

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

API 47 - 103 - 03644 County Wetzel District Center
Quad Littleton Pad Name Riter WTZ Field/Pool Name Panhandle Field - Wet
Farm name Riter WTZ Well Number 3H
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 4,394,867.418 Easting 536,904.802
Landing Point of Curve Northing 4,394,857.768 Easting 537,836.781
Bottom Hole Northing 4,399,032.390 Easting 533,353.463

Elevation (ft) 1,411 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

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Date permit issued 2024-4-15 Date drilling commenced 2024-9-11 Date drilling ceased 2024-10-10
Date completion activities began 2025-1-1 Date completion activities ceased 2025-2-21
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 419 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1898 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:

09/12/2025

API 47- 103 - 03644 Farm name Riter WTZ Well number 3H

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		Y
Surface	17.500	13.375	495		J-55		Y
Coal							
Intermediate 1	12.250	9.625	2,977		J-55		Y
Intermediate 2							
Intermediate 3							
Production	8.500	5.500	29,072		P-110 HP		Y
Tubing							
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	497	15.6	1.19	0	Surface	8
Coal							
Intermediate 1	Class A	1,171	15.6	1.18	0	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	5,432	14.5	1.29	0	Surface	24
Tubing							

Drillers TD (ft) 29,072 Loggers TD (ft) 29,072

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

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- 103 - 03644 Farm name Riter Wtz Well number 3H

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.

09/12/2025 

DEPTHS

09/12/2025

21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
\$36,529	\$35,578	\$40,561	\$35,826	\$36,014	\$36,437	\$38,236	\$38,271	\$39,272	\$36,383	\$37,306	\$38,270	\$37,526	\$38,750	\$37,745	\$38,844	\$38,360	\$36,491	\$37,051	\$35,630	\$36,032	\$37,372	\$35,705
1/19/2025	1/19/2025	1/20/2025	1/21/2025	1/22/2025	1/22/2025	1/22/2025	1/23/2025	1/25/2025	1/25/2025	1/26/2025	1/26/2025	1/27/2025	1/27/2025	1/28/2025	1/28/2025	1/29/2025	1/29/2025	1/29/2025	1/30/2025	1/30/2025	1/30/2025	1/31/2025
24,674	24,464	24,254	24,044	23,834	23,624	23,414	23,204	22,994	22,784	22,574	22,364	22,154	21,944	21,734	21,524	21,314	21,104	20,894	20,684	20,474	20,264	20,054
24,851	24,641	24,431	24,221	24,011	23,801	23,591	23,381	23,171	22,961	22,751	22,541	22,331	22,121	21,911	21,696	21,491	21,281	21,071	20,861	20,651	20,441	20,231
36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
7,370	7,378	7,385	7,393	7,400	7,407	7,413	7,420	7,426	7,432	7,438	7,443	7,448	7,453	7,459	7,464	7,469	7,474	7,478	7,482	7,486	7,490	7,492
548	543	538	534	529	524	520	515	510	506	501	496	492	487	482	478	473	468	464	459	454	450	445
552	547	542	538	533	528	524	519	514	510	505	500	496	491	486	482	477	472	468	463	458	454	449
92.19	92.17	91.91	91.98	91.89	91.81	91.80	91.84	91.65	91.69	91.69	91.28	91.42	91.45	91.35	91.31	91.47	91.21	91.23	91.19	91.02	90.76	90.63
24,763	24,553	24,343	24,133	23,923	23,713	23,503	23,293	23,083	22,873	22,663	22,453	22,243	22,033	21,823	21,610	21,403	21,193	20,983	20,773	20,563	20,353	20,143
1/17/25 9:35	1/19/25 14:48	1/20/25 14:48	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31	1/21/25 18:31
1/17/25 10:38	1/19/25 15:31	1/20/25 15:41	1/21/25 4:23	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02
0.72	0.73	0.95	0.90	0.68	0.75	3.83	0.72	0.72	0.70	0.72	0.70	0.77	0.65	1.10	0.73	0.18	0.92	0.60	0.43	0.37	0.40	0.35
1/17/25 10:38	1/19/25 11:33	1/20/25 15:41	1/21/25 4:23	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02	1/21/25 17:02
1/17/25 14:32	1/19/25 13:27	1/21/25 1:58	1/21/25 5:54	1/22/25 3:08	1/22/25 12:06	1/22/25 5:05	1/23/25 9:56	1/25/25 2:50	1/25/25 15:18	1/26/25 3:13	1/26/25 17:12	1/27/25 4:18	1/27/25 17:04	1/28/25 12:28	1/28/25 16:36	1/28/25 13:08	1/28/25 12:39	1/28/25 12:51	1/30/25 7:32	1/30/25 16:59	1/31/25 1:29	1/31/25 10:14
51.57	1.90	10.22	5.52	10.02	8.07	25.80	3.42	44.32	11.58	9.83	13.17	9.95	11.27	7.87	9.73	1.77	8.40	7.27	1.65	2.45	4.17	4.88
2,000	2,050	2,569	3,700	2,476	2,600	2,093	2,750	2,305	2,880	3,013	3,185	3,128	2,880	3,624	3,230	3,526	3,100	3,382	3,320	3,450	3,366	3,210
33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	24	24	24	24	24
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	34	35	35	35	35	35	35	35
112	122	125	138	112	114	110	111	111	103	102	107	103	99	105	101	99	101	97	98	104	101	91
7,529	7,010	9,541	7,135	7,823	7,232	8,318	8,189	8,339	8,114	8,046	8,422	8,299	8,684	8,108	8,236	8,149	7,769	7,853	7,629	7,820	7,872	7,756
7,641	7,132	9,666	7,273	7,935	7,346	8,428	8,300	8,450	8,217	8,148	8,529	8,402	8,783	8,213	8,337	8,248	7,870	7,950	7,727	7,924	7,973	7,847
7,961	7,442	10,008	7,567	8,274	7,614	8,768	8,636	8,802	8,542	8,482	8,879	8,746	9,112	8,552	8,680	8,592	8,232	8,319	8,087	8,293	8,355	8,217
124,920	119,280	121,040	121,040	123,050	118,660	123,400	120,860	124,240	123,110	124,240	121,380	124,030	125,890	122,280	128,220	122,120	126,980	123,160	125,520	123,960	126,140	125,180
179,070	177,270	182,680	182,680	181,390	175,810	182,640	186,340	191,400	179,020	181,760	185,310	185,940	191,060	182,840	187,160	190,230	180,760	192,840	188,040	185,950	206,320	185,360
303,990	296,550	303,720	303,720	304,440	294,470	306,040	307,200	315,640	302,130	306,000	306,690	309,970	316,950	305,120	315,380	312,350	307,740	316,000	313,560	309,910	332,460	310,540
303,990	296,550	303,720	303,720	304,440	294,470	306,040	307,200	315,640	302,130	306,000	306,690	309,970	316,950	305,120	315,380	312,350	307,740	316,000	313,560	309,910	332,460	310,540
81	72	78	79	78	82	84	83	79	79	77	81	86	84	86	86	84	88	88	86	96	92	96
9,542	8,371	9,735	9,567	8,522	9,297	9,239	9,028	9,787	8,974	9,706	9,307	9,754	9,454	10,157	9,784	9,436	9,716	9,426	9,416	9,925	9,404	9,960
84	88	82	80	93	86	90	84	85	86	80	84	88	86	90	90	85	92	92	92	100	96	100
9,940	9,940	9,650	10,100	10,201	10,200	9,891	9,800	10,082	9,664	10,013	10,049	10,457	9,763	10,692	9,812	9,906	10,075	9,873	9,910	10,200	9,825	10,275
6,479	6,677	6,135	6,409	6,208	5,580	6,068	6,631	6,555	6,590	6,443	6,733	6,533	6,577	6,550	6,354	6,314	5,675	6,206	5,850	6,300	5,982	6,490
5,085	5,350	5,022	5,677	5,102	4,536	5,583	5,758	5,665	4,974	4,469	5,607	5,014	4,509	4,962	4,819	5,281	5,000	5,201	5,000	5,300	5,535	5,200
1.11	1.15	1.11	1.19	1.12	1.04	1.18	1.20	1.19	1.10	1.03	1.18	1.10	1.10	1.04	1.10	1.08	1.14	1.10	1.13	1.10	1.14	1.17
11	13	16	13	15	14	15	15	15	16	15	15	15	17	15	16	15	14	15	14	14	15	15
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2
7,947	8,177	10,058	7,577	8,201	8,017	8,732	8,620	8,790	8,480	8,423	8,819	8,654	9,080	8,490	8,657	8,562	8,231	8,332	8,007	8,338	8,415	8,239
1,400	1,400		1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,000	1,000	1,000	1,000	1,000
8	7	11	8	9	9	9	9	9	9	9	9	9	10	9	10	9	9	8	8	9	9	9

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44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
\$38,543	\$36,520	\$35,991	\$35,660	\$35,102	\$38,081	\$37,598	\$36,725	\$36,338	\$35,638	\$37,785	\$38,643	\$35,646	\$37,884	\$37,157	\$36,278	\$38,242	\$36,413	\$34,112	\$34,835	\$34,666	\$36,782	\$37,958
1/31/2025	2/1/2025	2/2/2025	2/2/2025	2/2/2025	2/2/2025	2/3/2025	2/3/2025	2/3/2025	2/4/2025	2/4/2025	2/4/2025	2/5/2025	2/5/2025	2/5/2025	2/5/2025	2/6/2025	2/7/2025	2/7/2025	2/7/2025	2/7/2025	2/8/2025	2/9/2025
19,844	19,634	19,424	19,214	19,004	18,794	18,584	18,374	18,164	17,954	17,744	17,534	17,324	17,114	16,904	16,694	16,484	16,274	16,064	15,854	15,644	15,434	15,224
20,021	19,811	19,601	19,391	19,181	18,971	18,761	18,551	18,341	18,131	17,921	17,711	17,501	17,291	17,081	16,871	16,661	16,451	16,241	16,031	15,821	15,611	15,401
36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
7,494	7,497	7,499	7,501	7,502	7,504	7,506	7,508	7,509	7,511	7,512	7,512	7,514	7,516	7,520	7,523	7,525	7,526	7,527	7,528	7,530	7,531	7,533
440	436	431	426	422	417	412	408	403	399	394	389	385	380	375	371	366	361	357	352	347	343	338
444	440	435	430	426	421	416	412	407	402	398	393	388	384	379	374	370	365	360	356	351	346	342
90.51	90.87	90.60	90.45	90.45	90.40	90.56	90.34	90.44	90.30	90.15	90.18	90.25	91.01	90.85	90.78	90.29	90.35	90.38	90.32	90.57	90.35	90.40
19,933	19,723	19,513	19,303	19,093	18,883	18,673	18,463	18,253	18,043	17,833	17,623	17,413	17,203	16,993	16,783	16,573	16,363	16,153	15,943	15,733	15,523	15,313
3/3/25 10:36	3/3/25 11:15	3/3/25 11:40	3/3/25 11:55	3/3/25 12:10	3/3/25 12:30	3/3/25 12:45	3/3/25 12:59	3/3/25 13:09	3/3/25 13:24	3/3/25 13:38	3/3/25 13:53	3/3/25 14:07	3/3/25 14:21	3/3/25 14:35	3/3/25 14:49	3/3/25 15:03	3/3/25 15:17	3/3/25 15:31	3/3/25 15:45	3/3/25 15:59	3/3/25 16:13	3/3/25 16:27
3/3/25 14:09	3/3/25 14:40	3/3/25 14:55	3/3/25 15:10	3/3/25 15:24	3/3/25 15:40	3/3/25 15:54	3/3/25 16:09	3/3/25 16:23	3/3/25 16:38	3/3/25 16:52	3/3/25 17:06	3/3/25 17:20	3/3/25 17:34	3/3/25 17:48	3/3/25 18:02	3/3/25 18:16	3/3/25 18:30	3/3/25 18:44	3/3/25 18:58	3/3/25 19:12	3/3/25 19:26	3/3/25 19:40
0.55	0.42	0.47	0.32	0.52	0.30	0.30	0.53	0.52	0.35	0.47	0.43	0.30	0.32	0.55	0.25	0.25	12.45	0.50	0.45	0.23	0.23	0.22
3/3/25 10:41	3/3/25 11:40	3/3/25 11:55	3/3/25 12:10	3/3/25 12:30	3/3/25 12:45	3/3/25 12:59	3/3/25 13:13	3/3/25 13:28	3/3/25 13:42	3/3/25 13:56	3/3/25 14:10	3/3/25 14:24	3/3/25 14:38	3/3/25 14:52	3/3/25 15:06	3/3/25 15:20	3/3/25 15:34	3/3/25 15:48	3/3/25 16:02	3/3/25 16:16	3/3/25 16:30	3/3/25 16:44
3/3/25 10:59	3/3/25 11:58	3/3/25 12:13	3/3/25 12:27	3/3/25 12:41	3/3/25 12:55	3/3/25 13:09	3/3/25 13:23	3/3/25 13:37	3/3/25 13:51	3/3/25 14:05	3/3/25 14:19	3/3/25 14:33	3/3/25 14:47	3/3/25 15:01	3/3/25 15:15	3/3/25 15:29	3/3/25 15:43	3/3/25 15:57	3/3/25 16:11	3/3/25 16:25	3/3/25 16:39	3/3/25 16:53
14.30	12.20	12.17	8.55	5.35	6.78	5.97	4.13	6.70	6.07	7.73	6.15	4.18	7.25	5.83	6.88	9.43	4.82	7.75	2.85	5.25	3.95	31.62
3,128	2,880	3,382	3,075	3,650	3,205	3,350	3,362	3,118	3,194	3,350	3,802	3,433	3,660	3,050	3,461	3,525	2,823	3,100	3,465	3,202	3,320	2,305
24	24	24	24	24	24	24	24	24	24	24	24	24	24	16	18	18	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
89	89	86	93	84	88	94	87	83	84	80	77	84	81	78	76	75	74	78	70	74	71	84
8,398	7,595	7,633	7,598	7,575	8,022	8,249	7,987	7,895	7,947	8,174	7,934	7,916	8,135	8,140	8,243	9,416	8,267	8,138	7,963	7,846	8,334	8,339
8,487	7,684	7,719	7,681	7,659	8,110	8,343	8,054	7,978	8,031	8,254	8,011	8,000	8,216	8,218	8,319	9,491	8,341	8,216	8,033	7,920	8,405	8,423
8,833	8,042	8,073	8,050	7,982	8,479	8,690	8,389	8,340	8,384	8,637	8,378	8,356	8,597	8,566	8,670	9,945	8,695	8,569	8,365	8,243	8,766	8,791
127,060	125,620	123,680	125,920	116,580	127,280	120,920	120,880	126,020	123,960	127,950	124,920	119,520	122,800	124,380	123,340	127,940	128,180	129,580	125,660	127,420	124,460	125,150
188,190	182,540	191,610	191,140	182,600	210,100	189,930	190,690	190,281	184,270	213,960	212,460	186,701	215,640	195,960	188,120	189,800	186,800	187,020	178,940	185,870	209,860	213,670
315,250	308,160	315,290	317,060	301,180	337,380	310,850	311,570	316,301	308,230	341,930	337,380	306,221	338,440	320,340	311,460	317,740	314,980	316,600	304,600	313,290	334,320	338,820
315,250	308,160	315,290	317,060	301,180	337,380	310,850	311,570	316,301	308,230	341,930	337,380	306,221	338,440	320,340	311,460	317,740	314,980	316,600	304,600	313,290	334,320	338,820
85	97	93	97	91	97	99	99	96	97	98	94	95	98	90	98	99	99	98	98	92	94	99
9,200	10,005	9,271	9,932	9,553	9,473	9,992	9,817	9,328	9,038	10,053	9,296	9,470	10,080	9,459	9,049	9,466	9,351	9,764	9,773	8,981	8,956	9,702
95	100	95	100	96	99	100	100	98	98	220	95	96	100	92	100	100	0	100	100	100	100	100
9,833	10,375	9,922	10,155	10,001	9,943	10,325	10,100	10,108	9,482	10,315	9,527	9,670	10,455	9,663	9,674	9,660	9,760	10,010	10,065	9,640	9,976	10,055
6,771	6,565	6,318	6,635	6,605	6,346	6,390	6,261	6,984	5,809	6,250	6,458	6,506	6,630	6,785	6,287	6,690	6,412	6,900	6,520	6,515	6,144	6,090
4,535	5,000	4,521	5,000	4,991	5,392	5,670	6,310	5,661	5,640	5,600	4,563	5,290	6,300	4,889	4,855	5,400	5,600	4,800	5,183	5,790	4,716	5,500
1.04	1.10	1.04	1.10	1.10	1.16	1.19	1.28	1.19	1.19	1.18	1.04	1.14	1.28	1.09	1.08	1.16	1.18	1.08	1.13	1.21	1.06	1.17
16	15	15	14	14	16	16	15	15	15	16	15	15	15	16	16	17	16	16	15	15	16	16
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1
8,891	8,040	8,100	8,077	8,013	8,530	8,709	8,422	8,358	8,399	8,590	8,394	8,379	8,566	8,544	8,737	9,869	8,741	8,567	8,355	8,286	8,820	8,837
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	750	750	750	500	500	500	500	500	500
9	9	9	9	9	10	9	9	9	9	9	9	9	9	9	9	10	10	9	9	9	10	10

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67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
\$37,933	\$35,222	\$35,970	\$37,213	\$35,272	\$36,403	\$35,589	\$37,395	\$34,500	\$29,745	\$33,834	\$33,012	\$30,806	\$34,662	\$33,962	\$26,969	\$33,080	\$36,206	\$35,529	\$39,250	\$35,015	\$36,291	\$35,057	\$35,685
2/9/2025	2/10/2025	2/10/2025	2/11/2025	2/11/2025	2/11/2025	2/11/2025	2/12/2025	2/12/2025	2/12/2025	2/13/2025	2/13/2025	2/13/2025	2/14/2025	2/14/2025	2/15/2025	2/15/2025	2/15/2025	2/16/2025	2/16/2025	2/17/2025	2/17/2025	2/18/2025	2/18/2025
15,014	14,804	14,594	14,384	14,174	13,964	13,754	13,544	13,334	13,124	12,914	12,704	12,494	12,284	12,074	11,864	11,654	11,444	11,234	11,024	10,814	10,604	10,394	10,184
15,191	14,981	14,771	14,561	14,351	14,141	13,931	13,721	13,511	13,301	13,091	12,884	12,671	12,461	12,251	12,041	11,836	11,621	11,411	11,201	10,991	10,781	10,571	10,361
36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
7,535	7,536	7,538	7,539	7,542	7,545	7,548	7,551	7,554	7,558	7,561	7,563	7,565	7,568	7,570	7,572	7,574	7,577	7,579	7,581	7,584	7,586	7,590	7,593
333	329	324	319	315	310	305	301	296	291	287	282	277	273	268	263	259	254	249	245	240	235	231	226
337	333	328	323	319	314	309	305	295	286	281	277	272	267	263	258	253	249	244	239	235	230	225	220
90.51	90.41	90.13	90.54	90.86	90.81	90.90	90.89	90.92	90.86	90.90	90.92	90.73	90.45	90.52	90.62	90.62	90.71	90.59	90.70	90.62	90.97	90.90	90.85
15,103	14,893	14,683	14,473	14,263	14,053	13,843	13,633	13,423	13,213	13,003	12,794	12,583	12,373	12,163	11,953	11,745	11,533	11,323	11,113	10,903	10,693	10,483	10,273
2/9/25 11:24	2/9/25 11:42	2/9/25 15:37	2/10/25 1:19	2/10/25 11:35	2/10/25 11:55	2/10/25 16:06	2/12/25 7:05	2/12/25 19:48	2/12/25 17:42	2/12/25 6:44	2/13/25 18:12	2/14/25 3:18	2/14/25 8:14	2/15/25 11:25	2/15/25 7:00	2/15/25 11:09	2/15/25 11:04	2/15/25 11:10	2/16/25 11:01	2/16/25 10:58	2/17/25 11:13	2/17/25 10:21	2/17/25 11:11
2/9/25 15:55	2/9/25 11:45	2/9/25 18:16	2/10/25 1:28	2/10/25 11:25	2/10/25 11:55	2/10/25 16:17	2/12/25 7:16	2/12/25 19:48	2/12/25 17:42	2/12/25 6:44	2/13/25 18:12	2/14/25 3:18	2/14/25 8:14	2/15/25 11:25	2/15/25 7:00	2/15/25 11:09	2/15/25 11:04	2/15/25 11:10	2/16/25 11:01	2/16/25 10:58	2/17/25 11:13	2/17/25 10:21	2/17/25 11:11
3.45	0.22	0.43	0.33	0.40	0.35	0.18	0.18	0.20	0.40	-11.55	0.33	0.42	0.55	0.38	0.43	0.75	0.50	0.45	0.37	0.28	0.40	0.32	0.33
2/9/25 18:55	2/9/25 21:55	2/9/25 18:58	2/10/25 1:59	2/10/25 11:55	2/10/25 11:55	2/10/25 11:55	2/12/25 10:17	2/12/25 11:16	2/12/25 11:24	2/12/25 11:29	2/13/25 11:17	2/13/25 18:17	2/14/25 3:51	2/14/25 8:37	2/15/25 11:55	2/15/25 7:45	2/15/25 11:53	2/15/25 11:53	2/16/25 11:53	2/16/25 11:53	2/17/25 11:53	2/17/25 11:53	2/17/25 11:53
2/9/25 21:17	2/9/25 21:17	2/9/25 21:17	2/10/25 1:59	2/10/25 11:55	2/10/25 11:55	2/10/25 11:55	2/12/25 10:17	2/12/25 11:16	2/12/25 11:24	2/12/25 11:29	2/13/25 11:17	2/13/25 18:17	2/14/25 3:51	2/14/25 8:37	2/15/25 11:55	2/15/25 7:45	2/15/25 11:53	2/15/25 11:53	2/16/25 11:53	2/16/25 11:53	2/17/25 11:53	2/17/25 11:53	2/17/25 11:53
5.37	6.88	8.32	4.70	4.00	5.77	27.35	6.82	3.03	11.05	5.42	10.13	5.72	5.08	23.88	1.48	3.32	6.47	4.78	2.00	11.43	2.30	10.78	6.02
3,084	3,355	5,000	3,558	3,770	3,377	3,735	3,658	3,937	4,250	4,047	3,430	3,730	3,785	3,300	3,650	3,619	3,457	4,600	3,390	3,250	3,325	3,250	3,359
12	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	6
35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
77	71	99	66	63	60	69	62	61	57	57	59	53	53	53	55	49	54	51	45	45	44	49	41
8,573	8,070	8,593	8,205	8,250	8,897	8,743	8,537	7,854	7,450	7,980	7,544	7,134	7,934	7,529	6,726	8,426	8,064	8,282	9,801	8,233	10,409	8,249	8,419
8,750	8,141	8,692	8,271	8,313	8,957	8,812	8,599	7,915	7,507	8,037	7,603	7,187	7,987	7,582	6,781	8,475	8,118	8,333	9,846	8,278	10,453	8,298	8,402
9,099	8,442	9,045	8,627	8,669	9,314	9,156	9,048	8,268	7,835	8,398	7,925	7,491	8,348	7,875	7,039	8,832	8,453	8,674	10,208	8,621	10,872	8,634	8,799
146,100	145,200	145,340	145,930	145,670	121,980	125,300	127,960	124,240	126,580	128,360	125,020	122,760	123,060	124,580	123,640	123,700	124,700	126,100	123,460	118,160	125,220	120,400	121,840
150,010	146,170	188,190	188,100	187,860	187,130	187,640	190,930	192,220	186,080	179,600	184,660	161,210	188,430	165,110	103,540	189,260	186,560	189,240	186,950	188,490	187,320	184,570	186,510
336,110	291,370	333,530	334,030	326,530	309,110	312,940	318,890	316,460	312,660	307,960	309,680	283,980	311,490	289,690	227,180	312,960	311,260	315,340	310,410	306,650	312,540	304,970	308,350
336,110	291,370	333,530	334,030	326,530	309,110	312,940	318,890	316,460	312,660	307,960	309,680	283,980	311,490	289,690	227,180	312,960	311,260	315,340	310,410	306,650	312,540	304,970	308,350
100	86	97	81	99	98	100	95	90	89	83	94	89	89	88	76	89	92	89	90	84	85	89	90
9,393	8,337	8,641	8,093	8,695	8,526	8,715	8,026	7,830	8,196	7,939	8,705	8,238	8,598	8,426	7,549	8,490	9,099	8,643	8,447	8,377	8,348	8,159	8,517
100	92	99	83	100	100	100	95	91	90	83	95	90	90	90	90	92	92	90	90	85	90	90	91
9,635	10,032	9,464	8,725	9,020	9,299	9,601	8,340	8,411	8,400	8,220	9,350	9,515	9,028	9,600	9,566	9,552	9,350	8,900	8,800	8,750	8,722	8,400	8,944
6,344	6,521	6,120	6,678	6,350	6,209	6,366	5,552	6,008	6,200	6,569	6,449	6,448	6,298	6,307	6,250	6,332	7,123	7,100	6,991	6,992	5,543	6,350	6,273
5,488	5,049	5,954	5,740	5,500	5,399	5,357	5,335	5,151	5,450	6,841	6,450	5,401	6,175	6,400	4,610	5,641	5,878	6,150	5,222	5,650	4,909	6,150	4,602
1.17	1.11	1.23	1.20	1.17	1.16	1.15	1.15	1.12	1.16	1.35	1.30	1.16	1.26	1.29	1.05	1.19	1.22	1.26	1.13	1.19	1.09	1.26	1.05
17	16	16	16	16	18	17	17	16	15	15	15	14	15	20	13	16	15	15	20	15	20	16	16
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9,158	8,513	9,116	8,597	8,639	9,370	9,190	9,109	8,195	7,743	8,277	7,803	7,401	8,264	7,922	7,010	8,879	8,434	8,609	10,257	8,542	10,787	8,564	8,736
500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
10	10	10	10	10	11	10	10	9	8	9	8	9	9	12	8	10	8	8	11	8	12	9	10

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91	92	93	94	95	96	Total/Avg
\$38,232	\$35,391	\$36,491	\$35,409	\$36,386	\$39,743	\$3,512,609
2/18/2025	2/18/2025	2/19/2025	2/20/2025	2/20/2025	2/20/2025	
9,974	9,764	9,554	9,344	9,134	8,924	8,924
10,151	9,941	9,731	9,521	9,311	9,101	28,841
36	36	36	36	36	36	3420
0.42	0.42	0.42	0.42	0.42	0.42	
7,596	7,599	7,602	7,604	7,605	7,606	7,470
221	217	212	207	203	198	
225	221	216	211	207	202	
90.91	90.83	90.92	90.45	90.42	90.44	
10,063	9,853	9,643	9,433	9,223	9,013	
2/18/25 6:31	2/18/25 16:38	2/18/25 1:45	2/19/25 11:47	2/19/25 5:40	2/19/25 13:00	1/1/25 15:38
2/18/25 9:32	2/18/25 17:30	2/18/25 1:37	2/19/25 9:38	2/19/25 6:45	2/19/25 13:34	2/18/25 13:34
0.35	0.37	0.37	0.35	1.15	0.57	0.66
2/18/25 9:33	2/18/25 COW	2/19/25 1:37	2/19/25 3:08	2/19/25 6:48	2/19/25 13:34	1/1/25 16:30
2/18/25 16:33	2/18/25 13:51	2/19/25 23:35	2/19/25 5:58	2/19/25 13:34	2/19/25 18:48	2/19/25 18:48
7.67	23.83	22.13	5.83	6.42	5.23	11.30
3,297	3,521	3,550	3,550	3,006	3,716	3,241
12	12	12	12	12	12	1,946
6	6	6	6	6	6	570
35	35	35	35	35	35	35
46	37	38	39	35	37	8,601
9,060	8,473	8,787	8,273	8,649	9,258	784,810
9,106	8,510	8,825	8,312	8,684	9,295	793,411
9,450	8,858	9,169	8,654	9,016	9,674	826,678
123,800	120,020	120,160	124,040	125,810	124,760	11,863,660
186,360	192,740	187,800	188,250	191,540	208,060	17,826,342
310,160	312,760	307,960	312,290	317,350	332,820	29,690,002
310,160	312,760	307,960	312,290	317,350	332,820	29,690,002
88	89	88	35	90	80	87
9,045	8,357	8,243	3,160	7,780	6,802	9,087
90	90	90	90	90	91	2,280
10,320	8,750	8,500	8,449	8,102	7,900	10,692
6,490	6,651	6,250	6,710	5,827	6,221	6,377
4,877	5,200	5,150	5,735	6,669	5,100	5,333
1.05	1.13	1.12	1.20	1.33	1.12	1.15
17	16	17	15	17	18	1,473
1	1	1	1	1	1	164
9,428	8,816	9,115	8,636	9,053	9,755	827,846
500	500	500	500	500	500	81,750
10	10	10	9	10	11	880

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Well Name:

RITER WTZ 3H

47103036440000

LITHOLOGY/FORMATION	TOP DEPTH, MD (FT)	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, MD (FT)	BOTTOM DEPTH, TVD (FT)	QUANTITY AND TYPE OF FLUID
Base of Fresh Water	0	0	417	417	?
Top of Salt Water	1984	1898	NA	NA	?
Pittsburgh Coal	1283	1270	1299	1286	?
Pottsville (ss)	1373	1355	1407	1387	?
Raven Cliff (ss)	1735	1684	2142	2034	?
Maxton (ss)	2142	2034	2584	2414	?
Big Injun (ss)	2597	2426	2932	2711	?
Berea (siltstone)	3355	3077	3387	3104	?
Rhinestreet (shale)	7712	6832	8093	7176	?
Cashaqua (shale)	8093	7176	8254	7308	?
Middlesex (shale)	8254	7308	8407	7418	?
Burket (shale)	8407	7418	8462	7452	?
Tully (ls)	8462	7452	8500	7475	?
Mahantango (shale)	8500	7475	8756	7580	?
Marcellus (shale)	8756	7580	NA	NA	?

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	01/01/2025
Job End Date:	02/20/2025
State:	West Virginia
County:	Wetzel
API Number:	47-103-03644-00-00
Operator Name:	Expand Operating LLC
Well Name and Number:	RITER WTZ 3H
Latitude:	39.70278
Longitude:	-80.569709
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7605.9
Total Base Water Volume (gal)*:	33241512
Total Base Non Water Volume:	117881.4



Water Source	Percent
Surface Water, < 1000TDS	100.00%
Produced Water	0.00%

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 930	Expand Completion Services	Friction Reducer					
Plexslick CX 810	Expand Completion Services	Friction Reducer					
Sand	Expand Completion Services	Proppant					

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Stimsolv SI 680 HC	Expand Completion Services	Scale Inhibitor					
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	90.21208	
			Crystalline Silica, Quartz	14808-60-7	100.00000	9.63492	
			HYDROCHLORIC ACID	7647-01-0	37.00000	0.08765	
			Copolymer of 2-propenamide	Proprietary	60.00000	0.02668	
			Hydrotreated light distillate	64742-47-8	30.00000	0.01177	
			Isoalkanes	64742-47-8	30.00000	0.01118	
			Surfactant	Proprietary	3.00000	0.00406	
			Oleic Acid Diethanolamide	93-83-4	5.00000	0.00294	
			Phosphonium, tetrakis(hydroxymethyl)-, sulfate (2:1)	55566-30-8	50.00000	0.00255	
			Ethoxylated Tridecanol	Proprietary	2.50000	0.00186	
			Diethylenetriamine penta (methylene phosphonic acid)	15827-60-8	10.00000	0.00142	
			Sodium erythorbate	6381-77-7	98.00000	0.00124	
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	10.00000	0.00051	
			Ethanol	64-17-5	1.50000	0.00026	
			Ammonium chloride	12125-02-9	5.00000	0.00021	
			Ethylene glycol	107-21-1	40.00000	0.00015	
			Cinnamaldehyde	104-55-2	19.00000	0.00007	
			1-Octanol	111-87-5	19.00000	0.00007	
			1-Decanol	112-30-1	19.00000	0.00007	
			N,N-Dimethylformamide	68-12-2	19.00000	0.00007	
			Triethyl phosphate	78-40-0	19.00000	0.00007	
			Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	19.00000	0.00007	
			2-Butoxyethanol	111-76-2	10.00000	0.00004	
			Isopropyl alcohol	67-63-0	10.00000	0.00004	
			Tar bases, quinoline derivatives, benzyl chloride-quaternized	72480-70-7	10.00000	0.00004	

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

09/12/2025

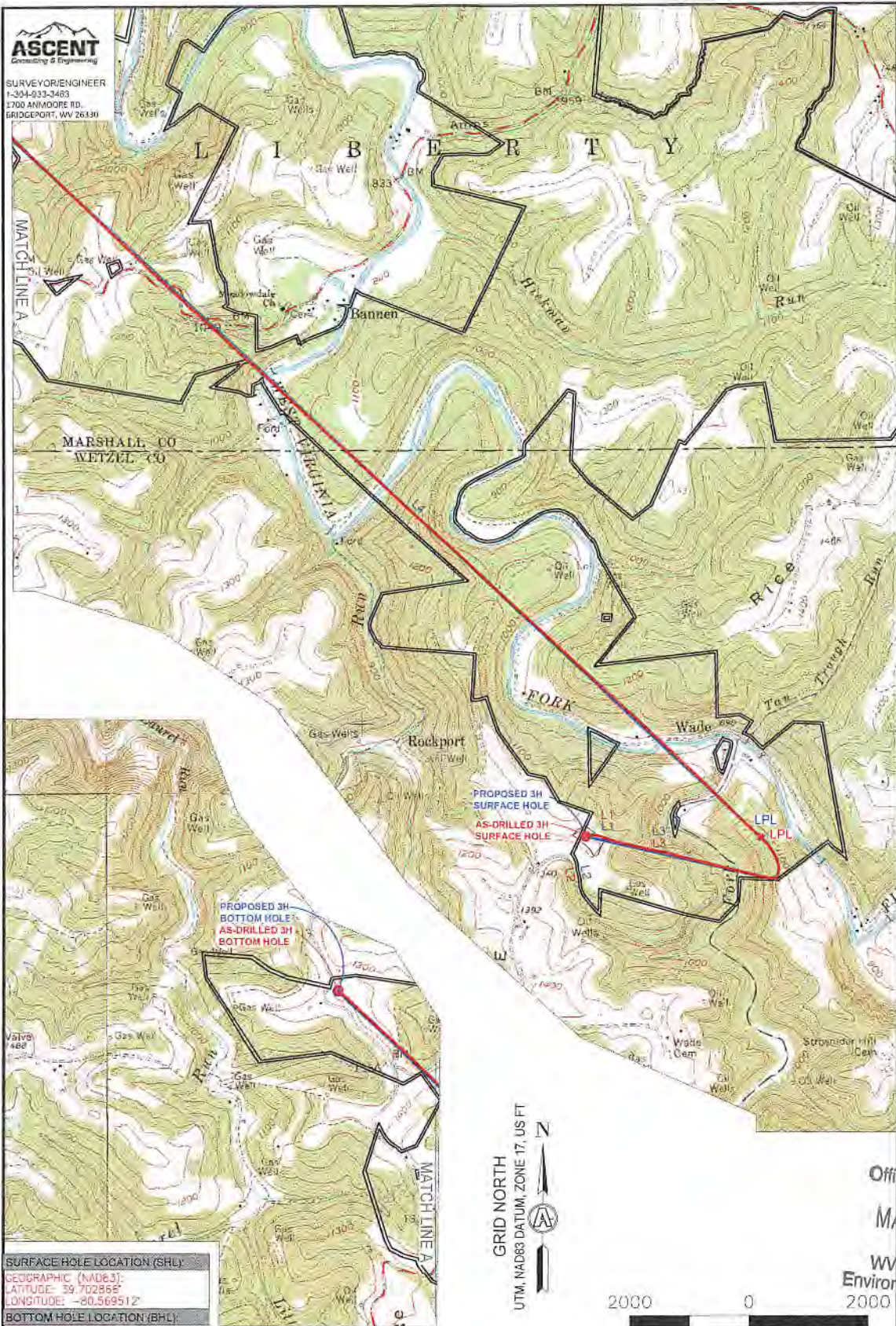
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MAY 28 2025
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**** Information is based on the maximum potential for concentration and thus the total may be over 100%**

**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)**

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MAY 28 2025
WV Department of
Environmental Protection

09/12/2025



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.702866°
LONGITUDE: -80.569512°

BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.740575°
LONGITUDE: -80.610673°

- NOTES ON SURVEY**
1. SURFACE AND ROYALTY OWNERS 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. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DESIGNATED.

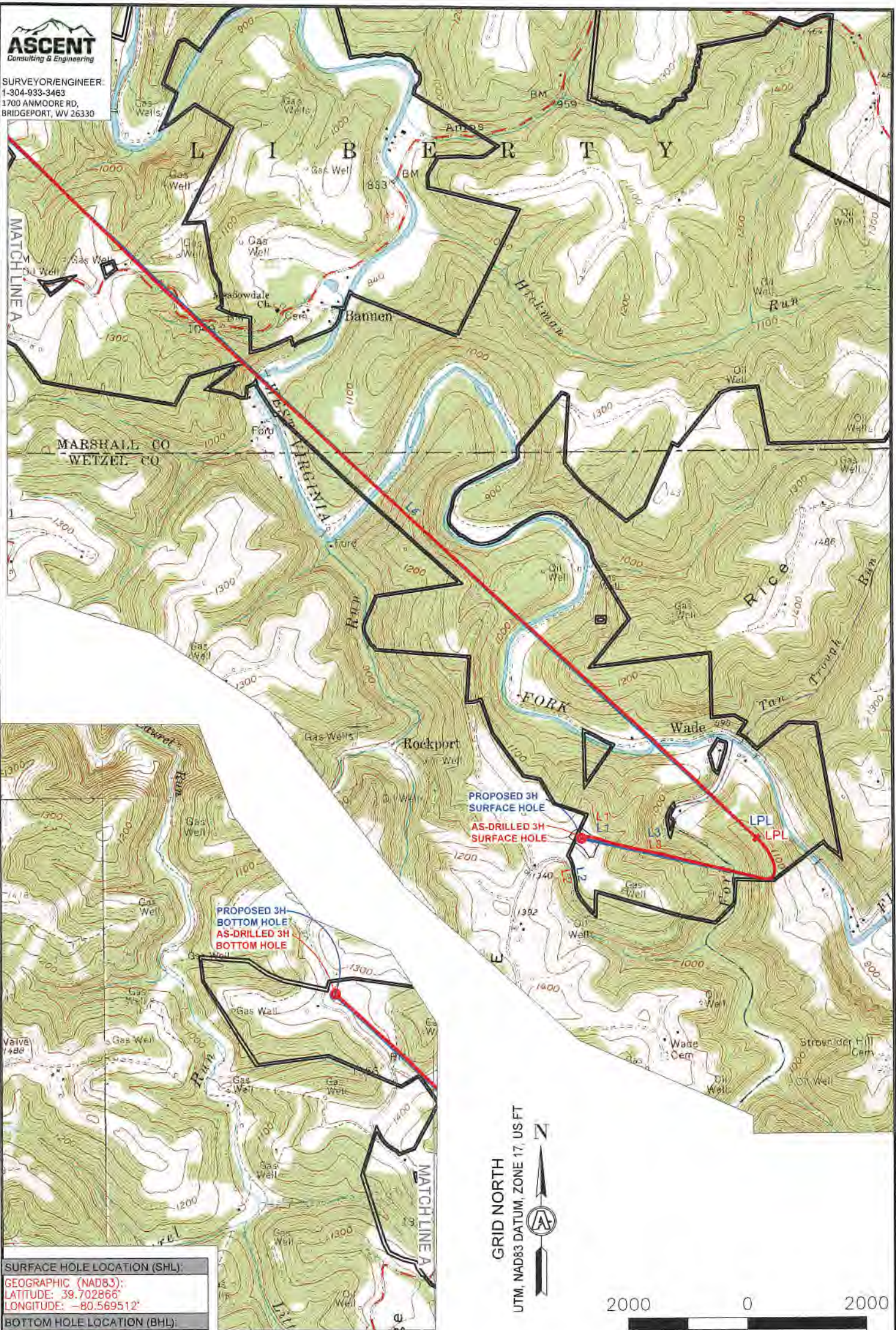
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC		WELL (FARM) NAME: RITER WTZ		WELL # 3H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201		COUNTY - CODE WETZEL - 103	DISTRICT: CENTER		
SURFACE OWNER: HARRY RITER, JR. & VIOLET R. MENAS		USGS 7 1/2 QUADRANGLE MAP NAME LITTLETON, WV-PA			09/12

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MAY 28 2025
WV Department of
Environmental Protection

09/12/2025



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

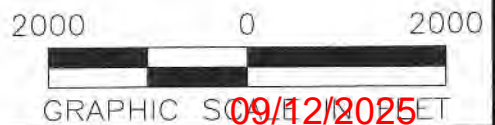


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GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



WELL OPERATOR: SWN PRODUCTION COMPANY, LLC		WELL (FARM) NAME: RITER WTZ		WELL # 3H	SERIAL # XXXX
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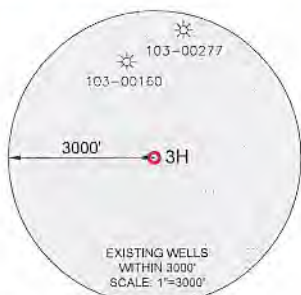
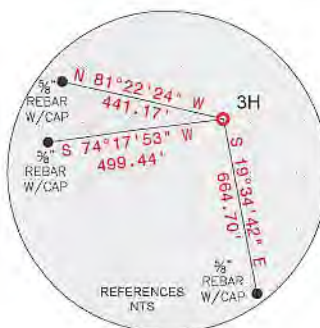
SURVEYOR/ENGINEER: 1-304-933-3463
1700 ANIMORE RD.
BRIDGEPORT, WV 26330

SURFACE HOLE LOCATION (SHL)
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,394,867.418
EASTING: 536,904.802
LANDING POINT (LPL)
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,394,857.768
EASTING: 537,836.781
BOTTOM HOLE LOCATION (BHL)
UTM (NAD83, ZONE 17, METERS):
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EASTING: 533,353.463
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EASTING: 537,831.578
BOTTOM HOLE LOCATION (BHL)
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,399,036.682
EASTING: 533,357.764

Latitude: 39°42'30" SURFACE HOLE 7,832'
Latitude: 39°45'00" BOTTOM HOLE 7,687'



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



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 89°03'46" E	420.89'	SHL TO MONUMENT	POST
L2	S 10°28'48" E	1,267.68'	SHL TO MONUMENT	POST
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 88°56'15" E	419.78'	SHL TO MONUMENT	POST
L2	S 10°25'21" E	1,268.36'	SHL TO MONUMENT	POST

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 88°24'24" E	3,057.83'	4,186.23'	SHL TO LPL
L4	N 47°02'31" W	20,098.31'	20,098.31'	LPL TO BHL
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 89°39'58" E	3,039.40'	4,222.35'	SHL TO LPL
L4	N 46°58'58" W	20,075.00'	20,075.00'	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.
- NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING FROTH STREAM WITHIN 100 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

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I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 983



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

COMPANY: **SWN** **SWN** ^{PA} ^{VA}
Production Company, LLC Production Company, LLC

OPERATOR'S WELL #: **3H**
API WELL #: **47 103 036440**
STATE: WV COUNTY: PERMIT:

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒
WATERSHED: UPPER OHIO-WHEELING ELEVATION: 1,411.1
DISTRICT: CENTER COUNTY: WETZEL QUADRANGLE: LITTLETON
SURFACE OWNER: HARRY RITER, JR. & VIOLET R. MENAS ACREAGE: ±63.55
OIL & GAS ROYALTY OWNER: CONSOL ENERGY ATTN: CASEY SAUNDERS ACREAGE: ±63.55
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: 7,607 TVD 29,072 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITANY 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

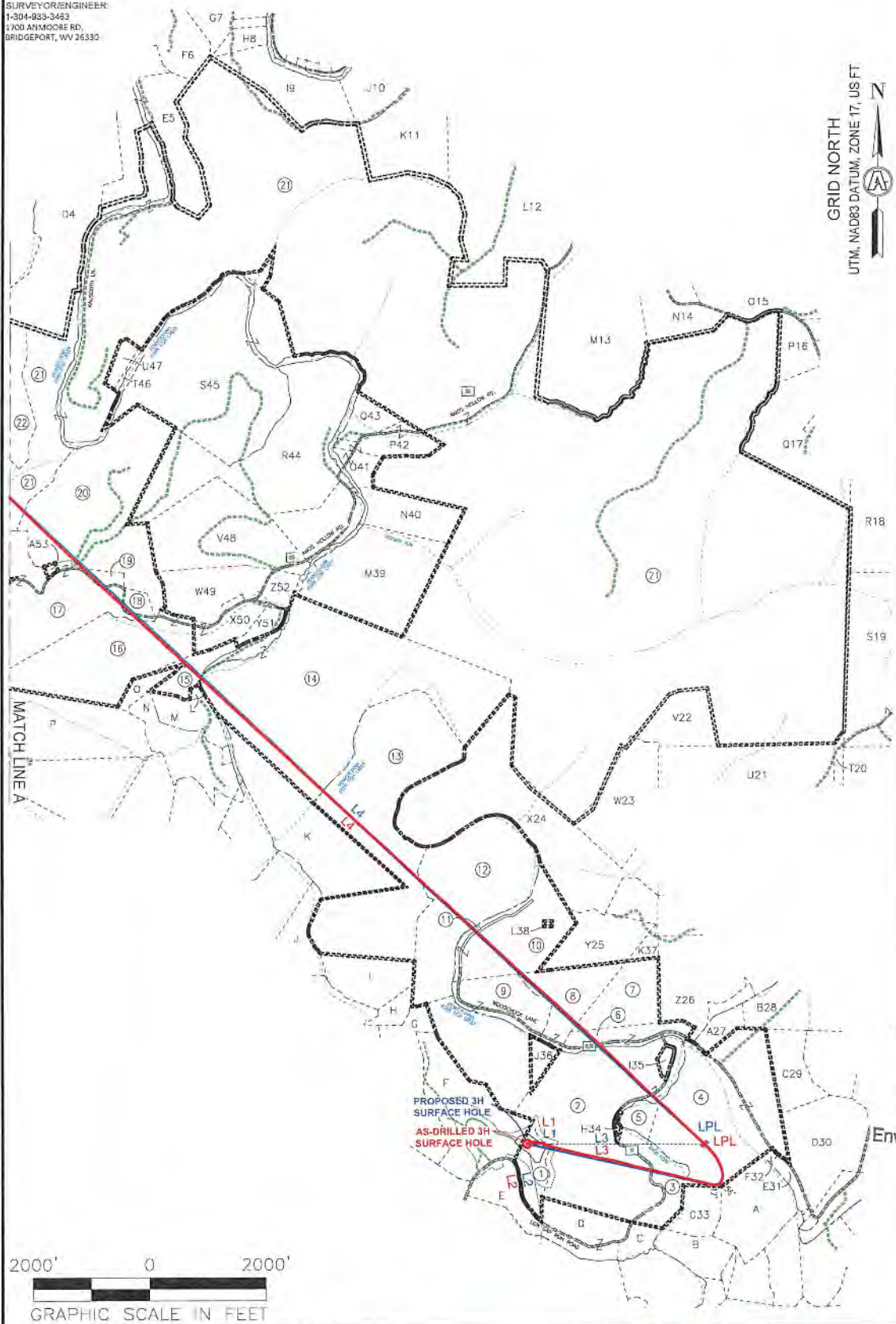
LEGEND:
PROPOSED SURFACE HOLE / BOTTOM HOLE
EXISTING / PRODUCING WELLHEAD
LPL: LANDING POINT LOCATION
FLOOD PLAIN
ACCESS ROAD
PUBLIC ROAD
ACCESS ROAD TO PREV. SITE
LEASE BOUNDARY
PROPOSED PATH
ASDRILLED PATH
REVISIONS:
DATE: 10-30-2024
DRAWN BY: TMF
SCALE: 1" = 2000'
DRAWING NO: 2549
WELL LOCATION PLAT

RECEIVED
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MAY 28 2025
WV Department of Environmental Protection

09/12/2025



SURVEYOR/ENGINEER:
1-304-933-3493
1700 ANIMOORE RD,
BRIDGEPORT, WV 26330



RECEIVED
Office of Oil and Gas
MAY 28 2025
WV Department of
Environmental Protection

REVIEWS:		COMPANY:	
		SWN Production Company, LLC	
		SWN Production Company™	
		DATE: 10-30-2024	
		DRAWN BY: TMF	
		SCALE: 1" = 2000'	
		DRAWING NO: 09/12/2025	
		WELL LOCATION PLAT 2	
OPERATOR'S		RITER WTZ	
WELL #:		3H	
DISTRICT:		COUNTY:	
CENTER		WETZEL	
		STATE:	
		WV	



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

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



WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	RITER HARRY JR & MENAS VIOLET R (S)/ CONSOL Energy (R)	1-5-19
2	BLAKE GAY KAREN & JOSEPH F	1-6-7
3	S&R INVESTMENTS	1-6-11
4	S&R INVESTMENTS	3-1-23
5	SHOWALTER THOMAS HRS	3-1-24
6	BERRY LAWRENCE C & DOROTHY J	1-6-8
7	WILLIAMS JOHN E HRS WILLIAMS JOHN EDWARD	1-6-4
8	SEIDLER BRIAN	1-6-3
9	SEIDLER BRIAN	1-15-11
10	SEIDLER BRIAN	1-5-10
11	SEIDLER E DALE & NETTIE L	1-5-10.1
12	SEIDLER E DALE & NETTIE L	1-2-6.2
13	WV STATE COMMERCE BUREAU OF NAT RESOURCE DIVISION	1-2-6
14	VELLEKOOP PETER B ET UX - TOD	7-27-13
15	GEHO ANNIE L EST	7-27-21
16	SCHANCK JOSEPH L	7-27-18
17	RIGGS JOHN E JR & DALENA	7-27-2
18	RIGGS DALENA ET VIR	7-27-3.1
19	RIGGS JOHN E & DALENA	7-27-2.1
20	HORNER DELORSE A	7-26-10
21	WVA WILDLIFE RESOURCES	7-24-1
22	MORGAN JAMES E - LIFE	7-26-14
23	ROMACK VICTOR A	7-19-38
24	HORNER JOHN M & TERESA L	7-19-36

2000' 0 2000'
GRAPHIC SCALE IN FEET

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN *R-V+0*
Production Company™

OPERATOR'S

RITER WTZ

DATE: 10-30-2024

WELL #:

3H

DRAWN BY: TMF

DISTRICT:
CENTER

COUNTY:
WETZEL

STATE:
WV

SCALE: 1"=2000'

DRAWING NO: 2501169744

WELL LOCATION PLAT 3

RECEIVED
Office of Oil and Gas

MAY 28 2025

WV Department of
Environmental Protection

09/12/2025



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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	WAYNE CARMINT REALTY LLC	3-1-26
B	S&R INVESTMENTS	3-5-1
C	S&R INVESTMENTS	1-6-10
D	GORBY STEPHEN H & BETH ANN	1-5-30
E	RITER HARRY JR MENAS VIOLET R	1-5-20
F	RITER HARRY JR MENAS VIOLET R	1-5-17
G	KOONTZ MICHAEL L KUHN SHAUN D	1-5-17.1
H	BROWN NEIL A TRUST	1-5-9
I	WV STATE OF COMM BUREAU OF NATURAL RESOURCES DIVISION	1-5-9.1
J	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	1-2-9
K	WV STATE COMMERCE BUREAU OF NAT RESOURCES DIVISION	1-2-12
L	FITZSIMMONS SCOTT M ET AL	7-27-14
M	FERDA BRIAN T ET UX	7-27-16
N	FERDA BRIAN T ET UX	7-27-15
O	WVA WILDLIFE RESOURCES SECTION	7-27-17
P	WADE EDWARD E JR	7-27-20
Q	MICELI VINCENTO ET UX	7-28-6
R	COX CHRISTOPHER & NIKKI	7-28-7
S	RICHMOND MATTHEW ALLAN	7-28-5
T	MORGAN JAMES E - LIFE	7-28-4
U	MORGAN JAMES E - LIFE	7-28-3
V	MASON DIXON FARMS LLC	7-28-2
W	BLAIR M ZACHARY	7-19-35
X	HORNER JOHN M & TERESA L	7-19-33
Y	HORNER JOHN M & TERESA L	7-19-32
Z	CHAMBERS MARY L	7-19-31
A1	HORNER JOHN M & TERESA L	7-19-30.1
B2	HORNER DELORESE A - LIFE	7-19-30
C3	GRIFFIN M PEGGY REVOCABLE LIVING TRUST	7-19-29
D4	GRIFFIN M PEGGY REVOCABLE LIVING TRUST	7-19-28
E5	FROMHART BRAD ET UX - LIFE	7-20-41
F6	UNDERDONK ALAN	7-16-25.1
G7	BURGE JUDITH A & VIRGINIA L BAILEY & SUELLEN MARLING - TOD	7-20-6
H8	GEHO ANNIE LEST	7-20-11
I9	BURLEY AMMON ET UX	7-20-12
J10	BURLEY AMMON	7-20-18
K11	BURLEY AMMON A	7-20-24
L12	BURLEY AMON A	7-20-37
M13	GRESHAW JASON M & MARY I	7-25-2
N14	BROWN ANDREW C III	7-25-6
O15	HARRINGTON CLYDE F	7-25-7
P16	WVA DEPT OF COMMERCE DIV OF NATURAL RESOURCES	7-25-9
Q17	CONAWAY THOMAS EARL JR & CAROLYN K STOWE	7-25-12
R18	CONAWAY THOMAS E	7-23-1
S19	PRENDERGAST MICHAEL J & SUELLEN LEMLEY	7-23-26
T20	LONG LONNY DAVID & LINDA SUE	1-3-2.1
U21	ABEREGG D W EST & ABEREGG WILLIAM D ETAL I/E ABEREGG DA	1-3-2
V22	WADE MICHAEL CLAY & MCCLELLAND LAWRENCE W - TOD ETAL	7-24-6
W23	WILLIAMS KATHERINE E TRUST	1-3-1
X24	SEIDLER EARL DALE & NETTIE	1-2-6.1
Y25	BLACKROCK ENTERPRISES LLC	1-6-1
Z26	MCGUFFIE ARCH	1-6-5
A27	MILLER HARVEY	3-1-7
B28	MILLIKEN KEVIN R ETAL	3-1-8
C29	PHILLIPS JR CHARLES R	3-1-22
D30	WAYNE CARMINT REALTY LLC	3-1-29
E31	WAYNE CARMINT REALTY LLC	3-1-28
F32	WAYNE CARMINT REALTY LLC	3-1-27
G33	S&R INVESTMENTS	3-1-23
H34	CONSOLIDATED GAS TRANS CORP	3-1-36

*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

TRACT	SURFACE OWNER	TAX PARCEL
I35	CONSOLIDATED GAS TRANSMISSION CORPORATION	1-6-9
J36	KOONTZ MICHAEL KUHN SHAUN D	1-5-34
K37	UNKNOWN	1-6-2
L38	UNKNOWN	1-2-11
M39	VELLEKOOP PETER B ET UX - TOD	7-27-11
N40	VELLEKOOP PETER B ET UX - TOD	7-27-10.1
O41	VELLEKOOP PETER B ET UX - TOD	7-26-6.2
P42	VELLEKOOP PETER B ET UX - TOD	7-26-6.1
Q43	GEDEON DANIEL D ET UX	7-26-6
R44	YOCUM JOSEPH LEE & MICHAEL D	7-26-9
S45	CONSOLIDATED GAS SUPPLY CORP	7-26-8
T46	BUTLER JOHN M & USA A	7-26-11.1
U47	HUNDRED RESOURCES INC	7-26-11
V48	YOCUM JOSEPH LEE & MICHAEL D	7-27-4
W49	YOCUM JOSEPH LEE & MICHAEL D	7-27-5
X50	OCHSENBEIN RICHARD L	7-27-9
Y51	BURGE DELORES E ET AL	7-27-10
Z52	HIGH PHILIP D	7-27-8
A53	DEBOLD HOWARD L ET UX	7-27-2.2
B54	RIGGS JOHN E JR & DELANA	7-27-1
C55	WADE SAMUEL C - TOD	7-27-2.3

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RECEIVED
Office of Oil and Gas

MAY 28 2025

WV Department of
Environmental Protection

REVISIONS:	COMPANY:	DATE: 10-30-2024	
	SWN Production Company, LLC	DRAWN BY: TMF	
	OPERATOR'S	SCALE: N/A	
	WELL #:	DRAWING NO: 09/12/2025	
	DISTRICT:	COUNTY:	WELL LOCATION PLAT 4
	CENTER	WETZEL	
		STATE:	
		WV	



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

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EASTING: 536,904.802

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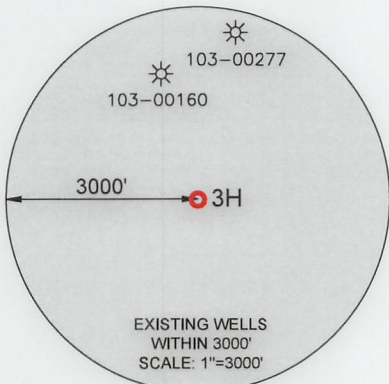
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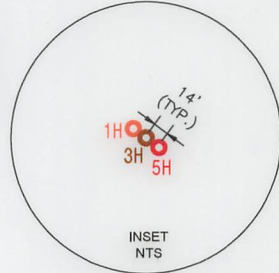
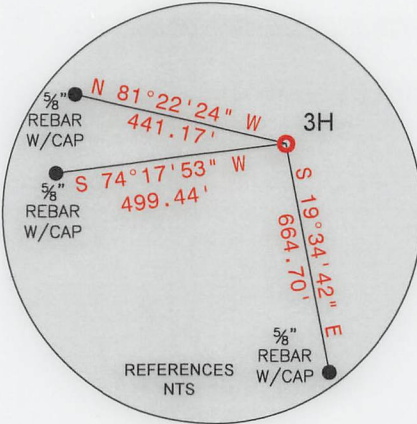
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GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

Longitude: 80°35'00" SURFACE HOLE 1,991'
Longitude: 80°32'30" SURFACE HOLE 1,991'

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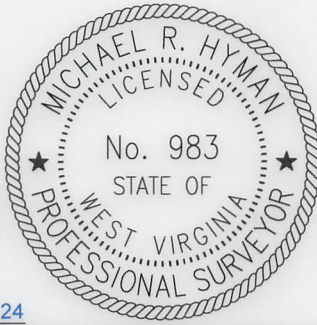
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P.S. 983 10-30-2024



2000' 0 2000'

GRAPHIC SCALE IN FEET

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

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

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

RITER WTZ
OPERATOR'S WELL #: 3H
API WELL #: 47 103 03644
STATE COUNTY PERMIT

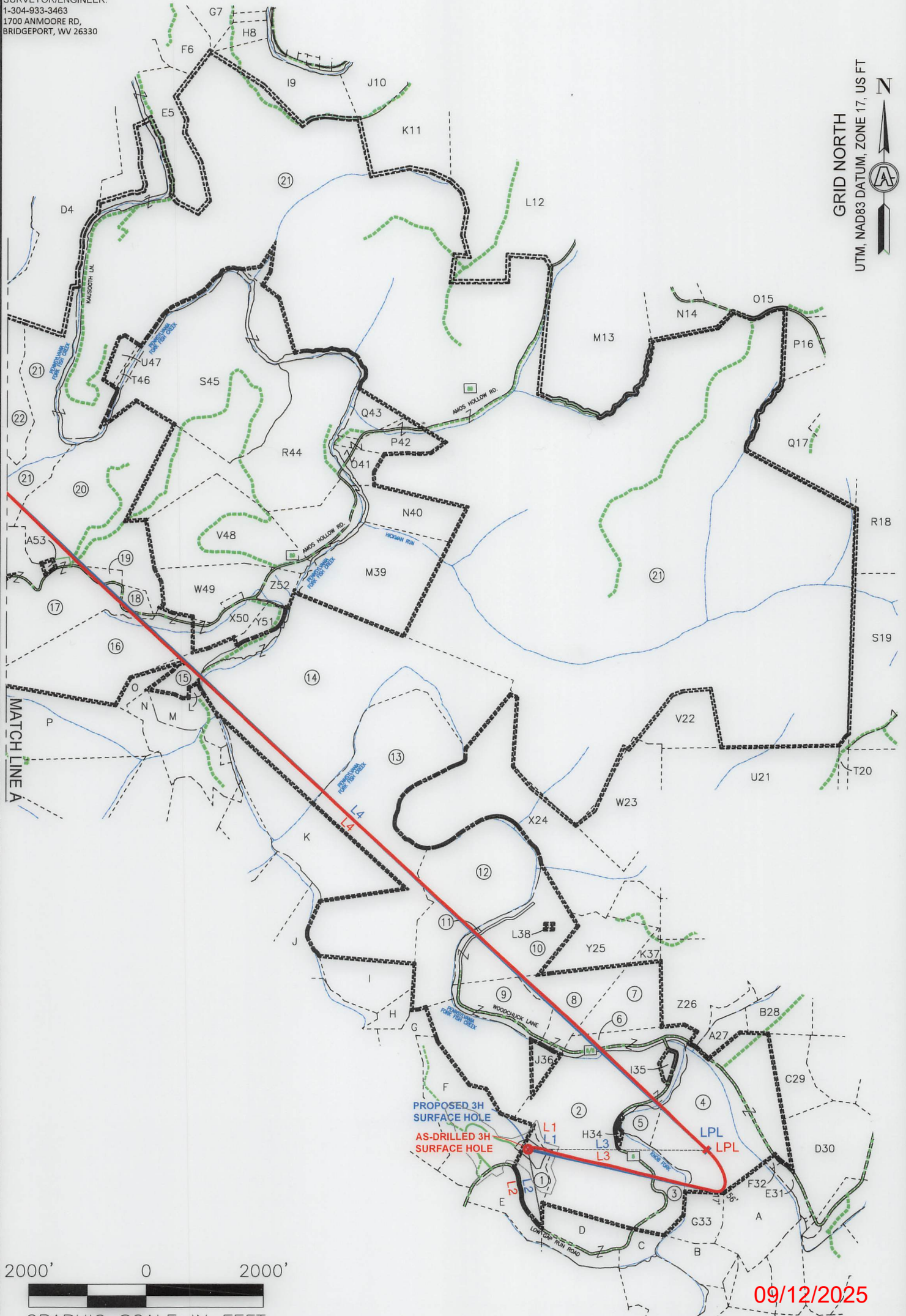
WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒
WATERSHED: UPPER OHIO-WHEELING ELEVATION: 1,411.1
DISTRICT: CENTER COUNTY: WETZEL QUADRANGLE: LITTLETON
SURFACE OWNER: HARRY RITER, JR. & VIOLET R. MENAS ACREAGE: ±63.55
OIL & GAS ROYALTY OWNER: CONSOL ENERGY ATTN: CASEY SAUNDERS ACREAGE: ±63.55
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: 7,807' TMD 29,072' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITANY 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: ACCESS ROAD
 PUBLIC ROAD
 ACCESS ROAD TO PREV. SITE
 LEASE BOUNDARY
 PROPOSED PATH
 ASDRILLED PATH
REVISIONS: DATE: 10-30-2024
DRAWN BY: TMF
SCALE: 1" = 2000'
DRAWING NO: 2549
WELL LOCATION PLAT



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



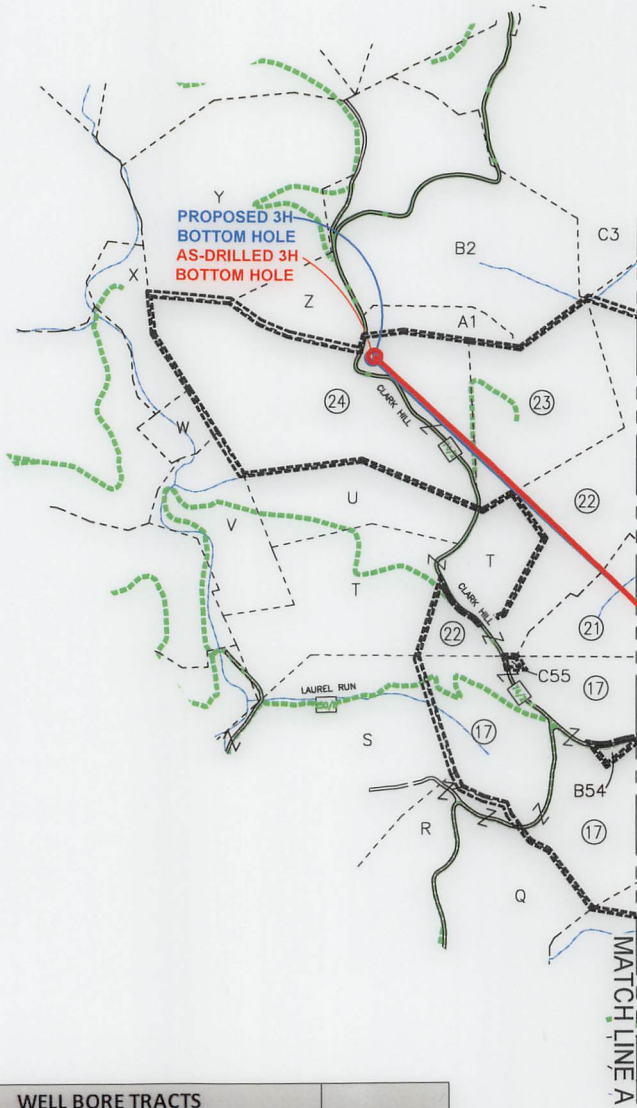
REVISIONS:

COMPANY:			
OPERATOR'S		RITER WTZ	
WELL #:		3H	
DISTRICT:		COUNTY:	STATE:
CENTER		WETZEL	WV
DATE:		10-30-2024	
DRAWN BY:		TMF	
SCALE:		1"=2000'	
DRAWING NO:		2549	
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



WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	RITER HARRY JR & MENAS VIOLET R (S)/ CONSOL Energy (R)	1-5-19
2	BLAKE GAY KAREN & JOSEPH F	1-6-7
3	S&R INVESTMENTS	1-6-11
4	S&R INVESTMENTS	3-1-23
5	SHOWALTER THOMAS HRS	3-1-24
6	BERRY LAWRENCE C & DOROTHY J	1-6-8
7	WILLIAMS JOHN E HRS WILLIAMS JOHN EDWARD	1-6-4
8	SEIDLER BRIAN	1-6-3
9	SEIDLER BRIAN	1-15-11
10	SEIDLER BRIAN	1-5-10
11	SEIDLER E DALE & NETTIE L	1-5-10.1
12	SEIDLER E DALE & NETTIE L	1-2-6.2
13	WV STATE COMMERCE BUREAU OF NAT RESOURCE DIVISION	1-2-6
14	VELLEKOOP PETER B ET UX - TOD	7-27-13
15	GEHO ANNIE L EST	7-27-21
16	SCHANCK JOSEPH L	7-27-18
17	RIGGS JOHN E JR & DELANA	7-27-2
18	RIGGS DALENA ET VIR	7-27-3.1
19	RIGGS JOHN E & DALENA	7-27-2.1
20	HORNER DELORSE A	7-26-10
21	W VA WILDLIFE RESOURCES	7-24-1
22	MORGAN JAMES E - LIFE	7-26-14
23	ROMACK VICTOR A	7-19-38
24	HORNER JOHN M & TERESA L	7-19-36



09/12/2025

REVISIONS:	COMPANY:				
	OPERATOR'S	RITER WTZ		DATE: 10-30-2024	
	WELL #:	3H		DRAWN BY: TMF	
	DISTRICT:	COUNTY:	STATE:	SCALE: 1"=2000'	
	CENTER	WETZEL	WV	DRAWING NO: 2549	
				WELL LOCATION PLAT 3	



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

	ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCEL
A	WAYNE CARMINT REALTY LLC	3-1-26
B	S&R INVESTMENTS	3-5-1
C	S&R INVESTMENTS	1-6-10
D	GORBY STEPHEN H & BETH ANN	1-5-30
E	RITER HARRY JR MENAS VIOLET R	1-5-20
F	RITER HARRY JR MENAS VIOLET R	1-5-17
G	KOONTZ MICHAEL L KUHN SHAUN D	1-5-17.1
H	BROWN NEIL A TRUST	1-5-9
I	WV STATE OF COMM BUREAU OF NATURAL RESOURCES DIVISION	1-5-9.1
J	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	1-2-9
K	WV STATE COMMERCE BUREAU OF NAT RESOURCES DIVISION	1-2-12
L	FITZSIMMONS SCOTT M ET AL	7-27-14
M	FERDA BRIAN T ET UX	7-27-16
N	FERDA BRIAN T ET UX	7-27-15
O	W VA WILD LIFE RESOURCES SECTION	7-27-17
P	WADE EDWARD E JR	7-27-20
Q	MICELI VINCENZO ET UX	7-28-6
R	COX CHRISTOPHER & NIKKI	7-28-7
S	RICHMOND MATTHEW ALLAN	7-28-5
T	MORGAN JAMES E - LIFE	7-28-4
U	MORGAN JAMES E - LIFE	7-28-3
V	MASON DIXON FARMS LLC	7-28-2
W	BLAIR M ZACHARY	7-19-35
X	HORNER JOHN M & TERESA L	7-19-33
Y	HORNER JOHN M & TERESA L	7-19-32
Z	CHAMBERS MARY L	7-19-31
A1	HORNER JOHN M & TERESA L	7-19-30.1
B2	HORNER DELORSE A - LIFE	7-19-30
C3	GRIBBEN M PEGGY REVOCABLE LIVING TRUST	7-19-29
D4	GRIBBEN M PEGGY REVOCABLE LIVING TRUST	7-19-28
E5	FROMHART BRAD ET UX - LIFE	7-20-41
F6	UNDERDONK ALAN	7-16-25.1
G7	BURGE JUDITH A & VIRGINIA L BAILEY & SUELLEN MARLUNG - TOD	7-20-6
H8	GEHO ANNIE L EST	7-20-11
I9	BURLEY AMMON ET UX	7-20-12
J10	BURLEY AMMON	7-20-18
K11	BURLEY AMMON A	7-20-24
L12	BURLEY AMON A	7-20-37
M13	GRESHAW JASON M & MARY L	7-25-2
N14	BROWN ANDREW C III	7-25-6
O15	HARRINGTON CLYDE F	7-25-7
P16	W VA DEPT OF COMMERCE DIV OF NATURAL RESOURCES	7-25-9
Q17	CONAWAY THOMAS EARL JR & CAROLYN K STOWE	7-25-12
R18	CONAWAY THOMAS E	7-23-1
S19	PRENDERGAST MICHAEL J & SUELLEN LEMLEY	7-23-26
T20	LONG LONNY DAVID & LINDA SUE	1-3-2.1
U21	ABEREGG D W EST & ABEREGG WILLIAM D ETAL L/E ABEREGG DA	1-3-2
V22	WADE MICHAEL CLAY & MCCELLAND LAWRENCE W - TOD ET AL	7-24-6
W23	WILLIAMS KATHERINE E TRUST	1-3-1
X24	SEIDLER EARL DALE & NETTIE	1-2-6.1
Y25	BLACKROCK ENTERPRISES LLC	1-6-1
Z26	MCGUFFIE ARCH	1-6-5
A27	MILLER HARVEY	3-1-7
B28	MILLIKEN KEVIN R ETAL	3-1-8
C29	PHILLIPS JR CHARLES R	3-1-22
D30	WAYNE CARMINT REALTY LLC	3-1-29
E31	WAYNE CARMINT REALTY LLC	3-1-28
F32	WAYNE CARMINT REALTY LLC	3-1-27
G33	S&R INVESTMENTS	3-1-25
H34	CONSOLIDATED GAS TRANS CORP	3-1-36
*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.		

TRACT	SURFACE OWNER	TAX PARCEL
I35	CONSOLIDATED GAS TRANSMISSION CORPORATION	1-6-9
J36	KOONTZ MICHAEL L KUHN SHAUN D	1-5-34
K37	UNKNOWN	1-6-2
L38	UNKNOWN	1-2-11
M39	VELLEKOOP PETER B ET UX - TOD	7-27-11
N40	VELLEKOOP PETER B ET UX - TOD	7-27-10.1
O41	VELLEKOOP PETER B ET UX - TOD	7-26-6.2
P42	VELLEKOOP PETER B ET UX - TOD	7-26-6.1
Q43	GEDEON DANIEL D ET UX	7-26-6
R44	YOCUM JOSEPH LEE & MICHAEL D	7-26-9
S45	CONSOLIDATED GAS SUPPLY CORP	7-26-8
T46	BUTLER JOHN M & LISA A	7-26-11.1
U47	HUNDRED RESOURCES INC	7-26-11
V48	YOCUM JOSEPH LEE & MICHAEL D	7-27-4
W49	YOCUM JOSEPH LEE & MICHAEL D	7-27-5
X50	OCHSENBEIN RICHARD L	7-27-9
Y51	BURGE DELORES E ET AL	7-27-10
Z52	HIGH PHILIP D	7-27-8
A53	DEBOLD HOWARD L ET UX	7-27-2.2
B54	RIGGS JOHN E JR & DELANA	7-27-1
C55	WADE SAMUEL C - TOD	7-27-2.3
*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.		

09/12/2025

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{R+V+}_A
Production Company™

OPERATOR'S			DATE: 10-30-2024
WELL #:			DRAWN BY: TMF
DISTRICT:			SCALE: N/A
CENTER			DRAWING NO: 2549
COUNTY:			WELL LOCATION PLAT 4
WETZEL			
STATE:			
WV			