

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

API 47-069-00331 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 210H
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 4,439,132.10 Easting 538,993.44
Landing Point of Curve Northing 4,439,082.38 Easting 539,529.92
Bottom Hole Northing 4,435,122.24 Easting 541,113.74

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 2/19/2021 Date drilling commenced 4/27/2022 Date drilling ceased 5/10/2022
Date completion activities began 6//2022 Date completion activities ceased 7/29/2022
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 718' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED
Reviewed by: [Signature]
11-2022
10/21/2022

API 47-069 - 00331 Farm name CARL J. & GRACE A. ROTTER Well number CARL ROTTER OHI 210H

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	764	NEW	J-55/54.5#		Y; 35 BBLS
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	2,198	NEW	K-55/36#		Y; 25 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	21,557	NEW	P-110/20#		Y; 0 BBLS
Tubing		2.875	7,201	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	694	15.60	1.19	825.86	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	751	15.60	1.19	893.69	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4039	14.50	1.29	5210.31	1,060'	24
Tubing							

Drillers TD (ft) 21,557' Loggers TD (ft) 21,557'
 Deepest formation penetrated MARCELLUS Plug back to (ft) 21,466'
 Plug back procedure N/A

Kick off depth (ft) 6,050'

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: 10 CENTRALIZERS - EVERY THIRD JOINT OF CASING

INTERMEDIATE: 30 CENTRALIZERS - EVERY THIRD JOINT OF CASING

PRODUCTION: 412 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 _____



Southwestern Energy®

Well Name: Carl Rotter OHI 210H

47069003310000

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	718.00	718.00	723.00	723.00	
Pottsville (ss)	835.00	835.00	987.00	987.00	
Raven Cliff (ss)	1226.00	1225.00	1471.00	1468.00	
Maxton (ss)	1637.00	1632.00	1894.00	1884.00	
Big Injun (ss)	1894.00	1884.00	2397.00	2368.00	
Berea (siltstone)	2397.00	2368.00	2497.00	2463.00	
Rhinestreet (shale)	6140.00	5940.00	6464.00	6234.00	
Cashaqua (shale)	6464.00	6234.00	6550.00	6305.00	
Middlesex (shale)	6550.00	6305.00	6658.00	6387.00	
Burket (shale)	6658.00	6387.00	6686.00	6407.00	
Tully (ls)	6686.00	6407.00	6738.00	6442.00	
Mahantango (shale)	6738.00	6442.00	6950.00	6555.00	
Marcellus (shale)	6950.00	6555.00	NA	NA	GAS

**CARL ROTTER OHI 210H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	5/22/2022	21,466	21,372	36
2	6/1/2022	21,338	21,160	36
3	6/2/2022	21,127	20,984	30
4	6/3/2022	20,915	20,737	36
5	6/3/2022	20,704	20,526	36
6	6/3/2022	20,493	20,315	36
7	6/3/2022	20,281	20,103	36
8	6/4/2022	20,070	19,892	36
9	6/4/2022	19,859	19,681	36
10	6/4/2022	19,648	19,469	36
11	6/4/2022	19,436	19,258	36
12	6/4/2022	19,225	19,047	36
13	6/5/2022	19,014	18,836	36
14	6/5/2022	18,802	18,624	36
15	6/5/2022	18,591	18,413	36
16	6/5/2022	18,380	18,202	36
17	6/5/2022	18,168	17,990	36
18	6/6/2022	17,957	17,779	36
19	6/6/2022	17,746	17,568	36
20	6/6/2022	17,534	17,356	36
21	6/6/2022	17,323	17,145	36
22	6/6/2022	17,112	16,934	36
23	6/7/2022	16,901	16,722	36
24	6/7/2022	16,689	16,511	36
25	6/7/2022	16,478	16,300	36
26	6/7/2022	16,267	16,088	36
27	6/7/2022	16,055	15,877	36
28	6/8/2022	15,844	15,666	36
29	6/8/2022	15,633	15,455	36
30	6/8/2022	15,421	15,243	36
31	6/8/2022	15,210	15,032	36
32	6/8/2022	14,999	14,821	36
33	6/8/2022	14,787	14,609	36
34	6/8/2022	14,576	14,398	36
35	6/9/2022	14,365	14,187	36
36	6/9/2022	14,154	13,975	36
37	6/9/2022	13,942	13,764	36
38	6/9/2022	13,731	13,553	36
39	6/9/2022	13,520	13,341	36
40	6/10/2022	13,308	13,130	36
41	6/10/2022	13,097	12,919	36
42	6/10/2022	12,886	12,708	36
43	6/10/2022	12,674	12,496	36

**CARL ROTTER OHI 210H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
44	6/10/2022	12,463	12,285	36
45	6/11/2022	12,252	12,074	36
46	6/11/2022	12,040	11,862	36
47	6/11/2022	11,829	11,651	36
48	6/11/2022	11,618	11,440	36
49	6/11/2022	11,406	11,228	36
50	6/11/2022	11,195	11,017	36
51	6/11/2022	10,984	10,806	36
52	6/11/2022	10,773	10,594	36
53	6/12/2022	10,561	10,383	36
54	6/12/2022	10,350	10,172	36
55	6/12/2022	10,139	9,961	36
56	6/12/2022	9,927	9,749	36
57	6/12/2022	9,716	9,538	36
58	6/12/2022	9,505	9,327	36
59	6/13/2022	9,293	9,115	36
60	6/13/2022	9,082	8,904	36
61	6/13/2022	8,871	8,693	36
62	6/13/2022	8,659	8,481	36
63	6/13/2022	8,448	8,270	36
64	6/13/2022	8,237	8,059	36
65	6/14/2022	8,026	7,847	36
66	6/14/2022	7,814	7,636	36
67	6/14/2022	7,603	7,425	36
68	6/14/2022	7,392	7,214	36
69	6/14/2022	7,180	7,002	36

CARL ROTTER OHI 210H

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	6/1/2022	88	8,854	8,149	4,525	176,620	5,584	0
2	6/2/2022	96.2	9,079	5,550	4,120	355,210	9,426	0
3	6/2/2022	97.3	9,507	5,287	4,498	358,260	9,347	0
4	6/3/2022	97.7	9,893	5,240	4,503	359,920	9,313	0
5	6/3/2022	93.5	9,642	4,997	4,976	352,940	8,597	0
6	6/3/2022	95.5	9,471	5,001	4,435	363,294	8,598	0
7	6/4/2022	97.4	9,824	6,973	4,469	357,880	8,493	0
8	6/4/2022	92.3	9,569	6,737	4,050	326,080	8,272	0
9	6/4/2022	94.4	9,516	6,062	4,006	349,080	8,440	0
10	6/4/2022	94.4	9,458	5,901	4,879	351,750	8,422	0
11	6/4/2022	97.8	9,624	6,242	4,472	355,240	8,237	0
12	6/4/2022	98.2	9,454	6,603	4,512	372,520	8,559	0
13	6/5/2022	99.1	9,623	6,520	4,267	354,080	8,393	0
14	6/5/2022	98.8	9,341	5,403	3,745	358,220	8,402	0
15	6/5/2022	95.3	9,688	5,122	4,056	354,680	8,370	0
16	6/5/2022	85.9	8,777	5,150	4,354	354,580	8,025	0
17	6/6/2022	96.3	9,640	6,378	4,635	354,080	8,233	0
18	6/6/2022	94.7	9,264	6,160	4,252	355,360	8,597	0
19	6/6/2022	94.7	9,096	5,977	4,280	357,960	8,326	0
20	6/6/2022	94.7	9,399	5,033	4,205	357,140	8,418	0
21	6/6/2022	97	9,104	6,108	4,574	349,960	8,212	0
22	6/6/2022	96.2	8,964	6,549	4,670	354,160	8,285	0
23	6/7/2022	90.9	8,563	6,556	4,135	352,540	9,145	0
24	6/7/2022	96.1	8,955	5,679	4,120	355,200	8,122	0
25	6/7/2022	99.3	8,885	5,927	4,425	354,880	8,131	0
26	6/7/2022	99.8	9,147	6,600	4,633	349,800	8,093	0
27	6/7/2022	98.6	8,940	6,251	4,423	355,490	8,185	0
28	6/7/2022	93.6	8,627	6,342	4,136	354,070	8,201	0
29	6/8/2022	97.6	8,894	6,277	4,013	353,160	8,118	0
30	6/8/2022	98.9	8,910	6,570	4,523	356,820	8,168	0
31	6/8/2022	99.5	8,772	5,688	4,423	356,600	8,157	0
32	6/8/2022	95.3	8,935	5,747	4,593	350,640	8,433	0
33	6/8/2022	98.6	8,732	5,516	5,210	359,050	8,115	0
34	6/9/2022	99.1	8,861	6,525	5,073	358,580	8,048	0
35	6/9/2022	96	8,426	5,689	4,179	357,600	8,117	0
36	6/9/2022	95.3	8,342	6,454	4,643	356,770	8,067	0
37	6/9/2022	91.9	18,563	6,363	3,816	352,020	7,902	0
38	6/9/2022	100	7,888	5,625	5,249	356,140	8,067	0
39	6/10/2022	99	8,351	5,215	3,965	353,760	8,070	0
40	6/10/2022	94	8,074	5,210	4,774	363,486	8,191	0
41	6/10/2022	95.1	8,518	6,050	4,098	355,500	7,775	0
42	6/10/2022	91.3	8,771	6,027	4,113	356,110	7,850	0
43	6/10/2022	90.2	7,359	6,212	5,125	351,480	7,734	0
44	6/10/2022	99	7,967	6,125	4,958	357,000	8,102	0
45	6/11/2022	99	8,128	5,955	4,942	360,000	8,130	0
46	6/11/2022	99	8,079	5,200	4,719	362,488	8,069	0
47	6/11/2022	90.6	7,775	3,233	5,041	357,930	7,817	0
48	6/11/2022	90.5	7,465	5,844	4,578	353,890	7,694	0
49	6/11/2022	90.2	7,385	5,236	5,064	350,930	7,655	0
50	6/11/2022	99.9	7,908	5,951	7,900	355,490	7,869	0
51	6/11/2022	99	7,669	5,000	4,856	354,590	8,033	0
52	6/12/2022	99	7,587	5,911	4,409	356,610	7,899	0
53	6/12/2022	96	7,630	5,668	4,467	357,620	7,885	0

CARL ROTTER OHI 210H

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	6/12/2022	95.3	7,735	5,944	4,578	349,452	7,769	0
55	6/12/2022	95.1	7,794	5,845	4,600	356,640	7,671	0
56	6/12/2022	94.9	7,691	5,502	4,172	357,870	7,719	0
57	6/12/2022	95.9	7,777	6,183	4,220	355,220	7,645	0
58	6/12/2022	100.7	7,534	5,684	4,205	355,170	7,791	0
59	6/13/2022	99.8	7,996	6,019	4,515	357,280	8,818	0
60	6/13/2022	95.6	7,503	5,901	5,220	335,110	7,738	0
61	6/13/2022	95.8	7,411	5,962	4,120	353,240	7,453	0
62	6/13/2022	95.6	7,486	6,114	4,188	353,210	7,488	0
63	6/13/2022	100	7,093	5,451	4,286	354,620	7,723	0
64	6/14/2022	99.1	7,183	6,164	4,444	357,510	9,159	0
65	6/14/2022	95.1	7,249	6,518	4,300	360,060	7,184	0
66	6/14/2022	95.6	7,211	6,372	4,578	356,450	7,237	0
67	6/14/2022	99.9	6,819	5,576	4,361	357,460	7,632	0
68	6/14/2022	99.9	6,955	5,977	4,404	361,780	7,590	0
69	6/15/2022	100	6,749	5,910	4,215	360,000	7,626	0

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/1/2022
Job End Date:	6/15/2022
State:	West Virginia
County:	Ohio
API Number:	47-069-00331-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	CARL ROTTER OHI 210
Latitude:	40.10152116
Longitude:	-80.54242783
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,691
Total Base Water Volume (gal):	23,418,778
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	88.69100	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.19945	

			Water	7732-18-5	45.00000	0.19945	
			Water	7732-18-5	85.00000	0.19945	
Plexslick 930	SWN Well Services	Friction Reducer					
				Listed Below			
Tolicide 4Frac	SWN Well Services	Biocide					
				Listed Below			
Ferriplex 80	SWN Well Services	Iron Control					
				Listed Below			
Plexaid 655NM	SWN Well Services	Scale Inhibitor					
				Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
HCL	SWN Well Services	Solvent					
				Listed Below			
Sand	SWN Well Services	Proppant					
				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	11.04445	
			Hydrochloric Acid	7647-01-0	15.00000	0.02665	

			Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8	45.00000	0.00460	-
			Sodium Erythorbate	6381-77-7	100.00000	0.00095	
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00077	
			Ethanol	64-17-5	2.50000	0.00026	
			Ethylene glycol	107-21-1	40.00000	0.00011	
			Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)- .omega.-hydroxy-	9016-45-9	10.00000	0.00003	
			Cinnamaldehyde	104-55-2	10.00000	0.00003	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00003	
			2-Butoxyethanol	111-76-2	5.00000	0.00001	
			1-Decanol	112-30-1	5.00000	0.00001	
			1-Octanol	111-87-5	5.00000	0.00001	
			Triethyl phosphate	78-40-0	5.00000	0.00001	
			Isopropyl alcohol	67-63-0	5.00000	0.00001	
			benzyl chloridequaternized	72480-70-7	5.00000	0.00001	

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

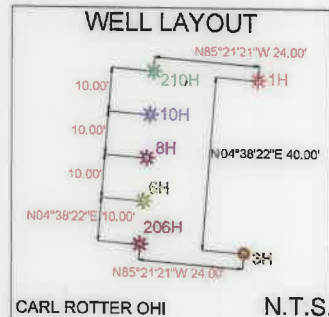
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

LATITUDE: 40°07'30" SURFACE HOLE (2000' SCALE) 303'

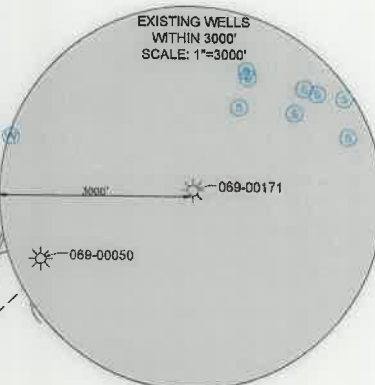
LATITUDE: 40°05'00" BOTTOM HOLE (2000' SCALE)

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.



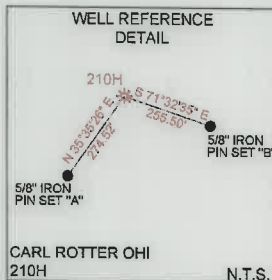
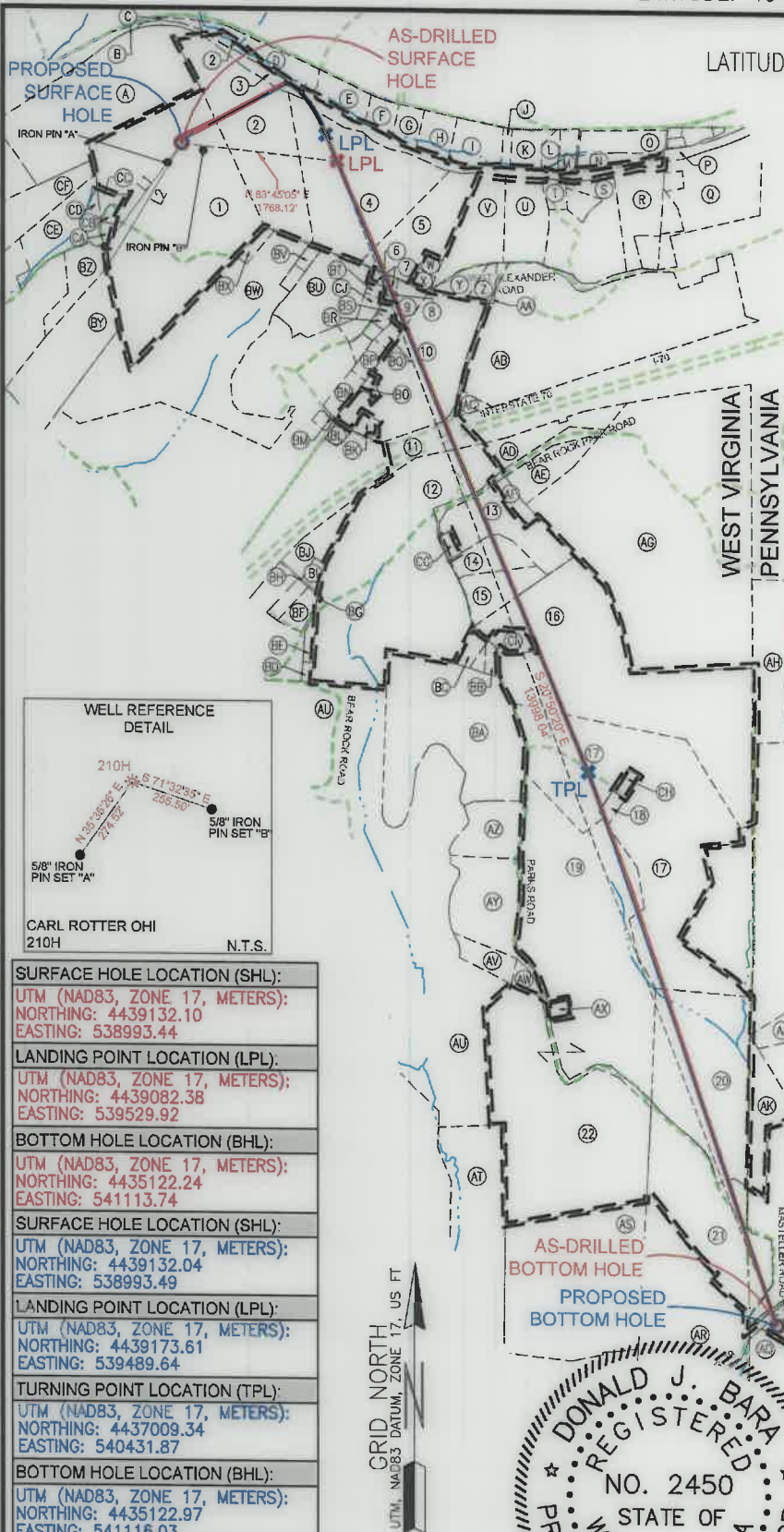
LINE	BEARING	DISTANCE
L1	S36°27'35"W	1469.94'
L2	S30°57'56"W	1646.97'



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

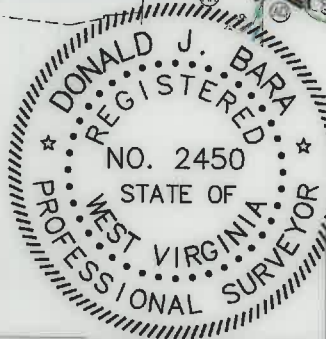
2000 0 2000

GRAPHIC SCALE IN FEET



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4439132.10 EASTING: 538993.44
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4439082.38 EASTING: 539529.92
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4435122.24 EASTING: 541113.74
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4439132.04 EASTING: 538993.49
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4439173.61 EASTING: 539489.64
TURNING POINT LOCATION (TPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4437009.34 EASTING: 540431.87
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4435122.97 EASTING: 541116.03

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



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. 2450

COMPANY:

SWN **SWN** **SWN**
Production Company, LLC Production Company™



(+) 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 ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

CARL ROTTER OHI
OPERATOR'S WELL #: 210H

API WELL #: 47 069 00331
STATE COUNTY PERMIT

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: 6,762' 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:
● EXISTING BOTTOM HOLE		08-12-2022
★ EXISTING / PRODUCING WELLHEAD		API NO: 47-069-00331
LPL★ EXISTING LANDING POINT LOCATION		DRAWN BY: R. GRIMES
● PROPOSED SURFACE HOLE / BOTTOM HOLE		SCALE: 1" = 2000'
LPL★ PROPOSED LANDING POINT LOCATION		DRAWING NO: 2018-0153
— ACCESS ROAD		WELL LOCATION PLAT
— PUBLIC ROAD		
— FLOOD PLAIN		
— LEASE BOUNDARY		
— ASDRILLED PATH		
— PROPOSED PATH		

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-L11-54
		TAX PARCEL
2	GRIFFITH SHARON & WARREN	3-L11-60.1
3	TUNNEL RIDGE LLC	3-L12-32
4	WATKINS THERESA & MARK	3-L11-60
5	TUNNEL RIDGE LLC	3-L12-25
6	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	REALTREE RD., FKA TRESTLEWORK ROGERS RD., AKA ROGERS ROAD
7	JSNE LLC	3-L11-46.8
8	TUNNEL RIDGE LLC	3-L11-46.16
9	KLAGES LLOYD A JR & AMY	3-L12-30
10	HALL ROBERT H. & LAURA L., HALL DAVID LEE & SANDRA SUE, PASCO THOMAS P. & MARY	3-L15-1.1
11	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	INTERSTATE 70
12	PAGENDARM JOS F & P M	3-L15-2.2
13	BERGHOFF GERALD W	3-L15-2.6
14	ERNEST LAWRENCE F & DEBORAH	3-L15-3
15	ERNEST LAWRENCE F & DEBORAH K	3-L15-4.1
16	OLIVER LUCAS B	3-L15-4
17	TUNNEL RIDGE LLC	3-L15-4.6
18	TUNNEL RIDGE LLC	3-L15-4.4
19	DAVIS JOHN RICHARD JR, DAVIS DEBRA L, DAVIS JOSEPH DAVID	6-T10-1
20	BRIGGS KAREN LYNN & HENRY WILLIAM	6-T10-4.2
21	HORR DONNIE L, BRIGGS KAREN L, HORR GLENN B	6-T10-4
22	HORR DONNIE L, BRIGGS KAREN L, HORR GLENN B	680-005-00-00-0003-00
23	HANCHER MATTHEW W	680-005-00-00-0010-00

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	NOLAN JOHN A JR	3-L11-61
B	NOLAN JOHN A JR	3-L11-66
C	NOLAN JOHN A JR	3-L11-63
D	MAZGAJ MILDRED J	3-L11-62
E	MAZGAJ MILDRED J	3-L11-67
F	FORDYCE TERRY L	3-L12-23
G	FORDYCE SHAUN LEMOINE & JASON ERIC	3-L12-24
H	GOUDY JUDITH A TRUSTEE JUDITH A GOUDY TRUST	3-L12-29
I	PLOCK DOUGLAS J & CHRISTINE M	3-L12-28
J	McCAVE SCOTT C	3-L12-10.3
K	G W RENTALS LLC	3-L12-10
L	WHEELING COIN LLC	3-L12-10.7
M	SHRIVER DANIEL L JR & CHRISTINA E	3-L12-10.5
N	ONEIL MICHELE	3-L12-10.4
O	ONEIL MICHELE I	3-L12-11
P	FRYE RICHARD L & CHERYL L	3-L12-31
Q	FRYE RICHARD L	3-L12-15
R	SHRIVER DANIEL L & GOLDIE ANN	3-L12-21
S	SHRIVER DANIEL L JR & GOLDIE ANN	3-L12-21.5
T	SHRIVER DANIEL L & GOLDIE	3-L12-21.3
U	MCFARLAND DENNIS E & BRIS NANCY M	3-L12-22
V	TUNNEL RIDGE LLC	3-L12-25.1
W	KLAGES LLOYD A JR	3-L12-25.2
X	ENGLISH MARGARET B	3-L12-25.3
Y	TUNNEL RIDGE LLC	3-L12-18.1
Z	TUNNEL RIDGE LLC	3-L12-18.2
AA	TRIPLE P LLC	3-L12-18.3
AB	TRIPLE P LLC	3-L12-18
AC	TURNER FRANCES A	3-L12-18.6
AD	TRIPLE P LLC	3-L12-18.8
AE	TRIPLE P LLC	3-L12-18.9
AF	BERGHOFF BRAD W	3-L15-2.9
AG	BERGHOFF GERALD W	3-L15-5
AH	TUNNEL RIDGE LLC	230-006-00-00-0015-00

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AI	MOORE HEIDI L & BENJAMIN R	230-006-00-00-0010-00
AJ	GREAVES THOMAS & MARTHA,	230-006-00-00-0012-01
AK	BRIGGS KAREN LYNN	680-005-00-00-0003-01
AL	GREAVES THOMAS & MARTHA	680-005-00-00-0004-02
AM	DUNN WILLIAM C & SALLIE A	680-005-00-00-0004-01
AN	DUNN WILLIAM C & SALLIE A	680-005-00-00-0010-02
AO	HANCHER MATTHEW W & KELLY	680-005-00-00-0010-03
AQ	MOORE THOMAS E	680-005-00-00-0002-00
AR	HORR DONNIE L & MICHELLE	6-T10-4.1
AS	WINESBURG MICHAEL J	6-T10-5.4
AT	WILD LIFE LEAGUE OF OHIO CO	6-T10-2
AU	CONSERVATION COMM OF W VA	6-T5-1
AV	DAVIS JOHN RICHARD & ADA I	6-T5-2.3
AW	DAVIS JOHN RICHARD JR & ADA I	6-T5-6
AX	DAVIS DEBRA L	6-T5-5
AY	DAVIS JOHN R & ADA I	6-T5-2.1
AZ	GIVENS HERSCHEL L & JONES DORTHY S	6-T5-2.2
BA	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	6-T5-2
BB	JEWETT CLARENCE G AND TRACY	3-L15-4.2
CI	OLIVER LUCAS B C/O MCCAMIC JEFF	3-L15-4.5
BC	MORGAN SALLY A	3-L15-2.4
BD	NIETZELT EDWARD L	3-L14-38
BE	ERNEST KELLY MICHAEL	3-L14-35
BF	ERNEST DEBORAH J	3-L14-31.5
BG	ERNEST DEBORAH J	3-L14-34
BH	TULLY JAMES M & VERONICA	3-L14-31.1
BI	TULLY JAMES M	3-L14-31.4
BJ	TULLY JAMES M & VERONICA	3-L14-31.2
BK	WOOD BRENTON R & KELLY S	3-L15-1.2
BL	TUNNEL RIDGE LLC	3-L14-39
BM	NUNES ANDREW J	3-L11-48.9
BN	TUNNEL RIDGE LLC	3-L14-54
BO	HALL ROBERT H & LAURA L	3-L15-7
BP	HALL ROBERT H & LAURA L	3-L11-48.1
BQ	KLAGES LLOYD A JR & AMY	3-L11-48.10
BR	TUNNEL RIDGE LLC	3-L11-46.14
BS	TUNNEL RIDGE LLC	3-L11-46.15
CJ	JSNE LLC	3-L11-46.8
BT	TUNNEL RIDGE LLC	3-L11-46.2
BU	WOLEN JOHN J & MICHELLE L	3-L11-46.11
BV	POWERS JEFFREY B	3-L11-46.20
BW	KLAGES LLOYD A JR	3-L11-46.18
BX	SCHMIDT TODD R	3-L11-46.22
BY	WATSON GARY L & ROSE	3-L11-55.1
BZ	WEASE DUANE L & RHONDA L	3-L11-55.2
CA	ROTTER C J & GRACE A	3-L11-53
CB	ROTTER C J & GRACE A	3-L11-52
CC	DAVIS DONNA E & DANIEL R	3-L11-50
CD	DAVIS DONNA EVANS & DANIEL R	3-L11-49.2
CE	DAVIS DONNA EVANS & WEASE RHONDA EVANS	3-L11-49
CF	ROTTER CARL J & GRACE A	3-L11-64
CG	GYEKIS ROBERT J & VICKI L	3-L15-2.3
CH	TUNNEL RIDGE LLC	3-L15-4.3

10/21/2022

REVISIONS:	COMPANY: SWN Production Company, LLC		DATE: 08-12-2022	
	OPERATOR'S: CARL ROTTER OHI		API NO: 47-069-00331	
	WELL #: 210H		DRAWN BY: R. GRIMES	
	DISTRICT: LIBERTY	COUNTY: OHIO	STATE: WV	SCALE: N/A
				DRAWING NO: 2018-0153
				WELL LOCATION PLAT

COMPLETION ID 2501171226
PAD ID 3001156596