

Entered in RBDM ✓

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

WV Department of Environmental Protection  
Office of Oil and Gas  
RECEIVED  
MAR 14 2023

API 69069 - 00341 County OHIO District TRIADELPHIA  
Quad VALLEY GROVE, WV Pad Name OCC A-OHI-PAD1 Field/Pool Name PANHANDLE FIELD WET  
Farm name BOARD OF COMMISSIONERS OHIO COUNTY Well Number OCC A 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 4,436,645.574 Easting 534,266.080  
Landing Point of Curve Northing 4,436,140.221 Easting 533,954.947  
Bottom Hole Northing 4,440,876.216 Easting 531,854.374

Elevation (ft) 1,095.1' 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 5/16/2022 Date drilling commenced 8/13/2022 Date drilling ceased 8/29/2022  
Date completion activities began 11/7/2022 Date completion activities ceased 12/20/2022  
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

Freshwater depth(s) ft 393' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 586' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 462' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

**APPROVED**

Reviewed by: MGK 3/15/2023  
03/17/2023

API 47-069 - 00341 Farm name BOARD OF COMMISSIONERS OHIO COUNTY Well number OCC A 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	136	NEW	J-55/94#		Y
Surface	17.5	13.375	532	NEW	J-55/54.5#		Y; 33 BBLS
Coal	SEE SURFACE CASING						
Intermediate 1	12.25	9.625	1,880	NEW	J-55/36#		Y; 43 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	24,465	NEW	P-110 HP/20#		N
Tubing		2.875	7,635	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 <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	582	15.60	1.19	692.58	SURFACE	8
Coal							
Intermediate 1	CLASS A	737	15.60	1.19	877.03	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4,703	14.50	1.29	6,066.87	1,216'	24
Tubing							

Drillers TD (ft) 24,465' Loggers TD (ft) 24,465'  
 Deepest formation penetrated MARCELLUS Plug back to (ft) 24,371'  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) 5,761' MD \_\_\_\_\_

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: 8 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 INTERMEDIATE: 26 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 PRODUCTION: 555 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 \_\_\_\_\_



API 47- 069 - 00341

Farm name BOARD OF COMMISSIONERS OHIO COUNTY Well number OCC A OHI 201H

PRODUCING FORMATION(S)	DEPTHS		
MARCELLUS	6,184'	TVD	7,090' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2,899 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas 10,697 mcfpd Oil 1,192 bpd NGL \_\_\_\_\_ bpd Water 1,730 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	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 SCHLUMBERGER WELL SERVICES  
Address 110 SCHLUMBERGER DRIVE City SUGAR LAND State TX Zip 77380

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

Please insert additional pages as applicable.

Completed by DENISE GRANTHAM Telephone 832-796-6139  
Signature Denise Grantham Title REGULATORY SPECIALIST Date 3.13.2023

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

03/17/2023



Well Name: OCC A OHI 201H

47069003410000

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	393.00	393.00	
Top of Salt Water	586.00	586.00	NA	NA	
Pittsburgh Coal	462.00	462.00	466.00	466.00	
Pottsville (ss)	608.00	608.00	651.00	651.00	
Raven Cliff (ss)	831.00	829.00	1131.00	1129.00	
Big Injun (ss)	1541.00	1535.00	2195.00	2195.00	
Berea (siltstone)	2195.00	2195.00	2218.00	2181.00	
Rhinestreet (shale)	6213.00	5616.00	6444.00	5813.00	
Cashaqua (shale)	6566.00	5907.00	6627.00	5954.00	
Middlesex (shale)	6627.00	5954.00	5741.00	6027.00	
Burket (shale)	5741.00	6027.00	6772.00	6045.00	
Tully (ls)	6772.00	6045.00	6839.00	6083.00	
Mahantango (shale)	6839.00	6083.00	7090.00	6184.00	
Marcellus (shale)	7090.00	6184.00	NA	NA	GAS

**OCC A OHI 201H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	10/13/2022	24,371	24,273	36
2	11/8/2022	24,239	24,060	36
3	11/9/2022	24,026	23,847	36
4	11/9/2022	23,813	23,634	36
5	11/10/2022	23,600	23,421	36
6	11/10/2022	23,387	23,208	36
7	11/11/2022	23,174	22,995	36
8	11/11/2022	22,961	22,782	36
9	11/12/2022	22,748	22,569	36
10	11/12/2022	22,535	22,356	36
11	11/12/2022	22,322	22,143	36
12	11/13/2022	22,109	21,930	36
13	11/14/2022	21,896	21,717	36
14	11/14/2022	21,683	21,504	36
15	11/15/2022	21,470	21,291	36
16	11/15/2022	21,257	21,078	72
17	11/18/2022	21,044	20,865	36
18	11/18/2022	20,831	20,652	36
19	11/19/2022	20,618	20,439	36
20	11/19/2022	20,405	20,226	36
21	11/20/2022	20,192	20,013	36
22	11/20/2022	19,980	19,800	36
23	11/21/2022	19,767	19,587	36
24	11/21/2022	19,554	19,374	36
25	11/22/2022	19,341	19,161	36
26	11/22/2022	19,128	18,948	36
27	11/22/2022	18,915	18,735	36
28	11/23/2022	18,702	18,522	36
29	11/23/2022	18,489	18,309	36
30	11/24/2022	18,276	18,096	36
31	11/24/2022	18,063	17,883	36
32	11/25/2022	17,850	17,670	36
33	11/25/2022	17,637	17,457	36
34	11/25/2022	17,424	17,244	36
35	11/26/2022	17,211	17,031	36
36	11/26/2022	16,998	16,818	36
37	11/27/2022	16,785	16,605	36
38	11/27/2022	16,572	16,392	36
39	11/27/2022	16,359	16,179	36
40	11/28/2022	16,146	15,966	36
41	11/28/2022	15,933	15,753	36
42	11/29/2022	15,720	15,541	36
43	11/29/2022	15,507	15,328	36

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PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
44	11/30/2022	15,294	15,115	36
45	11/30/2022	15,081	14,902	36
46	11/30/2022	14,868	14,689	36
47	12/1/2022	14,655	14,476	36
48	12/1/2022	14,442	14,263	36
49	12/1/2022	14,229	14,050	36
50	12/2/2022	14,016	13,837	36
51	12/2/2022	13,803	13,624	36
52	12/3/2022	13,590	13,411	36
53	12/3/2022	13,377	13,198	36
54	12/4/2022	13,164	12,985	36
55	12/4/2022	12,951	12,772	36
56	12/5/2022	12,738	12,559	36
57	12/5/2022	12,525	12,346	36
58	12/6/2022	12,312	12,133	36
59	12/6/2022	12,099	11,920	36
60	12/6/2022	11,886	11,707	36
61	12/7/2022	11,673	11,494	36
62	12/7/2022	11,461	11,281	36
63	12/7/2022	11,248	11,068	36
64	12/8/2022	11,035	10,855	36
65	12/8/2022	10,822	10,642	36
66	12/9/2022	10,609	10,429	36
67	12/9/2022	10,396	10,216	36
68	12/9/2022	10,183	10,003	36
69	12/10/2022	9,970	9,790	36
70	12/10/2022	9,757	9,577	36
71	12/10/2022	9,544	9,364	36
72	12/11/2022	9,331	9,151	36
73	12/11/2022	9,118	8,938	36
74	12/12/2022	8,905	8,725	36
75	12/12/2022	8,692	8,512	36
76	12/12/2022	8,479	8,299	36
77	12/12/2022	8,266	8,086	36
78	12/12/2022	8,053	7,873	36
79	12/13/2022	7,840	7,660	36
80	12/13/2022	7,627	7,447	36
81	12/13/2022	7,414	7,234	36

OCC A OHI 201H  
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	11/8/2022	79.3	8,905	8,907	4,131	199,980	6,310	0
2	11/9/2022	87.6	8,788	5,679	4,864	370,800	9,455	0
3	11/9/2022	88.4	8,929	4,365	4,528	368,840	9,710	0
4	11/10/2022	83.3	8,691	4,902	4,351	366,140	11,579	0
5	11/10/2022	89.1	9,388	5,853	4,875	364,200	9,357	0
6	11/11/2022	88.5	9,126	5,586	4,687	365,300	9,210	0
7	11/11/2022	85.1	9,249	6,085	4,510	367,860	8,971	0
8	11/11/2022	97.7	9,928	6,032	4,585	356,400	10,339	0
9	11/12/2022	94.1	9,596	6,102	4,120	366,260	9,391	0
10	11/12/2022	92.9	9,777	6,219	4,413	368,300	8,618	0
11	11/12/2022	93.3	9,384	6,119	4,658	368,300	9,407	0
12	11/13/2022	96.1	9,799	5,779	4,658	366,660	9,485	0
13	11/14/2022	91.6	10,110	6,159	4,585	368,720	8,814	0
14	11/14/2022	93.2	9,746	6,007	4,658	372,420	8,768	0
15	11/15/2022	96.2	9,426	5,225	4,852	365,700	8,441	0
16	11/15/2022	85.2	9,733	5,825	4,895	367,440	22,420	0
17	11/18/2022	89.3	9,730	5,979	4,230	367,200	8,830	0
18	11/18/2022	96.7	9,591	6,025	4,852	342,560	9,250	0
19	11/19/2022	92.2	9,260	6,001	4,630	367,060	12,566	0
20	11/20/2022	95.1	9,340	5,806	4,869	368,060	8,655	0
21	11/20/2022	87.6	9,259	5,134	4,450	364,660	8,210	0
22	11/21/2022	97.1	9,454	5,800	4,585	368,040	8,560	0
23	11/21/2022	92.6	9,103	6,118	4,350	368,380	8,336	0
24	11/21/2022	97.9	9,249	5,884	4,785	367,700	8,185	0
25	11/22/2022	89.8	9,379	5,783	4,450	368,320	8,311	0
26	11/22/2022	91.8	9,496	5,560	4,658	353,620	8,000	0
27	11/22/2022	97.9	9,338	6,173	4,985	369,400	8,399	0
28	11/23/2022	92.2	9,097	6,389	4,756	367,640	8,360	0
29	11/23/2022	87.2	8,571	5,264	5,175	368,080	8,246	0
30	11/24/2022	98.7	9,154	6,179	4,852	363,260	8,248	0
31	11/24/2022	93.6	9,210	6,289	4,354	350,060	7,903	0
32	11/25/2022	90.3	8,264	6,163	4,853	368,720	8,257	0
33	11/25/2022	94.2	8,949	6,381	4,627	359,160	8,058	0
34	11/26/2022	91.4	8,951	5,809	4,662	366,020	8,437	0
35	11/26/2022	95.5	8,211	5,536	4,333	364,900	8,272	0
36	11/27/2022	94.4	9,051	6,095	4,777	366,000	8,156	0
37	11/27/2022	99.2	8,834	5,862	4,732	365,740	8,117	0
38	11/27/2022	93.5	8,448	6,009	4,805	365,760	8,001	0
39	11/28/2022	100.1	8,608	6,172	4,612	363,600	8,123	0
40	11/28/2022	99.3	8,562	6,059	4,521	367,180	8,064	0
41	11/28/2022	94.3	8,721	5,951	4,242	365,880	8,159	0
42	11/29/2022	99.2	8,638	6,623	4,562	363,540	8,527	0
43	11/29/2022	96.9	8,168	5,917	4,165	367,940	8,320	0
44	11/30/2022	94.6	7,924	6,008	4,426	369,480	8,222	0
45	11/30/2022	95.7	8,468	5,790	4,671	366,960	7,977	0
46	12/1/2022	95.2	8,322	5,510	4,216	366,100	7,921	0
47	12/1/2022	90	7,534	5,992	4,405	368,080	8,081	0
48	12/1/2022	95.2	8,187	6,038	4,850	364,020	8,095	0
49	12/2/2022	95.7	7,876	5,295	4,876	368,640	7,929	0
50	12/2/2022	95.9	7,878	5,814	4,385	366,300	8,226	0
51	12/3/2022	96	8,032	6,099	5,331	367,580	7,959	0
52	12/3/2022	99.5	8,084	6,452	4,852	373,600	7,933	0
53	12/4/2022	97.3	8,189	6,237	4,792	366,960	7,696	0

03/17/2023



OCC A OHI 201H  
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	12/4/2022	96.2	8,149	6,089	4,445	365,240	7,745	0
55	12/5/2022	96.7	8,206	5,902	4,561	368,720	7,806	0
56	12/5/2022	99.2	8,082	6,324	4,623	372,940	7,799	0
57	12/5/2022	94.6	8,106	5,820	4,855	332,760	7,260	0
58	12/6/2022	98.9	7,730	6,355	4,962	367,600	7,856	0
59	12/6/2022	99.2	7,839	6,328	4,753	367,380	7,665	0
60	12/7/2022	94.7	7,647	6,321	4,636	365,640	7,710	0
61	12/7/2022	94.9	7,777	3,100	4,600	367,480	7,775	0
62	12/7/2022	95.8	7,833	5,706	4,895	368,220	7,827	0
63	12/8/2022	95.2	7,840	5,616	4,876	368,260	7,759	0
64	12/8/2022	97.6	7,577	3,140	4,200	366,300	7,821	0
65	12/8/2022	95.1	7,825	6,413	4,453	368,220	7,773	0
66	12/9/2022	94.6	7,698	6,404	4,500	367,960	7,528	0
67	12/9/2022	97.9	7,673	4,500	4,630	367,960	7,929	0
68	12/9/2022	96.4	7,755	5,913	4,453	355,800	7,412	0
69	12/10/2022	96.4	7,574	6,308	5,020	367,800	7,624	0
70	12/10/2022	97.9	7,213	4,320	4,620	368,200	7,744	0
71	12/10/2022	97.8	7,473	5,862	4,520	365,600	7,833	0
72	12/11/2022	98.3	7,285	5,420	4,650	368,480	7,507	0
73	12/11/2022	96.4	7,072	6,234	4,550	367,800	7,696	0
74	12/12/2022	95.3	7,087	6,113	4,410	368,140	7,634	0
75	12/12/2022	97.9	7,048	5,302	5,120	366,540	7,750	0
76	12/12/2022	98	7,163	4,520	4,852	368,020	7,777	0
77	12/12/2022	95.9	7,021	5,710	4,685	363,640	7,591	0
78	12/13/2022	96.1	6,963	6,081	4,590	368,000	7,653	0
79	12/13/2022	97.9	6,905	4,210	4,620	367,870	7,619	0
80	12/13/2022	98	6,928	4,623	4,531	367,320	7,625	0
81	12/13/2022	97.8	6,937	5,420	4,420	368,360	7,533	0

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	11/8/2022
Job End Date:	12/13/2022
State:	West Virginia
County:	Ohio
API Number:	47-069-00341-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	OCC A OHI 201
Latitude:	40.07938463
Longitude:	-80.59810319
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,120
Total Base Water Volume (gal):	28,654,080
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
Base Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	88.69923	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	45.00000	0.28167	

			Water	7732-18-5	85.00000	0.28167	
			Water	7732-18-5	100.00000	0.28167	
Sand	SWN Well Services	Proppant					
				Listed Below			
HCL	SWN Well Services	Solvent					
				Listed Below			
Tolicide 4Frac	SWN Well Services	Biocide					
				Listed Below			
PLEXSLICK 930	SWN Well Services	Friction Reducer					
				Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
Plexaid 655WG	SWN Well Services	Scale Inhibitor					
				Listed Below			
Ferriplex 80	SWN Well Services	Iron Control					
				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	10.93012	
			Hydrochloric Acid	7647-01-0	15.00000	0.03913	

			Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8	45.00000	0.00451	
			Sodium Erythorbate	6381-77-7	100.00000	0.00140	
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00075	
			Ethanol	64-17-5	2.50000	0.00025	
			Ethylene glycol	107-21-1	40.00000	0.00016	
			Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	10.00000	0.00004	
			Cinnamaldehyde	104-55-2	10.00000	0.00004	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00004	
			1-Decanol	112-30-1	5.00000	0.00002	
			Triethyl phosphate	78-40-0	5.00000	0.00002	
			1-Octanol	111-87-5	5.00000	0.00002	
			Isopropyl alcohol	67-63-0	5.00000	0.00002	
			benzyl chloridequaternized	72480-70-7	5.00000	0.00002	
			2-Butoxyethanol	111-76-2	5.00000	0.00002	

\* 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)

Latitude: 40°05'00"

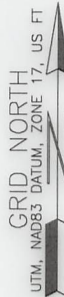
SURFACE HOLE 4134'

Latitude: 40°07'30"

BOTTOM HOLE 330'

JACKSON SURVEYING INC.

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851



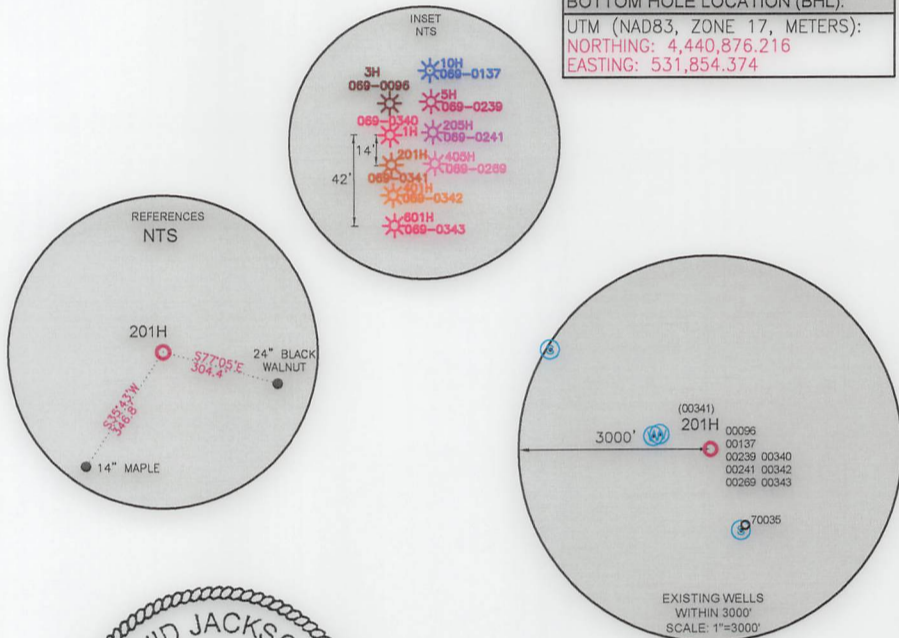
Longitude: 80°37'30" BOTTOM HOLE 2,698' SURFACE HOLE 1,439'

Table with 6 columns: SURFACE HOLE LOCATION (SHL), LANDING POINT LOCATION (LPL), AZIMUTH POINT LOCATION-1 (AZL1) through AZL6, and BOTTOM HOLE LOCATION (BHL). Each entry includes UTM coordinates (NORTHING, EASTING).

Table with 2 columns: SURFACE HOLE LOCATION (SHL) and AZIMUTH POINT LOCATION (AZL1-AZL6). Each entry includes UTM coordinates (NORTHING, EASTING).

Table with 5 columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT. Lists survey lines L1 through L8 with bearings, distances, and descriptions of landmarks and monuments.

Table with 5 columns: LINE, BEARING, DISTANCE, CURVE LENGTH, DESCRIPTION. Lists survey lines L3 through L8 with bearings, distances, curve lengths, and descriptions.



WELL RESTRICTIONS

- 1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

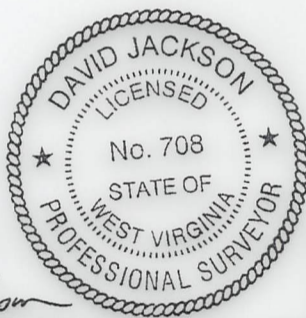
NOTES ON SURVEY

- 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.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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. 708

David L Jackson



COMPANY: SWN Production Company, LLC SWN Production Company™

Table with 3 columns: State of West Virginia logo and address (WVDEP, 601 57TH STREET, CHARLESTON, WV 25034), Accuracy (1/200), and Well Information (Operator's Well #: 201H, API Well #: 47, 069, 00341).

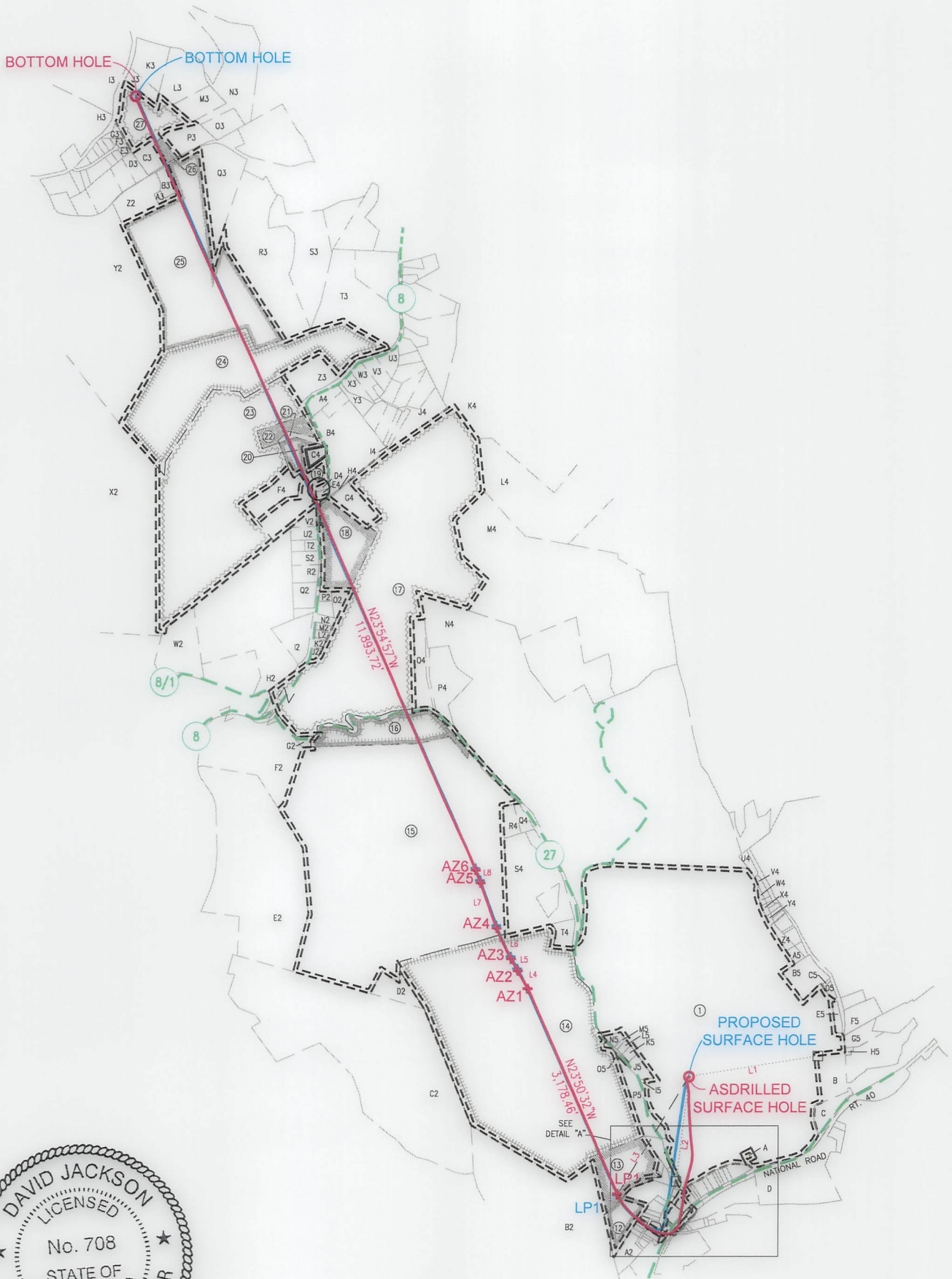
Well Type: OIL, WASTE DISPOSAL, PRODUCTION, DEEP, GAS, LIQUID INJECTION, STORAGE, SHALLOW. Watershed: RONEY POINT RUN OF LITTLE WHEELING CREEK OF WHEELING CREEK (HUC-10). District: TRIADELPHIA, County: OHIO. Surface Owner: BOARD OF COMMISSIONERS OHIO COUNTY. Oil & Gas Royalty Owner: BOARD OF COMMISSIONERS OHIO COUNTY. Drill, Convert, Target Formation: MARCELLUS. Estimated Depth: 5,969' TVD 24,465' TMD.

Well Operator: SWN PRODUCTION COMPANY, LLC. Designated Agent: BRITTANY WOODY. Address: 1300 FORT PIERPONT ROAD, SUITE 200, MORGANTOWN, WV 26508.

Legend: PROPOSED SURFACE HOLE / BOTTOM HOLE, EXISTING / PRODUCING WELLHEAD, LPL, EXISTING WATER WELL, EXISTING SPRING, SURVEYED BOUNDARY, DRILLING UNIT, LEASE BOUNDARY, AS DRILLED PATH, PROPOSED PATH, AZL, AZIMUTH POINT LOCATION. Revisions table and Date: 01-18-2023.

**JACKSON SURVEYING  
INC.**

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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. 708

*David L Jackson*



GRAPHIC SCALE 03/17/2023

REVISIONS:		COMPANY:			
OPERATOR'S		OCC A OHI		DATE: 01-18-2023	
WELL #:		201H		DRAWN BY: N. MANO	
DISTRICT:		COUNTY:		SCALE: N/A	
TRIADELPHIA		OHIO		DRAWING NO:	
				STATE: WV	
				WELL LOCATION PLAT 2	

JACKSON SURVEYING  
INC.

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304-623-5851

DETAIL "A"



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. 708

*David L Jackson*



03/17/2023

REVISIONS:	COMPANY:		
		OPERATOR'S	OCC A OHI
		WELL #:	201H
		DISTRICT:	COUNTY:
		TRIADELPHIA	OHIO
		API #:	DATE:
		47-069-00341	01-18-2023
		STATE:	DRAWN BY:
		WV	N. MANO
			SCALE:
			N/A
			DRAWING NO:
			WELL LOCATION PLAT 3

JACKSON SURVEYING  
 INC.  
 2413 EAST PIKE ST. # 112  
 Clarksburg, WV 26302  
 304-623-5851

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	BOARD OF COMM OHIO CO (S/R)	3-L13-3
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	MCKENNA JOSEPH A III (S)	6-T3Q-17
3	VALLEY COIN MACHINE COMPANY LLC (S)	6-T3Q-16
4	MARQUART GREGORY F & L A ; MARQUART PHILLIP J & K L (S)	6-T3Q-15
5	WV DEPARTMENT OF HIGHWAYS (S)	RT. 40
6	PHK LLC (S)	6-T8-54
7	KOPYAR JERRY L & CYNTHIA L (S)	6-T8C-7
8	LINDHEIMER KENNETH A - TOD (S)	6-T8C-6
9	COFFIELD RHONDA L (S)	6-T8C-4
10	ANDERSON T VERNON & DILLE B L (S)	6-T8C-3
11	PACK AUSTIN M (S)	6-T8B-7
12	PARSONS JOSEPH L & SALLY (S)	6-T3P-1
13	BEABOUT RUSSELL W (S)	6-T3Q-8
14	MINCH TIMMY B & AMY LYNN (S)	6-T3-5
15	OGLEBAY FOUNDATION PROPS INC ANNA C MAXWELL REV TRUST (S)	3-L13-1
16	MAXWELL JOSEPH E ANNA C MAXWELL REVOCABLE TRUST (S)	3-L13-1.2
17	LUCHETTI ROBERT R SR - TOD (S)	3-L10-23
18	A D BAKER HOMES INC (S)	3-L10-19.4
19	A D BAKER HOMES INC (S)	3-L10-19
20	PORTER MARK E & BARBARA V (S)	4-R15-25.3
21	PORTER MARK E PORTER BARBARA V (S)	4-R15-25.4
22	PORTER SANDRA K - TOD (S)	4-R15-25.5
23	PORTER SANDRA K (S)	4-R15-25
24	GOMPERS EDWARD D AND LINDA M (S)	4-R15-25.1
25	SIXTY FOUR LLC (S)	4-R15-21
26	DUNAWAY MEGAN R & BENJAMIN J (S)	4-R12-47.1
27	WEISS ROBERT L AND PATRICIA J IRREVOCABLE TRUST (S)	4-R12-46

03/17/2023

REVISIONS:	COMPANY:			 	
	OPERATOR'S	OCC A OHI	API #:	DATE: 01-18-2023	
	WELL #:	201H	47-069-00341	DRAWN BY: N. MANO	
	DISTRICT:	COUNTY:	STATE:	SCALE: N/A	
	TRIADELPHIA	OHIO	WV	DRAWING NO:	
				WELL LOCATION PLAT 4	





**JACKSON SURVEYING  
INC.**

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26302  
304-623-5851

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	VILLAGE OF VALLEY GROVE	6-T3Q-27
B	OHIO COUNTY COMMISSION	6-T3-28
C	JDS INVESTMENTS LLC	6-T3-16
D	SAFRED ROBERT JR	6-T3-33
E	SUPERIOR INDUSTRIAL LAUNDRIES INC	6-T3Q-26
F	STEPHAN PAULA C AND ORION E	6-T3Q-25
G	FISHER LOGAN J	6-T3Q-24
H	CLARK ROBERT B & EVELYN M	6-T3Q-23
I	SWAIN MARVIN H & K L	6-T3Q-22
J	PHK LLC	6-T3Q-21
K	HAMMONS TAMMY M	6-T3Q-20
L	MCDANIELS EDDIE L MCDANIELS TRACY L	6-T3Q-19
M	P-3 EQUITIES LLC	6-T3Q-18.1
N	FLACK HOLLY M	6-T3Q-18
O	SAYRE ANN & RANEE DAWN SAYRE	6-T3Q-17.1
P	DUFFY CHARLES E	6-00T3-36
Q	SHUMAN BERYL F & O L; C/O SHUMAN DOUGLAS	6-00T3-19
R	ROBINSON RICK W & C B	6-0T8C-8
S	EMERY CHARLES E JR; JILL L	6-00T8-17
T	LINDHEIMER KENNETH	6-00T8-54.1
U	C & P TELEPHONE OF WV	6-0T8C-1.1
V	LOKMER STEPHANIE ANN	6-0T8C-1
W	ANDERSON T VERNON & DILLIE B L	6-T8C-2
X	LANGMYER KEVA FAWN	6-T8B-6
Y	HALEY ROBERT M & MICHELLE L HALEY	6-T8B-4.1
Z	NASH JOHN R JR & PAMELA L	6-T8B-4
A2	PARSONS JOSEPH L & SALLY	6-T8B-1
B2	CROW RAYMOND E	6-T8-7
C2	SCOTT PAUL R & JOYCE A	6-T3-3
D2	HATCHER EDWARD A	3-L13-1.5
E2	MILLER FAMILY TRUST	4-R18-11
F2	LUCHETTI ROBERT R JR & TERESA	4-R18-29
G2	OGLEBAY FOUNDATION PROPS INC MAXWELL ANNA C REV TRUST	3-L13-1.1
H2	LUCHETTI ROBERT R SR - TOD	4-R15-28
I2	LUCHETTI ROBERT R SR - TOD	4-R15-28.4
J2	MILLER CALVIN F & B J	4-L10-25.1
K2	MILLER WILSON B	4-L10-25
L2	MILLER CALVIN F & BARBARA J	3-L10-25.5
M2	MATTERN KENNETH MARK MATTERN DANA ANN	3-L10-25.4
N2	CAREY WAYNE L	4-L10-25.3
O2	WOOD MATHEW J & MARIA M	3-L10-25.7
P2	BAIER MARK T SR & DARLENA M	3-L10-25.6
Q2	WOOD MATHEW J	4-R15-28.3
R2	ROGERSON RONALD EDWIN	4-R15-28.1
S2	NEUMANN KAREN JENINE	4-R15-28.7
T2	DIBARTOLOMEO ROBERT A	4-R15-33.1
U2	SIMONS WILLIAM JR & THERESA M	4-R15-26.2
V2	A D BAKER HOMES INC	4-R15-26
W2	VESPA JOSEPH L	4-R15-28.2
X2	NICHOLS R E 3/8 INT, B L SNAPP 3/8 INT & M C NICHOLS 1/4 INT	4-R15-16
Y2	YOUNG TRAVIS & MICHELLE E	4-R15-19
Z2	DICKINSON JAMES F; ET AL	4-R15-23
A3	DICKINSON DANIEL W JR	4-R15-21.2
B3	DICKINSON DANIEL W JR & G K	4-R15-21.1
C3	MCCULLEY BRIAN G	4-R12-47.2
D3	SHACKELFORD HOWARD L & B M	4-R15-20.5
E3	WINKLER JONATHAN JOEL	4-R12-10.8
F3	WINKLER JONATHAN JOEL & JENNA NICOLE LINTON	4-R12-10
G3	FRANKLIN WOODS ESTATES HOMEOWNERS ASSC INC	4-R12-10.11
H3	MULL W QUAY II TRUST	4-R12-10.14
I3	MULL W QUAY II TRUST	4-R12-12
J3	LASURE BENJAMIN & SHANDA	4-R12-46.1
K3	LASURE BENJAMIN & SHANDA	4-R12-45.12
L3	TARR CHRISTOPHER & CHRISTINE	4-R12-45.14
M3	WEISENBORN KERRIE C/O FOX STEPHEN R	4-R12-45.15
N3	TARR JOHN A IV	4-R12-45
O3	FLANAGAN JILL E & JOSEPH V JR	4-R12-45.4
P3	FLANAGAN JILL E & JOSEPH V JR	4-R12-47

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
Q3	WITSBERGER AMY LISBETH	4-R15-22
R3	TEMPLETON JOHN J DR & LISA J CO-TRUSTEES	4-R15-23.3
S3	REGAN CHRISTOPHER J & HILARY E	4-R15-23.4
T3	KOWCHECK DRAKE M & CAITLIN	4-R15-25.6
U3	HARRIS RICHARD D & PATRICIA	3-L10-17.2
V3	VAN DUSEN JOHN M II & VAN DUSEN AMANDA RAE	3-L10-17.1
W3	DERROW STEPHEN J	3-L10-17.4
X3	HERCULES EUGENE & CARMELINDA S	3-L10-18
Y3	HUFFNER EARL P	3-L10-17.12
Z3	MARRINER ROBYN LEE	3-L10-51
A4	WHITE KRISTIAN E & NICOLE R	3-L10-19.1
B4	WHITE KRISTIAN E & NICOLE R	3-L10-19.3
C4	HAMMERQUIST KAREN L	3-L10-52
D4	KOCH MARY C	4-L10-21
E4	KOCH MARY C	4-L10-22
F4	SMITH PRESTON T & SARAH J	3-L10-19.6
G4	LUCHETTI ROBERT R JR & TERESA	3-L10-19.5
H4	WHITE KRISTIAN E & NICOLE R	3-L10-23.2
I4	MACNEALY JON A & MACNEALY KAREN L	3-L10-17.13
J4	PALMER LOUIS III	3-L10-17.16
K4	WALTERS GLEN L & R S	3-L10-28
L4	BYRUM CAROLYN LOUSTAU	3-L10-27.3
M4	ABRAHAM THOMAS R & S O	3-L10-26
N4	BOARD OF COMM OHIO CO	3-L13-3.1
O4	WEIR ROBERT AND BRIDGET	3-L10-23.1
P4	OHIO COUNTY COMMISSION	3-L10-23.3
Q4	BENNETT JEFFREY R	3-L13-2.2
R4	WALTON LISA	3-L13-2.3
S4	MINCH TIMMY B & AMY LYNN	3-L13-2
T4	SHELLER CARL J	3-L13-24
U4	STEVENSON KIMBERLY; STEVENSON JAMES; DELGADO BRENDA STEVENSON	3-L13-6.1
V4	LOVERIDGE TYSON L & VANESSA	3-L13-6
W4	LOVERIDGE TYSON L & VANESSA	3-L13-6.4
X4	WHEELER JAMES E III WHEELER CHRISTINE	3-L13-8.2
Y4	WHEELER JAMES E JR & B J	3-L13-9
Z4	WHEELER JOLLY W SR & SARAH JANE (LE); ET AL	3-L13-12.3
A5	SHEARER STEVEN P	3-L13-12.1
B5	KNIGHT JAMES C & D L	3-L13-13
C5	DEMERSKI GARY L & MARY C	3-L13-14
D5	BARON KEITH E & C J	3-L13-15
E5	HOLMAN HARRY E & CHERYL L	6-T3-11
F5	HOLMAN CHERYL L & H E	6-T3-13
G5	MOORE GERALD T & A M	6-T3-14
H5	MOORE GERALD T & A M	6-T3-14.1
I5	HANNING RANDY DALE & BRENDA JOYCE	6-T3-5.1
J5	BOARD OF COMMISSIONERS	6-T3-10
K5	SHORES BARBARA A	6-T3-9
L5	HUGHES JAMES R & DARLA J	6-T3-8
M5	KETRON TRACY E & JOHN P	6-T3-7
N5	DERR ALFRED	6-T3-6
O5	KETRON TRACY E & JOHN P	6-T3-7.1
P5	HANNING RANDY & BRENDA	6-T3-5.2
Q5	HUNTER JOHN A & C M	6-T3Q-11
R5	BEHRENS WM D	6-T3Q-9
S5	MULLOOLY JAMES F	6-T3Q-7.1
T5	FISCHER PAMELA	6-T3Q-6
U5	HOWARD DANIEL K; HOWARD E J HOWARD D; HOWARD A J	6-T3Q-4.1
V5	VELAS JEREMY L & CARRIE L	6-T3Q-3
W5	YAHN MARY E & RAYMOND C	6-T3Q-2
X5	PACK AUSTIN M	6-T3Q-2.1
Y5	PRICE JOSEPH S JR & K M	6-T8C-5
Z5	FISCHER DONALD R JR	6-T3Q-7.2
A6	BOARD OF COMM OHIO CO	6-T3Q-13
B6	NELSON KENNETH L	6-T3Q-10
C6	HUNTER JOHN A & C M	6-T3Q-11.1
D6	HUNTER JOHN A & C M	6-T3Q-12

03/17/2023

REVISIONS:	COMPANY:	 	
	OPERATOR'S	OCC A OHI	API #:
	WELL #:	201H	47-069-00341
	DISTRICT:	COUNTY:	STATE:
	TRIADELPHIA	OHIO	WV
			DATE: 01-18-2023
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 5