

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

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JUN 03 2021

WV Department of
Environmental Protection

API 47-103-03352 ✓ County WETZEL District PROCTOR
Quad WILEYVILLE, WV Pad Name CONSTANCE TAYLOR-WTZ-PAD1 Field/Pool Name VICTORY FIELD WET
Farm name CONSTANCE A. TAYLOR Well Number CONSTANCE TAYLOR WTZ 1H
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 4,389,470.41 Easting 527,521.32 ✓
Landing Point of Curve Northing 4,389,407.89 ✓ Easting 527,134.56 ✓
Bottom Hole Northing 4,392,413.08 ✓ Easting 523,867.93 ✓

Elevation (ft) 1,430.1' ✓ 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 7/20/2020 ✓ Date drilling commenced 10/31/2020 Date drilling ceased 11/14/2020
Date completion activities began 1/27/2021 Date completion activities ceased 3/23/2021
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

Freshwater depth(s) ft 365' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,467' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1,385' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
Dwight Harrison
08/13/2021

JUN 03 2021

WV Department of Environmental Protection

WR-35 Rev. 8/23/13

API 47-103 - 03352 Farm name CONSTANCE A. TAYLOR Well number CONSTANCE TAYLOR Wtz 1H

Table with 8 columns: CASING STRINGS, Hole Size, Casing Size, Depth, New or Used, Grade wt/ft, Basket Depth(s), Did cement circulate (Y/N). Rows include Conductor, Surface, Coal, Intermediate 1-3, Production, Tubing, and Packer type and depth set.

Comment Details _____

Table with 8 columns: CEMENT DATA, Class/Type of Cement, Number of Sacks, Slurry wt (ppg), Yield (ft³/sks), Volume (ft³), Cement Top (MD), WOC (hrs). Rows include Conductor, Surface, Coal, Intermediate 1-3, Production, Tubing.

Drillers TD (ft) 22,531' Loggers TD (ft) 22,531'
Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
Plug back procedure N/A

Kick off depth (ft) 6,693'

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 _____

08/13/2021

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/28/2021
Job End Date:	3/15/2021
State:	West Virginia
County:	Wetzel
API Number:	47-103-03352-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	CONSTANCE TAYLOR WTZ 1H
Latitude:	39.65459000
Longitude:	-80.67919500
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,430
Total Base Water Volume (gal):	25,939,717
Total Base Non Water Volume:	0



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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
Produced Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	90.22522	Density = 8.34
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.48705	

HYDROCHLORIC ACID, 22 BAUME	Halliburton	Solvent					
				Listed Below			
Sand-Premium White-40/70	Halliburton	Proppant					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
HAI-501	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
LEGEND(TM) LD-7750W	MultiChem	Scale Control					
				Listed Below			
Excelerate LX-15	Halliburton	Friction Reducer					
				Listed Below			
MC MX 8-4743	MultiChem	Additive					
				Listed Below			
FE-2A	Halliburton	Additive					
				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	9.13984	
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			Hydrochloric acid	7647-01-0	30.00000	0.05253	
			Complex Amine Compound	Proprietary	60.00000	0.03712	
			Sodium nitrate	7631-99-4	60.00000	0.02079	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01856	
			Methanol	67-56-1	100.00000	0.00505	
			Surfactant	Proprietary	5.00000	0.00309	
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	5.00000	0.00309	
			Citric acid	77-92-9	60.00000	0.00281	
			Sodium molybdate	10102-40-6	5.00000	0.00173	
			Ethoxylated alcohols	Proprietary	5.00000	0.00064	
			Organic chloride compound	Proprietary	1.00000	0.00062	
			Alkoxylated polyhydric alcohol	Proprietary	1.00000	0.00062	
			Sodium chloride	7647-14-5	5.00000	0.00043	
			Phosphoric Acid Salt	Proprietary	5.00000	0.00039	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00010	
			Modified thiourea polymer	Proprietary	30.00000	0.00010	
			Monopotassium phosphate	7778-77-0	0.10000	0.00004	
			Sodium lactate	72-17-3	0.10000	0.00004	
			Yeast extract	8013-01-2	0.10000	0.00004	
			Sodium acetate	127-09-3	0.10000	0.00004	
			Hexadecene	629-73-2	5.00000	0.00002	
			Propargyl alcohol	107-19-7	5.00000	0.00002	
			Formaldehyde	50-00-0	0.10000	0.00001	
			Acrylamide	79-06-1	0.01000	0.00001	
			Sodium hydroxide	1310-73-2	0.01000	0.00001	
			Nitrated acetate salt	Proprietary	0.01000	0.00001	

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			Organic salt #1	Proprietary	0.01000	0.00001	
			Sodium glycolate	2836-32-0	0.01000	0.00001	
			Organic salt #2	Proprietary	0.01000	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)

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CONSTANCE TAYLOR WTZ 1H
ATTACHMENT 1
PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	1/17/2021	22,445	22,358	36
2	1/28/2021	22,324	22,146	36
3	1/30/2021	22,113	21,935	36
4	1/30/2021	21,897	21,724	36
5	1/30/2021	21,690	21,512	36
6	1/31/2021	21,479	21,297	60
7	2/2/2021	21,268	21,090	36
8	2/3/2021	21,057	20,884	36
9	2/3/2021	20,846	20,668	36
10	2/4/2021	20,634	20,456	36
11	2/4/2021	20,423	20,245	36
12	2/5/2021	20,212	20,034	72
13	2/9/2021	20,001	19,818	36
14	2/10/2021	19,790	19,612	36
15	2/10/2021	19,578	19,400	36
16	2/10/2021	19,367	19,189	36
17	2/12/2021	19,156	18,978	36
18	2/13/2021	18,945	18,767	36
19	2/13/2021	18,734	18,556	36
20	2/14/2021	18,522	18,344	36
21	2/15/2021	18,311	18,133	36
22	2/16/2021	18,100	17,922	36
23	2/17/2021	17,889	17,711	36
24	2/18/2021	17,678	17,500	36
25	2/19/2021	17,466	17,288	36
26	2/20/2021	17,255	17,077	36
27	2/20/2021	17,044	16,866	36
28	2/21/2021	16,833	16,655	36
29	2/21/2021	16,622	16,444	36
30	2/22/2021	16,410	16,232	36
31	2/23/2021	16,199	16,021	36
32	2/23/2021	15,988	15,810	36
33	2/23/2021	15,777	15,599	36
34	2/24/2021	15,566	15,388	36
35	2/24/2021	15,354	15,176	36
36	2/25/2021	15,143	14,965	36
37	2/25/2021	14,932	14,754	36
38	2/26/2021	14,721	14,543	36
39	2/26/2021	14,510	14,332	36
40	2/26/2021	14,298	14,120	36
41	2/27/2021	14,087	13,909	36
42	2/27/2021	13,876	13,698	36
43	2/28/2021	13,665	13,487	36
44	3/1/2021	13,454	13,276	36
45	3/1/2021	13,242	13,064	36

**CONSTANCE TAYLOR WTZ 1H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
46	3/2/2021	13,031	12,853	36
47	3/2/2021	12,820	12,642	36
48	3/3/2021	12,613	12,431	36
49	3/3/2021	12,398	12,220	36
50	3/4/2021	12,186	12,008	36
51	3/4/2021	11,975	11,797	36
52	3/5/2021	11,764	11,586	36
53	3/5/2021	11,553	11,375	36
54	3/6/2021	11,342	11,164	36
55	3/6/2021	11,130	10,952	36
56	3/7/2021	10,919	10,741	36
57	3/7/2021	10,708	10,530	36
58	3/7/2021	10,497	10,319	36
59	3/8/2021	10,286	10,108	36
60	3/8/2021	10,074	9,896	36
61	3/9/2021	9,863	9,685	36
62	3/10/2021	9,652	9,474	36
63	3/10/2021	9,441	9,263	36
64	3/11/2021	9,230	9,052	36
65	3/11/2021	9,018	8,840	36
66	3/12/2021	8,805	8,629	36
67	3/13/2021	8,596	8,418	36
68	3/13/2021	8,385	8,205	36
69	3/14/2021	8,174	7,996	36
70	3/14/2021	7,962	7,784	36

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JUN 03 2021

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/other
1	1/28/2021	87.3	9,434	7,024	3,690	202,960	7,015	0
2	1/28/2021	92.8	9,170	7,261	4,963	321,600	9,627	0
3	1/30/2021	92.5	10,005	5,666	3,707	322,420	9,792	0
4	1/30/2021	95.1	9,691	5,418	4,251	314,180	9,125	0
5	1/31/2021	92	9,130	5,650	4,553	328,550	10,362	0
6	1/31/2021	34.1	7,299	9,399	3,701	323,640	17,630	0
7	2/3/2021	78.4	8,390	4,420	4,421	324,440	11,960	0
8	2/3/2021	88.6	9,144	5,018	4,165	326,560	9,137	0
9	2/4/2021	88.5	9,502	5,626	4,026	324,900	9,004	0
10	2/4/2021	88.2	9,497	9,440	4,094	320,580	8,926	0
11	2/5/2021	98.2	9,302	7,434	4,419	316,600	9,263	0
12	2/8/2021	39.9	9,381	5,249	4,144	326,520	14,044	0
13	2/9/2021	92.3	9,599	5,432	4,763	319,820	9,125	0
14	2/10/2021	93.3	9,229	5,315	3,987	319,900	9,024	0
15	2/10/2021	98.8	9,089	5,068	4,193	323,320	9,126	0
16	2/11/2021	97.2	9,498	5,336	4,359	326,320	9,073	0
17	2/12/2021	99.4	9,334	5,046	4,472	328,360	9,032	0
18	2/13/2021	99	9,385	4,973	3,731	333,280	9,320	0
19	2/14/2021	98.6	8,996	4,086	3,757	314,370	8,764	0
20	2/15/2021	96.7	9,234	5,743	4,627	323,260	9,187	0
21	2/16/2021	98.7	8,800	4,896	4,343	288,200	8,910	0
22	2/17/2021	98.9	9,162	5,482	4,288	307,490	8,767	0
23	2/18/2021	98.8	9,535	5,795	3,976	312,100	8,842	0
24	2/19/2021	99.3	8,999	7,984	4,129	327,180	8,790	0
25	2/19/2021	91.2	8,870	5,712	4,324	306,960	8,766	0
26	2/20/2021	84.7	8,355	5,967	4,542	323,040	9,043	0
27	2/21/2021	97.8	9,181	5,387	4,460	307,320	8,792	0
28	2/21/2021	99	8,888	5,459	3,820	309,420	8,724	0
29	2/22/2021	93.9	9,131	5,698	4,616	310,900	9,676	0
30	2/22/2021	98.5	9,620	5,633	4,234	311,180	8,792	0
31	2/23/2021	99.8	8,986	5,258	4,263	313,682	8,516	0
32	2/23/2021	99.1	9,159	5,469	4,404	311,500	8,566	0
33	2/24/2021	99.9	8,953	5,525	4,498	313,868	8,683	0
34	2/24/2021	99.1	9,057	5,160	4,384	308,460	8,542	0
35	2/25/2021	99.1	9,079	5,614	4,256	305,688	8,592	0
36	2/25/2021	99.3	9,029	5,594	4,144	307,947	8,493	0
37	2/26/2021	99.7	9,027	5,261	4,690	323,520	8,762	0
38	2/26/2021	98.3	9,384	5,817	4,738	322,260	8,791	0
39	2/26/2021	99.5	9,434	5,681	4,725	308,190	8,484	0
40	2/27/2021	99.7	9,454	8,464	4,637	321,600	8,773	0
41	2/27/2021	99	9,283	5,077	4,529	310,930	8,477	0
42	2/28/2021	98.9	9,173	5,629	4,438	310,360	8,503	0
43	2/28/2021	99.1	9,095	5,410	4,638	309,010	8,383	0
44	3/1/2021	98.8	8,722	4,817	4,839	310,707	8,464	0
45	3/1/2021	99.2	9,015	5,612	4,708	309,280	8,343	0
46	3/2/2021	99.6	9,174	5,398	4,498	312,543	8,387	0
47	3/3/2021	99.6	9,052	5,376	4,875	310,990	8,260	0
48	3/3/2021	98.6	9,435	6,166	4,420	310,172	8,286	0
49	3/4/2021	99.2	9,318	5,680	4,554	309,120	8,362	0
50	3/4/2021	98.9	9,238	5,766	4,499	310,324	8,182	0
51	3/5/2021	99.5	8,891	4,360	4,265	313,560	8,381	0
52	3/5/2021	98.9	9,055	5,589	4,173	313,804	8,277	0
53	3/6/2021	99.7	9,013	4,437	4,183	313,470	8,244	0
54	3/6/2021	99.9	8,952	5,695	4,562	315,287	8,338	0
55	3/6/2021	99.8	9,315	5,643	4,700	310,050	8,243	0
56	3/7/2021	99.6	8,893	5,481	4,516	314,183	8,496	0

CONSTANCE TAYLOR Wtz 1H

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
57	3/7/2021	100.3	8,822	5,630	4,801	313,320	8,313	0
58	3/8/2021	100	8,647	5,505	4,536	312,053	8,506	0
59	3/8/2021	100	8,782	5,490	5,013	312,820	8,202	0
60	3/9/2021	99.5	8,312	5,306	4,395	306,530	8,056	0
61	3/9/2021	100.2	8,364	5,521	4,578	310,980	8,029	0
62	3/10/2021	100	8,429	5,251	4,382	303,490	8,080	0
63	3/10/2021	97.9	8,028	5,461	4,700	312,220	7,863	0
64	3/11/2021	99.1	8,487	5,553	4,335	308,540	8,123	0
65	3/12/2021	99.6	8,252	5,352	4,235	312,740	8,270	0
66	3/13/2021	99	8,444	5,338	5,022	311,680	7,756	0
67	3/13/2021	99.9	8,412	5,665	4,327	310,730	8,187	0
68	3/14/2021	99.6	7,950	5,054	4,431	311,140	8,165	0
69	3/14/2021	99.2	7,891	5,242	4,592	311,340	7,640	0
70	3/15/2021	99.7	7,923	5,821	4,307	311,560	8,201	0

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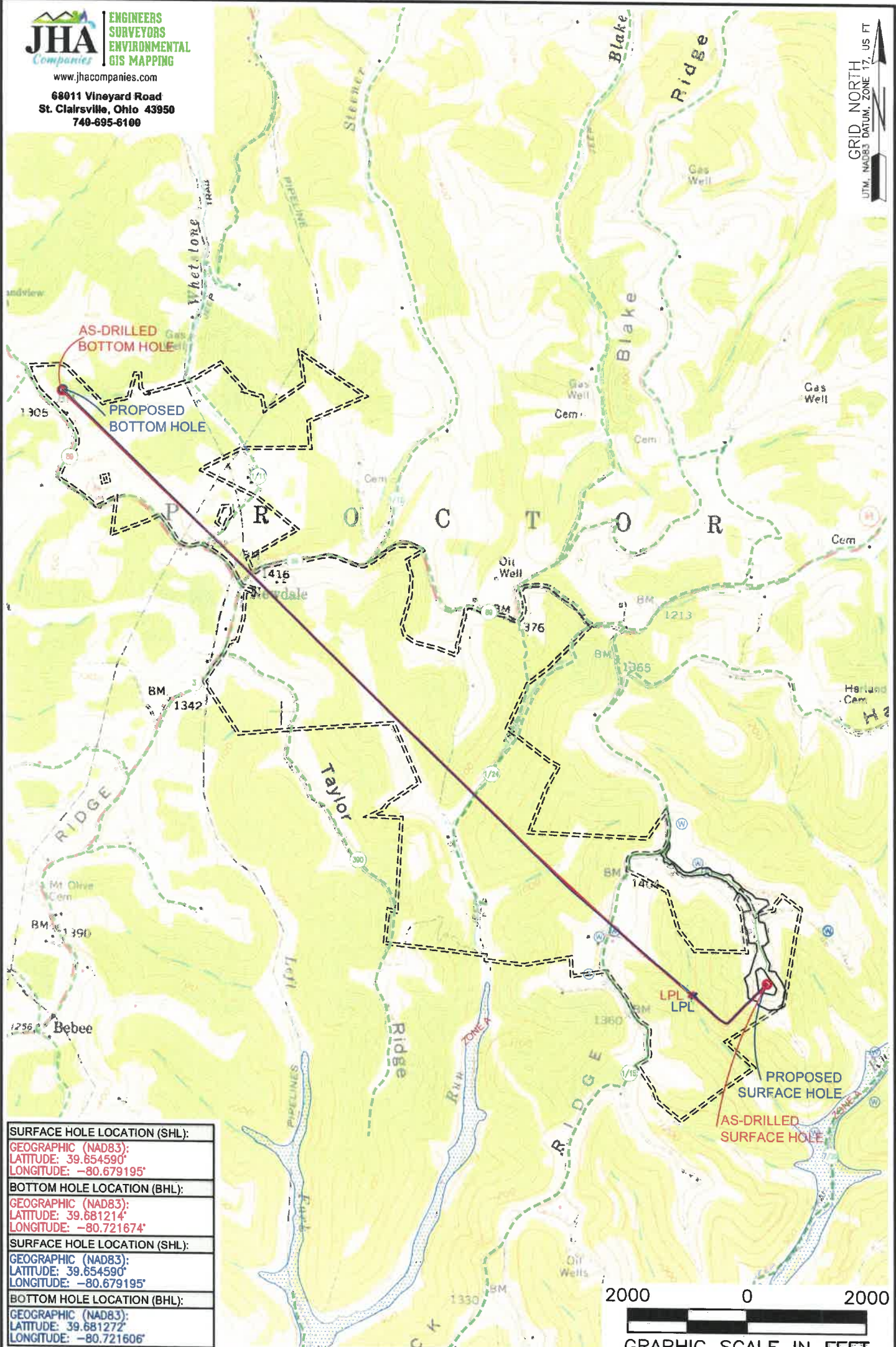


Well Name: **Constance Taylor WTZ 1H**

47103033520000

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	365.00	365.00	
Top of Salt Water	1467.00	1467.00	NA	NA	
Pittsburgh Coal	1385.00	1385.00	1391.00	1391.00	
Pottsville (ss)	1467.00	1467.00	1531.00	1531.00	
Raven Cliff (ss)	1872.00	1872.00	2217.00	2217.00	
Big Injun (ss)	2602.00	2602.00	3188.00	3160.00	
Berea (siltstone)	3188.00	3160.00	3259.00	3231.00	
Rhinestreet (shale)	7004.00	6921.00	7178.00	7076.00	
Cashaqua (shale)	7178.00	7076.00	7320.00	7190.00	
Middlesex (shale)	7320.00	7190.00	7455.00	7281.00	
Burket (shale)	7455.00	7281.00	7499.00	7307.00	
Tully (ls)	7499.00	7307.00	7541.00	7328.00	
Mahantango (shale)	7541.00	7328.00	7745.00	7403.00	
Marcellus (shale)	7745.00	7403.00	NA	NA	GAS

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SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.654590'
LONGITUDE: -80.679195'
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.681214'
LONGITUDE: -80.721674'
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.654590'
LONGITUDE: -80.679195'
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.681272'
LONGITUDE: -80.721606'



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.

LEGEND:

EXISTING BOTTOM HOLE	ACCESS ROAD
EXISTING / PRODUCING WELLHEAD	PUBLIC ROAD
EXISTING LANDING POINT LOCATION	FLOOD PLAIN
PROPOSED SURFACE HOLE / BOTTOM HOLE	LEASE BOUNDARY
PROPOSED LANDING POINT LOCATION	ASDRILLED PATH
	PROPOSED PATH

08/13/2021

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: CONSTANCE TAYLOR WTZ	WELL # 1H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY: WETZEL	CODE: 103	DISTRICT: PROCTOR
SURFACE OWNER: CONSTANCE A. TAYLOR	USGS 7 1/2 QUADRANGLE MAP NAME: WILEYVILLE, WV		
		API # 47-103-3352	