

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

API 47-051-02508 County Marshall District Union
Quad Moundsville Pad Name Serafin Ortiz Field/Pool Name Victory Field - Wet
Farm name Serafin Ortiz MSH Well Number 1H
Operator (as registered with the OOG) SWN Production Company LLC
Address PO Box 12359 City Spring State TX Zip 77391

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,426,672.663 Easting 524,998.827
Landing Point of Curve Northing 4,426,672.663 Easting 525,548.849
Bottom Hole Northing 4,430,974.543 Easting 523,810.718

Elevation (ft) 1,279 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 2024-01-08 Date drilling commenced 2024-5-4 Date drilling ceased 2024-5-16
Date completion activities began 2024-12-20 Date completion activities ceased 2025-1-31
Verbal plugging (Y/N) N Date permission granted N/A Granted by RECEIVED
Office Of Oil and Gas

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 414 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,168 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 0 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:


09/26/2025

API 47-051 - 02508

Farm name Serafin Ortiz MSH

Well number 1H

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	20.000	20.000	136		J-55/94.00		Y
Surface	17.500	13.375	826		J-55/54.50		Y
Coal							
Intermediate 1	12.250	9.625	2,425		J-55/36.00		Y
Intermediate 2							
Intermediate 3							
Production	8.500	5.500	22,210		P-110/20.00		Y
Tubing		2.875	22,222		P-110/6.50		
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	945	15.6	1.19	0	Surface	8
Coal							
Intermediate 1	Class A	871	15.6	1.18	0	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	4188	14.5	1.26	0	Surface	24
Tubing							

Drillers TD (ft) 22,222

Loggers TD (ft) 22,222

Deepest formation penetrated Marcellus

Plug back to (ft) 0

Plug back procedure N/A

Kick off depth (ft) _____

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: CENTRALIZERS - EVERY THIRD JOINT OF CASING

INTERMEDIATE: CENTRALIZERS - EVERY THIRD JOINT OF CASING

PRODUCTION: 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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API 47- 051 - 02508

Farm name **Serafin Ortiz MSH**

Well number 1H

PERFORATION RECORD

[illegible]

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

[illegible]

Please insert additional pages as applicable.

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Well number 1H

DEPTHS

OIL TEST ☐ Flow ☐ Pump

OPEN FLOW	Gas		Oil		NGL		Water		GAS MEASURED BY
	<u>6,771</u>	mcfpd	<u>1,376</u>	bpd	<u> </u>	bpd	<u>1,176</u>	bpd	☐ Estimated ☒ Orifice ☐ Pilot

[illegible]

Address	PO Box 12395	City	Spring	State	TX	Zip	77391-2359
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Address 9110 Grogans Mill Road City The Woodlands State TX Zip 77380

Address 110 Schlumberger Drive City Sugar Land State TX Zip 77478

Address PO Box 12395 City Spring State TX Zip 77391

Date 5/15/25

Attach copy of FRACFOCUS Registry

09/26/2025

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/20/2024
Job End Date:	01/31/2025
State:	West Virginia
County:	Marshall
API Number:	47-051-02508-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	SERAFIN ORTIZ MSH 1
Latitude:	39.990604
Longitude:	-80.707369
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6280.25
Total Base Water Volume (gal)*:	22238870
Total Base Non Water Volume:	73177.2



Water Source	Percent
Surface Water, < 1000TDS	76.44%
Produced Water	23.56%

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					
FERRIPLEX 80	Expand Completion Services	Iron Control Agent					
FSTI-CI-02	Expand Completion Services	Corrosion Inhibitor					
Hydrochloric Acid	Expand Completion Services	Solvent					
Plexslick CX 810	Expand Completion Services	Friction Reducer					
Sand	Expand Completion Services	Proppant					
Stimsolv SI 680 HC	Expand Completion Services	Scale Inhibitor					

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Tolcide 4 Frac 50	Expand Completion Services	Biocide					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	87.41575	
			Crystalline Silica, Quartz	14808-60-7	100.00000	12.43406	
			HYDROCHLORIC ACID	7647-01-0	37.00000	0.08240	
			Copolymer of 2-propenamide	Proprietary	60.00000	0.03132	
			Isoalkanes	64742-47-8	30.00000	0.02349	
			Ethoxylated Tridecanol	Proprietary	2.50000	0.00391	
			Phosphonium, tetrakis(hydroxymethyl)-, sulfate (2:1)	55566-30-8	50.00000	0.00253	
			Surfactant	Proprietary	3.00000	0.00235	
			Diethylenetriamine penta (methylene phosphonic acid)	15827-60-8	10.00000	0.00142	
			Sodium erythorbate	6381-77-7	98.00000	0.00117	
			Quaternary ammonium compounds, benzyl-C12-16- alkyldimethyl, chlorides	68424-85-1	10.00000	0.00051	
			Ethanol	64-17-5	1.50000	0.00025	
			Ammonium chloride	12125-02-9	5.00000	0.00021	
			Ethylene glycol	107-21-1	40.00000	0.00014	
			Cinnamaldehyde	104-55-2	19.00000	0.00006	
			1-Octanol	111-87-5	19.00000	0.00006	
			1-Decanol	112-30-1	19.00000	0.00006	
			N,N-Dimethylformamide	68-12-2	19.00000	0.00006	
			Triethyl phosphate	78-40-0	19.00000	0.00006	
			Poly(oxy-1,2-ethanediyl), .alpha.- (nonylphenyl)-.omega.- hydroxy-	9016-45-9	19.00000	0.00006	
			2-Butoxyethanol	111-76-2	10.00000	0.00003	
			Isopropyl alcohol	67-63-0	10.00000	0.00003	
			Tar bases, quinoline derivatives, benzyl chloride- quaternized	72480-70-7	10.00000	0.00003	

* 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%

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)

09/26/2025

Refresh	Wellbore Name	SERAFIN ORTIZ MSH 1 - Original Hole																		APE	S1015593	
	Operator	EXPAND OPERATING LLC																		Frac Company		
	Division	SOUTHWEST APPALACHIA																		Latitude	39.990604	
	Pad	EXPAND OPERATING LLC																		Longitude	-80.707359	
Frac String :		S.Sin 20# P-110 HP Production Casing Set at 22,210 ft																				
	Stage :	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
	Stage Cost:	\$30,362	\$37,983	\$35,689	\$42,256	\$36,551	\$51,933	\$40,075	\$35,953	\$35,321	\$37,613	\$36,915	\$44,556	\$36,778	\$36,599	\$35,461	\$35,632	\$34,738	\$34,918	\$33,636		
	Date :	12/20/2024	12/21/2024	12/21/2024	12/22/2024	12/23/2024	12/23/2024	12/24/2024	12/24/2024	12/25/2024	12/25/2024	12/26/2024	12/26/2024	12/27/2024	12/27/2024	12/28/2024	12/28/2024	12/29/2024	12/29/2024	12/29/2024		
	Top Perf (ft)	22,027	21,814	21,605	21,395	21,186	20,976	20,767	20,557	20,348	20,138	19,929	19,719	19,509	19,300	19,090	18,881	18,671	18,462	18,252		
	Btm Perf (ft)	22,122	21,991	21,781	21,572	21,362	21,153	20,943	20,734	20,524	20,315	20,105	19,896	19,686	19,476	19,267	19,057	18,848	18,638	18,429		
	Number of Perf Holes :	18	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36		
	Perf Hole ID (in)	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40		
	TVD (ft)	6,058	6,070	6,072	6,074	6,077	6,079	6,081	6,084	6,086	6,088	6,091	6,093	6,095	6,096	6,098	6,099	6,100	6,103	6,108		
	Capacity to Top Perf (bbls)	489	484	480	475	470	466	461	456	452	447	442	438	433	428	424	419	414	410	405		
	Capacity to Bottom Perf (bbls)	491	488	483	479	474	470	465	460	456	451	446	442	437	432	428	423	418	414	409		
	Survey (inclin-)	90.66	90.56	90.62	90.63	90.62	90.72	90.69	90.59	90.58	90.65	90.62	90.63	90.42	90.43	90.36	90.22	90.44	91.31	91.34		
	Mid-Perf (MD)	22,075	21,903	21,693	21,484	21,274	21,065	20,855	20,646	20,436	20,227	20,017	19,808	19,598	19,388	19,179	18,969	18,760	18,550	18,341		
	Pump Down Start Time:	12/20/24 14:38	12/21/24 1:46	12/21/24 19:00	12/22/24 18:41	12/23/24 6:38	12/23/24 20:16	12/24/24 6:47	12/24/24 20:21	12/25/24 8:17	12/25/24 18:37	12/26/24 6:04	12/26/24 16:11	12/27/24 1:49	12/27/24 16:58	12/27/24 21:33	12/28/24 8:51	12/28/24 21:36	12/29/24 9:36			
	Pump Down Stop Time:	12/20/24 15:05	12/21/24 3:37	12/21/24 20:20	12/22/24 20:18	12/23/24 7:13	12/23/24 20:50	12/24/24 7:06	12/24/24 20:37	12/25/24 8:34	12/25/24 19:16	12/26/24 6:39	12/26/24 17:11	12/27/24 12:34	12/27/24 13:19	12/27/24 23:45	12/28/24 9:05	12/28/24 22:02	12/29/24 9:53			
	Pumpdown Total Time:		0.45	0.82	1.33	0.57	0.58	0.57	0.30	0.52	0.28	0.55	0.58	0.50	0.58	0.35	0.53	0.23	0.60	0.28		
	Stage Start Time	12/20/24 12:05	12/20/24 15:45	12/21/24 3:37	12/21/24 20:30	12/22/24 10:18	12/23/24 7:43	12/23/24 20:50	12/24/24 7:06	12/24/24 20:38	12/25/24 8:34	12/25/24 19:10	12/26/24 6:39	12/26/24 17:11	12/27/24 12:34	12/27/24 13:19	12/27/24 23:45	12/28/24 9:05	12/28/24 22:02	12/29/24 9:53		
	Stage Stop Time	12/20/24 14:18	12/21/24 2:40	12/21/24 18:00	12/22/24 19:29	12/23/24 6:39	12/23/24 20:11	12/24/24 6:31	12/24/24 20:15	12/25/24 5:56	12/25/24 18:30	12/26/24 3:57	12/26/24 16:36	12/27/24 1:42	12/27/24 10:45	12/27/24 23:06	12/28/24 8:32	12/28/24 21:31	12/29/24 6:56	12/29/24 17:38		
	Total Stage time - (hrs)	2.22	11.59	12.42	23.15	10.36	12.98	9.68	13.17	9.05	9.94	8.80	11.97	8.53	11.79	8.78	12.12	8.90	7.76			
	WIHP (psi)	200	2,122	2,054	2,185	2,205	2,607	2,356	2,242	2,505	2,197	2,535	2,475	2,235	2,231	2,141	3,202	2,487	2,347	2,522		
	15 % HCl Acid (bbls)	33	33	33	33	33	33	33	33	33	33	18	57	18	18	18	18	18	18	18		
	Number of Perf Clusters	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
	Perf Spacing (ft)	47	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35		
	Pump down (bbls)		112	105	99	91	92	93	91	90	90	90	90	83	88	79	85	76	85	79		
	Frac Water (bbls)	7,708	7,810	7,863	8,184	7,511	8,962	8,268	7,217	7,325	7,226	7,008	10,435	6,102	8,151	6,931	7,666	7,041	7,462	7,611		
	Load to Recover (Total Vol Pumped) (bbls)	7,708	7,922	7,968	8,283	7,602	9,054	8,361	7,308	7,415	7,316	7,098	10,525	6,185	8,239	7,010	7,751	7,117	7,547	7,690		
	Slurry Volume (bbls)	7,905	8,311	8,387	8,682	8,005	9,464	8,770	7,691	7,814	7,709	7,491	10,933	6,505	8,636	7,403	8,162	7,521	7,951	8,109		
	100 Mesh (lbs)	85,630	156,180	151,650	147,530	155,380	146,110	150,830	150,560	152,210	150,460	153,270	151,610	152,830	150,490	147,600	148,660	150,420	149,610	151,580		
	20/40, 30/50, 30/70, & 40/70 (lbs)	106,870	216,860	219,500	224,460	217,340	223,780	218,820	210,720	215,720	216,500	213,780	221,580	210,120	218,580	212,660	217,320	211,460	217,180	220,520		
	Total Prop from Stim Int Prop Table (lbs)	192,500	373,040	371,150	371,990	372,720	369,890	369,650	361,280	367,930	366,960	367,050	373,190	362,950	369,070	360,260	365,980	361,880	366,790	372,100		
	Total Prop from StimStageTable (lbs)	192,500	373,040	371,150	371,990	372,720	369,890	369,650	361,280	367,930	366,960	367,050	373,190	362,950	369,070	360,260	365,980	361,880	366,790	372,100		
	Avg Rate (bbls/min)	73	81	85	75	91	61	77	80	84	81	80	76	78	75	78	92	80	84	94		
	Avg Pressure (psi)	8,293	7,433	8,164	8,527	8,450	8,394	7,747	6,923	7,887	7,066	7,345	8,650	7,567	7,859	8,045	8,461	7,551	7,863	8,934		
	Max Rate (bpm)	85	82	91	82	95	68	81	83	91	83	83	88	84	81	84	95	100	84	100		
	Max Pressure (psi)	8,602	8,762	8,997	11,331	9,644	10,401	8,988	8,009	8,929	11,313	8,592	9,950	8,475	8,871	8,878	9,025	8,755	8,479	8,901		
	Break Pressure (psi)	7,229	5,251	6,408	6,110	5,905	5,724	6,290	5,243	5,623	5,219	5,698	6,037	4,684	5,677	5,693	5,579	5,824	5,749	5,511		
	ISIP (psi)	3,905	4,307	4,494	4,415	5,294	4,328	5,160	4,401	4,804	4,423	4,403	4,704	4,412	4,856	4,102	4,693	4,564	5,188	4,421		
	FG (psi/ft)	1.07	1.13	1.16	1.15	1.29	1.13	1.27	1.15	1.21	1.15	1.15	1.19	1.15	1.22	1.10	1.19	1.17	1.27	1.15		
	Biocide (gal)	15	15	15	15	14	17	16	14	14	14	13	20	13	16	13	14	13	14	15		
	Corrosion Inhibitor (lbs)	3	3	3	3	3	6	3	3	3	3	2	5	2	2	2	2	2	2	2		
	Friction Reducer (gal)	8,078	8,271	7,743	8,631	7,903	9,461	7,588	7,615	7,732	7,632	7,390	9,910	6,450	5,938	5,671	6,159	4,748	7,699	7,378		
	HCL 15% (gal)	1,400	1,400	1,400	1,400	1,400	2,800	1,400	1,400	1,400	1,400	1,400	750	2,400	750	750	750	750	750	750		
	Scale Inhibitor (gal)	9	9	9	9	9	10	9	8	9	8	8	12	8	9	8	9	8	9	9		
	Breaker																					
	Average Density (SG)																					
	Average of pH																					
	Average of Conductivity																					
	Average of Calcium																					
	Average of Magnesium																					
	Average of Chlorides																					
	Average of Iron																					
	Average of Temp pH																					
	Average of Sulfide																					
	Fluid Density (lb/gal)																					
Frac																						
Pumpdown																						
HCl 15%																						
HCl 7.5%																						
Difference																						
Frac																						
PD																						
HCl																						

	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
	\$35,096	\$31,713	\$32,446	\$34,974	\$34,163	\$35,506	\$34,431	\$33,181	\$34,364	\$33,103	\$33,306	\$33,686	\$33,065	\$33,750	\$32,991	\$35,794	\$34,338	\$35,209	\$35,193	\$33,822	\$32,335	\$34,243	\$33,447
12/30/2024	12/30/2024	12/31/2024	12/31/2024	1/1/2025	1/1/2025	1/2/2025	1/2/2025	1/3/2025	1/3/2025	1/3/2025	1/4/2025	1/4/2025	1/5/2025	1/7/2025	1/8/2025	1/8/2025	1/9/2025	1/9/2025	1/10/2025	1/10/2025	1/11/2025	1/12/2025	1/12/2025
18,043	17,833	17,624	17,414	17,204	16,995	16,785	16,576	16,366	16,157	15,947	15,738	15,528	15,319	15,109	14,900	14,690	14,480	14,271	14,061	13,852	13,642	13,433	
18,219	18,010	17,800	17,591	17,381	17,172	16,962	16,752	16,543	16,333	16,124	15,914	15,705	15,495	15,286	15,076	14,867	14,657	14,447	14,238	14,028	13,819	13,609	
36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	
6,111	6,114	6,116	6,119	6,124	6,128	6,133	6,138	6,143	6,149	6,155	6,162	6,168	6,172	6,175	6,176	6,181	6,185	6,189	6,193	6,197	6,201	6,205	
400	396	391	387	382	377	373	368	363	359	354	349	345	340	335	331	326	321	317	312	307	303	298	
404	400	395	390	386	381	376	372	367	363	358	353	349	344	339	335	330	325	321	316	311	307	302	
90.35	90.75	90.78	91.00	91.01	91.34	91.33	91.41	91.45	91.82	91.69	91.77	91.58	91.04	90.11	90.37	91.48	90.94	90.91	91.22	91.76	90.85	91.12	
18,131	17,922	17,712	17,503	17,293	17,084	16,874	16,664	16,455	16,245	16,036	15,826	15,617	15,407	15,198	14,989	14,779	14,569	14,359	14,150	13,940	13,731	13,521	
12/29/24 17:45	12/29/24 4:37	12/30/24 12:01	12/31/24 11:15	12/31/24 21:45	1/1/25 9:25	1/1/25 19:45	1/2/25 6:44	1/2/25 21:40	1/2/25 7:20	1/2/25 22:27	1/4/25 8:21	1/4/25 21:48	1/4/25 7:38	1/4/25 21:07	1/4/25 12:13	1/4/25 18:28	1/4/25 18:41	1/10/25 1:15	1/10/25 11:21	1/10/25 13:21	1/11/25 16:30	1/12/25 0:28	1/12/25 12:04
12/29/24 18:18	12/29/24 5:07	12/30/24 22:30	1/1/25 11:38	1/31/24 22:15	1/1/25 9:49	1/1/25 20:10	1/2/25 7:15	1/2/25 9:25	1/2/25 7:49	1/2/25 21:48	1/4/25 8:45	1/4/25 22:30	1/4/25 5:03	1/4/25 22:29	1/4/25 12:25	1/4/25 18:58	1/4/25 18:58	1/10/25 1:50	1/10/25 13:40	1/11/25 16:34	1/12/25 0:51	1/12/25 12:23	
0.55	0.50	0.48	0.23	0.50	0.40	0.42	0.52	0.58	0.32	0.35	0.40	0.37	0.45	0.37	0.22	0.42	0.45	0.58	0.32	0.40	0.37	0.30	
12/29/24 18:18	12/29/24 5:07	12/30/24 22:30	1/1/25 11:38	1/31/24 22:15	1/1/25 9:49	1/1/25 20:10	1/2/25 7:15	1/2/25 9:25	1/2/25 7:49	1/2/25 21:48	1/4/25 8:45	1/4/25 22:30	1/4/25 5:03	1/4/25 22:29	1/4/25 12:25	1/4/25 18:58	1/4/25 18:58	1/10/25 1:50	1/10/25 13:40	1/11/25 16:34	1/12/25 0:51	1/12/25 12:23	
12/30/24 13:30	12/30/24 13:18	1/1/25 24 8:04	1/1/25 24 11:25	1/1/25 9:10	1/1/25 18:27	1/2/25 6:29	1/2/25 13:53	1/3/25 4:03	1/3/25 21:47	1/4/25 8:11	1/4/25 20:02	1/5/25 7:36	1/7/25 12:21	1/8/25 11:44	1/8/25 22:00	1/9/25 18:28	1/9/25 13:13	1/10/25 14:07	1/11/25 0:36	1/12/25 0:18	1/12/25 11:55	1/12/25 20:28	
9.21	8.19	9.58	9.94	10.92	9.63	10.32	6.63	3.63	13.97	8.38	11.28	7.93	62.30	9.25	9.58	18.58	1.55	10.28	10.77	7.75	11.07	8.27	
2,319	2,574	2,524	2,475	2,245	2,498	2,543	2,581	2,606	2,502	2,491	2,345	2,730	2,242	2,184	2,198	2,085	2,050	2,108	1,996	2,126	2,107	2,255	
18	18	18	18	18	18	18	18	18	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
80	79	80	51	78	70	77	76	74	56	70	69	68	65	68	45	65	65	64	58	97	61	55	
7,041	7,262	7,234	7,048	7,395	7,034	7,198	6,832	7,129	6,865	6,939	7,012	6,783	6,840	7,066	7,248	7,261	7,258	7,094	7,160	7,356	7,253	6,709	
7,121	7,341	7,314	7,099	7,473	7,104	7,275	6,908	7,203	6,921	7,009	7,081	6,851	6,905	7,134	7,293	7,326	7,323	7,158	7,218	7,453	7,314	6,764	
7,518	7,747	7,715	7,505	7,871	7,484	7,678	7,282	7,589	7,294	7,393	7,461	7,228	7,281	7,538	7,699	7,728	7,723	7,560	7,615	7,853	7,724	7,132	
149,250	152,790	149,110	147,190	142,250	152,820	147,790	131,420	131,260	126,920	132,140	128,640	134,560	135,690	138,520	129,340	127,160	125,480	130,880	129,880	128,740	132,020	128,180	
211,740	220,520	217,540	215,280	213,440	214,000	213,160	217,680	215,440	218,380	213,560	214,560	211,520	217,120	238,130	238,200	235,800	240,450	238,270	236,640	237,440	236,380	215,940	
360,990	373,310	366,650	362,470	355,690	366,820	360,950	349,100	346,700	345,300	345,700	343,200	346,080	352,810	366,650	367,540	362,960	365,930	369,150	366,520	366,180	368,400	344,120	
360,990	373,310	366,650	362,470	355,690	366,820	360,950	349,100	346,700	345,300	345,700	343,200	346,080	352,810	366,650	367,540	362,960	365,930	369,150	366,520	366,180	368,400	344,120	
80	76	80	83	90	89	94	83	89	82	84	84	81	80	89	94	94	89	92	89	55	95	79	
7,109	6,929	7,347	7,245	8,016	7,894	8,050	7,421	7,276	7,243	7,605	7,220	7,403	7,208	7,474	7,673	7,792	7,785	7,860	7,418	7,755	7,668	6,439	
82	79	87	84	100	100	100	91	92	89	91	91	85	90	95	99	100	90	95	90	100	100	81	
8,495	8,412	8,604	8,828	11,140	11,290	8,281	8,486	7,521	7,918	9,341	7,711	8,017	8,248	11,111	8,098	11,075	8,662	8,862	8,316	8,600	11,072	7,416	
6,116	6,197	5,852	5,588	5,722	5,919	5,120	6,179	5,610	2,460	4,660	5,894	6,167	6,080	5,850	5,566	5,599	5,997	5,860	4,668	5,810	5,379	5,463	
4,667	4,952	5,184	4,481	4,315	4,598	4,286	4,193	4,428	4,205	4,252	4,032	4,292	4,135	4,183	3,887	4,125	4,214	3,825	4,250	4,258	3,753	4,339	
1.19	1.23	1.27	1.16	1.13	1.18	1.13	1.11	1.15	1.11	1.12	1.09	1.13	1.10	1.11	1.06	1.10	1.12	1.05	1.12	1.12	1.04	1.14	
13	14	14	14	14	14	12	14	13	14	13	13	13	13	13	14	14	14	14	14	14	14	13	
2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
6,582	5,598	6,628	6,134	3,795	7,372	6,442	4,752	6,856	5,334	6,332	5,641	5,891	3,404	1,637	5,561	4,030	5,367	5,289	7,440	6,732	3,371	4,695	
750	750	750	750	750	750	750	750	750	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
8	9	8	8	9	8	8	8	8	8	8	8	8	8	8	8	8	9	8	9	8	9	8	

	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65
	\$33,284	\$34,928	\$34,455	\$34,406	\$36,123	\$34,892	\$35,186	\$31,716	\$34,009	\$32,618	\$30,995	\$34,350	\$31,846	\$32,923	\$32,039	\$34,439	\$34,959	\$33,047	\$34,189	\$33,236	\$34,374	\$31,568	\$33,555
1/15/2025	1/13/2025	1/13/2025	1/13/2025	1/14/2025	1/14/2025	1/15/2025	1/15/2025	1/15/2025	1/16/2025	1/16/2025	1/17/2025	1/17/2025	1/18/2025	1/19/2025	1/23/2025	1/24/2025	1/25/2025	1/26/2025	1/26/2025	1/27/2025	1/27/2025	1/28/2025	1/28/2025
15,223	13,014	12,804	12,595	12,385	12,175	11,966	11,756	11,547	11,337	11,128	10,919	10,709	10,499	10,290	10,080	9,871	9,661	9,451	9,242	9,032	8,823	8,613	
13,400	13,190	12,981	12,771	12,562	12,352	12,143	11,933	11,723	11,514	11,304	11,095	10,885	10,676	10,466	10,257	10,047	9,838	9,628	9,418	9,209	8,999	8,790	
36	36	36	36	36	36	36	36	36	36	30	36	36	36	36	36	36	36	36	36	36	36	36	
0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	
6,208	6,210	6,212	6,215	6,218	6,221	6,225	6,229	6,232	6,236	6,239	6,243	6,246	6,249	6,252	6,255	6,259	6,260	6,260	6,255	6,260	6,255	6,263	
293	289	284	280	275	270	266	261	256	252	247	242	238	233	228	224	219	214	210	205	200	196	191	
297	293	288	283	279	274	270	265	260	256	251	246	242	237	232	228	223	218	214	209	204	199	195	
90.82	90.49	90.66	90.92	90.63	91.07	91.13	91.05	90.98	90.86	90.96	90.90	90.87	90.77	91.01	90.85	90.79	90.10	89.62	89.94	90.73	90.68	90.10	
13,312	13,102	12,893	12,683	12,474	12,264	12,055	11,845	11,635	11,426	11,216	11,007	10,797	10,588	10,378	10,169	9,959	9,750	9,540	9,330	9,121	8,911	8,702	
1/12/25 10:49	1/12/25 5:33	1/12/25 15:49	1/14/25 0:26	1/14/25 10:10	1/14/25 17:02	1/15/25 1:49	1/15/25 1:49	1/15/25 23:31	1/16/25 7:45	1/16/25 18:36	1/17/25 8:37	1/18/25 1:08	1/18/25 16:08	1/19/25 0:48	1/24/25 1:48	1/24/25 17:40	1/25/25 17:33	1/26/25 4:15	1/26/25 15:50	1/27/25 2:31	1/27/25 15:39	1/28/25 4:08	
1/13/25 10:47	1/13/25 5:43	1/13/25 15:49	1/14/25 0:30	1/14/25 10:14	1/14/25 17:06	1/15/25 1:30	1/15/25 1:30	1/15/25 23:31	1/16/25 8:04	1/16/25 19:01	1/17/25 5:35	1/18/25 1:15	1/18/25 16:44	1/19/25 0:43	1/24/25 1:43	1/24/25 17:47	1/25/25 12:50	1/26/25 4:32	1/26/25 17:57	1/27/25 2:25	1/27/25 15:19	1/28/25 4:06	
0.30	0.33	0.35	0.33	0.33	0.45	0.35	0.30	0.13	0.32	0.10	0.13	0.12	0.27	0.25	0.08	0.12	0.28	0.12	0.28	0.07	0.27	0.05	
1/23/25 11:47	1/19/25 4:48	1/18/25 16:10	1/14/25 0:46	1/14/25 10:37	1/14/25 17:29	1/15/25 1:24	1/15/25 1:24	1/15/25 23:31	1/16/25 8:04	1/16/25 19:01	1/17/25 5:35	1/18/25 1:15	1/18/25 16:44	1/19/25 0:43	1/24/25 1:43	1/24/25 17:47	1/25/25 12:50	1/26/25 4:32	1/26/25 17:57	1/27/25 2:25	1/27/25 15:19	1/28/25 4:06	
1/13/25 5:11	1/13/25 15:36	1/14/25 0:14	1/14/25 6:54	1/14/25 16:36	1/15/25 1:43	1/15/25 12:34	1/15/25 12:34	1/15/25 23:15	1/16/25 18:39	1/17/25 9:11	1/17/25 9:11	1/18/25 16:21	1/18/25 16:21	1/19/25 11:16	1/24/25 17:29	1/25/25 12:35	1/26/25 3:57	1/16/25 18:44	1/21/25 3:01	1/21/25 14:55	1/28/25 3:42	1/28/25 15:39	
8.10	9.88	8.73	6.13	9.13	8.22	9.41	21.25	6.11	10.59	40.17	19.32	15.12	15.63	11.56	15.77	12.65	15.12	12.37	8.93	12.50	12.38	10.33	
2,067	2,040	2,018	2,036	2,108	2,090	2,112	2,053	2,093	2,210	2,131	2,198	2,484	2,284	1,961	2,148	2,153	2,085	2,522	2,492	2,332	2,273	2,269	
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
58	53	52	54	50	53	46	47	47	493	45	45	43	43	42	37	39	38	36	36	33	34	32	
7,207	7,004	6,981	6,921	7,304	7,024	6,931	7,045	6,744	9,332	6,669	7,078	7,114	6,999	6,710	6,943	6,989	6,690	6,856	6,730	6,936	6,501	6,827	
7,265	7,057	7,033	6,975	7,354	7,077	6,977	7,092	6,791	9,825	6,714	7,123	7,157	7,042	6,752	6,980	7,028	6,728	6,892	6,766	6,969	6,535	6,859	
7,661	7,463	7,432	7,371	7,719	7,475	7,378	7,507	7,181	10,234	7,099	7,535	7,575	7,449	7,137	7,385	7,438	7,116	7,291	7,163	7,380	6,915	7,262	
131,100	150,090	155,360	155,710	157,720	152,610	153,460	155,360	145,551	153,670	148,420	150,810	149,980	148,380	149,108	148,540	150,790	145,610	146,810	149,040	152,630	151,330	152,300	
215,440	218,060	211,590	213,020	219,280	220,800	215,820	215,880	215,740	218,240	208,460	218,800	216,520	216,120	214,700	215,820	218,340	207,300	216,380	212,860	214,600	210,780	214,580	
346,540	368,090	366,950	368,730	377,000	373,410	369,280	371,240	361,291	371,910	356,880	369,610	366,300	364,600	363,808	364,460	369,130	352,910	363,190	361,900	367,230	362,110	366,880	
346,540	368,090	366,950	368,730	377,000	373,410	369,280	371,240	361,291	371,910	356,880	369,610	366,300	364,600	363,808	364,460	369,130	352,910	363,190	361,900	367,230	362,110	366,880	
98	93	94	78	91	85	80	87	80	90	83	89	88	97	90	95	92	95	92	95	99	82	98	
7,342	7,287	7,383	6,208	7,389	6,800	6,183	6,874	6,268	7,115	6,658	6,873	7,203	7,347	6,702	7,625	7,044	6,766	6,599	6,884	7,026	6,487	7,089	
100	100	100	82	100	100	88	91	92	92	85	90	100	100	91	100	93	96	94	96	100	90	100	
11,219	7,657	7,772	6,488	8,093	7,691	11,301	11,241	6,963	7,812	7,381	11,342	11,308	8,517	9,110	11,391	7,980	11,327	8,216	11,331	7,907	7,273		
5,400	5,724	5,374	5,393	5,657	5,504	5,109	5,647	5,590	6,065	5,885	6,025	5,929	5,936	5,889	6,291	6,607	5,882	5,679	6,050	5,697	6,155	6,049	
4,591	4,018	4,296	4,012	3,922	4,258	4,387	4,491	4,636	4,820	4,964	4,746	4,212	4,621	4,444	4,195	4,647	4,585	4,401	4,050	4,401	4,275	4,460	
1.18	1.08	1.13	1.08	1.07	1.12	1.14	1.16	1.18	1.21	1.24	1.20	1.12	1.18	1.15	1.11	1.19	1.24	1.15	1.09	1.15	1.13	1.16	
10	14	14	13	16	14	14	14	13	14	13	14	14	14	13	14	14	13	13	13	13	13	13	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
6,689	4,991	5,561	5,904	4,924	5,936	3,790	2,624	5,708	7,170	6,026	5,634	4,383	5,594	6,960	7,197	2,187	6,189	6,810	5,061	2,930	6,674	7,075	
500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
8	8	8	8	10	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	

66	67	68	69	70	71	72	73	Total/Avg
\$32,421	\$33,843	\$34,588	\$34,286	\$33,571	\$32,765	\$33,827	\$33,084	\$2,534,645
1/28/2025	1/29/2025	1/29/2025	1/30/2025	1/30/2025	1/30/2025	1/31/2025	1/31/2025	
8,404	8,194	7,985	7,775	7,566	7,356	7,146	6,937	6,937
8,580	8,371	8,161	7,952	7,742	7,533	7,323	7,114	22,122
36	36	36	36	36	36	36	36	2604
0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	
6,265	6,267	6,269	6,271	6,273	6,275	6,278	6,280	6,178
187	182	177	173	168	163	159	154	
190	186	181	177	172	167	163	158	
90.64	90.61	90.53	90.67	90.70	90.43	91.00	90.58	
8,492	8,283	8,073	7,864	7,654	7,445	7,235	7,026	
1/18/25 14:32	1/29/25 09:09	1/18/25 11:28	1/29/25 19:47	1/30/25 4:35	1/30/25 14:50	1/31/25 0:54	1/31/25 10:32	12/29/24 14:38
1/28/25 14:47	1/29/25 09:05	1/29/25 11:41	1/29/25 19:58	1/30/25 4:48	1/30/25 15:02	1/31/25 1:04	1/31/25 10:46	1/31/25 16:46
0.25	0.03	0.20	0.18	0.22	0.20	0.17	0.23	0.36
1/28/25 14:47	1/29/25 09:05	1/29/25 11:41	1/29/25 19:58	1/30/25 4:48	1/30/25 15:02	1/31/25 1:04	1/31/25 10:46	12/29/24 12:00
1/28/25 23:42	1/29/25 9:06	1/29/25 19:37	1/30/25 4:28	1/30/25 14:39	1/31/25 0:45	1/31/25 10:19	1/31/25 22:09	1/31/25 22:00
8.93	9.35	7.93	8.50	9.85	9.72	9.25	11.38	12.62
2,447	2,599	2,506	2,285	2,346	2,371	2,345	2,422	2,276
12	12	12	12	12	12	12	12	1,263
6	6	6	6	6	6	6	6	435
35	35	35	35	35	35	35	35	35
33	29	31	30	28	26	25	30	4,877
6,769	6,931	7,026	6,775	6,905	6,895	6,809	6,740	525,883
6,802	6,960	7,057	6,805	6,933	6,921	6,834	6,770	530,760
7,204	7,372	7,480	7,211	7,344	7,337	7,232	7,171	559,583
152,310	152,510	160,110	152,740	153,780	155,230	148,280	155,130	10,609,149
217,440	219,760	220,580	215,040	217,140	221,520	214,220	217,490	15,837,180
369,750	372,270	380,690	367,780	370,920	376,750	362,500	372,620	26,446,329
369,750	372,270	380,690	367,780	370,920	376,750	362,500	372,620	26,446,329
89	96	96	94	97	97	90	98	87
6,558	7,237	6,967	7,182	6,998	6,841	6,688	6,874	7,355
91	100	100	98	100	100	100	100	100
61,288	11,260	10,975	7,708	7,441	7,287	7,382	7,275	61,288
6,383	6,233	5,036	6,233	6,163	6,179	6,380	6,502	5,751
4,447	4,456	4,221	4,396	4,269	4,321	4,222	4,265	4,413
1.15	1.15	1.12	1.14	1.12	1.13	1.12	1.12	1.15
13	13	13	14	13	13	13	13	1,007
1	1	1	1	1	1	1	1	106
7,016	7,167	7,267	7,008	7,125	7,114	7,025	6,971	449,590
500	500	500	500	500	500	500	500	53,050
8	8	8	8	8	8	8	8	608
0								



Well Name: SERAFIN ORTIZ MSH 1H 47051025080000

LITHOLOGY/FORMATION	TOP DEPTH, MD (FT)	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, MD (FT)	BOTTOM DEPTH, TVD (FT)
Base of Fresh Water	0	0	414	414
Top of Salt Water	1168	1168	NA	NA
Pittsburgh Coal	762	762	771	771
Pottsville (ss)	866	866	1029	1029
Raven Cliff (ss)	1247	1247	1442	1442
Maxton (ss)	1442	1442	1798	1798
Big Injun (ss)	1887	1886	2044	2040
Berea (siltstone)	2358	2346	2378	2366
Rhinestreet (shale)	5960	5729	6248	5973
Cashaqua (shale)	6248	5973	6330	6034
Middlesex (shale)	6330	6034	6435	6105
Burket (shale)	6435	6105	6472	6126
Tully (ls)	6472	6126	6552	6171
Mahantango (shale)	6552	6171	6703	6238
Marcellus (shale)	6703	6238	NA	NA

09/26/2025



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

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,426,763.918
EASTING: 524,998.827

LANDING POINT (LPL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,426,672.663
EASTING: 524,548.849

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,430,974.543
EASTING: 522,810.718

SURFACE HOLE LOCATION (SHL):

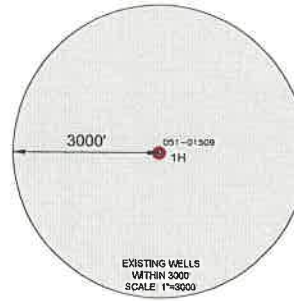
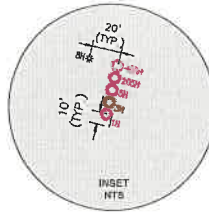
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,426,763.890
EASTING: 524,998.546

LANDING POINT (LPL):

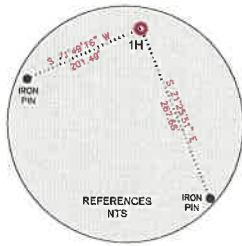
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,426,660.712
EASTING: 524,559.374

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,430,974.540
EASTING: 522,810.355



GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT
LONGITUDE: 80°40'00" SURFACE HOLE 3,394'
LONGITUDE: 80°42'30" BOTTOM HOLE 4,731'



LINE	BEARING	DISTANCE	DESCRIPTION	MARKUMENT
L1	N 28°42'56" W	339.47'	SHL TO MONUMENT	IRON ROD
L2	N 00°44'52" W	681.70'	SHL TO MONUMENT	IRON ROD
L3	S 78°32'10" W	1,506.35'	SHL TO LPL	SHL TO LPL
L4	N 22°00'02" W	15,222.24'	LPL TO BHL	LPL TO BHL
LINE	BEARING	DISTANCE	DESCRIPTION	MARKUMENT
L1	N 28°34'19" W	339.11'	SHL TO MONUMENT	IRON ROD
L2	N 00°40'13" W	681.78'	SHL TO MONUMENT	IRON ROD
L3	S 76°46'44" W	1,480.08'	SHL TO LPL	SHL TO LPL
L4	N 22°04'11" W	15,271.98'	LPL TO BHL	LPL TO BHL

WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- PERMANENT STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING FRESH WATER WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- 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

- TIES TO WELLS AND CORNERS ARE BASED ON UTM, NAD83 DATUM, ZONE 17, US FT.
- WELL LAT/LONG ESTABLISHED BY DIRECT GPS NAD '83.
- BOUNDARIES SHOWN ARE TAKEN FROM TAX MAPS, DEEDS, AND FIELD SURVEY. THIS DRAWING IS NOT REPRESENTATIVE OF A FULL BOUNDARY SURVEY.
- SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF OHIO COUNTY IN OCTOBER OF 2021.
- 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.

P.S. 983

Michael R. Hyman 06-17-2024



RECEIVED
Office Of Oil and Gas
MAY 15 2025
WV Department of
Environmental Protection

COMPANY:

SWN
Production Company, LLC

SWN
Production Company, LLC



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

OPERATOR'S WELL #: 1H
API WELL #: 47 51 02508
STATE COUNTY PERMIT

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒
WATERSHED: UPPER OHIO-WHEELING ELEVATION: 1279.09
DISTRICT: UNION COUNTY: MARSHALL QUADRANGLE: MOUNDSVILLE 7.5', WV
SURFACE OWNER: FRANK J. & LORI A. LONGWELL ACREAGE: ±44.949
OIL & GAS ROYALTY OWNER: SERAFIN T. ORTIZ, AS TRUSTEE OF THE SERAFIN T. ORTIZ TRUST AGREEMENT DATED JULY 31, 1996 ACREAGE: ±44.949
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: 6,281 TVD 22,222 TMD

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:
PROPOSED SURFACE HOLE / BOTTOM HOLE
EXISTING / PRODUCING WELLHEAD
LANDING POINT LOCATION
EXISTING WATER WELL
EXISTING SPRING
SURVEYED BOUNDARY
DRILLING UNIT
LEASE BOUNDARY
ASDRILLED PATH
PROPOSED PATH
DHP BUFFER
REVISIONS:
DATE: 06-17-2024
FILE NO:
DRAWN BY: TMF
SCALE: 1" = 2000'
DRAWING NO: ACE-3048
WELL LOCATION: 09/26/2025

LATITUDE: 40°00'00"

SURFACE HOLE 11,347'

LATITUDE: 40°02'30"

BOTTOM HOLE 6,810'



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

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,426,763.918
EASTING: 524,998.827

LANDING POINT (LPL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,426,672.663
EASTING: 524,548.849

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,430,974.543
EASTING: 522,810.718

SURFACE HOLE LOCATION (SHL):

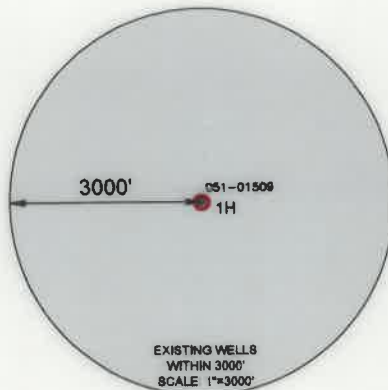
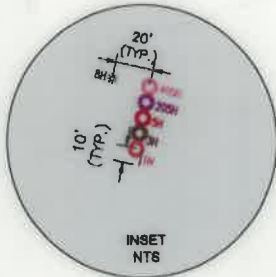
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,426,763.890
EASTING: 524,998.546

LANDING POINT (LPL):

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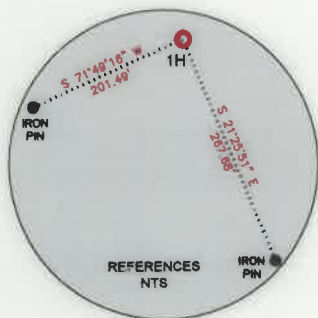


BOTTOM HOLE 4,731'

SURFACE HOLE 3,394'

LONGITUDE: 80°42'30"

LONGITUDE: 80°40'00"



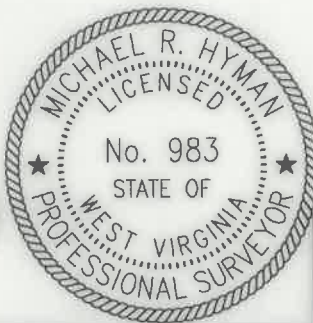
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 28°42'56" W	339.47'	SHL TO MONUMENT	IRON ROD
L2	N 00°44'52" W	681.70'	SHL TO MONUMENT	IRON ROD
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WELL RESTRICTIONS

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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 UTM, NAD83 DATUM, ZONE 17, US FT.
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.

Michael R. Hyman

06-17-2024

P.S. 983

COMPANY:

SWN

SWN *Energy*

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)

SERAFIN ORTIZ MSH
OPERATOR'S WELL #: 1H
API WELL #: 47 51 02508
STATE COUNTY PERMIT

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒
WATERSHED: UPPER OHIO-WHEELING ELEVATION: 1279.09
DISTRICT: UNION COUNTY: MARSHALL QUADRANGLE: MOUNDSVILLE 7.5', WV
SURFACE OWNER: FRANK J. & LORI A. LONGWELL ACREAGE: ±44.949
OIL & GAS ROYALTY OWNER: SERAFIN T. ORTIZ, AS TRUSTEE OF THE SERAFIN T. ORTIZ TRUST AGREEMENT DATED JULY 31, 1996 ACREAGE: ±44.949
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 09/26/2025
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,281 TVD 22,222 TMD

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:
● PROPOSED SURFACE HOLE / BOTTOM HOLE	— SURVEYED BOUNDARY	06-17-2024
⊙ EXISTING / PRODUCING WELLHEAD	— DRILLING UNIT	FILE NO:
LPL ⊙ LANDING POINT LOCATION	— LEASE BOUNDARY	DRAWN BY: TMF
⊙ EXISTING WATER WELL	— AS DRILLED PATH	SCALE: 1" = 2000'
⊙ EXISTING SPRING	— PROPOSED PATH	DRAWING NO: ACE-3048
	— DHP BUFFER	WELL LOCATION PLAT 1



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

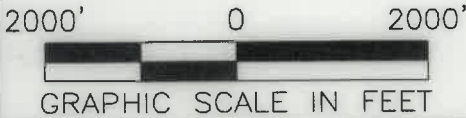
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

ASDRILLED 1H
BOTTOM HOLE
PROPOSED 1H
BOTTOM HOLE

OHIO RIVER

INSET "A"

09/26/2025

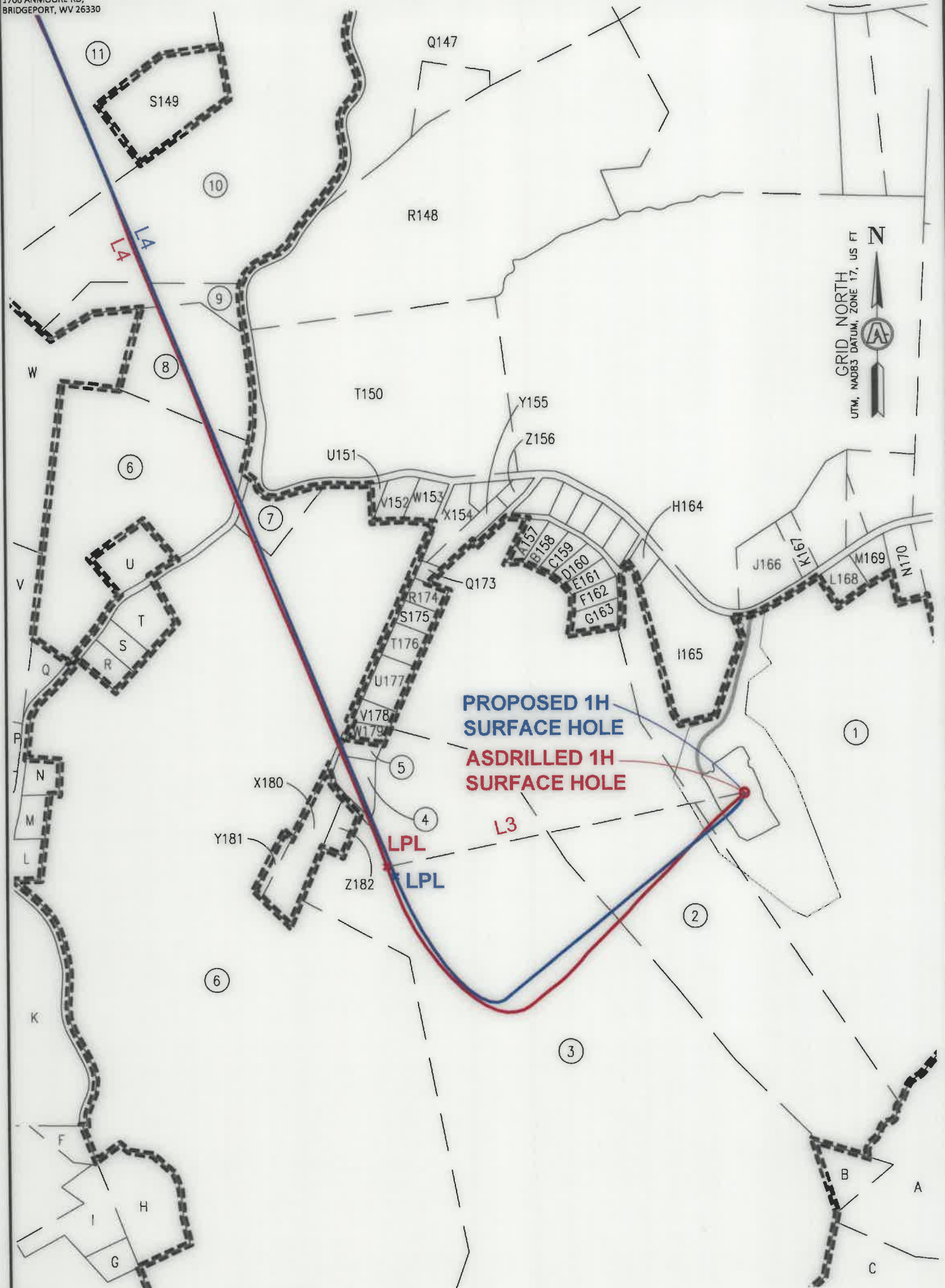


REVISIONS:

COMPANY:		DATE: 06-17-2024	
OPERATOR'S		DRAWN BY: TMF	
WELL #:		SCALE: 1"=2000'	
DISTRICT:		DRAWING NO: ACE-3048	
UNION		WELL LOCATION PLAT 2	
COUNTY:		STATE:	
MARSHALL		WV	
SERAFIN ORTIZ MSH		1H	



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



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

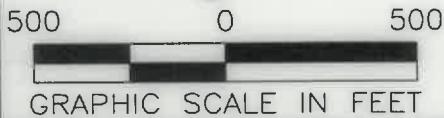
PROPOSED 1H
SURFACE HOLE
ASDRILLED 1H
SURFACE HOLE

LPL
LPL

L3

INSET "A"

09/26/2025



REVISIONS:

COMPANY:

SWN

Production Company, LLC

swn

Production Company™

OPERATOR'S

SERAFIN ORTIZ MSH

DATE: 06-17-2024

WELL #:

1H

DRAWN BY: TMF

DISTRICT:
UNION

COUNTY:
MARSHALL

STATE:
WV

SCALE: 1"=500'

DRAWING NO: ACE-3048

WELL LOCATION PLAT 3



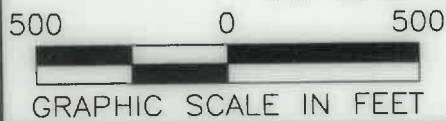
SURVEYOR/ENGINEER: 1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

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



PROPOSED 1H
BOTTOM HOLE

ASDRILLED 1H
BOTTOM HOLE



GRAPHIC SCALE IN FEET

INSET "C"

09/26/2025

REVISIONS:

COMPANY:

SWN

Production Company, LLC

SWN

Production Company™

OPERATOR'S

SERAFIN ORTIZ MSH

DATE: 06-17-2024

WELL #:

1H

DRAWN BY: TMF

DISTRICT:
UNION

COUNTY:
MARSHALL

STATE:
WV

SCALE: 1"=500'
DRAWING NO: ACE-3048
WELL LOCATION PLAT 5



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

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	LONGWELL FRANK J & LORI A(S) / SERAFIN T. ORTIZ, AS TRUSTEE OF THE SERAFIN T. ORTIZ TRUST AGREEMENT DATED JULY 31, 1996 (R)	13-6-49
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	HAUGHT GEORGE ET UX	13-6-51.1
3	LIPINSKI ERIC R & LORIE A	13-6-51
4	KOONTZ CARL E	13-68-31
5	KOONTZ CARL E	13-68-30
6	FISHER EARL M ET AL	13-6-53
7	HOLMES CHERYL ANN	13-6-53.1
8	FISHER DANIEL	13-6-12
9	KLIMA KATHLEEN M	13-6-11
10	BOZENSKE JAMES H	13-6-10.1
11	ARBOGAST CLIFFORD C	13-6-10
12	PORTER CHARLES E JR ET UX	13-6-9.1
13	CRALL SUZANNE ELIZABETH - LIFE	13-6-9
14	VENSKOSKE FLOYD B JR ET UX	13-6-8
15	OHIO COUNTY COAL RESOURCES INC	13-5-46.3
16	OHIO COUNTY COAL RESOURCES INC	13-5-46.8
17	MAAS WALTER J & KAREN V	13-5-44.1
18	OHIO COUNTY COAL RESOURCES INC	13-5-44
19	OHIO COUNTY COAL RESOURCES INC	13-5-46.4
20	OHIO COUNTY COAL RESOURCES INC	13-5-46.10
21	OHIO COUNTY COAL RESOURCES INC	13-5A-40
22	WARBLE STEVEN M SR	13-5A-21
23	WARBLE STEVEN M SR	13-5A-20
24	PARKER PETER	13-5-4.1
25	OKEL IRENE J - TOD	13-5-4
26	OHIO COUNTY COAL RESOURCES INC	13-5-2
27	OKEL IRENE J - TOD	13-5-3
28	OHIO COUNTY COAL RESOURCES INC	13-5-1
29	OHIO COUNTY COAL RESOURCES INC	13-1D-51
30	ABERCROMBIE ROBERT ANDREW ET UX	13-1D-48
31	SALISBURY DAVID W & CHRISTINA	13-1D-47.2
32	SALISBURY DAVID W & CHRISTINA	13-1D-47.1
33	OHIO COUNTY COAL RESOURCES INC	13-1D-40.1
34	OHIO COUNTY COAL RESOURCES INC	13-1D-41
35	OHIO COUNTY COAL RESOURCES INC	13-1D-13
36	MORGAN JOSEPH H JR	13-1D-16

TRACT	SURFACE OWNER (S)	TAX PARCEL
37	MORGAN JOSEPH H JR	13-1D-17.1
38	OHIO COUNTY COAL RESOURCES INC	13-1D-17
39	OHIO COUNTY COAL RESOURCES INC	1-5-37
40	BRINKMAN LINDA M	1-5-36
41	CHIEFFALO TONI A	1-5-35
42	MEREDITH JAMES E	1-5-34
43	MEREDITH JAMES E	1-5-33
44	MEREDITH JAMES E	1-5-32
45	VESSELS CARLA M	1-5-31
46	OHIO COUNTY COAL RESOURCES INC	1-5-1
47	VESSELS CARLA M	1-5-27
48	OHIO COUNTY COAL RESOURCES INC	1-5-26
49	MATHENY WILLIAM E & PRISCILLA	1-5-25
50	VESSELS CARLA M	1-5-24.1
51	VESSELS CARLA M	1-5-24
52	VESSELS CARLA M	1-5-23
53	MCCALLISTER DEBORAH S	1-5-22
54	MCCALLISTER DEBORAH S	1-5-21
55	HISSAM LOUIS B ET UX	1-5-20
56	PARSONS SCOTT A	1-5-19
57	MORRIS BRIAN N ET UX	1-5-18
58	BENWOOD CITY OF	1-6-3
59	BENWOOD CITY OF	1-6-4
60	OHIO COUNTY COAL RESOURCES INC	1-6-5.3
61	FIRST CHURCH OF GOD	1-6-5
62	OHIO COUNTY COAL RESOURCES INC	1-4-107
63	W VA DEPT OF HIGHWAYS	U.S. 250
64	CSX TRANSPORTATION INC	RAILROAD
65	OHIO COUNTY COAL RESOURCES INC	1-4A-1
66	OHIO COUNTY COAL RESOURCES INC	1-4A-10
67	IMI FABI LLC	1-2-158
68	IMI FABI LLC	1-4A-9
69	OHIO COUNTY COAL RESOURCES INC	1-4A-6
70	IMI FABI LLC	1-4A-11
71	STATE OF WEST VIRGINIA	OHIO RIVER

09/26/2025

REVISIONS:	COMPANY:	SWN Production Company, LLC SWN Production Company™	
	OPERATOR'S	SERAFIN ORTIZ MSH	
	WELL #:	1H	
	DISTRICT:	COUNTY:	STATE:
	UNION	MARSHALL	WV
			DATE: 06-17-2024
			DRAWN BY: TMF
			SCALE: N/A
			DRAWING NO: ACE-3048
			WELL LOCATION PLAT 6



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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	KELLER BRIAN J & COOK DAVID J & ALICE M - TOD	13-6-50
B	HAUGHT GEORGE ET UX	13-6-50.1
C	DEFIBAUGH RONALD L & SANDRA	13-11-27.1
D	STEPHENS JAMES J & JAMES DANIEL	13-11-25
E	JONES MICHAEL BRENT	13-6-55
F	HENDERSON JOSEPH E	13-6-54
G	STEVEY LARRY J ET UX	13-6-54.2
H	QUIGLEY DAVID L & KELLY J	13-6-53.14
I	STEVEY LARRY J ET UX	13-6-54.1
J	GEORGE PAUL M & MEGAN	13-6-54.3
K	POLING WENDY LEE	13-6-53.9
L	RODAK MICHAEL J & LADEAN A	13-6-53.5
M	LOY MARTA J	13-6-53.6
N	THOMAS TERRENCE M & BRENDA	13-6-53.11
O	MARTIN EDWARD B	13-6-73.4
P	ARMOUR DAVID A	13-6-76
Q	BOZENSKE JEFFREY T & JESSICA L	13-6-53.7
R	RICE MARK G ET UX	13-6-53.12
S	BARRY DAVID E & CHRISTY A	13-6-53.3
T	HOLMES CHERYL ANN	13-6-53.13
U	COFFIELD JEFFERY & CRYSTAL	13-6-53.15
V	MINOR CHARLES D & LISA M	13-6-69.3
W	MINOR THOMAS C - TOD	13-6-69
X	COFFIELD DAWN & RONALD J	13-6-6
Y	WORKMAN ALBERT L ET UX	13-6-7
Z	TOLPA HILARY J EST	13-5-45
A1	MAAS WALTER J ET UX	13-5-46
B2	MAAS DANIEL E	13-5-46.7
C3	TAYLOR BART W & MARTIN ALICIA	13-5-46.9
D4	MAAS WALTER J & KAREN V ET AL	13-5-46.11
E5	MAAS WALTER J ET UX	13-5-46.6
F6	OHIO COUNTY COAL RESOURCES INC	13-5-47
G7	OHIO COUNTY COAL RESOURCES INC	13-5-48
H8	BUSH HOPE & CODY	13-5A-47
I9	BROWN WALTER E	13-5A-46
J10	PYLE LISA ANN	13-5A-45
K11	SCHOTT PAULETTE F	13-5A-44
L12	KESSELRING GLENN & LIDA	13-5A-44.1
M13	MILLER NATHANIEL	13-5A-43
N14	MILLER NATHANIEL	13-5A-42
O15	MILLER NATHANIEL	13-5A-42.2
P16	MILLER NATHANIEL	13-5A-42.3
Q17	MILLER NATHANIEL	13-5A-42.4
R18	OHIO COUNTY COAL RESOURCES INC	13-5A-17
S19	WARBLE STEVEN M SR	13-5A-18
T20	CRIDER TERYL T - CRONK MARK	13-5A-16
U21	CRIDER TERYL T - CRONK MARK	13-5A-16.1
V22	OKEL IRENE J - TOD	13-5A-15
W23	OKEL IRENE J - TOD	13-5A-14
X24	OKEL IRENE J - TOD	13-5A-14.1
Y25	CAMPBELL SHARON L - TOD	13-5A-13
Z26	OKEL IRENE J - TOD	13-5A-12
A27	HUMPHREY DALE	13-5A-11
B28	HUMPHREY DALE E JR	13-5A-10
C29	DEBENI JANET	13-5A-9
D30	DEBENI JANET	13-5A-8
E31	DE BENI JANET K	13-5A-7

TRACT	SURFACE OWNER	TAX PARCEL
F32	BROWN KIMBERLY J	13-5A-6
G33	KNOLLINGER DAVID K	13-5A-5
H34	SHANER THEODORE B	13-5A-4
I35	OHIO COUNTY COAL RESOURCES INC	13-5A-3
J36	OHIO COUNTY COAL RESOURCES INC	13-5A-2
K37	OHIO COUNTY COAL RESOURCES INC	13-5A-1
L38	OHIO COUNTY COAL RESOURCES INC	13-1D-59
M39	OHIO COUNTY COAL RESOURCES INC	13-1D-58
N40	OHIO COUNTY COAL RESOURCES INC	13-1D-57
O41	OHIO COUNTY COAL RESOURCES INC	13-1D-56
P42	PARKER PETER	13-1D-34
Q43	J & E ENTERPRISES LLC	13-1D-54
R44	DORSCH THOMAS W & NORMA J	13-1D-52
S45	GARNET GAS CORP	13-1D-35
T46	ABERCROMBIE ROBERT ANDREW ET UX	13-1D-50
U47	BARR JANYTHE EST	13-1D-49
V48	BOMMER JOSEPH	13-1D-38
W49	WISE JEFFREY M & CHRISTINA M	13-1D-39
X50	OHIO COUNTY COAL RESOURCES INC	13-1D-40
Y51	OHIO COUNTY COAL RESOURCES INC	13-1D-40.1
Z52	BLOOMFIELD LAWRENCE	13-1D-15
A53	FIRST CHURCH OF GOD	13-1D-18
B54	FALLOVA MICHAEL A - TOD	13-1-45
C55	OHIO COUNTY COAL RESOURCES INC	1-4A-3
D56	BENWOOD CITY OF	1-4A-7
E57	OHIO COUNTY COAL RESOURCES INC	1-4A-10.1
F58	IMI FABI LLC	1-2-155.6
G59	IMI FABI LLC	1-2-161
H60	ZEMEX FABI BENWOOD LLC	1-2-155
I61	MANUFACTURERS LIGHT & HEAT CO	1-2-155.2
J62	OHIO COUNTY COAL RESOURCES INC	1-4A-5
K63	SMALL LAND HOLDINGS CO OF WV LLC	1-4-105
L64	SMALL LAND HOLDINGS CO OF WV LLC	1-4-104
M65	DINGER BLANCHE S	1-4-108
N66	LEACH THOMAS RAY	1-4-99
O67	GREEN SHARON L	1-4-64.1
P68	NETTLES CASSAUNDRAE	1-4-65
Q69	NETTLES CASSAUNDRAE	1-4-66
R70	NETTLES CASSAUNDRAE	1-4-67
S71	ROAR RICHARD	1-4-68
T72	ROAR RICHARD	1-4-69
U73	SKVARKA AMANDA L & ROBERT A	1-4-70
V74	LUFFT JOHN MICHAEL	1-4-71
W75	PREBEG FRANK JAY	1-4-72
X76	DOTSON MICHAEL S	1-4-73
Y77	BAIER CYNTHIA L	1-4-74
Z78	RENSHAW ALFRED J JR & GLORIA J - TOD	1-4-98
A79	DI LORETTA ROBERT M & CAROL A	1-4-107.3
B80	DI LORETTA ROBERT M & CAROL A	1-4-107.2
C81	MCKOWN DENISE S & WILLIAM III	1-4-107.1
D82	MCELWAIN LORI A	1-4-97
E83	BUTTS RONALD M & TINA M	1-4-96
F84	BAUM BRITNEY	1-4-95
G85	BIDKA CATHY R ET AL	1-4-94
H86	MINOR CHRISTOPHER ET UX	1-4-107.4
I87	MINOR CHRISTOPHER & CYNTHIA	1-4-93
J88	CONJESKI NORMA JEAN EST	1-4-107.8
K89	KUCA LOUIS R & STELLA L	1-4-107.7
L90	KUCA LOUIS R & STELLA L	1-4-107.5
M91	KUCA LOUIS R & STELLA L	1-4-107.6

09/26/2025

REVISIONS:	COMPANY:	SWN Production Company, LLC SWN Production CompanyTM	
	OPERATOR'S	SERAFIN ORTIZ MSH	
	WELL #:	1H	
	DISTRICT:	COUNTY:	STATE:
	UNION	MARSHALL	WV
		DATE: 06-17-2024	
		DRAWN BY: TMF	
		SCALE: N/A	
		DRAWING NO: ACE-3048	
		WELL LOCATION PLAT 7	



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

TRACT	SURFACE OWNER	TAX PARCEL
N92	TRUSSELL-SCOTT CYNTHIA L ET AL - TOD	1-4-90
O93	BENWOOD CITY OF	1-4-91
P94	BENWOOD CITY OF	1-4-92
Q95	MORRIS BRIAN N & VIRGINIA E	1-5-17
R96	MORRIS BRIAN N & VIRGINIA E	1-5-16
S97	KUCA EDWARD M JR & GERALDINE	1-5-15
T98	BENWOOD CITY OF	1-5-14
U99	BENWOOD CITY OF	1-5-13
V100	BENWOOD CITY OF	1-5-12
W101	BENWOOD CITY OF	1-5-11
X102	BENWOOD CITY OF	1-5-10
Y103	BENWOOD CITY OF	1-5-9
Z104	BENWOOD CITY OF	1-5-8
A105	BENWOOD CITY OF	1-5-7
B106	BENWOOD CITY OF	1-5-6
C107	BENWOOD CITY OF	1-5-5
D108	OHIO COUNTY COAL RESOURCES INC	1-5-1
E109	KUCA EDWARD M JR & GERALDINE	1-5-4
F110	KUCA EDWARD M JR & GERALDINE	1-5-3
G111	RICHARDS JAMES T	1-6-2
H112	OHIO COUNTY COAL RESOURCES INC	13-1-1.1
I113	OHIO COUNTY COAL RESOURCES INC	13-1-42.1
J114	OHIO COUNTY COAL RESOURCES INC	13-1-42
K115	OHIO COUNTY COAL RESOURCES INC	13-1-43
L116	OHIO COUNTY COAL RESOURCES INC	13-1-44
M117	OHIO COUNTY COAL RESOURCES INC	13-1D-12
N118	HOLMES WILLIAM A & LAURA A	13-1D-42
O119	SALISBURY DAVID W & CHRISTINA	13-1D-47
P120	OHIO COUNTY COAL RESOURCES INC	13-1-46
Q121	OHIO COUNTY COAL RESOURCES INC	13-1-47
R122	OHIO COUNTY COAL RESOURCES INC	13-1-49
S123	OHIO COUNTY COAL RESOURCES INC	13-1-50
T124	OHIO COUNTY COAL RESOURCES INC	13-5-9.2
U125	OHIO COUNTY COAL RESOURCES INC	13-5-9.1
V126	OHIO COUNTY COAL RESOURCES INC	13-5-5
W127	OHIO COUNTY COAL RESOURCES INC	13-5A-22
X128	OHIO COUNTY COAL RESOURCES INC	13-5A-23
Y129	OHIO COUNTY COAL RESOURCES INC	13-5A-24
Z130	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	13-5A-38
A131	OHIO COUNTY COAL RESOURCES INC	13-5A-37
B132	OHIO COUNTY COAL RESOURCES INC	13-5A-32
C133	OHIO COUNTY COAL RESOURCES INC	13-5A-33
D134	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	13-5A-34
E135	OHIO COUNTY COAL RESOURCES INC	13-5A-35
F136	OHIO COUNTY COAL RESOURCES INC	13-5-8
G137	OHIO COUNTY COAL RESOURCES INC	13-5-43
H138	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	13-5-42
I139	OHIO COUNTY COAL RESOURCES INC	13-5-33
J140	OHIO COUNTY COAL RESOURCES INC	13-5-33.1
K141	STENDA JAY JOHN & KIMBERLY ANN	13-5-41
L142	DOYLE TERRY D - TOD	13-5-40
M143	OLIVER BRIAN M & JOELLE L FLANAGAN	13-5-40.1
N144	CLARK ROY V III & DONNA J	13-5-39.2
O145	HERCULES GRANT II	13-5-39.1
P146	STEVEY JORDAN M	13-5-39
Q147	HARMON DAVID L ET UX	13-5-38
R148	STEELE RICHARD P	13-6-14
S149	STEELE JORDAN T & BRITTANY J	13-6-10.2
T150	STEELE RICHARD P	13-6-13

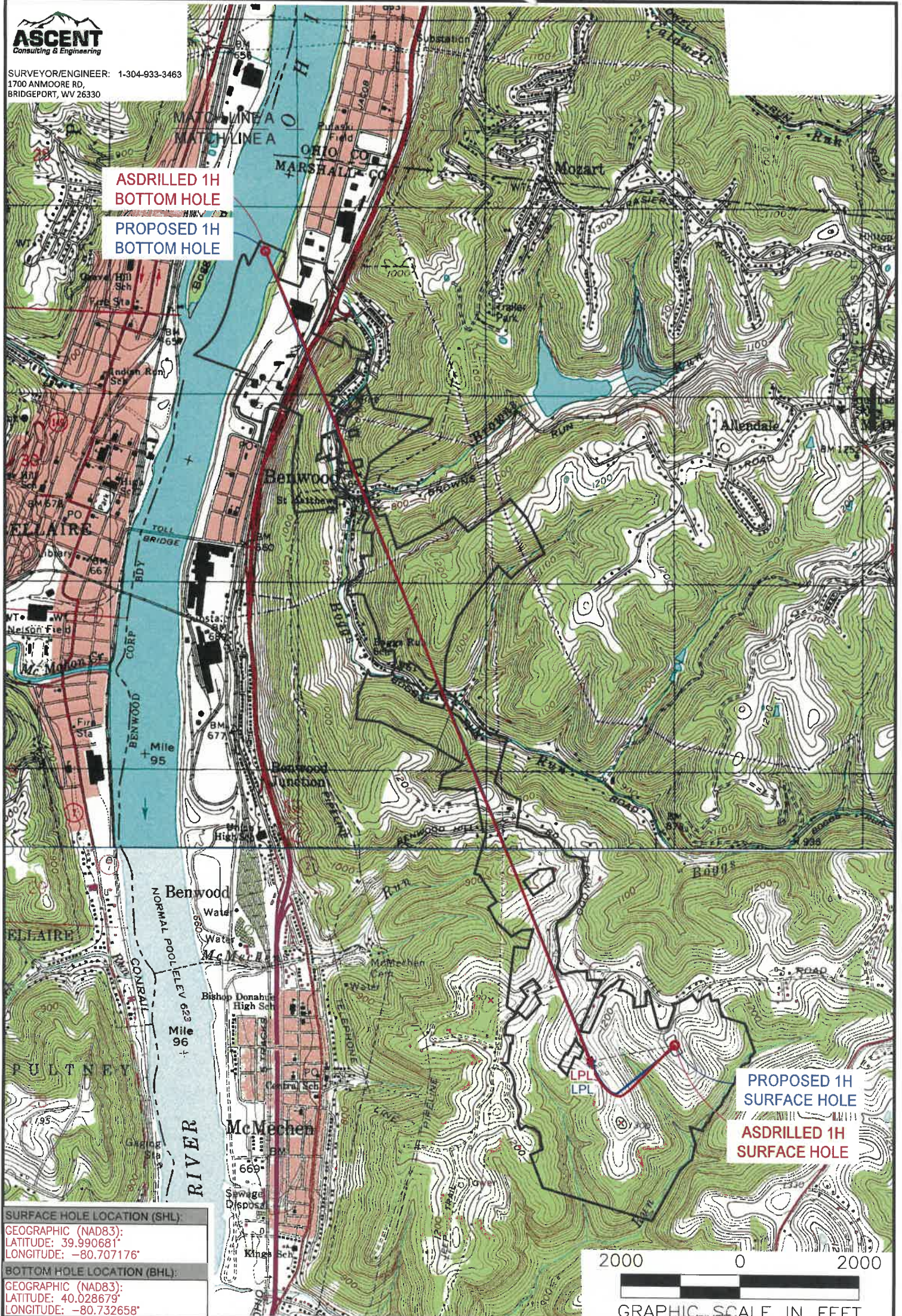
TRACT	SURFACE OWNER	TAX PARCEL
U151	YAQUINTA JOHN	13-6-53.8
V152	YAQUINTA JOHN	13-6-53.4
W153	COOK BRIAN	13-6-53.10
X154	RICH JOSEPH ET UX ESTS	13-6B-22
Y155	RICH JOSEPH A ET UX ESTS	13-6B-23
Z156	LEDBETTER WILLIAM R ET UX	13-6B-21
A157	HAUGHT GEORGE & MARY	13-6B-19
B158	JAMES ROBERT A JR & WENDY L	13-6B-18
C159	JONES DAKOTA M & ELISHA GLENDENING	13-6B-15
D160	SIMMONS MICHAEL J	13-6B-14
E161	MCDADE ROBERT D	13-6B-11
F162	HAUGHT GEORGE ET UX	13-6B-10
G163	HAUGHT GEORGE ET UX	13-6B-9
H164	HAUGHT GEORGE WILLIAM II & SHEILA A	13-6-49.3
I165	WOODBURN SARA J & RICHARD A	13-6-49.2
J166	WILT VINCENT E	13-6-18
K167	TOLER MARGARET - LIFE	13-6-19
L168	NIXON MADISON M	13-6-49.1
M169	NIXON MADISON M	13-6-48
N170	VANDYNE ZACHARY D	13-6-47
O171	CRALL MICHAEL D & LISA DAWN	13-6-46
P172	O'NEAL CYNTHIA	13-6-45
Q173	BAKER JAMES F	13-6B-23.1
R174	BAKER JAMES F	13-6B-24
S175	CARNEY DANIEL P ET UX	13-6B-25
T176	CARNEY DANIEL P ET UX	13-6B-26
U177	CARNEY DANIEL P ET UX	13-6B-27
V178	MERINAR & KOONTZ CO	13-6B-28
W179	KOONTZ CARL E	13-6B-29
X180	VANSCYOC ARMOND RAY JR	13-6B-32
Y181	VANSCYOC ARMOND RAY JR	13-6-53.2
Z182	MELISSINOS KYRIAKI EST	13-6B-33
A183	AMOS DOROTHE M & GEORGE R	1-5-2
B184	VESSELS CARLA M	1-5-30
C185	AMOS DOROTHE M & GEORGE R	1-5-29
D186	VESSELS CARLA M	1-5-28
E187	FRANEY KIMBERLY ANN & KYLE	1-6-5.4
F188	FRANEY KIMBERLY ANN & KYLE	1-6-5.2
G189	FRANEY KIMBERLY ANN & KYLE	1-6-5.1
H190	RICHARDS JAMES T	1-6-1
I191	WENDEL ROBERT LEE ET UX	13-5A-39
J192	PRICE JEREMY S & KATHERINE	13-5A-41
K193	WARBLE STEVEN M SR	13-5A-19

09/26/2025

REVISIONS:	COMPANY:			SWN Production Company, LLC SWN Production Company™	
	OPERATOR'S			DATE: 06-17-2024	
	WELL #:			DRAWN BY: TMF	
	DISTRICT:			COUNTY:	STATE:
	UNION			MARSHALL	WV
				SCALE: N/A	
				DRAWING NO: ACE-3048	
				WELL LOCATION PLAT 8	



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



ASDRILLED 1H
BOTTOM HOLE
PROPOSED 1H
BOTTOM HOLE

PROPOSED 1H
SURFACE HOLE
ASDRILLED 1H
SURFACE HOLE

SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.990681°
LONGITUDE: -80.707176°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.028679°
LONGITUDE: -80.732658°

- 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.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL LANDING POINT LOCATION
- EXISTING WATER WELL
- EXISTING SPRING
- Office Of Oil and Gas
- RECEIVED MAY 15 2025
- WV Department of Environmental Protection
- 09/26/2025
- BOUNDARY
- DRILLING UNIT
- LEASE BOUNDARY
- ASDRILLED PATH
- PROPOSED PATH
- DHP BUFFER

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: SERAFIN ORTIZ MSH	WELL # 1H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201	COUNTY - CODE MARSHALL - 51	DISTRICT; UNION	
SURFACE OWNER: FRANK J. & LORI A. LONGWELL	USGS 7 1/2 QUADRANGLE MAP NAME MOUNDSVILLE, WV		