

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

API 47-069-00330 County OHIO District LIBERTY
Quad VALLEY GROVE, WV Pad Name CARL ROTTER-OHI-PAD1 Field/Pool Name PANHANDLE FIELD WET
Farm name CARL J. & GRACE A. ROTTER Well Number CARL ROTTER OHI 8H
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 4,439,126.02 Easting 538,993.11
Landing Point of Curve Northing 4,439,031.08 Easting 538,954.73
Bottom Hole Northing 4,433,941.47 Easting 540,997.88

Elevation (ft) 1336.7' 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 12/9/2020 Date drilling commenced 3/29/2022 Date drilling ceased 4/13/2022
Date completion activities began 6/15/2022 Date completion activities ceased 7/23/2022
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 587' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 834' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 725' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED
Reviewed by: [Signature]
10/21/2022

API 47-069 - 00330 Farm name CARL J. & GRACE A. ROTTER Well number CARL ROTTER OHI 8H

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	767	NEW	J-55/54.5#		Y; 52 BBLS
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	2,211	NEW	K-55/36#		Y; 33 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	24,997	NEW	P-110/20#		N
Tubing		2.875	6,968	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	731	15.60	1.20	877.20	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	769	15.60	1.19	915.11	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4,497	15.00	1.29	5,801.13	4,096'	24
Tubing							

Drillers TD (ft) 24,997 Loggers TD (ft) 24,997
 Deepest formation penetrated MARCELLUS Plug back to (ft) 24,904'
 Plug back procedure N/A

Kick off depth (ft) 5,740'

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: 11 CENTRALIZERS - EVERY THIRD JOINT OF CASING

INTERMEDIATE: 30 CENTRALIZERS - EVERY THIRD JOINT OF CASING

PRODUCTION: 498 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 - 00330 Farm name CARL J. & GRACE A. ROTTER Well number CARL ROTTER OHI 8H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMENT	1		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	SEE	ATTACHMENT	2					

Please insert additional pages as applicable.

API 47- 069 - 00330 Farm name CARL J. & GRACE A. ROTTER Well number CARL ROTTER OHI 8H

PRODUCING FORMATION(S)	DEPTHS	
MARCELLUS	6,547	TVD 6,750 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2,529 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 11,549 mcfpd Oil 1,328 bpd NGL _____ bpd Water 1,387 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 BAKER HUGHES
Address 9110 GROGANS MILL RD City THE WOODLANDS State TX Zip 77380

Cementing Company SCHLUMBERGER WELL SERVICES
Address 110 SCHLUMBERGER DRIVE City SUGAR LAND State TX Zip 77478

Stimulating Company 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 ANALYST Date 8.29.2022

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

10/21/2022



Well Name: Carl Rotter OHI 8H

47069003300000

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	587.00	587.00	
Top of Salt Water	834.00	834.00	NA	NA	
Pittsburgh Coal	725.00	725.00	730.00	730.00	
Pottsville (ss)	835.00	835.00	987.00	987.00	
Raven Cliff (ss)	1218.00	1218.00	1471.00	1471.00	
Maxton (ss)	1640.00	1638.00	1889.00	1885.00	
Big Injun (ss)	1889.00	1885.00	2378.00	2370.00	
Berea (siltstone)	2378.00	2370.00	2471.00	2463.00	
Rhinestreet (shale)	5962.00	5936.00	6273.00	6226.00	
Cashaqua (shale)	6273.00	6226.00	6359.00	6299.00	
Middlesex (shale)	6359.00	6299.00	6465.00	6381.00	
Burket (shale)	6465.00	6381.00	6492.00	6401.00	
Tully (ls)	6492.00	6401.00	6542.00	6436.00	
Mahantango (shale)	6542.00	6436.00	6750.00	6547.00	
Marcellus (shale)	6750.00	6547.00	NA	NA	GAS

**CARL ROTTER OHI 8H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	5/26/2022	24,904	24,808	36
2	6/15/2022	24,774	24,595	36
3	6/15/2022	24,561	24,382	36
4	6/16/2022	24,349	24,169	36
5	6/16/2022	24,136	23,957	36
6	6/17/2022	23,923	23,744	36
7	6/17/2022	23,710	23,531	36
8	6/18/2022	23,498	23,318	36
9	6/18/2022	23,285	23,106	36
10	6/18/2022	23,072	22,893	36
11	6/18/2022	22,859	22,680	36
12	6/19/2022	22,647	22,467	36
13	6/19/2022	22,434	22,255	36
14	6/19/2022	22,221	22,042	72
15	6/21/2022	22,008	21,829	36
16	6/21/2022	21,796	21,616	36
17	6/22/2022	21,583	21,404	36
18	6/22/2022	21,370	21,191	36
19	6/22/2022	21,157	20,978	36
20	6/23/2022	20,945	20,765	36
21	6/23/2022	20,732	20,553	36
22	6/23/2022	20,519	20,340	36
23	6/24/2022	20,307	20,127	36
24	6/24/2022	20,094	19,914	36
25	6/24/2022	19,881	19,702	36
26	6/24/2022	19,668	19,489	36
27	6/25/2022	19,456	19,276	36
28	6/25/2022	19,243	19,064	36
29	6/25/2022	19,030	18,851	36
30	6/25/2022	18,817	18,638	36
31	6/26/2022	18,605	18,425	36
32	6/27/2022	18,392	18,213	36
33	6/27/2022	18,179	18,000	36
34	6/27/2022	17,966	17,787	36
35	6/27/2022	17,754	17,574	36
36	6/28/2022	17,541	17,362	36
37	6/28/2022	17,328	17,149	36
38	6/28/2022	17,115	16,936	36
39	6/29/2022	16,903	16,723	36
40	6/29/2022	16,690	16,511	36
41	6/29/2022	16,477	16,298	36
42	6/29/2022	16,264	16,085	36
43	6/30/2022	16,052	15,872	36

**CARL ROTTER OHI 8H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
44	6/30/2022	15,839	15,660	36
45	6/30/2022	15,626	15,447	36
46	6/30/2022	15,414	15,234	36
47	7/1/2022	15,201	15,022	36
48	7/2/2022	14,988	14,809	36
49	7/2/2022	14,775	14,596	36
50	7/2/2022	14,563	14,383	36
51	7/2/2022	14,350	14,171	36
52	7/3/2022	14,137	13,958	36
53	7/3/2022	13,924	13,745	36
54	7/3/2022	13,712	13,532	36
55	7/3/2022	13,499	13,320	36
56	7/4/2022	13,286	13,107	36
57	7/4/2022	13,073	12,894	36
58	7/4/2022	12,861	12,681	36
59	7/4/2022	12,648	12,469	36
60	7/5/2022	12,435	12,256	36
61	7/5/2022	12,222	12,043	36
62	7/5/2022	12,005	11,830	36
63	7/5/2022	11,797	11,618	36
64	7/6/2022	11,584	11,405	36
65	7/6/2022	11,372	11,192	36
66	7/6/2022	11,159	10,979	36
67	7/6/2022	10,946	10,767	36
68	7/7/2022	10,733	10,554	36
69	7/7/2022	10,521	10,341	36
70	7/7/2022	10,308	10,129	36
71	7/7/2022	10,095	9,916	36
72	7/7/2022	9,882	9,703	36
73	7/8/2022	9,670	9,490	36
74	7/8/2022	9,457	9,278	36
75	7/8/2022	9,244	9,065	36
76	7/8/2022	9,031	8,852	36
77	7/8/2022	8,819	8,639	36
78	7/9/2022	8,606	8,427	36
79	7/9/2022	8,393	8,214	36
80	7/9/2022	8,180	8,001	36
81	7/9/2022	7,968	7,788	36
82	7/9/2022	7,755	7,576	36
83	7/10/2022	7,542	7,363	36
84	7/10/2022	7,329	7,150	36
85	7/10/2022	7,117	6,937	36

CARL ROTTER OHI 8H

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	6/15/2022	71.8	8,644	7,550	3,632	180,510	5,792	0
2	6/15/2022	89.6	9,716	6,453	5,190	356,828	9,642	0
3	6/16/2022	90.2	9,987	6,142	5,326	359,200	9,299	0
4	6/16/2022	90.4	9,507	6,930	5,302	359,020	9,713	0
5	6/17/2022	91.9	10,000	7,007	4,521	352,020	8,964	0
6	6/17/2022	94.1	10,037	8,857	4,562	360,220	8,918	0
7	6/18/2022	92.9	9,637	6,515	4,612	361,930	9,125	0
8	6/18/2022	94	9,795	6,510	4,423	355,710	9,287	0
9	6/18/2022	96.5	10,318	6,672	4,462	354,620	8,774	0
10	6/18/2022	91.9	9,322	6,218	5,428	359,520	8,666	0
11	6/18/2022	94.3	8,894	6,210	5,410	353,700	8,640	0
12	6/19/2022	86.8	9,990	6,685	5,500	359,420	8,630	0
13	6/19/2022	86.9	10,013	6,024	4,702	365,050	8,798	0
14	6/21/2022	85.8	9,290	6,862	4,892	384,570	13,111	0
15	6/21/2022	87.9	9,588	6,401	4,623	361,580	8,727	0
16	6/22/2022	89.8	9,521	6,040	4,342	359,610	8,591	0
17	6/22/2022	89.1	9,219	5,944	4,365	361,020	8,830	0
18	6/22/2022	92.9	9,599	6,206	4,830	353,830	8,430	0
19	6/23/2022	94.7	9,840	6,270	5,120	358,126	8,868	0
20	6/23/2022	91.8	9,529	5,897	4,387	359,480	8,026	0
21	6/23/2022	96	9,713	5,978	4,945	361,070	8,006	0
22	6/23/2022	90.3	9,300	6,529	4,720	362,100	8,675	0
23	6/24/2022	91.3	9,299	6,614	4,357	358,790	7,847	0
24	6/24/2022	94.1	9,581	6,332	4,289	358,100	7,880	0
25	6/24/2022	97.8	9,950	6,306	5,174	358,500	8,281	0
26	6/25/2022	96	9,967	6,650	4,535	359,740	8,070	0
27	6/25/2022	97.6	9,499	6,239	4,579	355,440	7,929	0
28	6/25/2022	96.2	9,507	6,328	4,430	354,560	8,131	0
29	6/25/2022	89.8	8,669	6,302	4,655	358,440	7,689	0
30	6/26/2022	87.9	9,646	7,019	4,378	300,710	6,897	0
31	6/26/2022	72.7	7,822	6,621	4,854	354,540	8,813	0
32	6/27/2022	91.3	9,297	6,444	4,609	359,640	7,861	0
33	6/27/2022	94.7	9,565	6,719	4,523	358,840	7,618	0
34	6/27/2022	97.8	9,475	6,526	5,375	353,410	7,508	0
35	6/27/2022	96.1	9,642	6,116	4,840	358,020	7,634	0
36	6/28/2022	97.5	9,268	6,221	4,902	289,660	6,817	0
37	6/28/2022	92.2	9,314	6,514	4,986	361,880	8,130	0
38	6/28/2022	95	9,176	6,926	5,130	363,680	7,915	0
39	6/29/2022	93.6	8,898	6,521	4,767	363,140	7,994	0
40	6/29/2022	96.4	9,207	6,811	4,597	360,640	7,493	0
41	6/29/2022	97.8	9,102	6,734	5,220	359,940	7,845	0
42	6/30/2022	95.3	9,040	6,707	4,775	361,680	7,088	0
43	6/30/2022	97.7	8,877	6,264	4,679	357,160	7,516	0
44	6/30/2022	98.6	8,984	5,764	4,678	360,260	7,504	0
45	6/30/2022	96.7	9,095	6,239	4,860	366,720	7,941	0
46	7/1/2022	95.5	9,154	6,930	4,673	360,350	7,876	0
47	7/1/2022	95.5	9,027	6,390	5,237	355,700	7,669	0
48	7/2/2022	97.7	8,637	6,544	4,579	357,480	7,637	0
49	7/2/2022	98.5	8,792	6,973	4,767	357,740	7,207	0
50	7/2/2022	94.7	8,718	6,836	5,063	358,590	7,129	0
51	7/2/2022	98.9	8,803	7,070	5,305	373,470	7,748	0
52	7/3/2022	98.9	8,717	7,006	5,288	357,270	7,712	0
53	7/3/2022	97.8	8,631	7,080	4,738	356,810	7,320	0

CARL ROTTER OHI 8H

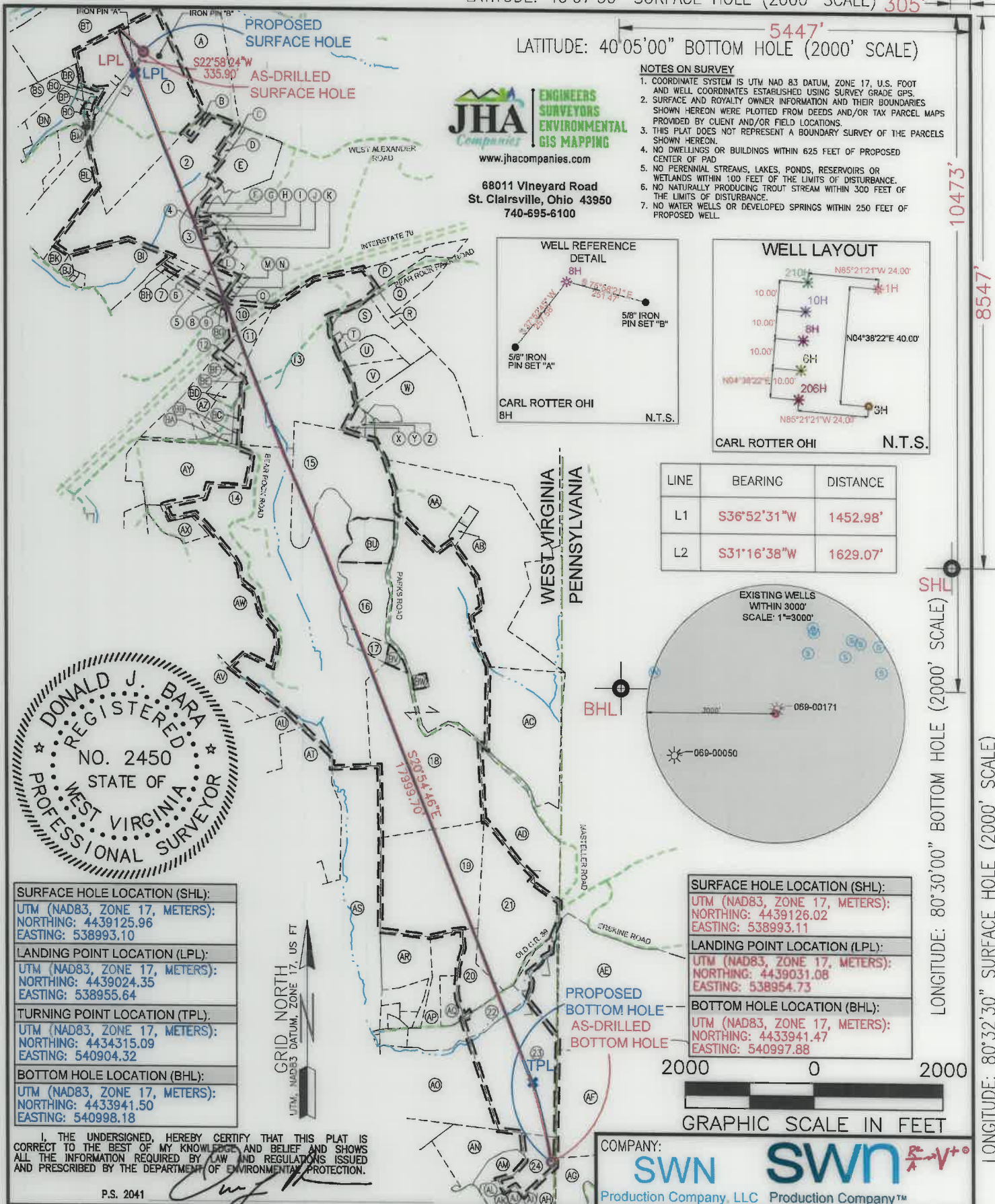
ATTACHMENT 2

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	7/3/2022	92.2	8,393	6,799	5,422	358,020	7,351	0
55	7/3/2022	92.8	8,519	6,976	5,102	359,410	7,447	0
56	7/4/2022	93.8	8,484	5,721	5,567	356,510	7,292	0
57	7/4/2022	98.4	8,303	6,822	4,767	361,460	7,318	0
58	7/4/2022	98.2	8,336	6,804	4,657	359,040	7,087	0
59	7/4/2022	93.9	8,458	6,785	4,710	360,220	7,237	0
60	7/5/2022	94	8,269	6,430	5,330	357,100	7,215	0
61	7/5/2022	99	8,476	6,885	4,762	359,990	7,136	0
62	7/5/2022	94.7	8,649	5,777	5,355	266,780	6,284	0
63	7/6/2022	98.4	8,105	6,618	5,120	358,790	7,178	0
64	7/6/2022	99.7	7,864	5,441	5,154	357,340	7,171	0
65	7/6/2022	100	8,358	6,985	5,063	364,040	7,134	0
66	7/6/2022	99	7,561	6,547	4,765	360,570	7,292	0
67	7/6/2022	99.5	7,518	6,417	4,879	359,560	7,245	0
68	7/7/2022	100.6	7,597	6,702	5,816	353,550	7,060	0
69	7/7/2022	100.3	7,697	6,325	5,346	351,720	7,016	0
70	7/7/2022	100	7,516	6,371	4,857	360,780	7,119	0
71	7/7/2022	99.8	7,475	6,580	5,054	356,300	7,122	0
72	7/8/2022	99.8	7,488	5,254	5,103	356,170	7,073	0
73	7/8/2022	100	7,199	5,985	6,066	356,820	6,988	0
74	7/8/2022	84.5	7,437	6,718	5,962	352,440	6,884	0
75	7/8/2022	100	7,387	6,125	4,563	361,960	7,083	0
76	7/8/2022	100	7,214	6,692	4,562	362,360	7,146	0
77	7/9/2022	100	7,129	6,618	4,463	354,370	7,012	0
78	7/9/2022	83.5	7,231	6,250	5,219	357,440	6,832	0
79	7/9/2022	83.7	7,065	6,582	5,575	361,400	7,039	0
80	7/9/2022	84.4	7,385	6,258	4,577	355,000	6,959	0
81	7/9/2022	83.3	6,982	6,654	4,430	359,480	7,091	0
82	7/9/2022	83.3	7,005	6,486	4,476	356,340	6,929	0
83	7/10/2022	83.3	6,998	6,195	4,556	358,060	6,763	0
84	7/10/2022	83.3	6,741	5,900	4,627	356,300	6,833	0
85	7/10/2022	84.5	6,834	6,253	5,576	359,120	6,857	0

LATITUDE: 40°07'30" SURFACE HOLE (2000' SCALE) 305'

LATITUDE: 40°05'00" BOTTOM HOLE (2000' SCALE) 5447'

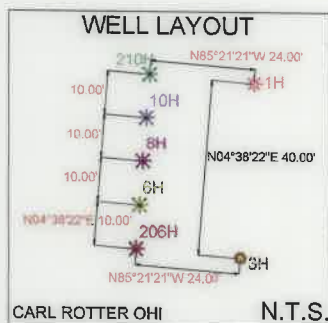
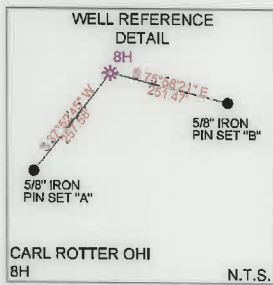


JHA Companies
ENGINEERS SURVEYORS ENVIRONMENTAL GIS MAPPING
 www.jhacompanies.com

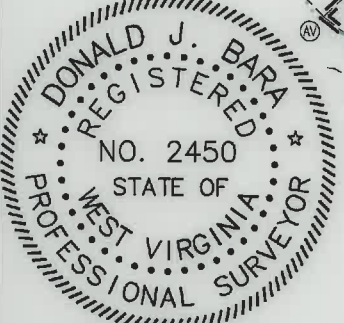
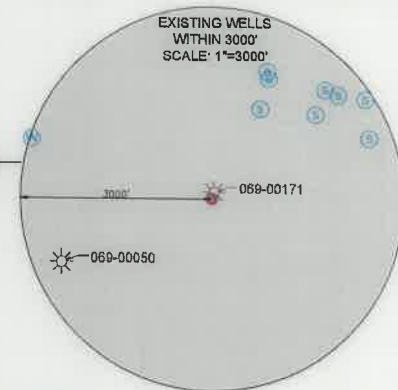
68011 Vineyard Road
 St. Clairsville, Ohio 43950
 740-695-6100

NOTES ON SURVEY

1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. 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.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD
5. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.



LINE	BEARING	DISTANCE
L1	S36°52'31"W	1452.98'
L2	S31°16'38"W	1629.07'



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4439125.96 EASTING: 538993.10
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4439024.35 EASTING: 538955.64
TURNING POINT LOCATION (TPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4434315.09 EASTING: 540904.32
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4433941.50 EASTING: 540998.18

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4439126.02 EASTING: 538993.11
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4439031.08 EASTING: 538954.73
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4433941.47 EASTING: 540997.88



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

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

WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	COMPANY: SWN OPERATOR'S WELL #: CARL ROTTER OHI 8H API WELL #: 47 069 00330 STATE COUNTY PERMIT
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1336.7'

DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: VALLEY GROVE, WV

SURFACE OWNER: CARL J. & GRACE A. ROTTER ACREAGE: ±77.45

OIL & GAS ROYALTY OWNER: CARL J. & GRACE A. ROTTER ACREAGE: ±77.45

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) AS-DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,818' 10/21/2022

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: 08-12-2022
● EXISTING BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD LPL* EXISTING LANDING POINT LOCATION ● PROPOSED SURFACE HOLE / BOTTOM HOLE LPL* PROPOSED LANDING POINT LOCATION	— ACCESS ROAD — PUBLIC ROAD — FLOOD PLAN — LEASE BOUNDARY — AS-DRILLED PATH — PROPOSED PATH	API NO: 47-069-00330 DRAWN BY: R. GRIMES SCALE: 1" = 2000' DRAWING NO: 2018-0153 WELL LOCATION PLAT

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	ROTTER CARL J & GRACE A (S/R)	3-111-54
TRACT	SURFACE OWNER	TAX PARCEL
2	KLAGES LLOYD A JR	3-111-46.18
3	HOMESTEAD FARMS LLC	3-111-46
4	TUNNEL RIDGE LLC	3-111-46.4
5	TUNNEL RIDGE LLC	3-114-51
6	TUNNEL RIDGE LLC	3-114-52.1
7	CAROLLA FRANK A JR	3-114-52.2
8	STATE OF WEST VIRGINIA DEPARTMENT OF HIGHWAYS	STOOLFIRE/WEST ALEXANDER ROAD
9	ACKLEY MARC & STACY LYNN	3-114-44
10	STATE OF WEST VIRGINIA DEPARTMENT OF HIGHWAYS	INTERSTATE 70
11	TULLY JAMES M & VERONICA	3-114-31.2
12	TULLY JAMES M	3-114-31.4
13	PAGENDARM PATRICIA M.	3-115-2.2
14	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	6-T5-1
15	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	6-T5-2
16	DAVIS JOHN RICHARD JR & ADA I	6-T5-2.1
17	DAVIS JOHN RICHARD & ADA I	6-T5-2.3
18	DAVIS JOHN RICHARD ET AL	6-T10-1
19	WINESBURG MICHAEL J	6-T10-5.4
20	RICHEY DONALD EDWARD JR & RICHEY CHRISTINE	6-T10-5.9
21	HORR DONNIE L & MICHELLE	6-T10-4.1
22	ASHTON BETH A & JACOBS DOUGLAS E	6-T10-9
23	LEMMON WADE LEE; LEMMON JOSHUA; LEMMON MORGAN	6-T10-10
24	ALDERMAN ROY M	6-T10-11.4
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	GRIFFITH SHARON & WARREN	3-111-60.1
B	SCHMIDT TODD R	3-111-46.22
C	POWERS JEFFREY B	3-111-46.20
D	KLAGES PROPERTIES LLC	3-111-46.9
E	WOLEN JOHN J & MICHELLE L	3-111-46.11
F	TUNNEL RIDGE LLC	3-111-46.17
G	TUNNEL RIDGE LLC	3-111-48.8
H	TUNNEL RIDGE LLC	3-111-45.1
I	TUNNEL RIDGE LLC	3-111-46.5
J	MOORE SCOTT E & LEAH	3-111-46.10
K	TUNNEL RIDGE LLC	3-111-46.7
L	HENDERSON DENNIS C & MURPHY PATRICIA A	3-114-53
M	VILLERS CLARK & MALINDA	3-114-41
N	TUNNEL RIDGE LLC	3-114-42
O	CONRAD JENNIFER L & BENJAMIN M	3-114-43
P	TRIPLE P LLC	3-112-18.8
Q	TRIPLE P LLC	3-112-18.9
R	BERGHOFF BRAD W	3-115-2.9
S	BERGHOFF GERALD W	3-115-2.6
T	GYEKIS ROBERT J & VICKI L	3-115-2.3
U	ERNEST LAWRENCE F & DEBORAH	3-115-3
V	ERNEST LAWRENCE F & DEBORAH K	3-115-4.1
W	OLIVER LUCAS B	3-115-4
X	MORGAN SALLY A	3-115-2.4
Y	MORGAN SALLY A	3-115-2.8
Z	JEWETT CLARENCE G AND TRACY	3-115-4.2
AA	TUNNEL RIDGE LLC	3-115-4.6
AB	TUNNEL RIDGE LLC	3-115-4.4
AC	BRIGGS KAREN LYNN & HENRY WILLIAM	6-T10-4.2
AD	HORR DONNIE, BRIGGS KAREN L. & HORR GLEN	6-T10-4
AE	MOORE THOMAS E	680-005-00-00-0002-00
AF	HAGAN DAVID E & CLAIRE M FAM TRUST, DAVID E & CLAIRE M HAGAN TRUSTEES	680-005-00-00-0001-00

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AG	DISAIA CHARLES D & REBECCA J	680-004-00-00-0006-04
AH	WHITEMAN FLORENCE J	6-T15-1
AI	WHITEMAN GUY D & FLORENCE JOANNE	6-T15-11.1
AJ	ALDERMAN ROY M	6-T15-13
AK	ALDERMAN BRANDI N	6-T15-12
AL	ALDERMAN ROY M	6-T10-11.7
AM	ALDERMAN ROY M	6-T10-11.3
AN	ALDERMAN ROY M	6-T10-11.6
AO	KRUPINSKI MARK D & PATTISHALL JAN M.	6-T10-5.6
AP	KRUPINSKI MARK D & PATTISHALL JAN M.	6-T10-5
AQ	SHOETIS JOHNN A D	6-T10-5.8
AR	PHILLIPS VANCE A & BRIANNE L	6-T10-5.5
AS	WILD LIFE LEAGUE OF OHIO CO	6-T10-2
AT	KOZIK JOHN A & JAMES E	6-T9-49
AU	RIGGLE PAUL; RIGGLE KIMBERLY	6-T9-48.5
AV	DAGUE FREDERICK W	6-T9-48
AW	ADAMS CAROLE JOYCE	6-T4-8
AX	ADAMS THOMAS E & AMANDA BAKER	6-T4-8.1
AY	WEST VIRGINIA DEPARTMENT OF NATURAL RESOURCES	3-114-29
AZ	BLAZIER ROBERT BRENT	3-114-31
BA	GARRETT JOHN W & CHRISTINA	3-114-37
BB	NIETZELT EDWARD L	3-114-38
BC	ERNEST KELLY MICHAEL	3-114-35
BD	ERNEST DEBORAH J	3-114-31.5
BE	ERNEST DEBORAH J	3-114-34
BF	TULLY JAMES M & VERONICA	3-114-31.1
BG	ACKLEY MARC & STACEY LYNN	3-114-45
BH	TUNNEL RIDGE LLC	3-114-52.3
BI	DEAN LAWRENCE J II & JANET S	3-114-49
BJ	WATSON GARY L	3-114-21
BK	HEINRICH EARNEST J III & ANGELA R	3-114-22
BL	TUNNEL RIDGE LLC	3-111-55.1
BM	WEASE DUANE L & RHONDA L	3-111-55.2
BN	DAVIS DONNA EVANS; WEASE RHONDA EVANS	3-111-49
BO	ROTTER CJ & GRACE A	3-111-53
BP	ROTTER CJ & GRACE A	3-111-52
BQ	DAVIS DONNA E & DANIEL R	3-111-50
BR	DAVIS DONNA EVANS & DANIEL R	3-111-49.2
BS	ROTTER CARL J & GRACE A	3-111-64
BT	NOLAN JOHN A JR	3-111-61
BU	GIVENS HERCHEL L & JONES DOROTHY S	6-T5-2.2
BV	DAVIS JOHN R JR & ADA I	6-T5-6
BW	DAVIS DEBRA L	6-T5-5

10/21/2022

REVISIONS:	COMPANY: SWN Production Company, LLC		DATE: 08-12-2022	
	OPERATOR'S: CARL ROTTER OHI		API NO: 47-069-00330	
	WELL #: 8H		DRAWN BY: R. GRIMES	
	DISTRICT: LIBERTY	COUNTY: OHIO	STATE: WV	SCALE: N/A
				DRAWING NO: 2018-0153
				WELL LOCATION PLAT

COMPLETION ID 2501165870
PAD ID 3001156596