

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

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JAN 29 2021

WV Department of
Environmental Protection

API 47 - 069 - 00314 County OHIO District RICHLAND
Quad TILTONSVILLE, OH-WV Pad Name FRANZ THOMAN-OHI-PAD1 Field/Pool Name PANHANDLE FIELD WET
Farm name FRANZ THOMAN Well Number FRANZ THOMAN OHI 605H
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 4,442,978.85 Easting 528,979.38
Landing Point of Curve Northing 4,443,608.65 Easting 529,724.25
Bottom Hole Northing 4,449,015.21 Easting 528,102.38

Elevation (ft) 1137.3' 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 11/27/2019 Date drilling commenced 04/03/2020 Date drilling ceased 04/04/2020
Date completion activities began 09/14/2020 Date completion activities ceased 11/02/2020
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 326' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 473' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 344' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
B.S.
09/10/2021

API 47-069 - 00314 Farm name FRANZ THOMAN Well number FRANZ THOMAN OHI 605H

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	408	NEW	J-55/54.50#	329' / 331'	Y
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1,747	NEW	J-55/36#		Y; 38 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	25,715	NEW	P-110/20#		Y
Tubing		2.875	7,163	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	562	15.60	1.19	668.78	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	675	15.60	1.19	803.25	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	5,092	15.60	1.19	6,059.48	SURFACE	24
Tubing							

Drillers TD (ft) 25,715' Loggers TD (ft) 25,715'

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

Plug back procedure N/A

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Kick off depth (ft) 5,875'

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 _____

09/10/2021

API 47- 069 - 00314 Farm name FRANZ THOMAN Well number FRANZ THOMAN OHI 605H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>MARCELLUS</u>	<u>5,841'</u>	<u>TVD</u>	<u>6,891'</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

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Please insert additional pages as applicable.

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GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1205 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 3,267 mcfpd Oil 504 bpd NGL _____ bpd Water 1,392 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 SCHLUMBERGER
Address 4800 W GREENS RD City HOUSTON State TX Zip 77066

Cementing Company BJ SERVICES
Address 11211 FM 2920 City TOMBALL State TX Zip 77375

Stimulating Company SWN WELL SERVICES
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

Please insert additional pages as applicable.

Completed by Elizabeth Gee Telephone 832-796-2873
Signature *Elizabeth Gee* Title Staff Regulatory Analyst Date 1/27/2021

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

09/10/2021

FRANZ THOMAN OHI 605H
 ATTACHMENT 1
 PERF REPORT

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STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STAGE
1	8/2/2020	25,668	25,586	36
2	9/15/2020	25,552	25,374	36
3	9/16/2020	25,341	25,163	36
4	9/16/2020	25,130	24,952	36
5	9/17/2020	24,919	24,742	36
6	9/17/2020	24,708	24,531	36
7	9/18/2020	24,498	24,320	36
8	9/18/2020	24,287	24,109	36
9	9/19/2020	24,076	23,898	36
10	9/20/2020	23,865	23,687	36
11	9/20/2020	23,654	23,476	36
12	9/20/2020	23,443	23,265	36
13	9/21/2020	23,232	23,054	36
14	9/22/2020	23,021	22,843	36
15	9/22/2020	22,810	22,633	36
16	9/23/2020	22,599	22,419	36
17	9/23/2020	22,389	22,211	36
18	9/23/2020	22,178	22,000	36
19	9/24/2020	21,963	21,793	36
20	9/24/2020	21,756	21,578	36
21	9/24/2020	21,545	21,367	36
22	9/25/2020	21,334	21,160	36
23	9/25/2020	21,123	20,945	36
24	9/25/2020	20,912	20,734	36
25	9/26/2020	20,701	20,524	36
26	9/27/2020	20,490	20,313	36
27	9/27/2020	20,279	20,102	36
28	9/27/2020	20,069	19,891	36
29	9/28/2020	19,858	19,680	36
30	9/28/2020	19,647	19,469	36
31	9/29/2020	19,436	19,258	36
32	9/29/2020	19,225	19,047	36
33	9/29/2020	19,014	18,836	36
34	9/29/2020	18,803	18,625	36
35	9/30/2020	18,592	18,415	36
36	9/30/2020	18,381	18,209	36
37	9/30/2020	18,170	17,993	36
38	10/1/2020	17,958	17,782	36
39	10/1/2020	17,749	17,569	36
40	10/1/2020	17,538	17,363	36
41	10/1/2020	17,327	17,149	36
42	10/2/2020	17,116	16,938	36
43	10/2/2020	16,905	16,727	36

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STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STAGE
44	10/2/2020	16,694	16,513	36
45	10/3/2020	16,484	16,306	36
46	10/3/2020	16,272	16,095	36
47	10/3/2020	16,061	15,884	36
48	10/4/2020	15,851	15,673	36
49	10/4/2020	15,640	15,467	36
50	10/5/2020	15,431	15,251	36
51	10/5/2020	15,218	15,040	36
52	10/5/2020	15,007	14,834	36
53	10/5/2020	14,796	14,616	36
54	10/6/2020	14,580	14,407	36
55	10/6/2020	14,374	14,197	36
56	10/7/2020	14,163	13,986	36
57	10/7/2020	13,952	13,775	36
58	10/7/2020	13,744	13,564	36
59	10/8/2020	13,531	13,353	36
60	10/8/2020	13,320	13,142	36
61	10/8/2020	13,109	12,931	36
62	10/9/2020	12,898	12,720	36
63	10/9/2020	12,687	12,509	36
64	10/10/2020	12,476	12,298	36
65	10/10/2020	12,265	12,088	36
66	10/10/2020	12,054	11,877	36
67	10/11/2020	11,842	11,670	36
68	10/11/2020	11,633	11,455	36
69	10/12/2020	11,422	11,244	36
70	10/12/2020	11,211	11,033	36
71	10/12/2020	11,000	10,822	36
72	10/13/2020	10,789	10,611	36
73	10/13/2020	10,578	10,400	36
74	10/14/2020	10,367	10,191	36
75	10/14/2020	10,156	9,979	36
76	10/15/2020	9,945	9,769	36
77	10/15/2020	9,734	9,557	36
78	10/15/2020	9,524	9,347	36
79	10/16/2020	9,313	9,135	36
80	10/16/2020	9,102	8,924	36
81	10/16/2020	8,891	8,711	36
82	10/17/2020	8,680	8,502	36
83	10/17/2020	8,469	8,291	36
84	10/17/2020	8,258	8,079	36
85	10/18/2020	8,047	7,870	36
86	10/18/2020	7,836	7,659	36

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PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
87	10/19/2020	7,625	7,452	36
88	10/19/2020	7,415	7,237	36
89	10/19/2020	7,204	7,026	36

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FRANZ THOMAN OHI 605H
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	9/15/2020	72.7	8,301	5,183	4,581	211,660	58,067	0
2	9/15/2020	86.9	8,260	5,125	4,548	369,120	9,010	0
3	9/16/2020	81	7,647	5,026	4,025	382,300	9,159	0
4	9/16/2020	90.4	8,321	4,527	4,320	360,980	10,114	0
5	9/17/2020	84.4	7,722	4,741	4,206	355,100	8,721	0
6	9/17/2020	82.1	7,477	4,729	4,115	358,340	9,085	0
7	9/18/2020	89.1	8,176	5,601	4,262	351,720	9,209	0
8	9/18/2020	90	8,207	4,595	4,478	358,000	8,860	0
9	9/19/2020	76.5	8,247	5,022	4,362	351,500	11,411	0
10	9/20/2020	90.9	8,319	5,370	4,140	353,060	8,763	0
11	9/20/2020	83.1	8,111	5,908	4,490	357,220	11,578	0
12	9/21/2020	89.7	8,416	6,602	4,431	355,060	8,801	0
13	9/22/2020	81.8	8,035	4,867	3,989	349,980	8,476	0
14	9/22/2020	90.9	8,376	5,645	4,470	357,840	8,896	0
15	9/22/2020	89	8,406	5,746	3,852	357,540	8,898	0
16	9/23/2020	88.6	7,908	5,781	4,155	358,360	8,909	0
17	9/23/2020	93.5	8,006	4,462	4,974	349,740	8,808	0
18	9/24/2020	89	8,179	4,296	4,696	356,820	8,785	0
19	9/24/2020	82.7	7,700	5,528	4,209	356,600	10,195	0
20	9/24/2020	89.2	8,023	5,427	4,930	358,280	8,785	0
21	9/25/2020	88.3	8,227	5,710	4,470	352,460	8,580	0
22	9/25/2020	82.3	8,075	6,143	4,008	353,020	8,390	0
23	9/25/2020	88.2	7,982	5,255	4,406	270,840	11,182	0
24	9/26/2020	90.4	7,944	5,338	4,878	356,040	8,858	0
25	9/26/2020	90.1	8,039	5,144	4,184	355,460	8,672	0
26	9/26/2020	89.3	8,127	5,841	4,502	357,860	8,671	0
27	9/27/2020	86.1	8,070	5,820	4,427	290,020	10,019	0
28	9/28/2020	95	8,131	5,192	4,337	357,460	8,714	0
29	9/28/2020	87.3	7,998	5,468	4,162	355,620	8,215	0
30	9/28/2020	91.6	8,091	5,594	4,456	358,580	8,587	0
31	9/29/2020	91.3	7,914	5,691	4,147	358,980	8,509	0
32	9/29/2020	88.9	7,757	5,280	4,178	357,920	8,398	0
33	9/29/2020	99.3	8,127	5,389	4,656	353,960	8,513	0
34	9/30/2020	91.4	7,909	5,674	4,525	356,220	8,343	0
35	9/30/2020	95.8	8,049	5,865	4,723	359,200	8,120	0
36	9/30/2020	96	8,053	5,908	4,619	354,660	8,175	0
37	10/1/2020	94.2	8,229	5,701	4,311	351,620	8,189	0
38	10/1/2020	95.5	7,924	5,679	4,651	350,440	7,941	0
39	10/1/2020	93.8	8,000	5,706	5,006	351,940	8,234	0
40	10/1/2020	93.5	8,473	5,720	4,401	356,160	7,954	0
41	10/2/2020	93.9	7,640	5,797	4,482	357,500	8,194	0
42	10/2/2020	97.8	7,921	5,877	4,651	351,660	7,875	0
43	10/2/2020	97	7,975	5,820	4,506	354,800	7,930	0
44	10/3/2020	98.7	7,923	5,573	4,465	353,160	7,957	0
45	10/3/2020	97.2	7,909	5,723	4,649	355,800	7,901	0
46	10/3/2020	99.4	7,921	5,869	4,498	358,760	8,325	0
47	10/4/2020	95.6	8,218	5,944	4,672	357,720	8,098	0
48	10/4/2020	97.5	7,888	5,325	6,358	356,320	7,845	0
49	10/4/2020	94.6	8,129	5,625	4,494	356,020	8,124	0
50	10/5/2020	97.8	7,765	5,560	4,952	352,080	7,814	0
51	10/5/2020	96.7	7,615	5,500	4,123	358,720	10,454	0
52	10/5/2020	90.1	7,937	5,528	4,425	354,650	8,019	0
53	10/6/2020	92.6	8,138	5,899	4,265	324,280	7,514	0

FRANZ THOMAN OHI 605H
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	10/6/2020	98.6	7,702	5,650	4,842	348,460	8,734	0
55	10/7/2020	98.5	7,355	5,709	4,457	350,170	7,860	0
56	10/7/2020	93.4	7,458	5,821	4,774	353,300	7,784	0
57	10/7/2020	97.5	7,525	5,705	4,623	355,780	7,685	0
58	10/8/2020	97	8,004	5,834	4,390	357,660	7,720	0
59	10/8/2020	93.3	7,910	6,155	4,695	353,300	8,095	0
60	10/8/2020	83.9	7,941	5,969	4,337	360,920	8,508	0
61	10/9/2020	88.9	7,569	5,922	4,875	358,880	7,570	0
62	10/9/2020	83.3	8,237	7,250	4,469	354,980	9,348	0
63	10/9/2020	97.6	7,972	5,784	4,628	355,720	7,625	0
64	10/10/2020	83.5	7,049	5,446	4,981	358,340	7,492	0
65	10/10/2020	95.4	7,595	6,325	4,406	359,410	7,647	0
66	10/11/2020	98.5	7,580	6,466	4,459	360,820	7,608	0
67	10/11/2020	86.6	7,491	5,752	4,385	355,940	7,636	0
68	10/11/2020	96.7	7,304	6,321	4,632	353,640	7,827	0
69	10/12/2020	96.6	7,563	6,149	4,523	360,720	7,728	0
70	10/12/2020	96.7	7,513	6,007	4,458	358,000	7,707	0
71	10/12/2020	99.6	7,290	5,896	4,462	355,560	8,040	0
72	10/13/2020	95.1	7,484	6,293	4,691	353,520	7,704	0
73	10/14/2020	98.6	7,374	6,014	4,611	352,550	7,812	0
74	10/14/2020	97.2	7,332	5,780	4,456	358,800	7,449	0
75	10/14/2020	96.8	7,035	6,125	4,426	357,640	7,756	0
76	10/15/2020	97	7,425	6,624	4,798	351,280	7,503	0
77	10/15/2020	97.6	7,355	6,402	4,565	364,500	7,986	0
78	10/15/2020	97.6	7,178	5,448	4,350	353,520	7,809	0
79	10/16/2020	98	7,308	6,202	4,582	351,120	7,864	0
80	10/16/2020	97.7	7,124	6,254	4,289	361,600	7,806	0
81	10/17/2020	97.3	7,100	5,584	4,283	354,670	7,825	0
82	10/17/2020	98.9	7,067	6,515	4,654	355,940	7,768	0
83	10/17/2020	96.6	7,213	6,720	4,258	355,030	8,139	0
84	10/18/2020	99.6	7,187	6,520	4,733	353,770	7,822	0
85	10/18/2020	99.3	7,159	6,884	4,586	352,640	7,930	0
86	10/19/2020	99.3	6,877	6,890	4,450	351,300	7,966	0
87	10/19/2020	99.1	6,956	5,970	4,931	346,700	7,911	0
88	10/19/2020	95.5	6,684	6,105	4,484	355,540	8,009	0
89	10/20/2020	96.2	6,443	6,300	4,600	355,530	8,059	0

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Well Name: Franz Thoman OHI 605H 47069003140000

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	326.00	326.00	
Top of Salt Water	473.00	473.00	NA	NA	
Pittsburgh Coal	344.00	344.00	349.00	349.00	
Pottsville (ss)	463.00	463.00	824.00	824.00	
Raven Cliff (ss)	824.00	824.00	1111.00	1111.00	
Maxton (ss)	1111.00	1111.00	1430.00	1419.00	
Big Injun (ss)	1430.00	1419.00	5973.00	5324.00	
Rhinestreet (shale)	5973.00	5324.00	6315.00	5572.00	
Cashaqua (shale)	6315.00	5572.00	6398.00	5622.00	
Middlesex (shale)	6398.00	5622.00	6520.00	5691.00	
Burket (shale)	6520.00	5691.00	6548.00	5706.00	
Tully (ls)	6548.00	5706.00	6650.00	5756.00	
Mahantango (shale)	6650.00	5756.00	6891.00	5841.00	
Marcellus (shale)	6891.00	5841.00	NA	NA	GAS

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	9/15/2020
Job End Date:	10/20/2020
State:	West Virginia
County:	Ohio
API Number:	47-069-00314-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	FRANZ THOMAN OHI 605
Latitude:	40.13664263
Longitude:	-80.65982407
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,791
Total Base Water Volume (gal):	33,406,042
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
Base Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	89.64958	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.19917	

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Plexaid 655WG	SWN Well Services	Scale Inhibitor											
						Listed Below							
SWN FRW-11LC	SWN Well Services	Friction Reducer											
						Listed Below							
Tolicide PS 50A	SWN Well Services	Biocide											
						Listed Below							
Sand	SWN Well Services	Proppant											
						Listed Below							
Ecopol-FEAC	SWN Well Services	Iron Control											
						Listed Below							
Econo-CI200	SWN Well Services	Corrosion Inhibitor											
						Listed Below							
HCL	SWN Well Services	Solvent											
						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	10.08377			
							Petroleum Distillates, Hydrotreated	64742-47-8	25.00000	0.02230			
							Hydrochloric Acid	7647-01-0	15.00000	0.02160			
							Tetrakis	55566-30-8	55.00000	0.01430			
							Glycerin	56-81-5	50.00000	0.00323			

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				Ammonium Chloride	12125-02-9	2.00000	0.00178
				Alcohols, C12-1, ethoxylated	68551-12-2	1.50000	0.00134
				Oleic Acid Diethanolamide	93-83-4	1.50000	0.00134
				Diethylenetriamine penta	15827-60-8	10.00000	0.00065
				Acetic Acid	64-19-7	37.50000	0.00029
				Acrylic acid terpolymer	397256-50-7	1.00000	0.00026
				Methanol	67-56-1	80.00000	0.00018
				Citric Acid	77-92-9	22.50000	0.00017
				Oxyalkylated fatty acid	68951-67-7	9.67400	0.00002
				Fatty acids	61790-12-3	5.02700	0.00001
				Modified thiourea polymer	68527-49-1	4.74600	0.00001
				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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LATITUDE: 40°10'00" SURFACE HOLE (2000' SCALE)

9732'

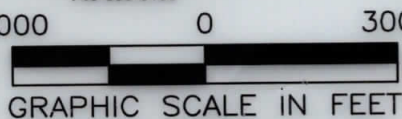
12529'
LATITUDE: 40°12'30" BOTTOM HOLE (2000' SCALE)



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

NOTES ON SURVEY

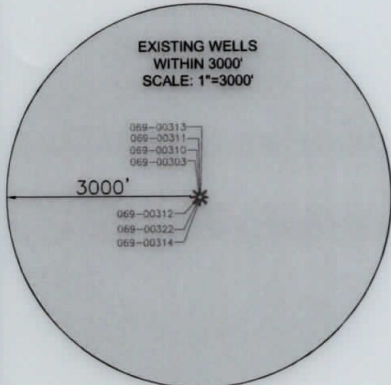
- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT 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.



LINE	BEARING	DISTANCE
L1	S56°42'58"E	1144.96'
L2	S79°59'41"E	1403.16'



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



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4442978.85 EASTING: 528979.38
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4443608.65 EASTING: 529724.25
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4449015.21 EASTING: 528102.38
SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4442978.85 EASTING: 528979.38
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4443603.55 EASTING: 529720.74
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4449013.55 EASTING: 528096.94

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF SURVEY GRADE GPS ELEVATION: (NAVD 88, US FT)

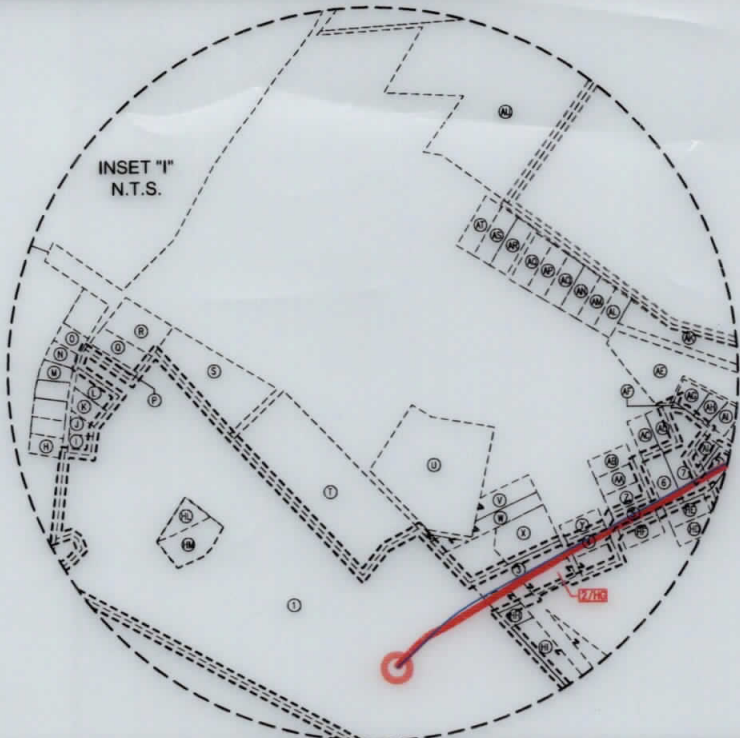
COMPANY: **SWN** Production Company, LLC
SWN Production Company™

FRANZ THOMAN OHI
OPERATOR'S WELL #: 605H
API WELL #: 47 STATE 069 COUNTY 00314 PERMIT

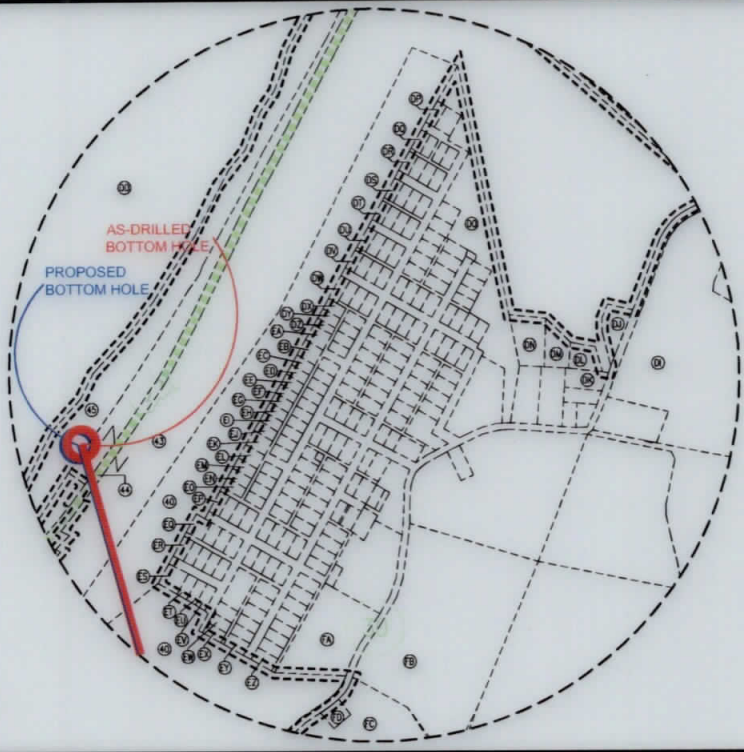
WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,137.3'
DISTRICT: RICHLAND COUNTY: OHIO QUADRANGLE: TILTONVILLE, OH-WV
SURFACE OWNER: FRANZ THOMAN ACREAGE: ±69.418
OIL & GAS ROYALTY OWNER: FRANZ THOMAN ACREAGE: ±69.418
DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE PLUG
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) AS-DRILLED
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,885' TVD 25,715 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:	REVISIONS:	DATE:
○ EXISTING BOTTOM HOLE		06-03-2020
☆ EXISTING / PRODUCING WELLHEAD	— ACCESS ROAD	API NO: 47-069-00314
LPL* EXISTING LANDING POINT LOCATION	— PUBLIC ROAD	DRAWN BY: R.GRIMES
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— FLOOD PLAN	SCALE: 1" = 3000'
LPL* PROPOSED LANDING POINT LOCATION	— LEASE BOUNDARY	DRAWING NO: 2018-781
	— ASDRILLED PATH	WELL LOCATION PLAT
	— PROPOSED PATH	



INSET "I"



INSET "II"

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	FRANZ THOMAN (S)/(R)	04-R8-62.0
TRACT	SURFACE OWNER	TAX PARCEL
2/HG	FRANK J. & S.R. TAROVISKY	04-R8Q-28.0
3	JOLLY W., JR. & KAREN M. WHEELER	04-R8Q-14.0
4	JOLLY W., JR. & KAREN M. WHEELER	04-R8Q-29.0
5	SUZANNE MOZENA	04-R8Q-39.0
6	BRYAN H. & MARTHA A. KRUPINSKI	04-R8Q-50.1
7	DANIEL & SUSAN M. MORGAN	04-R8Q-52.0
8	ROBERT L. RICE, SR. (L/E), MICHAEL A. RICE, ROBERT L. RICE, JR. & JAMIE L. HENDERSON (REMAINDER)	04-R8Q-54.0
9	PATRICIA CATLETT	04-R8Q-55.0
10	BRIAN N. BARBE	04-R8Q-66.0
11	JACOB A. VDOVJAK, III	04-R8Q-68.0
12	WAYNE D. & MARY R. THOMAS	04-R8L-41.0
13	TUNNEL RIDGE, LLC	04-R8-27.7
14	TUNNEL RIDGE, LLC	04-R8-76.0
15	THE KATHLEEN S. CRAFT FOUNDATION & THE JOSEPH W. CRAFT, III FOUNDATION	04-R8-06.0
16	THE KATHLEEN S. CRAFT FOUNDATION & THE JOSEPH W. CRAFT, III FOUNDATION	04-R5-52.0
17	THE KATHLEEN S. CRAFT FOUNDATION & THE JOSEPH W. CRAFT, III FOUNDATION	04-R5-45.6
18	WV DOT, DIVISION OF HIGHWAYS	SHORT CREEK RD
19	WINDSOR COAL COMPANY	04-R5-50.4
20	TUNNEL RIDGE, LLC	04-R5-45.8

TRACT	SURFACE OWNER	TAX PARCEL
21	2014 SABO FAMILY IRREVOCABLE TRUST, JEFFREY C. SABO, TERRI M. PIETRO, LISA I. CLINE & DOUGLAS A. SABO (TRUSTEES)	04-R5-45.14
22	WINDSOR COAL COMPANY	04-R5-50.0
23	JOHN W. METZ	04-R5-46.0
24	JEFFREY R. JOHNSON & CAROLYN L. CLUTTER	04-R5-47.0
25	HOWARD & LESLEY PRINCE	04-R5-48.0
26	BURNT MILLS ACRES, LLC (C/O: MARK FOSTER)	04-R5-13.0
27	S.E.W. TRUST; SHANE E. WOLOSHAN, TRUSTEE	04-R5-09.0
28	ROBERT KUBOVICZ (C/O: UNITED ELECTRIC)	04-R5-08.0
29	ANNA L. YANCHAK (L/E), RUSSELL WAYNE MELCHING (REMAINDER)	04-R5-08.1
30	JOHN E. & EDITH R. HARWATT	04-R5-08.2
31	RODNEY K. & NEDRA C. MCCONNELL	04-R2-20.0
32	RODNEY K. & NEDRA C. MCCONNELL	04-R2-9999-9999
33	GUY D. & LORI R. DONZELLA	04-R2-19.0
34	SYLVIA A. HAWRANICK	04-R2-18.0
35	PAMELA CHILES & RYAN CHILES	04-R2-16.0
36	PAMELA CHILES & RYAN CHILES	04-R2-17.2
37	HENRY W. ZEIDLER	04-R2-17.0
38	MANUEL MARKOS, PAUL MARKOS, DEBORAH MCDANIEL-MCDONALD	03-B45D-62.0
39	H3, LLC	03-B45D-63.0
40	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	WINDY HILL ROAD
41	WINDSOR COAL COMPANY	08-W41N-85.0
42	WINDSOR HEIGHTS IMPROVEMENT CO.	08-W41J-01.0
43	WINDSOR POWERHOUSE COAL COMPANY	03-B41-21.0
44	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	STATE ROUTE 2
45	WINDSOR POWERHOUSE COAL COMPANY	03-B41-25.0

09/10/2021

REVISIONS:

SWN
Production Company, LLC

SWN ^{R+} ^{V+} ^A
Production Company™

COMPANY:		DATE: 06-03-2020	
OPERATOR'S		API NO: 47-069-00314	
WELL #:		DRAWN BY: R.GRIMES	
DISTRICT:		SCALE: N/A	
RICHLAND	COUNTY: OHIO	STATE: WV	DRAWING NO: 2018-781
WELL LOCATION PLAT			

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	SANDSCREST FOUNDATION, INC	04-R11-15.0
B	TUNNEL RIDGE, LLC	04-R8-62.5
C	TUNNEL RIDGE, LLC	04-R8-62.4
D	TUNNEL RIDGE, LLC	04-R8P-14.0
E	SHIRLEY M. WEAVER	04-R8P-02.0
F	TUNNEL RIDGE, LLC	04-R8P-16.0
G	THE KATHLEEN S. CRAFT FOUNDATION & THE JOSEPH W. CRAFT, III FOUNDATION	04-R8-51.0
H	JOHN M. MCGEE	04-R8P-17.0
I	DONALD P. GAYDA	04-R8P-18.0
J	CHARLES R. BOND	04-R8K-110.0
K	TYLER S. SCHWERTFEGER	04-R8K-111.0
L	TYLER S. SCHWERTFEGER	04-R8K-112.0
M	ELMER K. & J.D. REED	04-R8K-106.0
N	ELMER & JOY REED	04-R8K-105.0
O	B.H. BOZENSKE & K.J. O'KELLEY	04-R8K-104.0
P	RAY B. & ANN M. WILSON	04-R8-62.7
Q	ERIC DURELL & CHERYL LYNN RICHARDSON	04-R8-62.6
R	DAVID R. & K. MULDREW	04-R8K-101.0
S	DELORA L. TAYLOR	04-R8K-100.0
T	SUSAN J. SOBOTA	04-R8-62.3
U	JOHN T. WRIGHT	04-R8P-11.0
V	JACQUELINE M. SUTTON	04-R8Q-10.0
W	AMY D. DAGUE	04-R8Q-11.0
X	DALE E. & B.J. KURNER	04-R8Q-12.0
Y	ROGER L. MOORE	04-R8Q-30.1
Z	DONALD W. & AMY K. ELLIOTT	04-R8Q-38.0
AA	JOLLY W., JR. & KAREN M. WHEELER	04-R8Q-37.0
AB	ELAINE ANN DANEHART	04-R8Q-36.0
AC	JENNIFER FRANCIS	04-R8Q-52.1
AD	JOYCE E. DECREASE	04-R8Q-52.2
AE	VANESSA HICKS	04-R8L-44.0
AF	HELEN A. MILLER	04-R8L-45.1
AG	HELEN A. MILLER	04-R8L-45.0
AH	CARRIE L. FORRESTER	04-R8L-46.0
AI	BRENDA M. SELLER	04-R8L-47.0
AJ	BRENDA M. SELLER	04-R8L-50.0
AK	DOROTHY T. LEOS	04-R8L-40.0
AL	ALBERT D. & B.J. ROBRECHT	04-R8L-21.0
AM	ALBERT D. & B.J. ROBRECHT	04-R8L-22.0
AN	MICHAEL L. & P.M. ALLEN	04-R8L-23.0
AO	SILCO, LLC (C/O: RICHARD ROBINSON)	04-R8L-13.0
AP	MICHAEL J. BOWMAN & EKATERINA BOWMAN	04-R8L-25.0
AQ	CHAD D. & MELISSA E. LIZON	04-R8L-26.0
AR	WILLIAM S. CALVERT	04-R8L-27.0
AS	WILLIAM S. CALVERT	04-R8L-28.0
AT	THOMAS A. & TRICIA L. GILSON	04-R8L-08.1
AU	ADAM B. & STACEY L. CAMPBELL	04-R8F-03.0
AV	CAROL S. STANTON	04-R8-28.9
AW	THOMAS D. KASUNIC	04-R8-28.2
AX	DONALD R. & MINNIE JEAN TAYLOR (L/E); KIMBERLY J. KOCHY & TAMI L. TYSK (REMAINDEEMEN)	04-R8-28.0
AY	JAMES G. & T.L. TYSK	04-R8-28.5
AZ	BARRY L. & PENNY S. MCCONNELL	04-R8-28.12
BA	BARRY L. & PENNY S. MCCONNELL	04-R8-28.4
BB	BARRY L. & PENNY S. MCCONNELL	04-R8-29.1
BC	RICHARD CARROLL, JR. & LINDA L. CARROLL	04-R8-06.1
BD	RICHARD CARROLL, JR. & LINDA L. CARROLL	04-R8-33.0
BE	JOHN P. BARBALEY & PAMELA JEAN BARBALEY	04-R8-33.2
BF	WILLIAM F. WENDEL	04-R8-33.1
BG	ALLIANCE RESOURCE GROUP, LLC	04-R8-05.0
BH	ALLIANCE RESOURCE GROUP, LLC	04-R8-03.1
BI	ALLIANCE RESOURCE GROUP, LLC	04-R5-43.0
BJ	JOHN W. METZ	04-R5-45.11
BK	EDWARD A. SMITH	04-R5-45.7
BL	EDWARD A. SMITH	04-R5-45.16
BM	NANCY A. KISH	04-R5-45.15
BN	MARION S. PAVLIC	04-R5-45.0
BO	JOHN STANLEY WALTERS & JOHN SHANE WALTERS	04-R5-45.5
BP	JOHN W. METZ	04-R5-45.3
BQ	JOHN W. METZ	04-R5-45.2
BR	OHIO COUNTY PUBLIC SERVICE DISTRICT	04-R5-45.17
BS	ROBERTA M. KORNER & GEORGE B. KORNER	04-R5-45.12
BT	JULIE A. KOEHLER	04-R5-45.4
BU	JULIE A. KOEHLER	04-R5-45.13
BV	HELEN TAYLOR	04-R5-12.0
BW	HELEN TAYLOR	04-R5-14.0
BX	DALE HUMPHREY, JR. & THERESE M. FLICK	04-R5-15.0
BY	DALE A. & JENNIFER VILLANI	04-R5-16.0
BZ	DALE A. & JENNIFER A. VILLANI	04-R5-17.1
CA	ROBERT N. & CHARLOTTE L. CONNER	04-R5-17.0
CB	PATRICIA ROUSH	04-R5-18.0
CC	ERVAN D. & NANCY G. TRUBIANO	04-R5-19.0
CD	BRIAN W. & MELINDA K. SOWIZRAL	04-R5-20.1
CE	DENNIS J. & SHEILA L. HOSKINS	04-R5-20.4
CF	HAROLD & LINDA COAST	04-R5-02.9

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
CG	JAMES M. & NANCY L. FRYE	04-R5-02.10
CH	JAMES M. & NANCY L. FRYE	04-R5-06.2
CI	TAMMY & SAM HLEBICZKI	04-R5-06.4
CJ	CHARLES H. FRYE, DORIS ALMEYER & ROBIN THOMAS	04-R5-06.0
CK	PATRICK E. LEPLY	04-R5-08.3
CL	MELISSA M. HARWATT	04-R5-08.4
CM	GUY D. & LORI R. DONZELLA	04-R5-06.1
CN	GUY D. & LORI R. DONZELLA	04-R5-07.0
CO	THOMAS H. & MARGARET ANN STENGER	04-R2-06.0
CP	THOMAS H. & MARGARET ANN STENGER	04-R2-06.1
CQ	MARY E. MIDCAP	04-R2-14.0
CR	TODD PARKER	04-R2-14.2
CS	LEE M. & ASHLEY N. NEIDER	04-R2-15.0
CT	DANIEL & JUDITH A. ROEDER	03-B45D-21.0
CU	STEPHANIE CARBASHO	03-B45D-47.0
CV	STEPHANIE CARBASHO	03-B45D-48.0
CW	STEPHANIE CARBASHO	03-B45D-49.0
CX	STEVEN M. FISHER	03-B45D-61.0
CY	STEVEN M. FISHER & HEATHER THOMPSON	03-B45D-60.0
CZ	CHESTER S. & DIANA M. THOMPSON	03-B45D-59.0
DA	LAMBROS TSUHLARES	03-B405-16.0
DB	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	03-B45D-07.0
DC	UNKNOWN OWNER	03-B405-09.0
DD	STATE OF WEST VIRGINIA	OHIO RIVER
DE	WINDSOR COAL COMPANY, LLC	01-BB41-03.0
DF	THE BROOKE COUNTY COMMISSION	01-BB41-08.0
DG	CNX LAND, LLC	03-B41-05.0
DH	ROSEMARY KINDER MOORE	03-B41-30.0
DI	LAWRENCE R. & ROSEMARY MOORE (SURVIVOR)	03-B41-21.1
DJ	THE VILLAGE OF WINDSOR HEIGHTS	03-B41-29.0
DK	WILLIAM C. & PEGGY L. MCGILL (SURVIVOR)	08-W41N-131.0
DL	WILLIAM C. & PEGGY L. MCGILL (SURVIVOR)	03-B41-28.0
DM	DOUGLAS CUNNINGHAM	03-B41-27.0
DN	MONICA P. GRAY	03-B41-26.0
DO	VILLAGE OF WINDSOR HEIGHTS	08-W41J-02.0
DP	DANNY J. MCFARLAND	08-W41J-03.0
DQ	RODNEY CHAMBERS, CAROLYN BARKER (JTWS)	08-W41J-08.0
DR	THOMAS S. MILLER	08-W41J-12.0
DS	JOHN HUNDAGEN, SHANNON RICHARDSON (L/E KATHLEEN HUNDAGEN)	08-W41J-13.0
DT	RAYMOND & BARBARA ANN HORNICK (SURVIVOR)	08-W41J-20.0
DU	JAMES GUBANISH, JANET STUCIN	08-W41J-21.0
DV	CHARLES P. HLEBICZKI JR, TAMMY J. MEYERS (SURVIVOR)	08-W41J-28.0
DW	CHARLES P. HLEBICZKI, JR., & TAMMY J. MEYERS (SURVIVOR)	08-W41J-29.0
DX	VILLAGE OF WINDSOR HEIGHTS	08-W41J-43.0
DY	VILLAGE OF WINDSOR HEIGHTS	08-W41J-42.0
DZ	VILLAGE OF WINDSOR HEIGHTS	08-W41J-41.0
EA	JOHN A. BURCH	08-W41J-40.0
EB	JOSEPH R. LANGFORD JR	08-W41J-39.0
EC	MARYLIN BUREK, EDWARD J. PAVLIC (L/E MARYLIN BUREK)	08-W41N-132.0
ED	WILLIAM F. & IDA B. CLEM	08-W41N-01.0
EE	MARGARET RIHALY	08-W41N-02.0
EF	BENJAMIN DUKE & MEGGAN DUKE, HIS WIFE	08-W41N-03.0
EG	MICHELLE R. MILLS	08-W41N-04.0
EH	HURLEY-BRYAN PROPERTIES	08-W41N-05.0
EI	STEVEN CHIPLINSKI	08-W41N-06.0
EJ	DONALD M. & CAROLYN S. KOSTIVAL	08-W41N-07.0
EK	ANDREW TAKACH, JUDY MCCLURE (SURVIVOR)	08-W41N-08.0
EL	JAMES ALLEN & SHARON L. SMITH	08-W41N-09.0
EM	MARK E. STEWART	08-W41N-10.0
EN	CODY BROWN SANDRETH, JESSICA CINDY ROYAL (SURVIVOR)	08-W41N-11.0
EO	JAMIE SUE ERNEST & WILLIAM CRIGHTON FERRELL, III, SUBJECT TO THE LIFE ESTATE OF WILLIAM FARRELL, JR., & BARBARA FARRELL, HIS WIFE	08-W41N-12.0
EP	JEAN A. PRICE	08-W41N-13.0
EQ	CODY B. SANDRETH, & JESSICA C. ROYAL	08-W41N-20.0
ER	SANDRA K. KOKOSINSKI	08-W40S-01.0
ES	JACK & DORIS SNYDER (SURVIVOR)	08-W40S-03.0
ET	GAREN L. COOK	08-W40S-04.0
EU	GERALD M. & ROSEMARY HAWKINS (SURVIVOR)	08-W41N-25.0
EV	JOHN T. KOKOSINSKI JR	08-W41N-24.0
EW	NORA M. BOWWENS	08-W41N-27.0
EX	ROBERT LEE CLARK JR, CHRISTINA LEE (SURVIVOR)	08-W41N-26.0
EY	LEAH N. & RONALD R. ANDERSON (SURVIVOR)	08-W41N-84.0
EZ	WILLIAM M. & KATHRYN SUE LIPOSHACK	08-W41N-86.0
FA	WINDSOR HEIGHTS	08-W41N-94.0
FB	CNX LAND, LLC	03-B41-20.0
FC	EVERT RUNYAN	03-B41-18.0
FD	TRUSTEES OF THE CHURCH OF GOD	03-B41-19.0
FE	BARRY L. & PATRICIA A. GREATHOUSE	03-B46-18.0
FF	HENRY W. ZEIDLER & NANCY FREUND	03-B46-01.0
FG	ALEC MUSHET & DARLA ANN MUSHET	03-B46-04.0
FH	HENRY W. ZEIDLER & NANCY FREUND	03-B46-08.0
FI	JOAN GARRETT	03-B46-09.0
FJ	HENRY W. ZEIDLER, JUDITH K. ZEIDLER & MARGARET L. BURGGRAF	03-B46-15.0
FK	KENNETH D. & BARBARA COVER	03-B46-11.0



09/10/2021

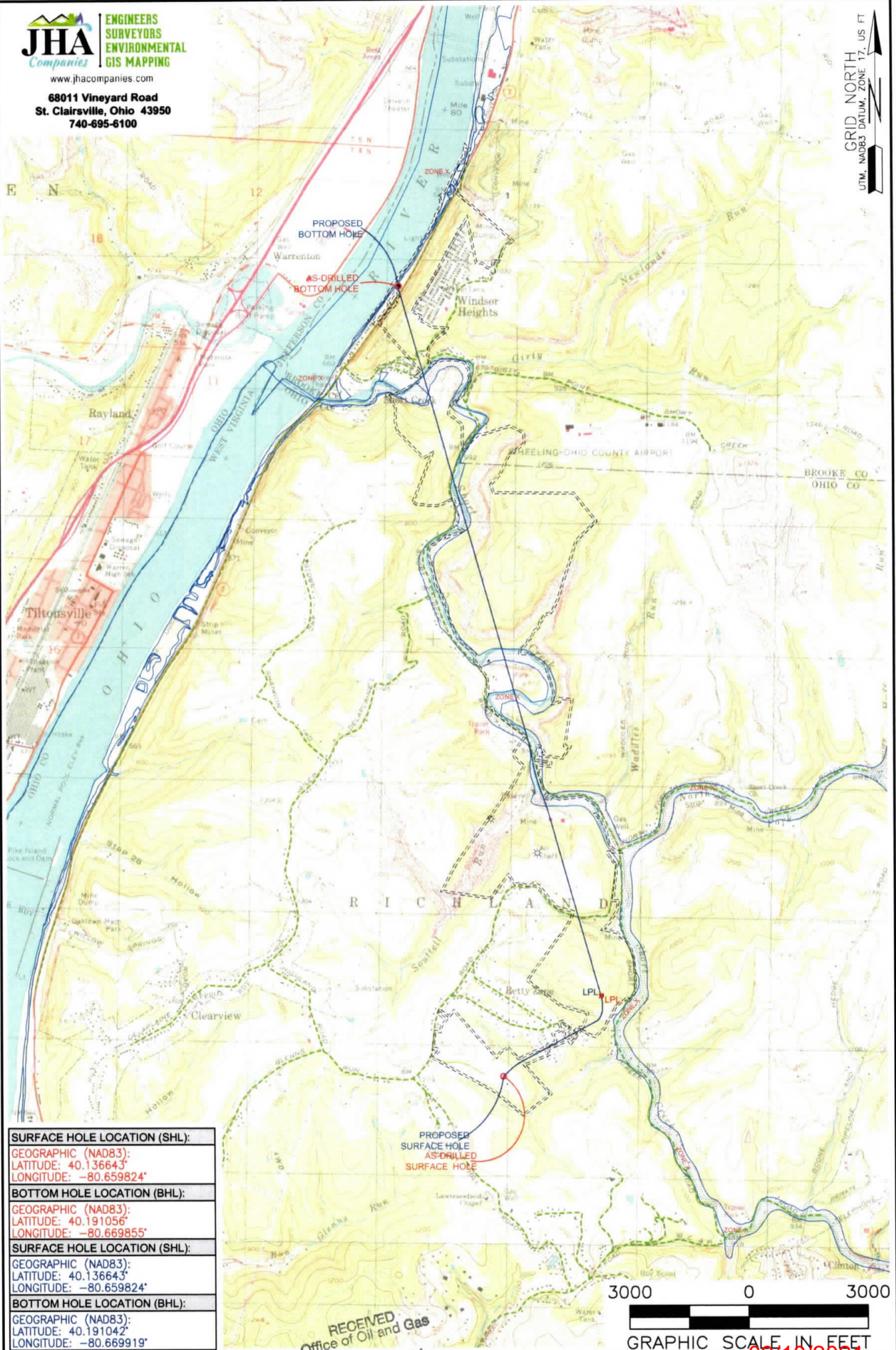
REVISIONS:

COMPANY:	 		DATE: 06-03-2020
	OPERATOR'S WELL #:	FRANZ THOMAN OHI 605H	
DISTRICT: RICHLAND		COUNTY: OHIO	STATE: WV

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
FL	KENNETH D. & BARBARA COVER	03-B46-12.0
FM	HENRY W. ZEIDLER, JUDITH K. ZEIDLER & MARGARET L. BURGGRAF	03-B46-13.0
FN	SYLVIA A. HAWRANICK	04-R2-18.1
FO	RODNEY K. & NEDRA C. MCCONNELL	04-R2-18.2
FP	RODNEY K. & NEDRA C. MCCONNELL	03-B46-14.0
FQ	OHIO COUNTY BOARD OF COMMISSIONERS, AIRPORT AUTHORITY	04-R5-10.0
FR	ANDREW JOHN EVICK	04-R5-49.0
FS	ALLIANCE RESOURCE GROUP, LLC	04-R5-53.0
FT	WINDSOR COAL COMPANY	04-R5-50.7
FU	WINDSOR COAL COMPANY	04-R5-50.6
FV	WINDSOR COAL COMPANY	04-R5-50.5
FW	WINDSOR COAL COMPANY	04-R5-50.3
FX	PATRICIA A. & DAVID F. WOLEN	04-R5-50.2
FY	PATRICIA A. & DAVID F. WOLEN	04-R5-51.0
FZ	ALLIANCE RESOURCE GP, LLC	04-R5-51.1
GA	WHEELING ELECTRIC COMPANY (C/O: AEP)	04-R5-52.1
GB	ANDREW JOHN EVICK	04-R5-54.0
GC	SUSAN L. CAIN	04-R8-08.3
GD	TUNNEL RIDGE, LLC	04-R8-08.2
GE	TUNNEL RIDGE, LLC	04-R8-08.9
GF	OHIO COUNTY COMMISSION	04-R8-08.16
GG	JUDITH K. TYLER	04-R8-08.8
GH	AMERICAN DISPOSAL SERVICES OF WEST VIRGINIA, INC	04-R8-15.0
GI	LOUIS R. HERCULES, SIDNEY HERCULES, YVONNE LOUGH, CONNIE SMITH, LOIS E. HERCULES, DERRICK WAYNE HERCULES, CHARLES W. HERCULES, BRENDA HERCULES, GERTRUDE ETHRIDGE & SONYA CARROLL	04-R8-07.0
GJ	DEBRA S. SHEPHERD	04-R8-15.2
GK	WV DOT, DIVISION OF HIGHWAYS	04-R8-9999-9999
GL	CHARLES M. & MARLEEN M. MILLER	04-R8-15.3
GM	SUZANNE V. STANLEY	04-R8-23.0
GN	MELISSA E. & RALPH L., II FRITTER	04-R8-25.3
GO	MELISSA E. & RALPH L., II FRITTER	04-R8-25.0
GP	TUNNEL RIDGE, LLC	04-R8-26.0
GQ	TUNNEL RIDGE, LLC	04-R8-15.4
GR	TUNNEL RIDGE, LLC	04-R8-27.6
GS	TUNNEL RIDGE, LLC	04-R8-21.2
GT	TUNNEL RIDGE, LLC	04-R8-20.0
GU	SUSAN KOGUT & BRADLEY MCGRATH	04-R8-27.5
GV	MARILYN R. BLAKE	04-R8-27.0
GW	JAMES KEVIN CRUPE, SR.	04-R8L-49.0
GX	JAMES KEVIN CRUPE, SR.	04-R8Q-74.0
GY	JACOB A. VDOVJAK, III	04-R8Q-69.0
GZ	PAUL J. DENARD	04-R8Q-64.0
HA	PAUL J. DENARD	04-R8Q-64.1
HB	MARY T. BERTELLI & ROGER D. BERTELLI	04-R8Q-65.0
HC	GEORGE W. & J.P. HELDEFER	04-R8Q-56.0
HD	DESSIE M. HEDRICK	04-R8Q-46.0
HE	DESSIE M. HEDRICK	04-R8Q-47.0
HF	SUZANNE MOZENA	04-R8Q-40.0
HG	REMOVED	REMOVED
HH	PAULA J. & EDWARD C. TOMASIK	04-R8Q-03.0
HI	RUSSELL E. TERAMANA & ROSEANN L. TERAMANA	04-R8Q-02.0
HJ	RALPH J. & K.L. HUFFMAN	04-R8Q-60.0
HK	OHIO COUNTY PUBLIC SERVICE DISTRICT	04-R5-13.1
HL	KASMIR MAJEWSKI & EDWARD A. MAJEWSKI	04-R8-62.2
HM	KASMIR MAJEWSKI & EDWARD A. MAJEWSKI	04-R8-62.8

09/10/2021

REVISIONS:	COMPANY: 			
	OPERATOR'S		FRANZ THOMAN OHI	
	WELL #:		605H	
	DISTRICT:	COUNTY:	STATE:	DATE: 06-03-2020
	RICHLAND	OHIO	WV	API NO: 47-069-00314
			DRAWN BY: R.GRIMES	
			SCALE: N/A	
			DRAWING NO: 2018-781	
			WELL LOCATION PLAT	



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.136643°
LONGITUDE: -80.659824°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.191056°
LONGITUDE: -80.669855°
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.136643°
LONGITUDE: -80.659824°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.191042°
LONGITUDE: -80.669919°

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.

RECEIVED
 Office of Oil and Gas
 JAN 29 2021
 WV Department of
 Environmental Protection

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

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: FRANZ THOMAN OHI	WELL # 605H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY: OHIO	CODE: 069	DISTRICT: RICHLAND
SURFACE OWNER: FRANZ THOMAN	USGS 7 1/2 QUADRANGLE MAP NAME: TILTONSVILLE, OH-WV		
		API # 47-069-00314	