

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

API 47 - 069 - 00348 County OHIO District RICHLAND
Quad TILTONSVILLE 7.5', OH Pad Name ROTH-OHI-PAD1 Field/Pool Name PANHANDLE FIELD WET
Farm name SWN PRODUCTION COMPANY, LLC Well Number ROTH 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 4,444,579.468 Easting 526,669.625
Landing Point of Curve Northing 4,444,629.415 Easting 526,988.800
Bottom Hole Northing 4,439,642.268 Easting 528,752.510

Elevation (ft) 1004.01' 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 9/7/2022 Date drilling commenced 1/11/2023 Date drilling ceased 1/30/2023
Date completion activities began 3/6/2023 Date completion activities ceased 4/17/2023
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

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Freshwater depth(s) ft 423' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,119' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 179' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

APPROVED
09/22/2023

API 47- 069 - 00348 Farm name SWN PRODUCTION COMPANY, LLC Well number ROTH 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	475'	NEW	J-55/54.5#	138.4' / 336.62'	Y / 4 BBLs
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1,612'	NEW	J-55/36#		Y / 33 BBLs
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	23,558'	NEW	P-110 HP/20#		Y / 45 BBLs
Tubing		2.875	5,936'	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	103 / 810	15.60	1.20 / 1.19	123.6 / 963.9	SURFACE	8
Coal							
Intermediate 1	CLASS A	609	15.60	1.19	724.71	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	4,652	15.00	1.30	6047.6	SURFACE	24
Tubing							

Drillers TD (ft) 23,558' Loggers TD (ft) 23,558'
 Deepest formation penetrated MARCELLUS Plug back to (ft) 23,468'
 Plug back procedure N/A

Kick off depth (ft) 5,058' 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: 7 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 INTERMEDIATE: 24 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 181 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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PRODUCING FORMATION(S)	DEPTHS	
MARCELLUS	5,620'	TVD 5,926' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 2,516 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs
 OPEN FLOW Gas 1,534 mcfpd Oil 340 bpd NGL _____ bpd Water 2,663 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP		BOTTOM		DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME	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 ROAD 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 SPECIALIST Date 7.6.2023
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**ROTH OHI 8H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	3/1/2023	23,468	23,373	36
2	3/7/2023	23,339	23,160	36
3	3/8/2023	23,127	22,948	36
4	3/8/2023	22,915	22,736	36
5	3/9/2023	22,703	22,524	36
6	3/9/2023	22,491	22,312	36
7	3/10/2023	22,279	22,100	36
8	3/10/2023	22,067	21,888	36
9	3/11/2023	21,855	21,676	36
10	3/11/2023	21,643	21,464	36
11	3/12/2023	21,431	21,252	36
12	3/13/2023	21,219	21,040	36
13	3/14/2023	21,007	20,828	36
14	3/14/2023	20,795	20,616	36
15	3/15/2023	20,583	20,404	36
16	3/15/2023	20,371	20,192	36
17	3/16/2023	20,159	19,981	36
18	3/16/2023	19,947	19,769	36
19	3/17/2023	19,735	19,557	36
20	3/17/2023	19,523	19,345	36
21	3/18/2023	19,311	19,133	36
22	3/19/2023	19,099	18,921	36
23	3/19/2023	18,887	18,709	36
24	3/20/2023	18,675	18,497	36
25	3/20/2023	18,463	18,285	36
26	3/21/2023	18,251	18,073	36
27	3/21/2023	18,039	17,861	36
28	3/21/2023	17,827	17,649	36
29	3/22/2023	17,615	17,437	36
30	3/22/2023	17,403	17,225	36
31	3/22/2023	17,191	17,013	36
32	3/23/2023	16,979	16,801	36
33	3/23/2023	16,767	16,589	36
34	3/24/2023	16,555	16,377	36
35	3/24/2023	16,343	16,165	36
36	3/24/2023	16,131	15,953	36
37	3/25/2023	15,919	15,741	36
38	3/25/2023	15,707	15,529	36
39	3/26/2023	15,495	15,317	36
40	3/26/2023	15,283	15,105	36
41	3/26/2023	15,071	14,893	36
42	3/27/2023	14,859	14,681	36

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**ROTH OHI 8H
ATTACHMENT 1
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
43	3/27/2023	14,647	14,469	36
44	3/27/2023	14,435	14,257	36
45	3/27/2023	14,223	14,045	36
46	3/28/2023	14,011	13,833	36
47	3/28/2023	13,800	13,621	36
48	3/28/2023	13,588	13,409	36
49	3/29/2023	13,376	13,197	36
50	3/29/2023	13,164	12,985	36
51	3/29/2023	12,952	12,773	36
52	3/30/2023	12,740	12,561	36
53	3/30/2023	12,528	12,349	36
54	3/30/2023	12,316	12,137	36
55	3/31/2023	12,104	11,925	36
56	3/31/2023	11,892	11,713	36
57	3/31/2023	11,680	11,501	36
58	4/1/2023	11,468	11,289	36
59	4/1/2023	11,256	11,077	36
60	4/1/2023	11,044	10,865	36
61	4/2/2023	10,832	10,653	36
62	4/2/2023	10,620	10,441	36
63	4/2/2023	10,408	10,229	36
64	4/3/2023	10,196	10,017	36
65	4/5/2023	9,984	9,805	36
66	4/5/2023	9,772	9,593	36
67	4/6/2023	9,560	9,381	36
68	4/6/2023	9,348	9,169	36
69	4/6/2023	9,136	8,957	36
70	4/6/2023	8,924	8,745	36
71	4/6/2023	8,712	8,533	36
72	4/6/2023	8,500	8,310	72
73	4/7/2023	8,288	8,109	36
74	4/7/2023	8,076	7,897	36
75	4/7/2023	7,864	7,685	36
76	4/7/2023	7,652	7,473	72
77	4/7/2023	7,440	7,261	36
78	4/8/2023	7,228	7,049	36
79	4/8/2023	7,016	6,837	36
80	4/8/2023	6,804	6,625	36
81	4/8/2023	6,592	6,413	36
82	4/8/2023	6,380	6,201	36
83	4/8/2023	6,168	5,989	36

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ROTH 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	3/7/2023	87.7	9,524	6,358	3,640	200,680	6,364	0
2	3/7/2023	97.6	9,660	3,685	4,352	373,780	9,421	0
3	3/8/2023	94.6	9,563	4,700	4,450	367,000	9,320	0
4	3/9/2023	97.7	9,493	4,770	4,675	367,860	8,763	0
5	3/9/2023	81.5	7,644	3,800	4,340	367,000	10,657	0
6	3/10/2023	95.2	9,442	6,024	4,213	367,000	8,937	0
7	3/10/2023	97.6	9,817	5,957	4,525	367,000	8,777	0
8	3/11/2023	98	9,496	5,707	4,255	367,000	9,086	0
9	3/11/2023	91.5	9,512	6,247	4,318	367,000	8,562	0
10	3/11/2023	79.5	8,717	5,743	4,450	367,000	13,684	0
11	3/13/2023	97.8	9,944	5,400	4,525	367,000	9,054	0
12	3/14/2023	96.1	9,684	7,012	4,319	367,000	9,045	0
13	3/14/2023	93.6	9,036	6,665	4,535	367,000	8,723	0
14	3/15/2023	97.4	9,258	6,214	4,532	367,000	8,911	0
15	3/15/2023	93.3	8,726	6,023	4,752	367,000	8,374	0
16	3/15/2023	92	8,709	6,551	4,730	367,000	8,685	0
17	3/16/2023	95	8,726	6,208	4,752	367,000	8,621	0
18	3/16/2023	94	8,789	6,745	4,317	367,000	8,511	0
19	3/17/2023	92.5	8,612	5,842	4,723	367,000	8,483	0
20	3/17/2023	93.9	9,010	6,519	5,340	367,000	8,555	0
21	3/19/2023	86.9	7,543	5,964	4,601	367,000	8,305	0
22	3/19/2023	97.4	8,904	6,345	4,064	367,000	8,528	0
23	3/20/2023	96.1	8,673	6,366	4,752	367,000	8,473	0
24	3/20/2023	95.2	8,641	5,889	4,751	367,000	8,313	0
25	3/20/2023	96.1	8,709	6,020	5,328	367,000	8,383	0
26	3/21/2023	96.8	8,602	5,542	4,695	367,000	8,542	0
27	3/21/2023	98.4	8,648	6,385	4,821	367,000	7,935	0
28	3/21/2023	94.7	8,610	6,013	4,785	367,000	8,211	0
29	3/22/2023	95.1	8,600	5,881	4,851	367,000	8,192	0
30	3/22/2023	95.5	8,694	6,452	4,389	367,000	8,121	0
31	3/23/2023	95.4	8,449	6,518	5,247	367,000	8,316	0
32	3/23/2023	99.2	8,524	5,558	4,434	367,000	8,025	0
33	3/23/2023	94.4	8,483	6,821	4,897	367,000	8,514	0
34	3/24/2023	93.7	8,183	7,023	5,129	367,000	8,009	0
35	3/24/2023	98.1	8,380	5,324	4,528	367,000	8,149	0
36	3/25/2023	94.4	8,598	6,737	4,854	367,000	8,071	0
37	3/25/2023	98.5	8,331	6,612	4,531	367,000	7,863	0
38	3/25/2023	94.5	8,575	6,678	4,479	367,000	8,167	0
39	3/26/2023	98.8	8,063	5,784	4,712	367,000	7,830	0
40	3/26/2023	97.9	8,347	6,036	4,616	367,000	7,836	0
41	3/26/2023	95.1	8,382	5,447	4,870	367,000	7,685	0
42	3/27/2023	95.2	8,200	5,901	4,878	367,000	7,752	0
43	3/27/2023	98.3	8,247	5,492	4,495	367,000	7,778	0
44	3/27/2023	94.8	8,289	6,001	4,380	367,000	7,997	0
45	3/28/2023	95	8,431	5,789	5,427	367,000	7,819	0
46	3/28/2023	98.3	8,138	5,821	4,712	367,000	7,757	0
47	3/28/2023	96	8,241	5,934	4,983	367,000	7,878	0
48	3/29/2023	96	8,053	4,578	4,589	367,000	7,882	0
49	3/29/2023	96.1	7,880	5,478	4,850	367,000	7,842	0
50	3/29/2023	95.9	7,767	5,875	4,657	367,000	7,769	0
51	3/30/2023	96.8	7,687	6,090	4,382	367,000	7,943	0
52	3/30/2023	95.9	7,457	5,420	4,856	367,000	7,869	0
53	3/30/2023	92.3	7,397	5,903	4,509	367,000	7,864	0

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ROTH 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	3/31/2023	91.3	7,206	5,412	4,625	367,000	7,781	0
55	3/31/2023	97.9	7,604	3,852	5,420	367,000	7,825	0
56	3/31/2023	90.6	7,011	5,210	4,760	367,000	7,829	0
57	3/31/2023	88.8	7,185	6,112	4,386	367,000	7,718	0
58	4/1/2023	98	7,973	5,626	4,525	367,000	7,803	0
59	4/1/2023	96.8	7,539	5,442	4,321	367,000	7,864	0
60	4/2/2023	95.9	7,557	5,570	4,685	367,000	7,716	0
61	4/2/2023	98.1	7,627	5,757	4,568	367,000	7,847	0
62	4/2/2023	96.2	7,390	5,515	4,233	400,920	7,642	0
63	4/3/2023	95.5	7,819	5,710	4,468	367,000	7,776	0
64	4/3/2023	87.2	6,737	5,126	4,658	367,000	7,741	0
65	4/5/2023	93	7,855	6,129	4,645	367,000	7,548	0
66	4/5/2023	96	6,978	6,498	4,546	367,000	7,596	0
67	4/6/2023	98.2	7,441	5,663	4,582	367,000	7,651	0
68	4/6/2023	90.4	6,823	5,569	4,658	367,000	7,565	0
69	4/6/2023	99.9	7,091	5,525	4,852	367,000	7,393	0
70	4/6/2023	95.8	8,140	5,061	4,432	367,000	7,456	0
71	4/6/2023	95.3	6,653	5,560	4,489	367,000	7,409	0
72	4/7/2023	86.1	7,700	5,690	4,925	372,012	9,886	0
73	4/7/2023	98.3	6,969	5,382	4,752	367,000	7,568	0
74	4/7/2023	99.9	6,860	5,310	4,785	367,000	7,283	0
75	4/7/2023	97.9	6,723	4,965	4,752	367,000	7,325	0
76	4/7/2023	93	7,484	5,060	4,732	371,866	10,007	0
77	4/7/2023	95.7	6,758	5,514	4,603	367,000	7,344	0
78	4/8/2023	96.7	6,659	5,459	4,632	367,000	7,409	0
79	4/8/2023	98.9	6,673	5,403	4,528	367,000	7,325	0
80	4/8/2023	98.8	6,082	5,078	4,565	367,000	7,273	0
81	4/8/2023	99	6,470	5,132	4,758	367,000	7,192	0
82	4/8/2023	97.7	6,426	5,420	4,272	367,000	7,089	0
83	4/9/2023	98.2	6,182	6,108	4,200	372,500	7,345	0

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/7/2023
Job End Date:	4/9/2023
State:	West Virginia
County:	Ohio
API Number:	47-069-00348-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	ROTH OHI 8
Latitude:	40.15113978
Longitude:	-80.68687069
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,753
Total Base Water Volume (gal):	28,362,742
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	88.28072	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	85.00000	0.30469	

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			Water	7732-18-5	45.00000	0.30469	
			Water	7732-18-5	100.00000	0.30469	
HCL	SWN Well Services	Solvent					
				Listed Below			
Tolicide 4Frac	SWN Well Services	Biocide					
				Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
Ferriplex 80	SWN Well Services	Iron Control					
				Listed Below			
PLEXSLICK 930	SWN Well Services	Friction Reducer					
				Listed Below			
Sand	SWN Well Services	Proppant					
				Listed Below			
Plexaid 655WG	SWN Well Services	Scale Inhibitor					
				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	11.32070	
			Hydrochloric Acid	7647-01-0	15.00000	0.04296	

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		Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8	45.00000	0.00502	
		Sodium Erythorbate	6381-77-7	100.00000	0.00128	
		Quaternary ammonium compounds	68424-85-1	7.50000	0.00084	
		Ethanol	64-17-5	2.50000	0.00028	
		Ethylene glycol	107-21-1	40.00000	0.00015	
		N,N-Dimethylformamide	68-12-2	10.00000	0.00004	
		Cinnamaldehyde	104-55-2	10.00000	0.00004	
		Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	10.00000	0.00004	
		benzyl chloridequaternized	72480-70-7	5.00000	0.00002	
		Triethyl phosphate	78-40-0	5.00000	0.00002	
		2-Butoxyethanol	111-76-2	5.00000	0.00002	
		1-Decanol	112-30-1	5.00000	0.00002	
		1-Octanol	111-87-5	5.00000	0.00002	
		Isopropyl alcohol	67-63-0	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

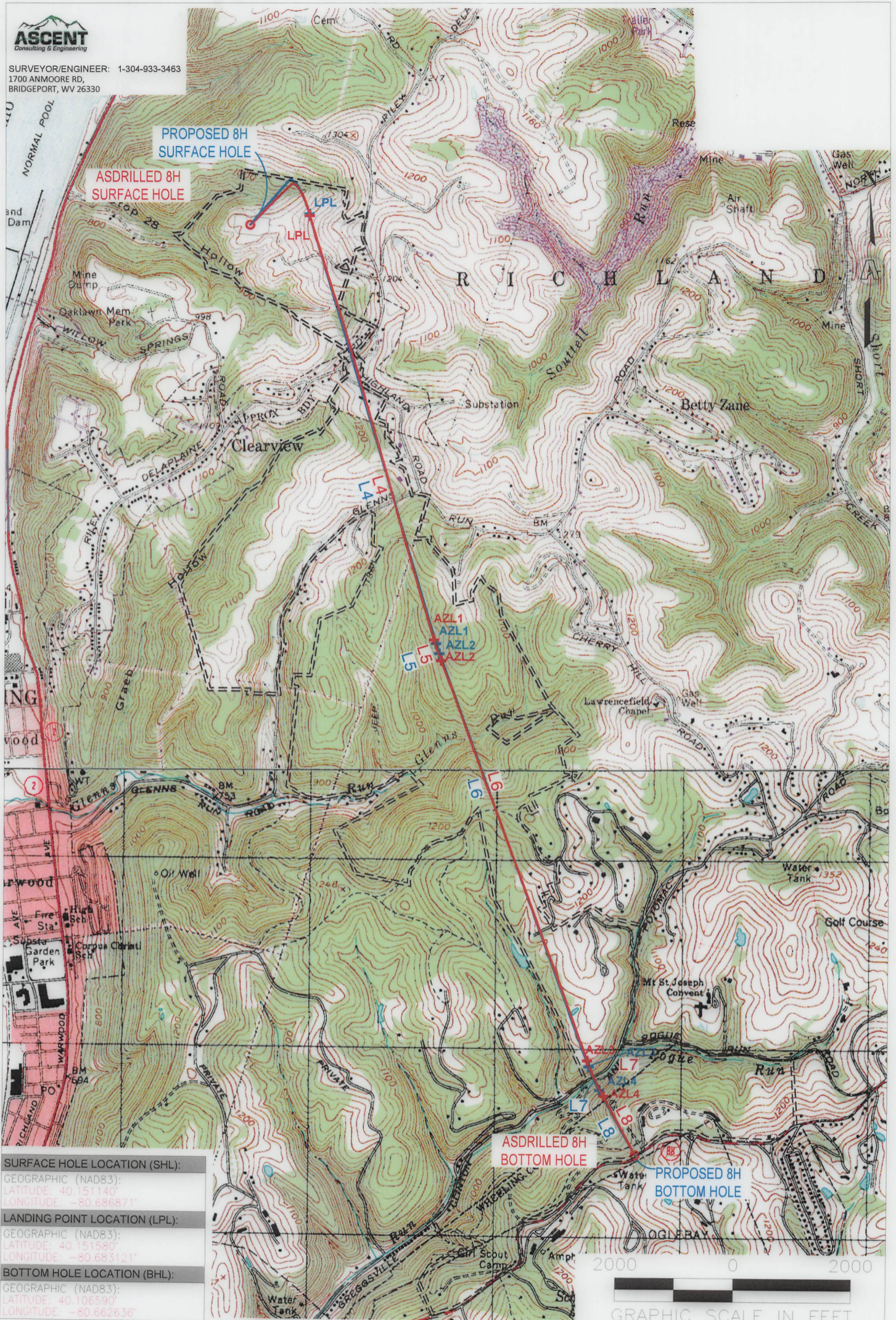
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

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

RECEIVED
Office of Oil and Gas
JUL 10 2023
WV Department of
Environmental Protection



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330



SURFACE HOLE LOCATION (SHL):

GEOGRAPHIC (NAD83):
 LATITUDE: 40.151140°
 LONGITUDE: -80.686871°

LANDING POINT LOCATION (LPL):

GEOGRAPHIC (NAD83):
 LATITUDE: 40.151580°
 LONGITUDE: -80.683121°

BOTTOM HOLE LOCATION (BHL):

GEOGRAPHIC (NAD83):
 LATITUDE: 40.106590°
 LONGITUDE: -80.662636°

NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- 3.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊙ EXISTING / PRODUCING WELLHEAD
- LPL × LANDING POINT LOCATION
- W EXISTING WATER WELL
- S EXISTING SPRING

- SURVEYOR BOUNDARY
- LEASE BOUNDARY
- ASDRILLED PATH
- PROPOSED PATH
- DHP BUFFER



WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: ROTH OHI	WELL # 8H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201	COUNTY - CODE OHIO - 35	DISTRICT: RICHLAND	API: 47-069-00348
SURFACE OWNER: ROTH FARMS, LLC	USGS 7 1/2 QUADRANGLE MAP NAME TILTONSVILLE		

LATITUDE: 40°10'00" SURFACE HOLE 5,646'

LATITUDE: 40°07'30"

BOTTOM HOLE 10525'



SURVEYOR/ENGINEER: 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,579.468 EASTING: 526,669.625

LANDING POINT (LPL):

UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,629.415 EASTING: 526,988.800

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS): NORTHING: 4,439,642.263 EASTING: 528,752.510

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,579.480 EASTING: 526,669.743

LANDING POINT (LPL):

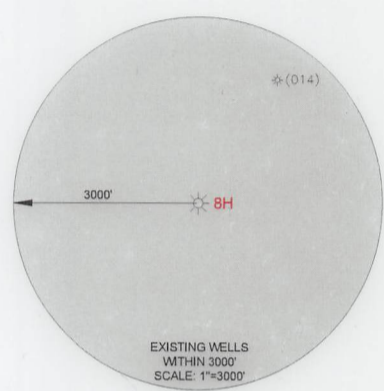
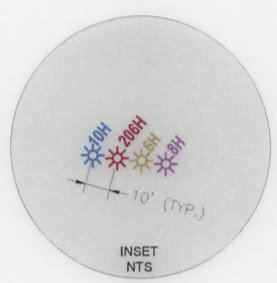
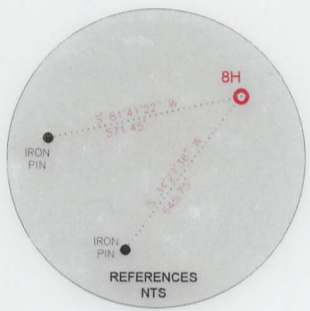
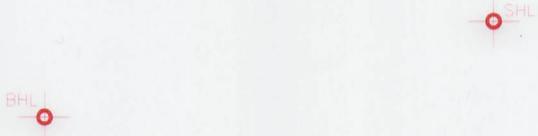
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,637.297 EASTING: 526,986.032

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS): NORTHING: 4,439,642.435 EASTING: 528,752.986

Table with columns: LINE, BEARING, DISTANCE, CURVE LENGTH, DESCRIPTION. Contains data for lines L3 through L8.

Table with columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT. Contains data for lines L1 and L2.



WELL RESTRICTIONS

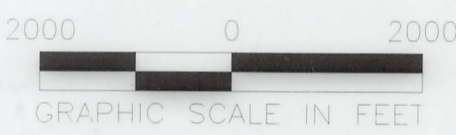
- 1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE 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. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE WV NORTH ZONE NAD '83.
2. WELL LAT./LONG ESTABLISHED BY DIRECT GPS NAD '83.
3. BOUNDARIES SHOWN ARE TAKEN FROM TAX MAPS, DEEDS, AND FIELD SURVEY. THIS DRAWING IS NOT REPRESENTATIVE OF A FULL BOUNDARY SURVEY.
4. SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF OHIO COUNTY IN OCTOBER OF 2021.
5. WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.

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.

Signature of Michael R. Hyman, dated 04/21/2023.



COMPANY: SWN Production Company, LLC



WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034

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

OPERATOR'S WELL #: ROTH OHI 8H API WELL #: 47 069 00348 STATE COUNTY PERMIT

Form with fields for WELL TYPE, WATERSHED, DISTRICT, SURFACE OWNER, OIL & GAS ROYALTY OWNER, DRILL options, and TARGET FORMATION.

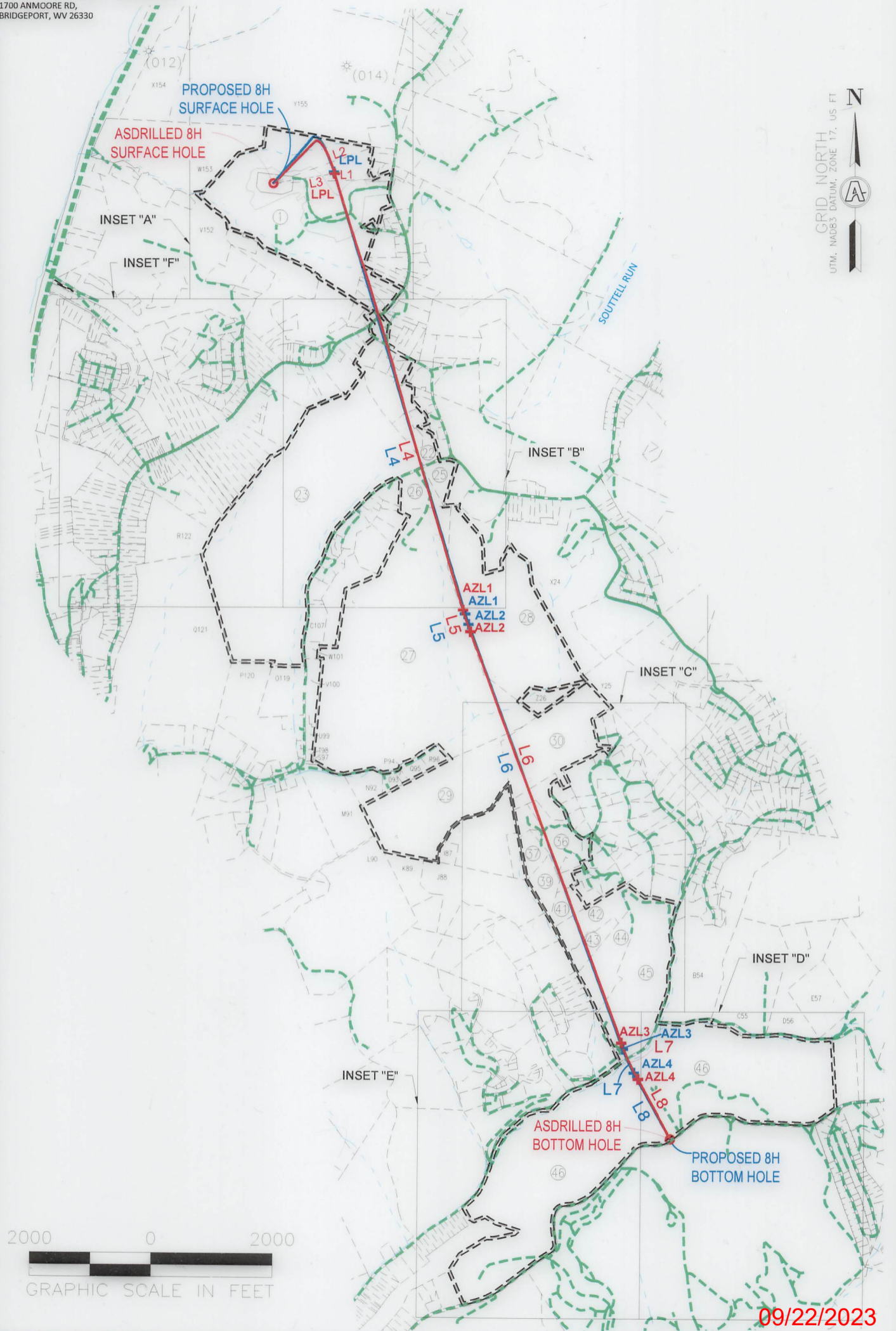
Form with fields for WELL OPERATOR, ADDRESS, CITY, STATE, ZIP CODE, DESIGNATED AGENT, and CITY, STATE, ZIP CODE.

LEGEND table with symbols for Proposed Surface Hole, Existing Wellhead, LPL, Existing Water Well, Existing Spring, Surveyed Boundary, Drilling Unit, Lease Boundary, Asdrilled Path, Proposed Path, DHP Buffer, and Revisions.



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330

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



09/22/2023

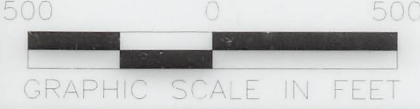
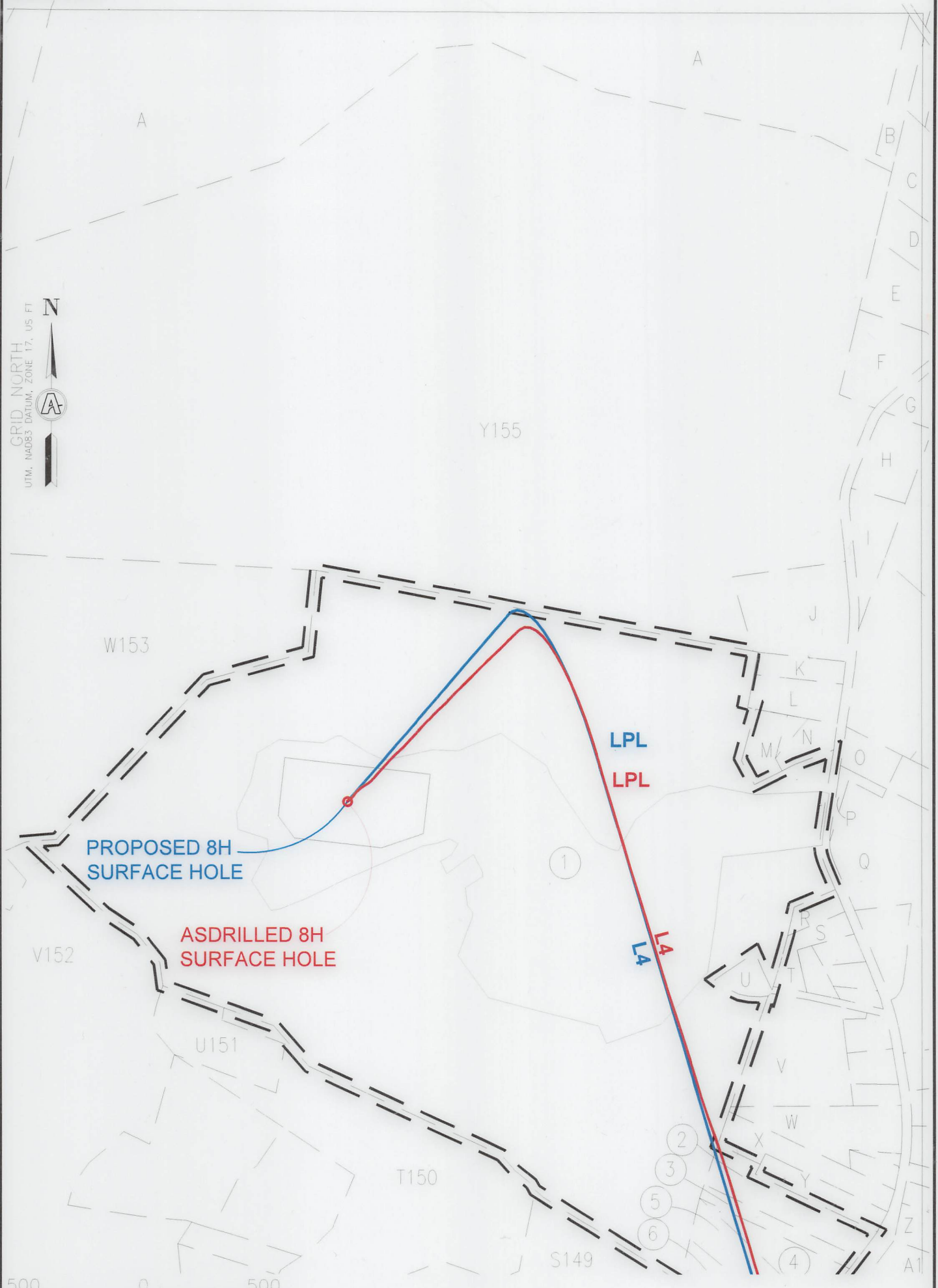
REVISIONS:
▲ REVISED TRACT 2 04-03-2023
▲ REVISED SCALE 04-20-2023

COMPANY:			
OPERATOR'S	ROTH OHI	API:	47-069-00348
WELL #:	8H	DATE:	04/21/2023
DISTRICT:	RICHLAND	STATE:	WV
COUNTY:	OHIO	DRAWN BY:	TMF
		SCALE:	1"=500'
		DRAWING NO.:	ACE-2598
		WELL LOCATION PLAT:	2



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330

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



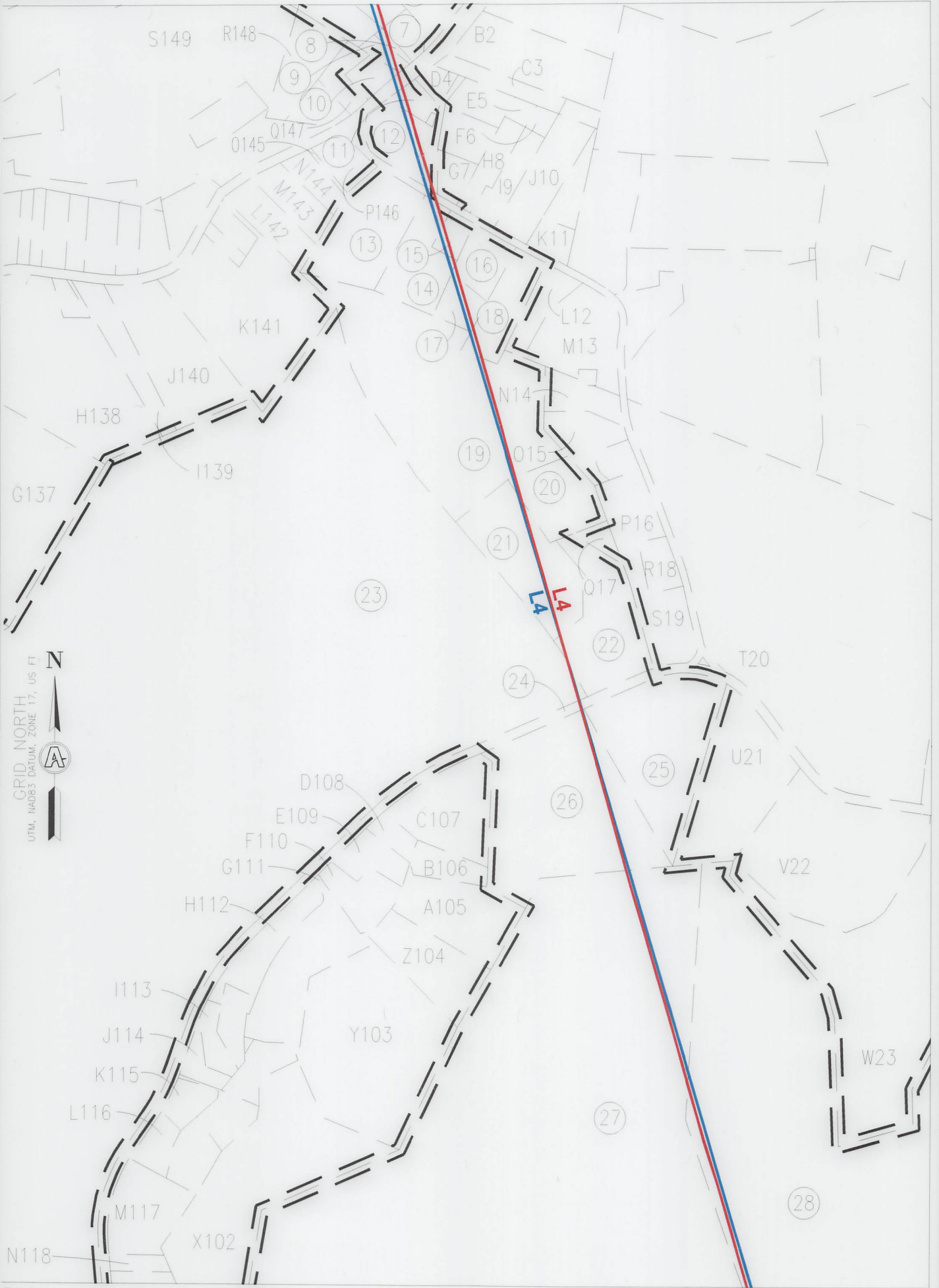
INSET "A"

09/22/2023

REVISIONS: ▲ REVISED TRACT 2 04-03-2023 ▲ REVISED SCALE 04-20-2023		COMPANY: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <b style="font-size: 1.5em;">SWN Production Company, LLC </div> <div style="text-align: center;"> <b style="font-size: 1.5em;">swn ^{R+} ^A ^{V+} ^o Production Company™ </div> </div>	
OPERATOR'S	ROTH OHI	API:	DATE: 04/21/2023
WELL #:	8H	47-069-00348	DRAWN BY: TMF
DISTRICT:	COUNTY:	STATE:	SCALE: 1"=500'
RICHLAND	OHIO	WV	DRAWING NO: ACE-2598
			WELL LOCATION PLAT 3



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330



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



INSET "B"

09/22/2023

REVISIONS: Δ REVISED TRACT 2 04-03-2023 Δ REVISED SCALE 04-20-2023		COMPANY: <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> SWN Production Company, LLC </div> <div style="text-align: center;"> SWN ^{R²} ^A ^{V⁺} ⁰ Production Company™ </div> </div>	
OPERATOR'S ROTH OHI		API: 47-069-00348	DATE: 04/21/2023
WELL #: 8H		DRAWN BY: TMF	
DISTRICT: RICHLAND		COUNTY: OHIO	SCALE: 1"=500'
		STATE: WV	DRAWING NO: ACE-2598
			WELL LOCATION PLAT 4



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330



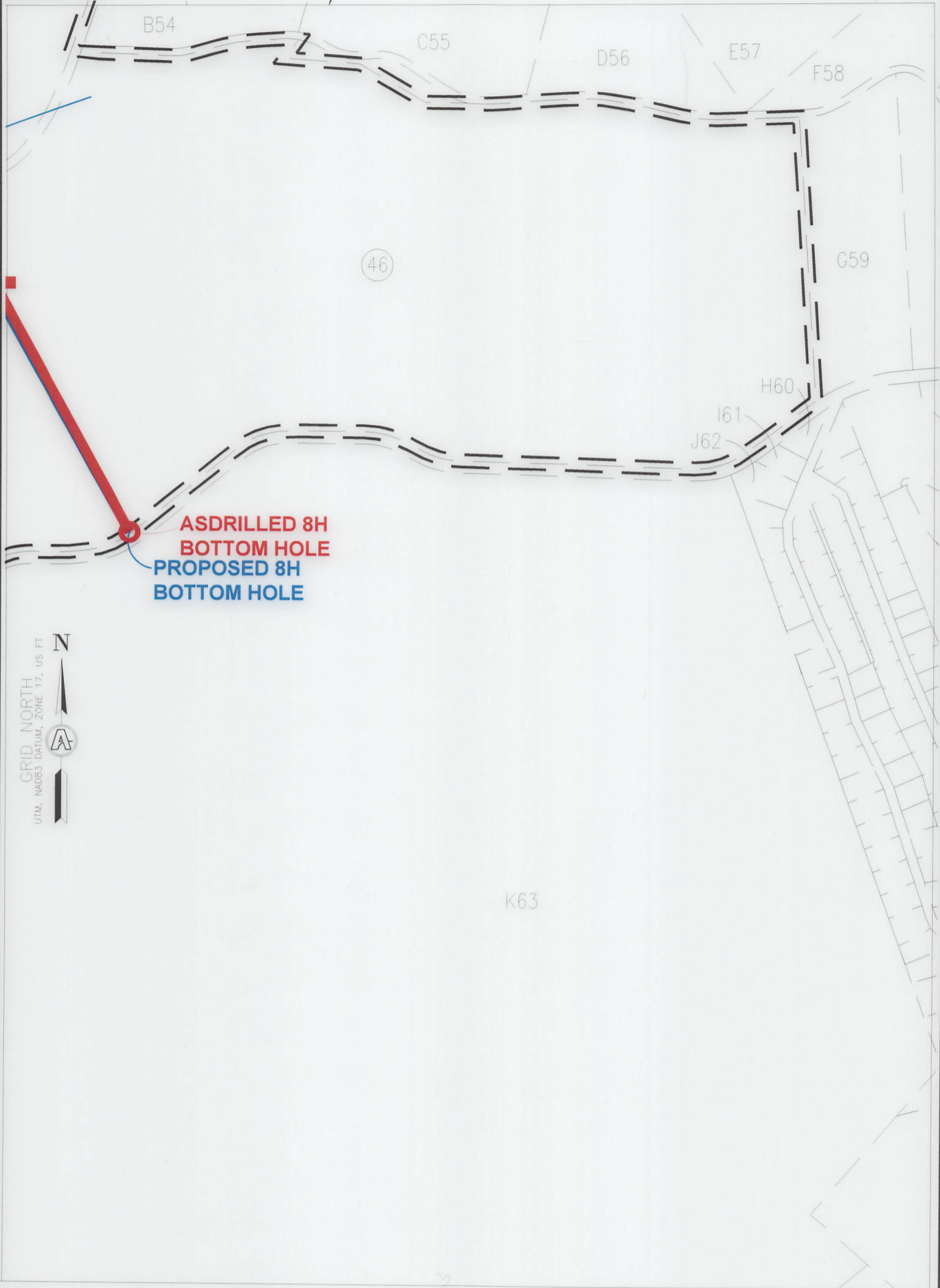
INSET "C"

09/22/2023

REVISIONS: ▲ REVISED TRACT 2 04-03-2023 ▲ REVISED SCALE 04-20-2023		COMPANY: <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> SWN Production Company, LLC </div> <div style="text-align: center;"> SWN ^{R⁺} ^{V⁺} Production Company™ </div> </div>	
OPERATOR'S	ROTH OH	API:	DATE: 04/21/2023
WELL #:	8H	47-069-00348	DRAWN BY: TMF
DISTRICT:	COUNTY:	STATE:	SCALE: 1"=500'
RICHLAND	OHIO	WV	DRAWING NO: ACE-2598
			WELL LOCATION PLAT 5



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330



INSET "D"

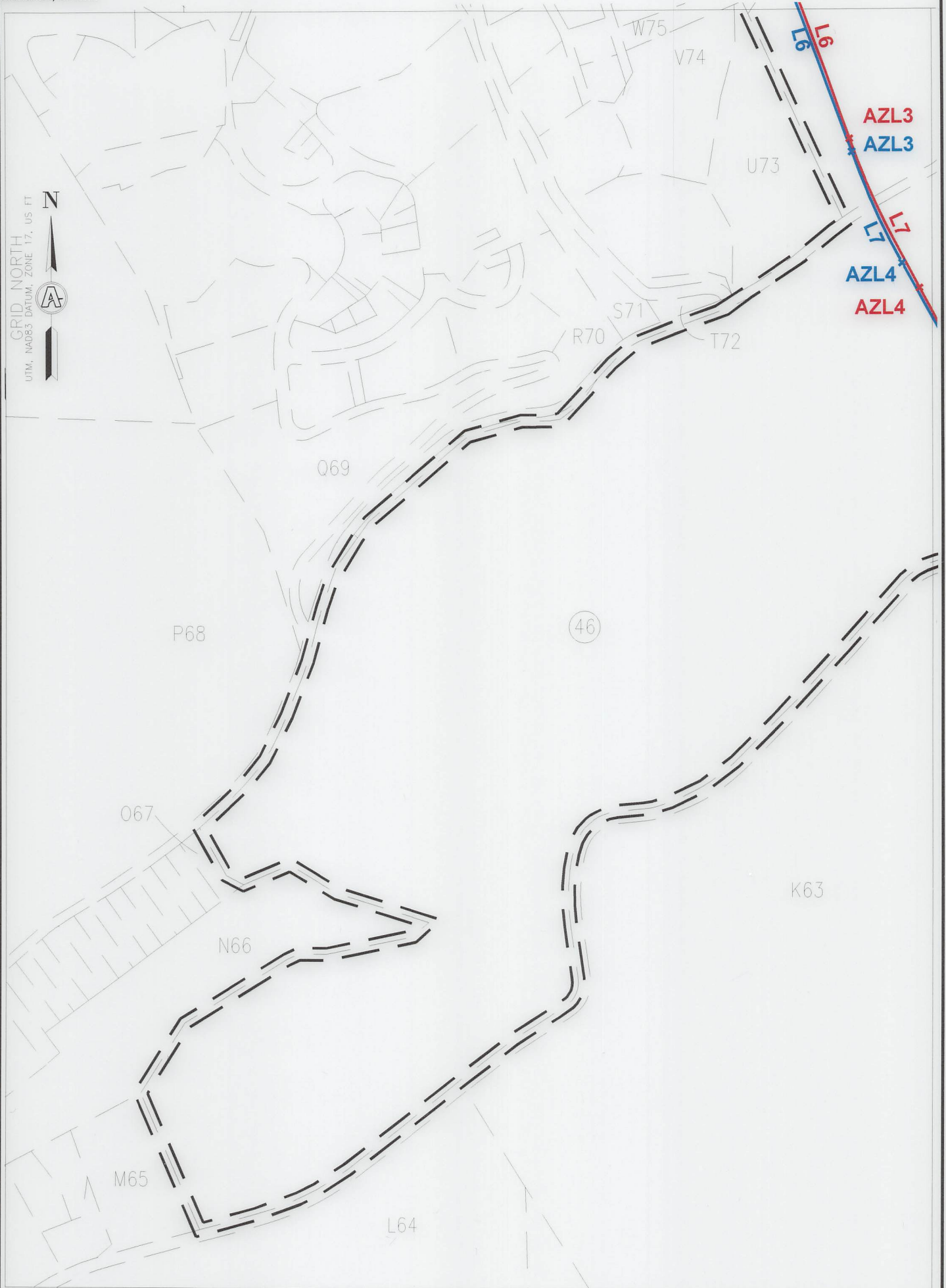
09/22/2023

REVISIONS:
△ REVISED TRACT 2 04-03-2023
△ REVISED SCALE 04-20-2023

COMPANY:			
OPERATOR'S		ROTH OHI	
WELL #:		8H	
DISTRICT:		COUNTY:	
RICHLAND		OHIO	
		STATE:	
		WV	
		API:	
		47-069-00348	
		DATE:	
		04/21/2023	
		DRAWN BY:	
		TMF	
		SCALE:	
		1"=500'	
		DRAWING NO:	
		ACE-2598	
		WELL LOCATION PLAT:	
		6	



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD.
 BRIDGEPORT, WV 26330



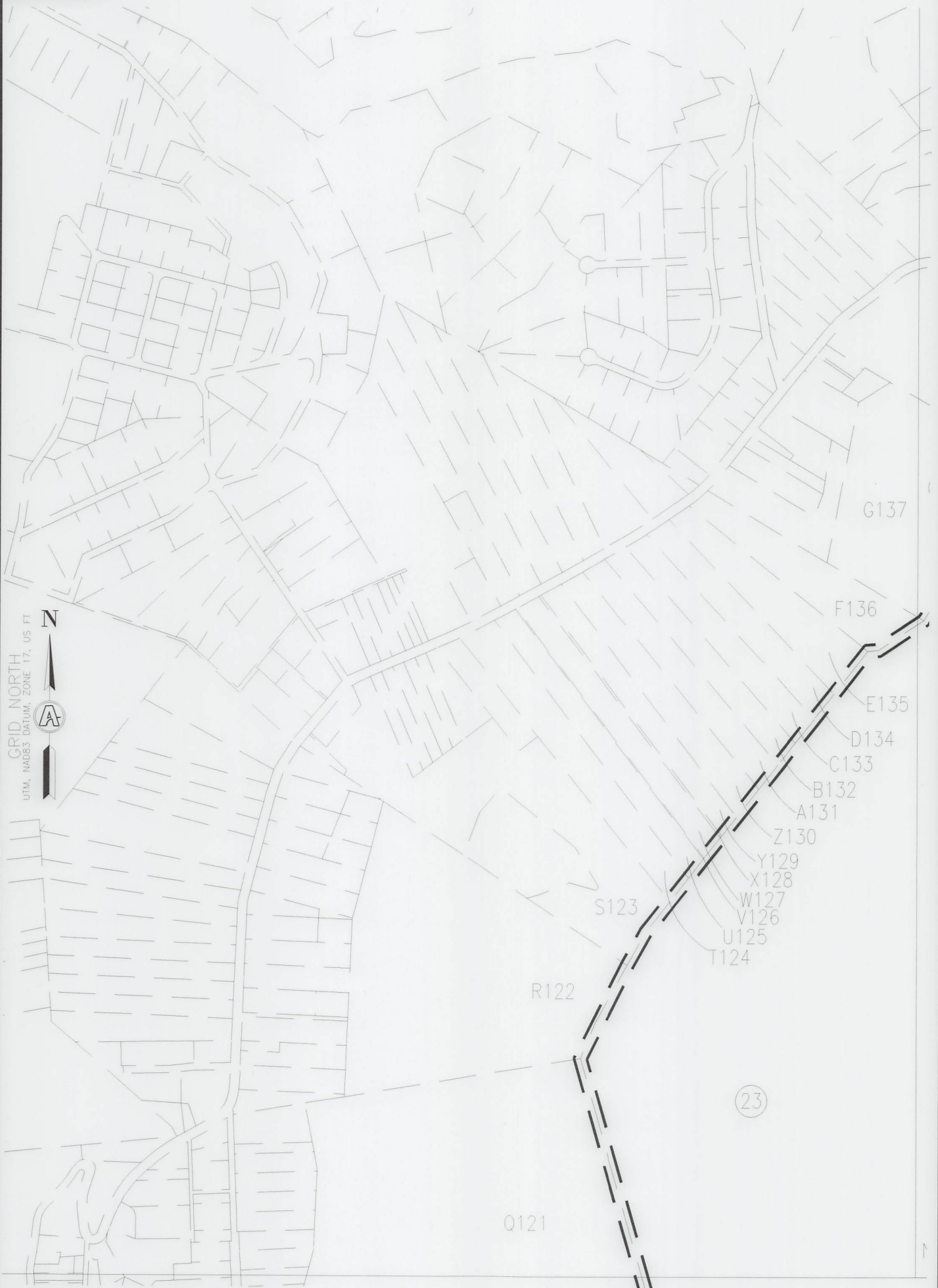
INSET "E"

09/22/2023

REVISIONS: ▲ REVISED TRACT 2 04-03-2023 ▲ REVISED SCALE 04-20-2023		COMPANY: 	
OPERATOR'S ROTH OHI		API: 47-069-00348	DATE: 04/21/2023
WELL #: 8H		DRAWN BY: TMF	
DISTRICT: RICHLAND	COUNTY: OHIO	STATE: WV	SCALE: 1"=500' DRAWING NO: ACE-2598 WELL LOCATION PLAT 7



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330



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



INSET "F"

09/22/2023

REVISIONS: ▲ REVISED TRACT 2 04-03-2023 ▲ REVISED SCALE 04-20-2023	COMPANY: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> SWN Production Company, LLC </div> <div style="text-align: center;"> Production Company™ </div> </div>		
	OPERATOR'S ROTH OHI WELL #: 8H	API: 47-069-00348	DATE: 04/21/2023
DISTRICT: RICHLAND	COUNTY: OHIO	STATE: WV	DRAWN BY: TMF SCALE: 1"=500' DRAWING NO: ACE-2598 WELL LOCATION PLAT 8



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD.
 BRIDGEPORT, WV 26330

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S)/ROYALTY OWNER (R)	TAX PARCEL
1	ROTH FARMS, LLC (S)/ROTH FARMS, LLC (R)	4-R7-24
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	ROGERSON BENTON L SR & K S	2-CV1-2
3	SHEARER PHILLIP G & CINDY M	2-CV1-1
4	QUINN JOHN THOMAS	2-CV4-7
5	QUINN THOMAS F & SUE ANN TAYLOR	2-CV4-7.4
6	BENNER SUZANNE J & JAMES T BENNER	2-CV4-7.5
7	QUINN THOMAS F & SUE ANN TAYLOR	2-CV4-7.3
8	BENNER SUZANNE J & JAMES T BENNER	2-CV4-7.2
9	BENNER SUZANNE J & JAMES T BENNER	2-CV4-7.1
10	SHEARER PHILLIP G & C M	2-CV4-6
11	SNYDER KRISTIN M & KERRI M	2-CV4-11.4
12	MCKINNEY RANDALL & VIRGINIA	2-CV4-9
13	SZALAY PATRICIA L	2-CV4-17.2
14	WELLS CAROLE	2-CV4-17
15	WELLS CAROLE	2-CV4-17.4
16	CZAHORSKI MELISSA DANIELLE	2-CV4-17.3
17	WELLS CAROLE	2-CV4-17.5
18	WELLS CAROLE C	2-CV4-17.1
19	HESTIA LLC	4-R8-65.1
20	WEEKLY WILLIAM & CIERA	4-R8-65.3
21	GLENN VIEW LIMITED PARTNERSHIP	4-R8-65.4
22	GLENN VIEW II LIMITED PARTNERSHIP	4-R8-68
23	WARWOOD LAND CO LLC	4-R7-31
24	STATE OF WV, DEPARTMENT OF HIGHWAYS	CHERRY HILL ROAD
25	MEREDITH DONALD R II AND JULIE	4-R8-69.1
26	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R8-70
27	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R10-31
28	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R8-52
29	GOLDEN CHRISTOPHER SCOTT GOLDEN BRANDACE LYNN	4-R11-2.4
30	PENN HOLDING LIMITED LIABILITY COMPANY	4-R11-6.3
31	KURTZ PENN L & J S	4-R11-6.1
32	KURTZ PENN L & JEAN S	4-R11-6.14
33	TIU JEREMY J & MELISSA J	4-R11-6.19
34	TIU JEREMY J & MELISSA J	4-R11-6.18
35	PENNINGTON EDWARD B & E A	4-R11-6
36	BLOCH S STEPHENSON	4-R11-56
37	GEBHARDT ROBERT T & CANDACE A	4-R11-6.16
38	BLOCH S STEPHENSON	4-R11P-5.7
39	BLOCH STUART STEPHENSON & KATHY J BLOCH	4-R11-6.17
40	SPOOR KERRI	4-R11P-5
41	SHATS DANIEL & LISA	4-R11P-5.4
42	BLISS CHARLIE A SR BLISS MARY ELLEN	4-R14-90.2
43	JONES WILBUR S JR JEFFERSON JOYCE P	4-R14-90.3
44	JONES WILBUR S JR AND JEFFERSON JOYCE P	4-R14-90.1
45	JONES WILBUR S JR JEFFERSON JOYCE P	4-R14-90
46	CITY OF WHEELING	4-R14-15

09/22/2023

REVISIONS: ▲ REVISED TRACT 2 04-03-2023 ▲ REVISED SCALE 04-20-2023	COMPANY: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> </div>	
	OPERATOR'S WELL #: DISTRICT: RICHLAND	ROTH OHI 8H COUNTY: OHIO
		DATE: 04/21/2023 DRAWN BY: TMF SCALE: N/A DRAWING NO: ACE-2598 WELL LOCATION PLAT 9



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S)/ROYALTY OWNER (R)	TAX PARCEL
1	ROTH FARMS, LLC (S)/ROTH FARMS, LLC (R)	4-R7-24
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	ROGERSON BENTON L SR & K S	2-CV1-2
3	SHEARER PHILLIP G & CINDY M	2-CV1-1
4	QUINN JOHN THOMAS	2-CV4-7
5	QUINN THOMAS F & SUE ANN TAYLOR	2-CV4-7.4
6	BENNER SUZANNE J & JAMES T BENNER	2-CV4-7.5
7	QUINN THOMAS F & SUE ANN TAYLOR	2-CV4-7.3
8	BENNER SUZANNE J & JAMES T BENNER	2-CV4-7.2
9	BENNER SUZANNE J & JAMES T BENNER	2-CV4-7.1
10	SHEARER PHILLIP G & C M	2-CV4-6
11	SNYDER KRISTIN M & KERRI M	2-CV4-11.4
12	MCKINNEY RANDALL & VIRGINIA	2-CV4-9
13	SZALAY PATRICIA L	2-CV4-17.2
14	WELLS CAROLE	2-CV4-17
15	WELLS CAROLE	2-CV4-17.4
16	CZAHOROSKI MELISSA DANIELLE	2-CV4-17.3
17	WELLS CAROLE	2-CV4-17.5
18	WELLS CAROLE C	2-CV4-17.1
19	HESTIA LLC	4-R8-65.1
20	WEEKLY WILLIAM & CIERA	4-R8-65.3
21	GLENN VIEW LIMITED PARTNERSHIP	4-R8-65.4
22	GLENN VIEW II LIMITED PARTNERSHIP	4-R8-68
23	WARWOOD LAND CO LLC	4-R7-31
24	STATE OF WV, DEPARTMENT OF HIGHWAYS	CHERRY HILL ROAD
25	MEREDITH DONALD R II AND JULIE	4-R8-69.1
26	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R8-70
27	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R10-31
28	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R8-52
29	GOLDEN CHRISTOPHER SCOTT GOLDEN BRANDACE LYNN	4-R11-2.4
30	PENN HOLDING LIMITED LIABILITY COMPANY	4-R11-6.3
31	KURTZ PENN L & J S	4-R11-6.1
32	KURTZ PENN L & JEAN S	4-R11-6.14
33	TIU JEREMY J & MELISSA J	4-R11-6.19
34	TIU JEREMY J & MELISSA J	4-R11-6.18
35	PENNINGTON EDWARD B & E A	4-R11-6
36	BLOCH S STEPHENSON	4-R11-56
37	GEBHARDT ROBERT T & CANDACE A	4-R11-6.16
38	BLOCH S STEPHENSON	4-R11P-5.7
39	BLOCH STUART STEPHENSON & KATHY J BLOCH	4-R11-6.17
40	SPOOR KERRI	4-R11P-5
41	SHATS DANIEL & LISA	4-R11P-5.4
42	BLISS CHARLIE A SR BLISS MARY ELLEN	4-R14-90.2
43	JONES WILBUR S JR JEFFERSON JOYCE P	4-R14-90.3
44	JONES WILBUR S JR AND JEFFERSON JOYCE P	4-R14-90.1
45	JONES WILBUR S JR JEFFERSON JOYCE P	4-R14-90
46	CITY OF WHEELING	4-R14-15

09/22/2023

REVISIONS: ▲ REVISED TRACT 2 04-03-2023 ▲ REVISED SCALE 04-20-2023	COMPANY: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> </div>	
	OPERATOR'S WELL #: DISTRICT:	ROTH OHI 8H COUNTY: OHIO
		DATE: 04/21/2023 DRAWN BY: TMF SCALE: N/A DRAWING NO: ACE-2598 WELL LOCATION PLAT 9



SURVEYOR/ENGINEER: 1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER (S)	TAX PARCEL
A	HEART 2 HEART VOLUNTEERS INC	4-R4-05
B	BOYD ROBERT JEFFREY & CHERYLL	4-R5-24
C	OLEJASZ JOSEPH R JR	4-R5-34
D	OLEJASZ JOSEPH R JR	4-R5-35
E	KUCERA CARL J & SHARON L	4-R5-35.2
F	PAVELICH-SWIGER SHERRI J PAVELICH JEFFREY M	4-R5-35.1
G	WEIGAND PAUL & REBECCA FAMILY TRUST	4-R5-40.1
H	SCHELL RICHARD A & N	4-R8-1.1
I	HABERFIELD WAYNE K & D A	4-R8-1
J	MCCLURE WM H & MARGARET A	4-R7-26.1
K	LEFKAY SCOTT A & TRACY L	4-R8-2.3
L	FELDNER CHARLENE M - TOD	4-R8-2.1
M	MCCLURE WM H & MARGARET A	4-R7-26.1
N	FELDNER CHARLENE M - TOD	4-R8-2.1
O	MCKEE JAMES F JR & EILEEN B	4-R8-4.14
P	MCKEE JAMES F JR & EILEEN B	4-R8-77
Q	TUNNEL RIDGE LLC	4-R8-4.18
R	KUCERA USA A	4-R8-4.8
S	HELDEFER GEORGE W	4-R8-4.7
T	CAMPBELL ALLEN B	4-R8-4.9
U	CALDWELL SHANE AND SUZANNE	4-R8-78
V	CLARK JOHN M & B C	4-R8-4.10
W	CLEGG R E & J L	2-CV1-5
X	TOMAC ROBERT C JR	2-CV1-4
Y	DANEHART CHARLES D & JO ANN	2-CV1-3
Z	CUNNINGHAM H SCOTT & SALLY A	4-R11-6.10
A1	BLOSSER SCOTT A AND LAURA R	4-R11-6.12
B2	TRACY JOHN A & M A	2-CV4-21.3
C3	TUNNEL RIDGE LLC	2-CV4-8
D4	SNYDER FRANKLIN J (RTO); SNYDER KRISTIN & KERRI SNYDER	2-CV4-11.2
E5	TUNNEL RIDGE LLC	2-CV4-12.1
F6	GUZZI COREY A & BRITTANY N	2-CV4-13.1
G7	MCKENZIE SEAN Z & KRISTI L	2-CV4-14
H8	TUNNEL RIDGE LLC	2-CV4-12
I9	GUZZI COREY A & BRITTANY N	2-CV4-13
J10	STANLEY GEORGE D & SUSAN M	2-CV4-14.1
K11	MCKENZIE SEAN Z & KRISTI L	2-CV4-14
L12	KNUTH MARK A & J M	2-CV4-16.1
M13	KIMPEL TODD E & JOYCE E	2-CV4-16
N14	RCK 2 GROUP LLC ATTN KAYLEEN FITZSIMMONS	4-R8-64
O15	JOHN JOSEPH J & KAREN M	4-R8-65.2
P16	DUYMICH JENNIFER L & DAVID	4-R8-66
Q17	HESTIA LLC	4-R8-65.1
R18	KARNELL WILLIAM H & JENNIFER	4-R8-66.1
S19	DUYMICH JENNIFER L & DAVID	4-R8-66
T20	TUNNEL RIDGE LLC	4-R8-67
U21	MEREDITH DONALD R II AND J K	4-R8-69.3
V22	MEREDITH RICHARD T AND S F	4-R8-69
W23	FROME STEPHEN D & REBECCA T-LE FROME S & R IRREVOCABLE TRUST	4-R8-69.2
X24	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R8-53
Y25	JONES ROBERT E MD INC	4-R11-16.3
Z26	MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC	4-R11-11
A27	JONES ROBERT E MD INC	4-R11-16.3
B28	CUCHTA B WILLIAM III & REBECCA	4-R11-6.9
C29	CUNNINGHAM H SCOTT & SALLY A	4-R11-6.10
D30	BLOSSER SCOTT A AND LAURA R	4-R11-6.12
E31	REISINGER JAMES J & BARBARA J	4-R11-6.11
F32	WURTZBACHER JOHN J & ROXANNE B	4-R11-6.8
G33	SERENITY RD PERSONAL RESIDENCE TRUST-GEARY RICHARD C JR TTEE	4-R11-6.13
H34	GULLO GAYE R	4-R11K-24.3
I35	FAMILY TRUST OF JOHN R & AGNES T ARSLAIN (TRUSTEES)	4-R11K-34
J36	NEIS THOMAS	4-R11-6.2
K37	TURAK JONATHAN E & ROSELYN	4-R11K-1
L38	TURAK JONATHAN E & R	4-R11K-1.1
M39	BISCHOF DEBORAH L & LEE	4-R11K-2
N40	WETZEL ROBERT & LAURA L	4-R11K-3
O41	GEORGES NANCY A	4-R11-38.1
P42	WARD JEREMY D & KAUFMAN AMANDA J	4-R11-38
Q43	GEORGES NANCY A	4-R11-6.6
R44	GEBHARDT YURKO JENNIFER TODD	4-R11P-5.8
S45	SPOOR KERRI	4-R11P-5.1
T46	SHATS DANIEL & LISA	4-R11P-5.5
U47	SIMMONS KIMBERLY A	4-R11P-5.2
V48	YURKO JENNIFER G & KARL E	4-R11P-4
W49	BORDAS LINDA M	4-R11K-12
X50	BORDAS LINDA M	4-R11P-1
Y51	BORDAS LINDA M	4-R11P-1.1
Z52	FITZSIMMONS ROBERT J	4-R11P-3

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER (S)	TAX PARCEL
A53	CARPENTER DAVID & KATHERINE R	4-R11-21.9
B54	SISTERS OF ST JOSEPH OF WHEELING INC	4-R11-21
C55	SISTERS OF ST JOSEPH OF WHG	4-R11-20
D56	PARKS SYSTEM TRUST FUND OF WHEELING	4-R11-21.3
E57	WHEELING PARK COMMISSION	4-R14-91
F58	WHEELING PARK COMMISSION	4-R14-20.4
G59	WHEELING PARK COMMISSION	4-R14-15.2
H60	HOSFELT WILLIAM J & PATRICIA HOSFELT ESTATES	10-W12D-2
I61	RANSOM CHARLES M & CRYSTAL G	10-W12D-1
J62	BURKE SUSAN R	10-W14D-1
K63	CITY OF WHEELING	4-R14-15
L64	ELM HILL HOLDINGS LLC	4-R14-14
M65	SCHULTZ JEFFREY S	4-R14-13
N66	WHEELING PARK COMMISSION	10-W17A-1
O67	PELUCETTE JOHN M & C L	4-R14J-1
P68	POLACK EDWARD P	4-R14-95
Q69	JOSEPH ELIAS E	4-R14A-53
R70	JOSEPH ELIAS E	4-R14A-53
S71	SCHMITT JAMES A	4-R14-4.6
T72	SCHMITT JAMES A	4-R14-4.5
U73	MELIA JOSEPH M & J M	4-R14-6.1
V74	BAUER ROY D & GISELE M	4-R14-5
W75	BAUER ROY D & GISELE	4-R14-4.4
X76	BAUER ROY D & GISELE	4-R14-4
Y77	FUTEY JR PAUL B AND DEBRA L	4-R14-4.3
Z78	SLIVCHENKO VADIM & OLENA	4-R14-2.1
A79	SLIVCHENKO VADIM & OLENA	4-R14-2
B80	HAND SCOTT A & CORRIE J	4-R14-3.1
C81	HAND SCOTT A & CORRIE J	4-R14-3
D82	HAND SCOTT A & CORRIE J	4-R11-2
E83	MANNING JACOB A & ADRIANNE L	4-R11-2.8
F84	DEFELICE LESLIE PAUL	4-R11-2.7
G85	GOLDEN CHRISTOPHER SCOTT BRANDACE LYNN	4-R11-2.13
H86	BLOCH STUART STEPHENSON & KATHY J BLOCH	4-R11-6.17
I87	DEFELICE LESLIE PAUL	4-R11-2.7
J88	DEFELICE LESLIE PAUL	4-R11-2.7
K89	DOYLE DANIEL T & LUCINDA E	4-R11-2.12
L90	MULL ELLEN CLARICE ET AL	4-R10-44.1
M91	NORTH FORK LANDFILL INC	4-R10-43
N92	MCGLAUGHLIN DENNIS & S	4-R7-30
O93	CLEARVIEW VOL FIRE DEPT INC	2-CV6-34.1
P94	STEWART CAROL	2-CV6-28
Q95	BOPP VICTOR V III & DIANN	2-CV6-28.3
R96	JOSEPH BRADLEY R & JANETTE L	2-CV6-27.1
S97	NORTH FORK LANDFILL INC C/O SUSAN SARKIS	4-R10-39.1
T98	IAFRATE DAVID A	4-R10-39
U99	MCCARDLE STANLEY M JR & M	4-R10-36
V100	MCCARDLE STANLEY M JR & M	4-R10-35
W101	INTERSTATE DEV CORP C/O JACK FELTON CPA	4-R10-46
X102	JOHNSON JOHN	4-R10-29
Y103	MCLAUGHLIN HENRY J III	4-R10-29.1
Z104	JOHNSON STEVEN L & D T	4-R7-35.1
A105	FUGATE LOGAN DANIEL	4-R7-35
B106	NONI LLC	4-R7-34.1
C107	NONI LLC	4-R7-34
D108	JOHNSON MILDRED J	4-R7-33
E109	JOHNSON MILDRED J	4-R7-32
F110	JOHNSON MILDRED JOANN	4-R7-36
G111	JOHNSON JOHN	4-R10-29
H112	JOHNSON JOHN LLOYD	4-R7-39
I113	KYLE CHAD J & E A	4-R10-22
J114	NEWLAND DARRELL L	4-R10-22.3
K115	BROST RICHARD	4-R10-24.1
L116	WILSON CINDY L P & DANIEL-TOD	4-R10-26
M117	ERNEST RICHARD H JR & A L	4-R7-30
N118	BROOKS WILLIAM S C/O WESBANCO TRUST	4-R10-27.1
O119	BREIDING JOSHUA D & SARAH N	4-R10-20
P120	SARKIS SJ; ROHRIG RF; ROHRIG JR; ROHRIG RF TTEE	4-R10-19
Q121	NORTH FORK LANDFILL INC	4-R10-43
R122	MCLAUGHLIN DENNIS & S	4-R7-30
S123	CLEARVIEW VOL FIRE DEPT INC	2-CV6-34.1
T124	STEWART CAROL	2-CV6-28
U125	BOPP VICTOR V III & DIANN	2-CV6-28.3
V126	JOSEPH BRADLEY R & JANETTE L	2-CV6-27.1
W127	JOSEPH BRADLEY R & JANETTE L	2-CV6-27
X128	JOSEPH BRADLEY R & JANETTE L	2-CV6-27.2
Y129	LAING MARGARET T	2-CV6-26
Z130	KIRKSEY MARK R WEATHERSON NANCY (RES'V U/E)	2-CV6-22

09/22/2023

REVISIONS:

- △ REVISED TRACT 2 04-03-2023
- △ REVISED SCALE 04-20-2023

COMPANY:

SWN
Production Company, LLC

SWN ^{R2-V+0}
Production Company™

OPERATOR'S

ROTH OHI

API:

47-069-00348

DATE: 04/21/2023

WELL #:

8H

DRAWN BY: TMF

DISTRICT:

RICHLAND

COUNTY:

OHIO

STATE:

WV

SCALE: N/A

DRAWING NO: ACE-2598

WELL LOCATION PLAT 10



SURVEYOR/ENGINEER: 1-304-933-3463
 1700 ANMOORE RD,
 BRIDGEPORT, WV 26330

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER (S)	TAX PARCEL
A131	CONTRAGUERRO MICHAEL J & P A	2-CV6-24
B132	STEWART GREGORY L & JODI A	2-CV6-23
C133	GALIK JACOB A	2-CV6-22
D134	DAGRAVA TIMOTHY & MEGAN	2-CV6-21
E135	HLAD DOUGLAS M & LISA ANN	2-CV6-20
F136	STEWART LOGAN G	2-CV6-19
G137	SZALAY FRANCIS E & PL	2-CV3-13.1
H138	MYERS WILBERT E III & J S	2-CV3-13
I139	KLEIN JACK W JR & BRENDA J-TOD	2-CV4-22.1
J140	MURRAY BRYAN M AND JOAN C	2-CV4-22
K141	PAVLIK NICHOLAS D AND GLORIA K	2-CV4-21.2
L142	WILLEY JILL A	2-CV4-20
M143	SCAMMELL DAVID & SUSAN	2-CV4-19
N144	BONNER ANTHONY S & AMBER R WRIGHT	2-CV4-18.1
O145	BONNER ANTHONY S & WRIGHT AMBER R	2-CV4-18.2
P146	TURNER TERRY L	2-CV4-18
Q147	KENNEN CHARLOTTE J	2-CV4-5
R148	FEDORKE AARON P & FEDORKE RACHEL SUE	2-CV4-4.1
S149	FEDORKE AARON P & TIMOTHY J	2-CV4-3
T150	CITY OF WHEELING	4-R7-18
U151	HARTFILE GARY- TOD	4-R7-15.1
V152	CITY OF WHEELING	4-R7-18
W153	EDGE ALICE MAE - TOD	4-R7-23
X154	DONOHEW WILLIAM SCOTT & LAURA	4-R4-2.4
Y155	MCCLURE WM H & MARGA	4-R4-07

09/22/2023

REVISIONS: △ REVISED TRACT 2 04-03-2023 △ REVISED SCALE 04-20-2023	COMPANY: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> </div>		
	OPERATOR'S WELL #:	ROTH OHI 8H	API: 47-069-00348
DISTRICT: RICHLAND	COUNTY: OHIO	STATE: WV	DRAWN BY: TMF SCALE: N/A DRAWING NO: ACE-2598 WELL LOCATION PLAT 11