

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

API 47 - 069 - 00221 County OHIO District TRIADELPHIA  
Quad WHEELING, WV Pad Name TIMMY MINCH-OHI-PAD1 Field/Pool Name PANHANDLE FIELD WET  
Farm name TIMMY B. MINCH & AMY L. MINCH Well Number TIMMY MINCH OHI 201H  
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 4,437,290.450 Easting 530,151.293  
Landing Point of Curve Northing 4,437,177.344 Easting 529,381.418  
Bottom Hole Northing 4,439,822.794 Easting 528,114.825

Elevation (ft) 1208.2' 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 07/06/2017 Date drilling commenced 08/04/2018 Date drilling ceased 08/27/2018  
Date completion activities began 01/10/2019 Date completion activities ceased 03/31/2019  
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 306' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 619' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 467' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed  
C-AD 9-9-19

Reviewed by:  
CB 9-9-19  
03/11/2022

API 47-069 - 00221 Farm name TIMMY B. MINCH & AMY L. MINCH Well number TIMMY MINCH OHI 201H

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	537'	NEW	J-55/54.5#	495.1' / 455.8'	Y
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1918'	NEW	J-55/36#		Y
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.50	16,683'	NEW	HCP-110/20#		Y
Tubing		2.375	7,032'	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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	646	15.60	1.20	775.20	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	718	15.60	1.19	854.42	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,270	15.60	1.19	3,891.3	SURFACE	24
Tubing							

Drillers TD (ft) 16,683' Loggers TD (ft) 16,683'  
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 5,956'

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 \_\_\_\_\_ JUN 18 2019

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_ WV Department of Environmental Protection

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

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMEN	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	ATTACHMEN	2				

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PRODUCING FORMATION(S)	DEPTHS	
MARCELLUS	6,050'	TVD 6,848' 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	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> 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 RD City THE WOODLANDS State TX Zip 77380

Cementing Company B J SERVICES  
Address 11211 FM 2920 City TOMBALL State TX Zip 77377

Stimulating Company HALLIBURTON ENERGY SERVICES  
Address 14851 MILNER ROAD, GATE 5A City HOUSTON State TX Zip 77032

Please insert additional pages as applicable.

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Completed by BOBBY WILLIS Telephone 832-796-2884  
Signature  Title SENIOR REGULATORY ANALYST Date 6/17/2019 WV Department of Environmental Protection

**Timmy Minch OHI 201H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	1/4/2019	16,547	16,449	36
2	1/13/2019	16,416	16,309	42
3	1/14/2019	16,276	16,169	42
4	1/14/2019	16,136	16,029	42
5	1/15/2019	15,996	15,889	42
6	1/15/2019	15,856	15,749	42
7	1/16/2019	15,712	15,609	42
8	1/17/2019	15,576	15,469	42
9	1/17/2019	15,436	15,329	42
10	1/18/2019	15,296	15,189	42
11	1/18/2019	15,156	15,049	42
12	1/19/2019	15,016	14,909	42
13	1/19/2019	14,876	14,769	42
14	1/21/2019	14,736	14,629	42
15	1/23/2019	14,596	14,489	42
16	1/23/2019	14,456	14,349	42
17	1/23/2019	14,293	14,209	42
18	1/24/2019	14,176	14,069	42
19	1/24/2019	14,036	13,929	42
20	1/24/2019	13,896	13,789	42
21	1/25/2019	13,756	13,649	42
22	1/25/2019	13,616	13,509	42
23	1/26/2019	13,476	13,369	42
24	1/26/2019	13,336	13,229	42
25	1/26/2019	13,196	13,089	42
26	1/26/2019	13,056	12,949	42
27	1/27/2019	12,916	12,809	42
28	1/27/2019	12,776	12,669	42
29	1/27/2019	12,636	12,529	42
30	1/28/2019	12,496	12,389	42
31	1/28/2019	12,356	12,249	42
32	1/28/2019	12,216	12,109	42
33	1/29/2019	12,076	11,969	42
34	2/14/2019	11,936	11,829	42
35	2/14/2019	11,796	11,689	42
36	2/23/2019	11,656	11,549	42
37	2/23/2019	11,516	11,409	42
38	2/23/2019	11,376	11,269	42
39	2/24/2019	11,236	11,129	42
40	2/24/2019	11,096	10,989	42
41	2/26/2019	10,956	10,849	42
42	2/26/2019	10,816	10,709	42
43	2/26/2019	10,676	10,569	42

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PERF REPORT**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
44	2/27/2019	10,536	10,429	42
45	2/27/2019	10,396	10,289	42
46	2/27/2019	10,256	10,149	42
47	2/28/2019	10,116	10,009	42
48	2/28/2019	9,976	9,869	42
49	3/1/2019	9,836	9,729	42
50	3/2/2019	9,696	9,589	42
51	3/2/2019	9,556	9,449	42
52	3/3/2019	9,416	9,309	42
53	3/3/2019	9,276	9,169	42
54	3/7/2019	9,136	9,029	42
55	3/7/2019	8,996	8,889	42
56	3/7/2019	8,856	8,749	42
57	3/8/2019	8,716	8,609	42
58	3/8/2019	8,576	8,469	42
59	3/8/2019	8,436	8,329	42
60	3/9/2019	8,296	8,189	42
61	3/9/2019	8,156	8,049	42
62	3/9/2019	8,016	7,909	42
63	3/10/2019	7,876	7,769	42
64	3/10/2019	7,736	7,629	42
65	3/10/2019	7,596	7,489	42
66	3/11/2019	7,456	7,349	42
67	3/11/2019	7,316	7,209	42
68	3/11/2019	7,176	7,069	42
69	3/11/2019	7,036	6,929	42

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ATTACHMENT 2

STIM REPORT

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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	1/12/2019	86.6	6,926	8,257	3,512	278,769	5,074	0
2	1/14/2019	85.6	8,336	4,205	3,750	287,523	5,762	0
3	1/14/2019	74.6	7,148	5,420	3,908	281,580	9,750	0
4	1/15/2019	77.2	6,956	4,705	4,415	278,294	8,618	0
5	1/16/2019	93.5	8,030	4,972	3,913	278,823	6,529	0
6	1/16/2019	91.4	7,398	5,072	4,095	279,008	5,916	0
7	1/17/2019	95.5	7,901	4,193	3,973	283,303	6,215	0
8	1/17/2019	90.5	7,307	4,456	4,141	282,846	6,416	0
9	1/17/2019	90.4	7,757	4,870	3,995	281,239	5,281	0
10	1/18/2019	90.9	7,605	5,206	4,114	281,922	5,374	0
11	1/19/2019	98	8005	5,322	4,364	282,084	5,034	0
12	1/19/2019	94.9	8,084	5,773	4,121	281,117	5,095	0
13	1/20/2019	96.9	8,071	5,735	4,366	276,604	5,426	0
14	1/22/2019	94.1	7,633	5,858	4,516	280,611	6,063	0
15	1/23/2019	95.9	7,744	5,374	4,417	283,299	5,300	0
16	1/23/2019	86.5	7,044	3,727	4,397	286,048	5,026	0
17	1/23/2019	94.3	7,509	5,370	4,171	282,384	6,100	0
18	1/24/2019	87.7	6,921	4,709	4,314	280,758	5,292	0
19	1/24/2019	88	7,383	5,324	4,063	280,159	5,232	0
20	1/24/2019	98.3	7,826	5,632	4,039	280,051	5,787	0
21	1/25/2019	93.9	7,422	5,206	4,069	282,110	5,285	0
22	1/25/2019	76.6	7,691	5,014	4,054	280,307	5,054	0
23	1/26/2019	80.5	6,845	6,978	4,226	278,088	5,941	0
24	1/26/2019	88.3	7,102	5,280	4,517	219,284	4,507	0
25	1/26/2019	97.2	7,458	5,386	4,514	281,289	5,006	0
26	1/27/2019	98.2	7,153	4,985	4,521	280,908	4,954	0
27	1/27/2019	88.8	6,856	4,505	4,370	282,673	5,222	0
28	1/27/2019	87.6	7,049	4,939	4,010	280,092	5,034	0
29	1/27/2019	97.9	7,725	5,154	4,178	278,951	4,797	0
30	1/28/2019	86.4	6,917	4,288	4,305	281,029	5,128	0
31	1/28/2019	95.8	7,435	5,615	4,574	281,002	4,874	0
32	1/29/2019	97.2	7,359	5,646	4,392	283,906	4,695	0
33	2/13/2019	97.5	8,068	5,160	4,427	280,100	5,063	0
34	2/22/2019	99.8	8,032	5,775	4,373	282,062	4,470	0
35	2/22/2019	97.1	8,025	5,849	4,304	278,440	4,221	0
36	2/23/2019	97.9	7,872	5,191	4,628	283,587	4,198	0
37	2/23/2019	98.5	8,002	5,401	4,610	280,780	4,121	0
38	2/24/2019	92.7	7969	5,556	4,407	279,533	4,102	0
39	2/24/2019	96.8	8,090	5,613	4,871	277,170	4,078	0
40	2/25/2019	97.9	7,712	5,669	4,339	281,270	4,137	0
41	2/26/2019	96.3	7,919	5,238	4,797	279,404	4099.285714	0
42	2/26/2019	98.5	7,877	5,264	4,413	281,950	4,149	0
43	2/26/2019	97.2	7,677	5,290	4,674	248,935	4,278	0
44	2/27/2019	98	7,892	5,425	4,633	281,489	4,185	0
45	2/27/2019	96.8	7,744	5,498	4,469	283,324	4,226	0
46	2/28/2019	97.9	7,698	5,547	4,194	283,469	4,202	0
47	2/28/2019	99	7,522	5,218	4,668	279,784	4,143	0
48	2/28/2019	99	7,622	5,370	4,806	284,266	4,159	0
49	3/1/2019	95	7,492	5,555	4,534	285,913	4,470	0
50	3/2/2019	96.8	7,700	4,199	4,340	279685	4,158	0
51	3/3/2019	96.3	7,288	5,508	4,504	289,306	4,334	0
52	3/4/2019	96.6	7,509	5,766	4,689	280,060	4,169	0
53	3/7/2019	93	7,460	5,295	4,930	281,355	4,272	0

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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/othe
54	3/7/2019	97.5	8,040	5,535	4,586	283,435	4,183	0
55	3/7/2019	93.7	7,736	5,529	4,778	281,844	3,934	0
56	3/7/2019	96.4	7,679	5,524	4,510	283,289	4,048	0
57	3/8/2019	96.6	7,408	5,684	4,169	281,348	4,077	0
58	3/8/2019	95.8	7,700	5,630	4,857	282,448	4,013	0
59	3/9/2019	94.3	7,715	5,794	4,583	280,831	3,897	0
60	3/9/2019	98.3	7,475	5,696	4,686	280,032	4,068	0
61	3/9/2019	96.6	7,788	5,590	4,716	284,045	4,123	0
62	3/9/2019	97.4	7,915	5,813	4,690	281,403	3,872	0
63	3/10/2019	99	7,180	5,785	4,489	290,244	4,133	0
64	3/10/2019	98.1	8,174	5,728	4,624	280,912	3,838	0
65	3/10/2019	97.5	8,199	5,661	4,603	280,656	3,863	0
66	3/11/2019	98.1	7,886	5,605	4,746	279,283	3,820	0
67	3/11/2019	98.1	7,535	5,650	4,839	279,930	4,007	0
68	3/11/2019	95.5	7,937	5,611	4,613	281,577	3,741	0
69	3/11/2019	94.2	7,950	5,690	4,486	281,612	3,738	0

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

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Job Start Date:	1/12/2019
Job End Date:	3/11/2019
State:	West Virginia
County:	Ohio
API Number:	47-069-00221-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Timmy Minch OHI 201H
Latitude:	40.08535227
Longitude:	-80.64633445
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,029
Total Base Water Volume (gal):	13,930,044
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	Operator	Carrier					
			Water	7732-18-5	100.00000	98.03377	
Fresh Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	82.32992	Density = 8.340

Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	60.00000	0.01060	
			Water	7732-18-5	40.00000	0.03200	
			Water	7732-18-5	85.00000	0.84511	
			Water	7732-18-5	2.00000	0.00015	
			Water	7732-18-5	100.00000	1.57237	
			Water	7732-18-5	50.00000	0.00518	
15% HCl Acid	BJ Services	Acid					
				Listed Below			
FRW-18	BJ Services	Friction Reducer					
				Listed Below			
HYDROCHLORIC ACID	Halliburton	Solvent					
				Listed Below			
Excelerate LX-1	Halliburton	Friction Reducer					
				Listed Below			
SAND-PREMIUM WHITE-40/70	Halliburton	Proppant					
				Listed Below			

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FSTI-IC-001	FSTI	Iron Control Agent						RECEIVED Office of Oil and Gas JUL 29 2019 WV Department of Environmental Protection
				Listed Below				
Sand, White	BJ Services	Proppant						
				Listed Below				
BE-9W	Halliburton	Biocide						
				Listed Below				
FSTI-CI-01	FSTI	Corrosion Inhibitor						
				Listed Below				
SAND-COMMON WHITE-100 MESH, SSA-2	Halliburton	Proppant						
				Listed Below				
FraCare SI 720	BJ Services	Scale Inhibitor						
				Listed Below				
SCAL16486A	Nalco	Biocide						
				Listed Below				
Calcium Chloride	BJ Services	Salts						
				Listed Below				
BIOC11139A	BJ Services	biocide						

				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	16.06533	RECEIVED Office of Oil and Gas JUL 29 2019 WV Department of Environmental Protection
			Crystalline Silica (Quartz)	14808-60-7	100.00000	13.81078	
			Hydrochloric acid	7647-01-0	15.00000	0.22766	
			Hydrochloric acid	7647-01-0	15.00000	0.14914	
			Poly (acrylamide-co- acrylic acid) partial sodium salt	62649-23-4	30.00000	0.02400	
			Petroleum Distillates	64742-47-8	30.00000	0.02400	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02350	
			Polyacrylate	Proprietary	30.00000	0.02350	
			Acetic acid	64-19-7	60.00000	0.01608	
			Citric acid	77-92-9	40.00000	0.01072	
			Fatty acid ester	Proprietary	5.00000	0.00783	
			Calcium Chloride	10043-52-4	98.00000	0.00757	
			Methanol	67-56-1	80.00000	0.00600	
			Benzyl-(C12-C16 Alkyl)- Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.00530	
			Propylene glycol	57-55-6	60.00000	0.00459	
			Sodium Chloride	7647-14-5	5.00000	0.00400	
			9-Octadecenamide, n,n- bis-2(hydroxy-ethyl)-,(Z)	93-83-4	5.00000	0.00392	
			Ethoxylated fatty acid	Proprietary	5.00000	0.00392	Denise Tuck, Halliburton, 3000 N. Sam Houston Pkwy E., Houston, TX 77032, 281-871-6226
			Sobitan, mono-9- octadecenoate, (Z)	1338-43-8	5.00000	0.00392	
			Sodium chloride	7647-14-5	5.00000	0.00392	
			Ammonium chloride	12125-02-9	5.00000	0.00392	
			Castor oil, ethoxylated	61791-12-6	5.00000	0.00364	



			Ethylene Glycol	107-21-1	30.00000	0.00311	
			Ammonium Chloride	12125-02-9	3.00000	0.00240	
			2-propenoic, polymer with sodium phosphinate, sodium salt	71050-62-9	20.00000	0.00207	
			Glutaraldehyde	111-30-8	10.00000	0.00177	
			Ethylene Glycol	107-21-1	30.00000	0.00161	
			Amine Triphosphate	Proprietary	30.00000	0.00161	
			Ethoxylated Alcohol	68551-12-2	2.00000	0.00160	
			Oleamide DEA	93-83-4	2.00000	0.00160	
			Ethanol	64-17-5	5.00000	0.00088	
			Tributyl tetradecyl phosphonium chloride	81741-28-8	10.00000	0.00077	
			Fatty acids	Trade Secret	10.00000	0.00075	
			Calcium Chloride	10043-52-4	5.00000	0.00052	
			Sorbitan Monooleate	1338-43-8	0.50000	0.00040	
			Polyoxyethylene Sorbitan Monooleate	9005-65-6	0.50000	0.00040	
			Potassium Chloride	7447-40-7	1.00000	0.00010	
			Sodium Chloride	7647-14-5	1.00000	0.00010	

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\* 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)



**Well Name: Timmy Minch OHI 201H**

Attachment 3

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	306.00	306.00	
Top of Salt Water	619.00	619.00	NA	NA	
Pittsburgh Coal	467.00	467.00	480.00	480.00	
Pottsville (ss)	634.00	634.00	663.00	663.00	
Raven Cliff (ss)	930.00	930.00	1378.00	1378.00	
Maxton (ss)	1378.00	1378.00	1624.00	1624.00	
Big Injun (ss)	1624.00	1624.00	6206.00	5648.00	
Rhinestreet (shale)	6206.00	5648.00	6451.00	5833.00	
Middlesex (shale)	6451.00	5833.00	6548.00	5901.00	
Burket (shale)	6548.00	5901.00	6575.00	5920.00	
Tully (ls)	6575.00	5920.00	6651.00	5966.00	
Mahantango (shale)	6651.00	5966.00	6848.00	6050.00	
Marcellus (shale)	6848.00	6050.00	NA	NA	GAS









**JACKSON SURVEYING  
INC.**

P.O. Box 1460  
677 W. Main St.  
Clarksburg, WV 26302  
304-623-5851

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	TIMMY B. MINCH & AMY L. MINCH (S/R)	06-T2-18	254.38
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	CHARLES MONFRADI & DOLORES MONFRADI (S)	04-R17-58	29.84
3	RICHARD P. CARTER (S)	04-R17-23.3	63.27
4	NADA E. BENEKE (S)	04-R17-22	1.83
5	SHANNON FIELDS, L.L.C. (S)	04-R17-23.2	35.07
6	CORNERSTONE FAMILY SERVICES OF WEST VIRGINIA, LLC	04-R17-8	76.978
7	WHEELING PARK COMMISSION (S)	04-R14-15	1067.71
8	ELIAS E. JOSEPH & ELIZABETH A. JOSEPH (S)	04-R14A-53	26.92

ADJOINING OWNERS TABLE				ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES	TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	JON BARRY & JAYMIE BARRY	04-R17D-3	0.91	XX	SISTERS OF ST. JOSEPH OF WHEELING, INC.	04-R11-20	39.269
B	V.J. SOVINSKI & H.G. SOVINSKI	04-R17D-28	0.73	YY	PARKS SYSTEM TRUST FUND OF WHEELING	04-R11-21.3	23.8
C	J.G. DEEDS & M.K. GARRISON	04-R17D-30	0.37	ZZ	WHEELING PARK COMMISSION	04-R14-91	18.0
D	MICHAEL DOUGLAS GATES	04-R17D-1	93.53	AAA	WHEELING PARK COMMISSION	04-R14-20.4	7.368
E	RONALD J. POCKL	06-T2-20.1	4.92	BBB	WHEELING PARK COMMISSION	04-R14-15.2	11.0
F	DIANE C. WOJCHOWSKI	06-T2-20	4.08	CCC	WILLIAM J. HOSFELT & P.K. HOSFELT	10-W12D-2	0.3350
G	SHAWN A. HODGSON & LESLIE G. HODGSON	04-R17-62	0.53	DDD	CHARLES M. RANSOM	10-W12D-1	0.3696
H	DANNY MINCH & GINA MINCH	04-R17-61	1.29	EEE	ROBERT A. GALBRAITH & PATRICIA GALBRAITH	10-W14D-1	0.4885
I	HOWARD L. MINCH & BEVERLY G. MINCH	04-R17-63	0.81	FFF	DOROTHY SATTERFIELD	10-W14D-2	0.4672
J	JUNIPER LODGE, INC.	06-T2-19	2.35	GGG	ROBERT A. TUCKER & R. TUCKER	10-W14D-3	0.3109
K	WILLIAM A. ORUM & CYNTHIA E. ORUM	06-T2-19.1	6.0	HHH	BETTY J. MCKINLEY	10-W14D-4	0.258
L	WILLIAM A. ORUM & CYNTHIA ORUM	06-T7-178	40.0	III	CAROLYN MORTELL	10-W14D-5	0.275
M	WHEELING PARK COMMISSION	06-T7-95	74.405	JJJ	RAYMOND C. GEORGE & E.A. GEORGE	10-W14D-6	0.2868
N	LUANN DANEHART & ARTHUR W. DANEHART, JR.	06-T2-16.2	11.155	KKK	DAVID V. RIGGS & KERRIE L. RIGGS	10-W14D-7	0.3056
O	GLORIA J. KALB	06-T2-15.3	8.425	LLL	TONY A. ROBINSON	10-W14D-8	0.3159
P	GLORIA J. KALB	06-T2-14	3.46	MMM	JASON TREUMAN	10-W14D-9	0.3023
Q	RICHARD P. CARTER & KIM M. CARTER	04-R17-23.1	0.838	NNN	MARTIN M. KUHAR & D.J. KUHAR	10-W14D-10	0.3053
R	SHASHI R. URVAL & MONISH URVAL	06-T2J-1	0.5498	OOO	KURT LATOUR & JUDY C. LATOUR	10-W14D-11	0.3030
S	MATTHEW GOMPERS & VICTORIA GOMPERS	04-R17-10.2	2.0	PPP	PAULA CRAGO PEARCE	10-W14D-12	0.3306
T	HARRY S. FISHER & BARBARA J. FISHER	04-R17-11.1	2.85	QQQ	HENRY R. KUHENS & M.L. KUHENS	10-W14D-13	0.3581
U	HARRY S. FISHER & BARBARA J. FISHER	04-R17-11	2.87	RRR	KATHLEEN SAFCSAK	10-W14D-14	0.3673
V	CARL D. BURKLAND III & JOLIN H. BURKLAND	04-R17-12	2.83	SSS	DAVID D. DOEPKEN & CHRISTINE B. DOEPKEN	10-W14D-15	0.3535
W	CARL D. BURKLAND III & JOLIN H. BURKLAND	04-R17-13.1	0.28	TTT	MICHAEL F. DUPLAGA & MARISSA A. YOHO	10-W14D-16	0.345
X	GUNTHER F. HEMPELMAN & M.E. HEMPELMAN	04-R17-13	1.9235	UUU	CHARLES NEUMAN & B.J. WOTRING	10-W14D-17	0.3444
Y	COLUMBIA GAS TRANSMISSION CORP.	04-R17-15	0.0399	VVV	MARK K. YOUNG & SAMANTHA YOUNG	10-W14D-18	0.3421
Z	GUNTHER F. HEMPELMAN & M.E. HEMPELMAN	04-R17-13	1.9235	WWW	DANIEL S. PETRI & D. PETRI	10-W14D-19	0.366
AA	JEREMY A. SCHREIBER	04-R17-16	2.48	XXX	ROBERT L. WATSON & J.T. WATSON	10-W17D-2	0.352
BB	CRAIG V. OLEARY & EMMA L. OLEARY	04-R17-17	3.49	YYY	STEPHEN L. HANNA & C.H. HANNA	10-W17D-3	0.4231
CC	THOMAS JOHN & MICHELLE JOHN	04-R17-20	1.90	ZZZ	DAVID W. MILLER & PETER J. JUNKERSFELD	10-W17D-4	0.67
DD	GACS, L.P.	10-W27A-01	16.8	AAAA	DAVID W. MILLER & PETER J. JUNKERSFELD	10-W17D-5	0.43
EE	JEFFREY S. SCHULTZ	04-R14-13	4.09	BBBB	JAMES C. MCBANE TRUSTEE	10-W17D-6	0.33
FF	WHEELING PARK COMMISSION	10-W17A-01	17.24	CCCC	SAMUEL J. LAPP II & HEATHER A. LAPP	04-R14-50.1	1.93
GG	JOHN M. PELUCHETTE & C.L. PELUCHETTE	04-R14J-01	0.772	DDDD	KATHLEEN M. GOMPERS	04-R14-50.3	1.772
HH	EDWARD P. POLACK	04-R14-95	56.335	EEEE	KATHLEEN M. GOMPERS	04-R14-50.2	5.371
II	THOMAS E. ALLEN	04-R14E-04	0.4677	FFFF	HARIETTE E. FRIEND & L. EDWARD FRIEND II	04-R14-51	11.31
JJ	FRANK A. DUSCH (LIFE)	04-R14E-01	2.9472	GGGG	EDWARD T. HITCHMAN III & HELEN G. HITCHMAN	04-R14-53	1.30
KK	ELIAS EDW. JOSEPH	04-R14E-05	1.5092	HHHH	EDWARD T. HITCHMAN III & HELEN G. HITCHMAN	04-R14-67	1.75
LL	ELIAS E. JOSEPH - 1999	04-R14E-06	0.9266	IIII	WENDY K. ELSWICK	04-R17-59.1	1.438
MM	ELIAS E. JOSEPH	04-R14E-6.1	0.6401	JJJJ	DONALD R. EDDY & M.M. EDDY	04-R17-59.2	2.295
NN	ELIAS E. JOSEPH	04-R14E-07	1.0216	KKKK	ERIN M. THALMAN	04-R17-8.1	3.237
OO	RICHARD E. THOMPSON & N.A. THOMPSON	04-R14E-08	2.3453	LLLL	JAMES R. MULL	04-R17-24	8.79
PP	RICHARD E. THOMPSON & N.A. THOMPSON	04-R14A-53.3	0.4709	MMMM	EARL P. HUFFNER	04-R17-24.1	1.0
QQ	MARGARET J. AISQUITH	04-R14A-199	0.1268	NNNN	JOAN L. SCHENERLEIN	04-R17-58.5	1.0
RR	ROBERT D. KENNAN & DELILAH L. KENNAN	04-R14A-53.7	6.2365	OOOO	REX D. LASURE & N.A. ENDRIZZI	04-R17-58.4	1.0
SS	JAMES A. SCHMITT	04-R14-4.6	4.75	PPPP	REX D. LASURE & N.A. ENDRIZZI	04-R17-58.3	0.75
TT	JAMES A. SCHMITT	04-R14-4.5	4.752	QQQQ	JAMES HOHMAN & M. HOHMAN	04-R17-58.2	0.75
UU	WHITMAR HILL II HOMEOWNERS ASSOCIATION, INC.	04-R11-2.3	2.33	RRRR	TIMMY B. MINCH & AMY L. MINCH	04-R17-58.1	1.0
VV	JOSEPH M. MELIA & J.M. MELIA	04-R14-6.1	4.68	SSSS	ROBERT WILLIAM MINCH, JR & BARBARA JEAN MINCH	04-R17-57.2	6.29
WW	PAMELA SURE HARROLD C/O GC&P ANIMAL HOSPITAL, INC	04-R14-6	8.93	TTTT	ROBERT WILLIAM MINCH, JR. & HERBERT PAUL MINCH	04-R17-57	31.33
				UUUU	GEORGE O. NUTTING	04-R17-57.1	6.29

03/11/2022

REVISIONS:	COMPANY:			 	
	OPERATOR'S	TIMMY MINCH OHI	API #	DATE: 02-28-2019	
	WELL #:	201H	47-069-00221	DRAWN BY: N. MANO	
	DISTRICT:	COUNTY:	STATE:	SCALE:	
	TRIADELPHIA	OHIO	WV	DRAWING NO:	
				WELL LOCATION PLAT 2	