

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

API 47- \_\_\_\_\_ - \_\_\_\_\_ County \_\_\_\_\_ District \_\_\_\_\_  
Quad \_\_\_\_\_ Pad Name \_\_\_\_\_ Field/Pool Name \_\_\_\_\_  
Farm name \_\_\_\_\_ Well Number \_\_\_\_\_  
Operator (as registered with the OOG) \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) \_\_\_\_\_ 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)  
\_\_\_\_\_  
\_\_\_\_\_

Date permit issued \_\_\_\_\_ Date drilling commenced \_\_\_\_\_ Date drilling ceased \_\_\_\_\_  
Date completion activities began \_\_\_\_\_ Date completion activities ceased \_\_\_\_\_  
Verbal plugging (Y/N) \_\_\_\_\_ Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

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

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

Reviewed by:  
~~08/16/2024~~

API 47- \_\_\_\_\_ - \_\_\_\_\_ Farm name \_\_\_\_\_ Well number \_\_\_\_\_

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							
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
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							
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) \_\_\_\_\_ Loggers TD (ft) \_\_\_\_\_  
 Deepest formation penetrated \_\_\_\_\_ Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) \_\_\_\_\_

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 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

API 47- \_\_\_\_\_ - \_\_\_\_\_ Farm name \_\_\_\_\_ Well number \_\_\_\_\_

**PERFORATION RECORD**

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

Please insert additional pages as applicable.

**STIMULATION INFORMATION PER STAGE**

Complete a separate record for each stimulation stage.

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

Please insert additional pages as applicable.

API 47- \_\_\_\_\_ - \_\_\_\_\_ Farm name \_\_\_\_\_ Well number \_\_\_\_\_

PRODUCING FORMATION(S)

DEPTHS

	TVD	MD
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

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

OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd  
GAS MEASURED BY  Estimated  Orifice  Pilot

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

Drilling Contractor \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Logging Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Stimulating Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please insert additional pages as applicable.

Completed by \_\_\_\_\_ Telephone \_\_\_\_\_  
Signature *Denise Grantham* Title \_\_\_\_\_ Date \_\_\_\_\_

Via Federal Express

August 13, 2024

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

**RE:** SWN Production Company, LLC  
Operator ID: 494512924  
Regulatory Filings: Revised WR-35 & Stim/Perf Report

To Whom It May Concern:

Please find enclosed the revised form WR-35 Operator's Report of Well Work along with revised supporting Stim/Perf Report, for the wells listed below :

API	Well Name
47-051-02463	Yocum MSH 6H

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

Sincerely,



Denise Grantham  
Regulatory Analyst  
SW Appalachia Division

/dg  
Encl.



**YOCUM MSH 6H (REVISED)**  
**ATTACHMENT 1**  
**PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
Stage No	Perforation I	Perf From MD	Perf to MD	Number of Perforations
1	4/27/2023	21,810	21,717	36
2	4/30/2023	21,686	21,508	36
3	5/1/2023	21,475	21,297	36
4	5/1/2023	21,264	21,086	36
5	5/1/2023	21,052	20,874	36
6	5/2/2023	20,841	20,663	36
7	5/2/2023	20,630	20,452	36
8	5/2/2023	20,419	20,241	36
9	5/3/2023	20,207	20,029	36
10	5/3/2023	19,996	19,818	36
11	5/3/2023	19,785	19,607	36
12	5/4/2023	19,574	19,396	36
13	5/4/2023	19,363	19,185	36
14	5/4/2023	19,151	18,973	36
15	5/4/2023	18,940	18,762	36
16	5/4/2023	18,729	18,551	36
17	5/5/2023	18,518	18,340	36
18	5/5/2023	18,306	18,128	36
19	5/5/2023	18,095	17,917	36
20	5/5/2023	17,884	17,706	36
21	5/5/2023	17,673	17,495	36
22	5/5/2023	17,462	17,284	36
23	5/6/2023	17,250	17,072	36
24	5/6/2023	17,039	16,861	36
25	5/6/2023	16,828	16,650	36
26	5/6/2023	16,617	16,439	36
27	5/6/2023	16,405	16,227	36
28	5/7/2023	16,194	16,016	36
29	5/7/2023	15,983	15,805	36
30	5/7/2023	15,772	15,594	36
31	5/7/2023	15,561	15,382	36
32	5/8/2023	15,349	15,171	36
33	5/8/2023	15,138	14,960	36
34	5/8/2023	14,927	14,749	36
35	5/8/2023	14,716	14,538	36
36	5/8/2023	14,504	14,326	36
37	5/9/2023	14,293	14,115	36
38	5/9/2023	14,082	13,904	36
39	5/9/2023	13,871	13,693	36
40	5/9/2023	13,659	13,481	36
41	5/9/2023	13,448	13,270	36

**YOCUM MSH 6H (REVISED)**  
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STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
42	5/10/2023	13,237	13,059	36
43	5/10/2023	13,026	12,848	36
44	5/10/2023	12,815	12,637	36
45	5/10/2023	12,603	12,425	36
46	5/10/2023	12,392	12,214	36
47	5/10/2023	12,181	12,003	36
48	5/11/2023	11,970	11,792	36
49	5/11/2023	11,758	11,580	36
50	5/11/2023	11,547	11,369	36
51	5/11/2023	11,336	11,158	36
52	5/11/2023	11,125	10,947	36
53	5/11/2023	10,914	10,736	36
54	5/12/2023	10,702	10,524	36
55	5/12/2023	10,491	10,313	36
56	5/12/2023	10,280	10,102	36
57	5/12/2023	10,069	9,891	36
58	5/12/2023	9,857	9,679	36
59	5/13/2023	9,646	9,468	36
60	5/13/2023	9,435	9,257	36
61	5/13/2023	9,224	9,046	36
62	5/13/2023	9,013	8,835	36
63	5/13/2023	8,801	8,623	36
64	5/14/2023	8,590	8,412	36
65	5/14/2023	8,379	8,201	36
66	5/14/2023	8,168	7,990	36
67	5/14/2023	7,956	7,778	36
68	5/14/2023	7,745	7,567	36

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