NO: 47-009-00297										
	DRAWN BY: R. GRIMES										
	SCALE: 1" = 3000'										
	DRAWING NO: 2019-0789										
	WELL LOCATION PLAT										



INSET A
N.T.S.

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 FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION (S/R)	04-CC16-0007.0001
TRACT	SURFACE OWNER	TAX PARCEL
2	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	04-CC16-0006.0000
3	COLLIERS SPORTSMAN CLUB	04-CC20-0045.0000
4	COLLIERS SPORTSMAN CLUB	04-CC20-0024.0000
5	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	04-CC20-0025.0001
6	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	04-CC20-0025.0000
7	WILLIAM MORGAN & DORIS J. ROUSE	04-CC20-0020.0000
8	DEBORAH K. SUDAY	04-CC20-0032.0000
9	NICKOLES 3 LLC	04-CC20-0033.0000
10	FRANK & ANNA MAE MCQUILLAN, ANNETTE MILLER (L/E)	04-C24B-0007.0000
11	MICHAEL OBER	04-CC24-0007.0000
12	NORFOLK & WESTERN RAILWAY CO.	04-C19K-0018.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AJ	JAMES & CHARLENE JOHNSON (SURVIVOR)	04-C24B-0010.0000
AK	GREG & CAROL NICKOLES	04-C24B-0011.0000
AL	GREG & CAROL NICKOLES	04-C24B-0012.0000
AM	GREG & CAROL NICKOLES	04-C24B-0013.0000
AN	GREG & CAROL NICKOLES	04-C24B-0014.0000
AO	H3 LLC	04-C24B-0015.0000
AP	NICKOLES 3 LLC	04-CC20-0033.0000
AQ	GREG & CAROL NICKOLES	04-C24B-0016.0000
AR	KATHY E. LAWRENCE	04-C24B-0020.0000
AS	DENNIS F. MCQUILLAN	04-C24B-0021.0000
AT	DENNIS F. MCQUILLAN	04-C24B-0022.0000
AU	ALICE M. STEVENS	04-C24B-0023.0000
AV	FRANKLIN WINSKI	04-C24B-0024.0000
AW	FRANKLIN WINSKI	04-C24B-0025.0000
AX	DEBRA MCQUILLAN ETAL (L/E FRANK L. & ANNA MAE MCQUILLAN)	04-C24B-0027.0000
AZ	GREGORY NICKOLES	04-C24B-0006.0000
AY	DEBRA MCQUILLAN ETAL (L/E FRANK L. & ANNA MAE MCQUILLAN)	04-C24B-0028.0000
BA	JANE KIERCE	04-C24B-0004.0000
BB	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	04-C24B-0003.0000
BC	EDWARD L. & CAROL J. THOMPSON	04-C24B-0002.0000
BD	JEFFREY, RANDY, & GREGORY NICKOLES (SURVIVOR)	04-C24B-0001.0000
BE	JEFFREY O. NICKOLES	04-CC20-0033.0001
BF	JAMES & CHARLENE JOHNSON (SURVIVOR)	04-CC20-0043.0000
BG	TIMOTHY J. DISERIO	04-CC20-0042.0000
BH	NORFOLK & WESTERN RAILWAY CO.	04-C24B-0029.0000
BI	ROBERT G. HIGGINBOTHAM JR.	04-CC20-0041.0000
BJ	JOHN ERNEST MILLER & JESSE ANDREW (SURVIVOR)	04-CC20-0004.0000
BK	WILLIAM & MILDRED T. MARINO	04-CC20-0035.0000
BL	ROBERT & DELORIS CLINE	04-CC20-0034.0000
BM	LINDY L. & SANTY GALIANO	04-CC20-0019.0001
BN	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0006.0000
BO	COLLIERS SPORTSMAN CLUB	04-CC20-0021.0000
BP	WILLIAM C. & ANNA MAE SAUNDERS	04-CC20-0023.0000
BQ	STACI & PATRICK BREEN (JTWS)	04-CC20-0003.0000
BR	WILLIAM & ANNA MAE SAUNDERS	04-CC20-0002.0000
BS	LINDA BURDIS	04-CC11-0085.0000
BT	DAVID C. DAMI	04-CC20-0001.0001
BU	DAVID C. DAMI	04-CC20-0002.0001
BV	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC19-0168.0000
BW	JASON P. NUZUM	04-CC19-0113.0000
BX	JASON P. NUZUM	04-CC15-0070.0000
BY	PETER D. & RUTH M. BLASKOVICH	04-CC15-0071.0000
BZ	LENORA J. RINEHART	04-CC15-0074.0000
CA	LARRY E. REED	04-CC15-0068.0001
CB	RANDY L. NICKOLES	04-C24B-0008.0000
CC	RANDY L. NICKOLES	04-C24B-0033.0000

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	THE PALFALVY IRREVOCABLE TRUST (DENNIS PALFALVY III)	04-CC16-0005.0000
B	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC16-0008.0001
C	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC16-0008.0000
D	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0046.0000
E	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0026.0000
F	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0027.0000
G	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0031.0000
H	PENWEIR CONSTRUCTION COMPANY	380-014-00-00-0004
I	PENWEIR CONSTRUCTION COMPANY	380-014-00-00-0003
J	CALVIN H. MYERS JR.	380-014-00-00-0002
K	PITTSBURGH & WEST VIRGINIA RAILROAD CO.	380-014-00-00-0001
L	RANDY L. NICKOLES	380-015-00-00-0019
M	WILLIAM & CAROLYN R. ROTELLINI	380-015-00-00-0018-01
N	*UNKNOWN*	*UNKNOWN*
O	JEFFREY O. NICKOLES	04-C24B-0009.0000
P	PITTSBURGH & WEST VIRGINIA RAILWAY CO.	04-C24F-0014.0000
Q	JERRY & LINDA MCNEELY	380-015-00-00-0001-02
R	ROBERT ROTELLINI & ANDREA L. PUSKARICH	380-015-00-00-0009
S	EUGENE CRUNY	04-CC24-0130.0000
T	DEAN SMITH	04-CC24-0099.0000
U	DEAN SMITH	04-CC24-0098.0000
V	GEORGE L. BRADLEY	04-CC24-0055.0000
W	RAYMOND CROSS, DENNIS P. CROSS, & KATHRYN R. BUTLER	04-CC24-0013.0000
X	WHEELING ENERGY WORKS LTD	04-CC24-0008.0000
Y	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC24-0003.0000
Z	NORFOLK & WESTERN RAILWAY CO.	04-C24B-0029.0000
AA	MICHAEL L. OBER	04-C24F-0001.0000
AB	MARY ELLEN MORRIS	04-C24F-0002.0000
AC	MARY ELLEN MORRIS	04-C24F-0003.0000
AD	*UNKNOWN*	04-C24F-0011.0000
AE	MICHAEL L. OBER	04-C24F-0010.0000
AF	MICHAEL L. OBER	04-C24F-0009.0000
AG	JOSEPH & LINA SANTORO (SURVIVOR)	04-C24F-0008.0000
AH	ROBERT & PEGGY ANKROM (JTWS)	04-C24F-0012.0000
AI	ROBERT & PEGGY ANKROM (JTWS)	04-C24F-0013.0000

08/27/2021

REVISIONS:	COMPANY: SWN Production Company, LLC		DATE: 04-07-2021	
	OPERATOR'S: STATE OF WV DNR A		API NO: 47-009-00297	
	WELL #: BRK 6H		DRAWN BY: R. GRIMES	
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	SCALE: N/A
				DRAWING NO: 2019-0789
				WELL LOCATION PLAT