

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

API 47-009-00317 County BROOKE District BUFFALO DISTRICT
Quad TILTONSVILLE Pad Name BRIAN TESLOVICH BRK-PAD1 Field/Pool Name PANHANDLE WET FIELD
Farm name BRIAN L TESLOVICH Well Number BRIAN TESLOVICH BRK 5H
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 4,451,868.939 Easting 531,197.358
Landing Point of Curve Northing 4,452,025.692 Easting 531,639.152
Bottom Hole Northing 4,455,608.559 Easting 530,059.803

Elevation (ft) 1149.5' 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 6/29/2020 Date drilling commenced 10/26/2021 Date drilling ceased 11/05/2021
Date completion activities began 1/20/2022 Date completion activities ceased 3/4/2022
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

RECEIVED
Office of Oil and Gas
MAY 03 2022

Freshwater depth(s) ft 115' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 405' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 258' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed

Reviewed by:
[Signature] 8/23/22

09/09/2022

API 47-009 - 00317 Farm name BRIAN L TESLOVICH Well number BRIAN TESLOVICH BRK 5H

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	326'	NEW	J-55/54.5#	197.4' / 155.8'	Y; 26 BBLS
Coal							
Intermediate 1	12.25	9.625	1,636'	NEW	J-55/36#		Y; 42 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	19,487'	NEW	HCP-110/20#		Y; 50 BBLS
Tubing		2.375	6,593'	NEW	P-110/6.5#		N
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	370	15.6	1.20	444	SURFACE	8
Coal							
Intermediate 1	CLASS A	659	15.6	1.19	784.21	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,410	15.0	1.29	4,398.90	SURFACE	24
Tubing							

Drillers TD (ft) 19,487' Loggers TD (ft) 19,487'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5,174'

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: 5 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 INTERMEDIATE: 21 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 396 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

RECEIVED
Office of Oil and Gas
MAY 03 2022

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____
 WV Department of Environmental Protection

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47- 009 - 00317

Farm name BRIAN L TESLOVICH

Well number BRIAN TESLOVICH BRK 5H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMENT	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 (bbls)	Amount of Nitrogen/other (units)
		SEE	ATTACHMENT	2				

RECEIVED
Office of Oil and Gas
MAY 03 2022
WV Department of
Environmental Protection

Please insert additional pages as applicable.

API 47- 009 - 00317 Farm name BRIAN L TESLOVICH Well number BRIAN TESLOVICH BRK 5H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>MARCELLUS</u>	<u>5,739'</u> TVD	<u>6,372'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 2,043 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs
 OPEN FLOW Gas 4,818 mcfpd Oil 645 bpd NGL _____ bpd Water 1,719 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 ₂ S, ETC)
	<u>0</u>		<u>0</u>		
	<u>SEE</u>	<u>ATTACHMENT</u>	<u>3</u>		

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 RD City THE WOODLANDS State TX Zip 77380
 Cementing Company SCHLUMBERGER WELL SERVICES
 Address 110 SCHLUMBERGER DRIVE City SUGAR LAND State TX Zip 77478
 Stimulating Company PROFRAC
 Address 333 SHOPS BLVD City WILLOW PARK State TX Zip 76087

RECEIVED
 Office of Oil and Gas
MAY 03 2022
 WV Department of
 Environmental Protection

Please insert additional pages as applicable.
 Completed by CAROL FRUITT Telephone 832-796-3007
 Signature *Carol Pruitt* Title SR. REGULATORY ANALYST Date 5.2.2022

BRIAN TESLOVICH BRK 5H
ATTACHMENT 1
PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	12/17/2021	19,374	19,281	36
2	1/21/2022	19,247	19,001	48
3	1/22/2022	18,968	18,721	32
4	1/22/2022	18,688	18,442	32
5	1/23/2022	18,409	18,163	32
6	1/24/2022	18,130	17,884	32
7	1/25/2022	17,851	17,604	32
8	1/25/2022	17,571	17,325	32
9	1/25/2022	17,292	17,046	48
10	1/26/2022	17,013	16,767	32
11	1/27/2022	16,734	16,487	48
12	1/27/2022	16,455	16,275	36
13	1/27/2022	16,241	16,061	36
14	1/28/2022	16,027	15,847	36
15	1/28/2022	15,813	15,633	36
16	1/28/2022	15,599	15,419	36
17	1/28/2022	15,385	15,205	36
18	1/29/2022	15,172	14,991	36
19	1/29/2022	14,958	14,777	36
20	1/29/2022	14,744	14,563	36
21	1/29/2022	14,530	14,350	36
22	1/29/2022	14,316	14,136	36
23	1/30/2022	14,102	13,922	36
24	1/30/2022	13,888	13,708	36
25	1/30/2022	13,674	13,494	36
26	1/30/2022	13,460	13,280	36
27	1/31/2022	13,246	13,066	36
28	1/31/2022	13,032	12,852	36
29	1/31/2022	12,818	12,638	36
30	1/31/2022	12,605	12,424	36
31	1/31/2022	12,391	12,210	36
32	1/31/2022	12,177	11,996	36
33	2/1/2022	11,963	11,783	36
34	2/1/2022	11,749	11,569	36
35	2/1/2022	11,535	11,355	36
36	2/1/2022	11,321	11,141	36
37	2/1/2022	11,107	10,927	36
38	2/1/2022	10,893	10,713	36
39	2/2/2022	10,679	10,499	36
40	2/2/2022	10,465	10,285	36
41	2/2/2022	10,251	10,071	36
42	2/2/2022	10,038	9,857	36

BRIAN TESLOVICH BRK 5H
ATTACHMENT 1
PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
43	2/2/2022	9,824	9,643	36
44	2/2/2022	9,610	9,429	36
45	2/2/2022	9,396	9,216	36
46	2/3/2022	9,182	9,002	36
47	2/3/2022	8,968	8,788	36
48	2/3/2022	8,754	8,574	36
49	2/3/2022	8,540	8,360	36
50	2/3/2022	8,326	8,146	36
51	2/5/2022	8,112	7,932	36
52	2/5/2022	7,898	7,718	36
53	2/5/2022	7,685	7,504	36
54	2/6/2022	7,471	7,290	36
55	2/6/2022	7,257	7,076	36
56	2/6/2022	7,043	6,862	36
57	2/6/2022	6,829	6,649	36
58	2/6/2022	6,615	6,435	36

BRIAN TESLOVICH BRK 5H

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	1/21/2022	86.8	9,574	9,314	3,666	201,120	6,420	0
2	1/21/2022	90.1	9,390	4,978	6,112	474,180	17,631	0
3	1/22/2022	97.3	9,224	4,370	4,077	494,000	11,625	0
4	1/22/2022	63.2	9,769	4,839	7,631	408,800	12,890	0
5	1/23/2022	91.5	9,550	7,909	4,417	305,400	8,298	0
6	1/24/2022	94.3	8,696	5,214	4,683	492,810	10,895	0
7	1/25/2022	96.9	8,936	4,798	4,130	495,060	11,043	0
8	1/25/2022	98.9	8,614	4,498	4,177	489,180	11,169	0
9	1/25/2022	50.5	8,727	4,646	5,559	5,000	5,023	0
10	1/26/2022	97.7	8,631	4,697	4,554	485,480	11,081	0
11	1/27/2022	72.1	9,975	4,937	4,910	486,380	16,381	0
12	1/27/2022	95.7	9,258	5,110	4,499	360,360	8,417	0
13	1/27/2022	96.3	8,835	5,327	4,683	356,080	8,393	0
14	1/28/2022	97.2	8,616	4,613	4,723	363,360	8,035	0
15	1/28/2022	91.6	8,673	4,658	4,276	367,940	10,562	0
16	1/28/2022	80.9	8,746	4,493	4,525	361,320	10,292	0
17	1/28/2022	97.2	8,132	4,944	4,955	364,260	8,270	0
18	1/29/2022	97.1	8,663	4,703	4,314	361,400	8,309	0
19	1/29/2022	98.2	8,275	4,398	4,446	364,880	8,108	0
20	1/29/2022	99.4	8,114	4,364	4,371	363,800	8,099	0
21	1/29/2022	99.4	7,966	4,554	4,754	363,800	8,052	0
22	1/29/2022	97.2	8,154	4,977	4,945	359,720	8,350	0
23	1/30/2022	98.2	7,891	4,763	4,682	361,860	8,192	0
24	1/30/2022	99	8,015	3,810	4,420	367,000	7,971	0
25	1/30/2022	99.3	8,146	4,878	4,551	364,620	8,131	0
26	1/30/2022	86	7,889	4,977	4,847	362,300	11,200	0
27	1/31/2022	97.8	7,875	4,796	4,590	358,320	8,072	0
28	1/31/2022	98.9	7,396	4,389	5,214	367,260	7,914	0
29	1/31/2022	99.6	7,996	4,430	4,460	367,640	7,936	0
30	1/31/2022	99.1	7,808	3,945	4,758	364,420	7,837	0
31	1/31/2022	95.7	7,324	4,150	4,214	358,060	8,007	0
32	1/31/2022	98	7,217	4,836	4,517	371,420	7,958	0
33	2/1/2022	99.4	7,685	5,110	4,143	366,220	7,909	0
34	2/1/2022	99.6	7,504	4,197	5,620	364,500	7,826	0
35	2/1/2022	99.9	7,373	4,396	5,272	359,720	7,774	0
36	2/1/2022	98.7	7,814	5,042	4,615	358,660	7,884	0
37	2/1/2022	97.8	7,348	5,298	4,437	360,480	7,922	0
38	2/1/2022	91.4	7,222	5,058	4,157	361,080	8,687	0
39	2/2/2022	98.1	7,234	4,998	3,918	361,700	7,286	0
40	2/2/2022	99.4	6,990	4,573	4,985	362,840	7,077	0
41	2/2/2022	99.6	6,988	4,366	5,536	362,100	7,104	0
42	2/2/2022	99.7	7,618	5,162	4,890	358,420	7,079	0
43	2/2/2022	92.8	7,050	4,331	4,467	358,740	7,064	0
44	2/2/2022	95.9	6,986	4,474	4,619	362,860	7,056	0
45	2/2/2022	94.8	6,969	5,162	4,602	362,640	7,073	0
46	2/3/2022	92.8	6,772	4,832	4,908	364,400	7,025	0
47	2/3/2022	99.3	7,116	4,941	4,763	365,180	7,052	0
48	2/3/2022	99	7,319	5,213	5,053	363,700	6,989	0
49	2/3/2022	99.6	7,299	4,468	5,284	364,920	7,087	0
50	2/5/2022	99.6	7,545	5,067	5,093	362,340	7,134	0
51	2/5/2022	98.7	7,205	4,663	4,279	356,740	7,022	0
52	2/5/2022	98.8	7,013	5,214	4,662	355,540	6,934	0
53	2/6/2022	99.1	7,133	5,153	4,288	358,260	7,034	0

BRIAN TESLOVICH BRK 5H

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	2/6/2022	99.2	6,972	5,084	4,361	358,140	6,817	0
55	2/6/2022	99.5	6,975	5,151	4,422	322,620	6,631	0
56	2/6/2022	99.6	6,858	5,069	4,450	357,800	6,949	0
57	2/6/2022	99.6	7,031	5,316	4,434	365,345	7,048	0
58	2/6/2022	99.9	6,504	4,265	4,361	359,940	6,909	0

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/21/2022
Job End Date:	2/6/2022
State:	West Virginia
County:	Brooke
API Number:	47-009-00317-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Brian Teslovich BRK 5H
Latitude:	40.21665700
Longitude:	-80.63335800
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,685
Total Base Water Volume (gal):	20,421,183
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
Water	SWN	Carrier/Base Fluid	Water	7732-18-5	100.00000	88.41977	None
Sand (40/70 White Proppant)	SWN	Proppant	Silica Substrate	14808-60-7	100.00000	6.14679	None
Sand (100 Mesh Proppant)	SWN	Proppant	Silica Substrate	14808-60-7	100.00000	4.91620	None
Hydrochloric Acid (15%)	CNR	Acidizing	Water	7732-18-5	85.00000	0.35509	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.15457	None
PLEXSLICK 930	SWN Well Services	Friction Reducer	Water	7732-18-5	57.00000	0.04548	None
			Petroleum Distillates, Hydrotreated	64742-47-8	20.00000	0.01596	None
			copolymer of 2-propenamide	69418-26-4	20.00000	0.01596	None
			Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00120	None
			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00120	None

Plexaid 655	SWN Well Services	Scale Inhibitor					
			Water	7732-18-5	90.00000	0.01021	None
			Diethylenetriamine penta	15827-60-8	10.00000	0.00113	None
Tolicide 4Frac	SWN Well Services	Biocide					
			Water	7732-18-5	45.00000	0.00263	None
			Tetrakis	55566-30-8	45.00000	0.00263	None
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00044	None
			Ethanol	64-17-5	2.50000	0.00015	None
ProHib 100	CNR	Acid Inhibitor					
			2-Butoxyethanol	111-76-2	60.00000	0.00085	None
			Proprietary material	68391-11-7	30.00000	0.00042	None
			Proprietary non-ionic surfactant	9043-30-5	20.00000	0.00028	None
			Proprietary ethoxylated alcohol	84133-50-6	10.00000	0.00014	None
			Proprietary corrosion inhibitor	104-55-2	10.00000	0.00014	None
ProFE 105	CNR	Iron Control					
			Citric Acid	77-92-9	20.00000	0.00022	None
			Acetic Acid	64-19-7	5.00000	0.00005	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.35509	
			Water	7732-18-5	57.00000	0.04548	
			copolymer of 2-propenamide	69418-26-4	20.00000	0.01596	
			Water	7732-18-5	90.00000	0.01021	
			Water	7732-18-5	45.00000	0.00263	
			Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00120	
			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00120	
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00044	
			Proprietary material	68391-11-7	30.00000	0.00042	
			Proprietary non-ionic surfactant	9043-30-5	20.00000	0.00028	
			Ethanol	64-17-5	2.50000	0.00015	
			Proprietary ethoxylated alcohol	84133-50-6	10.00000	0.00014	
			Proprietary corrosion inhibitor	104-55-2	10.00000	0.00014	
			Acetic Acid	64-19-7	5.00000	0.00005	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

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)



Well Name:

Brian Teslovich BRK 5H

47009003170000

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	115.00	115.00	
Top of Salt Water	405.00	405.00	NA	NA	
Pittsburgh Coal	258.00	258.00	397.00	397.00	
Pottsville (ss)	397.00	397.00	463.00	463.00	
Raven Cliff (ss)	710.00	710.00	1062.00	1057.00	
Maxton (ss)	1062.00	1057.00	1346.00	1336.00	
Big Injun (ss)	1346.00	1336.00	1835.00	1834.00	
Berea (siltstone)	1838.00	1837.00	1916.00	1914.00	
Rhinestreet (shale)	5644.00	5250.00	5919.00	5480.00	
Cashaqua (shale)	5919.00	5480.00	6015.00	5547.00	
Middlesex (shale)	6015.00	5547.00	6097.00	5600.00	
Burket (shale)	6097.00	5600.00	6105.00	5605.00	
Tully (ls)	6105.00	5605.00	6206.00	5664.00	
Mahantango (shale)	6206.00	5664.00	6372.00	5739.00	
Marcellus (shale)	6372.00	5739.00	NA	NA	GAS