

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

API 47009003350000 County BROOKE District CROSS CREEK
Quad STEUBENVILLE EAST, OH Pad Name NICK BALLATO-BRK-PADI Field/Pool Name PANHANDLE FIELD WET
Farm Name NICHOLAS & CHRISTOPHER BALLATO Well Number NICK BALLATO BRK 10H
Operator (as registered with the OOG) SWN Production Company LLC
Address PO Box 12359 City Spring State TX
Zip 77391-2359

As Drilled Location NAD83/UTM Attach an as-drilled plat, profile view, and deviation survey

Top Hole	Northing	<u>4,462,297.78</u>	Easting	<u>536,935.43</u>
Landing Point of Curve	Northing	<u>4,462,328.62</u>	Easting	<u>537,139.64</u>
Bottom Hole	Northing	<u>4,455,525.73</u>	Easting	<u>539,655.48</u>

Elevation (ft) 958.8' 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 ☐ Redrill ☐ Re-Work ☒ 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
See attached Mud Summary Report

Date permit issued 2023-05-22 Date drilling commenced 2023-06-08 Date drilling ceased 2023-06-27
Date Completion activities began 2023-07-19 Date Completion activities ceased 2023-09-21
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	<u>301'</u>	Open mine(s) (Y/N) depths	<u>N</u>
Salt water depth(s) ft	<u>790'</u>	Void(s) encountered (Y/N) depths	<u>N</u>
Coal depth(s) ft	<u>0'</u>	Cavern(s) encountered (Y/N) depths	<u>N</u>
Is coal being mined in area (Y/N)	<u>N</u>		

RECEIVED
Office of Oil and Gas

DEC 01 2023

WV Department of
Environmental Protection

Reviewed by: [Signature]

1/2/2024

API 47009003350000 Farm name NICHOLAS & CHRISTOPHER BALLATO Well number NICK BALLATO BRK 10H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Wt lb/ft	Grade	Basket Depth	Did cement circulate (Y/N) *Provide details below*
Conductor	20.000	20.000	136	NEW	94.00	J-55		Y
Surface	17.500	13.375	353	NEW	54.50	J-55	N/A	Y 30 BBLS
Coal								
Intermediate 1	12.250	9.625	1374	NEW	36.00	J-55		Y 37 BBLS
Intermediate 2								
Intermediate 3								
Production	8.500	5.500	30189	NEW	20.00	P-110 HP		N
Tubing		3.670	5778	NEW	6.50	P-110		N
Packer type and depth set								

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft3/sks)	Volume (ft2)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	393	15.6	1.19	467.67	SURFACE	8
Coal							
Intermediate 1	CLASS A	574	15.6	1.19	683.06	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	6992	14.5	1.29	9019.68	411'	24
Tubing							

Drillers TD (ft) 30,189' Loggers TD (ft) 30,189'
 Deepest formation penetrated MARCELLUS Plug back to (ft) 30,096'
 Plug back procedure N/A

Kick off depth (ft) 4,890' MD

Check all wireline logs run ☒ caliper ☒ density ☒ deviated/directional ☐ induction ☐ sonic
☒ 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: **6** CENTRALIZERS - EVERY THIRD JOINT OF CASING

INTERMEDIATE: **16** CENTRALIZERS - EVERY THIRD JOINT OF CASING

PRODUCTION: **710** 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 AS OPEN HOLE ☐ Yes ☒ No Details _____

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

RECEIVED
Office of Oil and Gas

DEC 01 2023

WV Department of
Environmental Protection

API 47009003350000 Farm name NICHOLAS & CHRISTOPHER BALLATO Well number NICK BALLATO BRK 10H

PERFORATION RECORD

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

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

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

Please insert additional pages as applicable.

RECEIVED
Office of Oil and Gas

DEC 01 2023

Department
Environmental Protection

DEC 01 2023

NICK BALLATO BRK 10H
ATTACHMENT 1
PERF REPORTWV Department of
Environmental Protection

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	8/9/2023	22,108	22,018	36
2	8/23/2023	21,984	21,807	36
3	8/23/2023	21,774	21,597	36
4	8/23/2023	21,564	21,387	36
5	8/24/2023	21,354	21,176	36
6	8/24/2023	21,143	20,966	36
7	8/24/2023	20,933	20,756	36
8	8/25/2023	20,723	20,546	36
9	8/25/2023	20,513	20,336	36
10	8/25/2023	20,303	20,126	36
11	8/25/2023	20,093	19,916	36
12	8/26/2023	19,882	19,705	36
13	8/26/2023	19,672	19,495	36
14	8/26/2023	19,462	19,285	36
15	8/26/2023	19,252	19,075	36
16	8/26/2023	19,042	18,865	36
17	8/27/2023	18,832	18,655	36
18	8/27/2023	18,622	18,444	36
19	8/27/2023	18,411	18,234	36
20	8/27/2023	18,201	18,024	36
21	8/27/2023	17,991	17,814	36
22	8/27/2023	17,781	17,604	36
23	8/27/2023	17,571	17,394	36
24	8/28/2023	17,361	17,184	36
25	8/28/2023	17,151	16,973	36
26	8/28/2023	16,940	16,763	36
27	8/28/2023	16,730	16,553	36
28	8/28/2023	16,520	16,343	36
29	8/28/2023	16,310	16,133	36
30	8/29/2023	16,100	15,923	36
31	8/29/2023	15,890	15,713	36
32	8/29/2023	15,679	15,502	36
33	8/29/2023	15,469	15,292	36
34	8/29/2023	15,259	15,082	36
35	8/29/2023	15,049	14,872	36
36	8/30/2023	14,839	14,662	36
37	8/30/2023	14,629	14,452	36
38	8/30/2023	14,419	14,241	36
39	8/30/2023	14,208	14,031	36
40	8/30/2023	13,998	13,821	36
41	8/31/2023	13,788	13,611	36
42	8/31/2023	13,578	13,401	36

NICK BALLATO BRK 10H

ATTACHMENT 1

PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
43	8/31/2023	13,368	13,191	36
44	8/31/2023	13,158	12,981	36
45	8/31/2023	12,948	12,770	36
46	8/31/2023	12,737	12,560	36
47	9/1/2023	12,527	12,350	36
48	9/1/2023	12,317	12,140	36
49	9/1/2023	12,107	11,930	36
50	9/1/2023	11,897	11,720	36
51	9/1/2023	11,687	11,510	36
52	9/2/2023	11,476	11,299	36
53	9/2/2023	11,266	11,089	36
54	9/2/2023	11,056	10,879	36
55	9/2/2023	10,846	10,669	36
56	9/2/2023	10,636	10,459	36
57	9/2/2023	10,426	10,249	36
58	9/3/2023	10,216	10,038	36
59	9/3/2023	10,005	9,828	36
60	9/3/2023	9,795	9,618	36
61	9/3/2023	9,585	9,408	36
62	9/3/2023	9,375	9,198	36
63	9/3/2023	9,165	8,988	36
64	9/4/2023	8,955	8,778	36
65	9/4/2023	8,745	8,567	36
66	9/4/2023	8,534	8,357	36
67	9/4/2023	8,324	8,147	36
68	9/4/2023	8,114	7,937	36
69	9/4/2023	7,904	7,727	36
70	9/5/2023	7,694	7,517	36
71	9/5/2023	7,484	7,307	36
72	9/5/2023	7,273	7,096	36
73	9/5/2023	7,063	6,886	36
74	9/5/2023	6,853	6,676	36
75	9/5/2023	6,643	6,466	36

RECEIVED
Office of Oil and Gas

DEC 01 2023

Department of
Environmental Protection

DEC 01 2023

NICK BALLATO BRK 10H

ATTACHMENT 2

STIM REPORT

Wv Department of
Environmental Protection

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/othe
1	8/23/2023	91.4	9,328	9,400	4,700	218,750	6,748	0
2	8/23/2023	97.1	9,870	5,906	4,491	374,560	9,448	0
3	8/23/2023	88	8,851	5,319	4,650	378,590	9,311	0
4	8/24/2023	98.1	9,155	6,224	4,554	372,940	9,511	0
5	8/24/2023	95.5	9,693	4,887	4,544	372,810	8,858	0
6	8/24/2023	95.3	9,662	5,265	3,900	374,340	8,409	0
7	8/24/2023	83.5	8,660	6,610	5,015	373,550	9,267	0
8	8/25/2023	83.4	8,265	6,572	4,422	376,460	9,804	0
9	8/25/2023	93.7	9,486	6,642	4,842	372,170	8,368	0
10	8/25/2023	83	8,238	6,440	4,895	372,580	9,094	0
11	8/25/2023	97.7	9,968	6,780	5,000	373,290	8,250	0
12	8/26/2023	94.4	9,119	6,350	4,890	375,020	8,095	0
13	8/26/2023	97.7	9,312	6,675	4,508	375,500	8,221	0
14	8/26/2023	98.5	9,501	6,209	5,177	370,320	8,375	0
15	8/26/2023	98.4	9,721	6,407	4,838	371,420	8,242	0
16	8/26/2023	91.7	9,250	6,610	4,890	368,120	8,044	0
17	8/27/2023	96.3	9,787	6,650	4,875	374,500	8,170	0
18	8/27/2023	97.1	9,335	6,490	4,632	378,200	8,153	0
19	8/27/2023	91.5	9,794	6,718	4,553	372,380	8,086	0
20	8/27/2023	96.2	9,681	6,225	4,552	374,480	8,051	0
21	8/27/2023	92.6	8,840	6,415	5,290	373,500	7,981	0
22	8/27/2023	98.3	9,367	6,385	4,830	376,900	8,241	0
23	8/28/2023	98	9,576	6,145	4,920	383,020	8,220	0
24	8/28/2023	90.8	8,256	6,405	4,593	387,160	8,537	0
25	8/28/2023	97.3	9,366	5,930	4,780	376,740	7,861	0
26	8/28/2023	96.4	9,601	6,096	4,825	377,950	8,081	0
27	8/28/2023	94.3	8,601	6,253	5,000	367,630	8,082	0
28	8/28/2023	92.1	8,854	6,500	5,000	375,640	7,878	0
29	8/28/2023	90.5	8,857	6,830	5,000	373,100	8,443	0
30	8/29/2023	88.9	8,651	6,607	4,416	375,270	8,176	0
31	8/29/2023	98.2	9,326	6,624	4,682	373,120	7,912	0
32	8/29/2023	91.5	8,815	6,159	4,647	369,640	7,923	0
33	8/29/2023	98.7	8,861	6,721	5,100	369,220	7,822	0
34	8/29/2023	91.6	8,590	6,685	4,845	375,920	7,769	0
35	8/30/2023	94	9,249	7,255	4,800	374,580	7,902	0
36	8/30/2023	97.1	8,873	6,717	4,567	379,140	8,193	0
37	8/30/2023	88.2	8,165	6,340	4,403	374,660	8,098	0
38	8/30/2023	91.6	8,606	6,560	4,499	374,800	8,174	0
39	8/30/2023	83.9	7,175	6,371	4,971	368,040	7,861	0
40	8/30/2023	80.1	7,777	7,628	4,854	368,780	8,027	0
41	8/31/2023	87.8	8,066	5,250	4,766	371,700	7,920	0
42	8/31/2023	84.6	7,750	6,293	4,675	368,040	7,846	0
43	8/31/2023	84	7,966	6,231	4,496	372,440	8,089	0
44	8/31/2023	85.5	7,777	6,523	4,715	373,760	7,885	0
45	8/31/2023	85.5	7,772	6,626	5,081	375,540	7,863	0
46	9/1/2023	84.6	7,725	6,125	5,221	372,880	7,734	0
47	9/1/2023	84.6	7,233	5,888	5,202	369,660	7,687	0
48	9/1/2023	89.9	7,713	6,318	4,262	381,500	7,765	0
49	9/1/2023	81.8	7,463	5,856	4,702	376,740	7,742	0
50	9/1/2023	82	7,378	6,125	4,916	367,500	7,600	0
51	9/1/2023	84.6	7,281	5,616	4,788	358,060	7,437	0
52	9/2/2023	83.6	7,330	6,207	5,424	371,900	7,719	0
53	9/2/2023	79	6,963	6,277	4,462	372,920	7,865	0

NICK BALLATO BRK 10H

ATTACHMENT 2

STIM REPORT

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/othe
54	9/2/2023	93.3	7,765	6,180	4,456	366,700	7,593	0
55	9/2/2023	92.7	7,412	6,494	4,276	370,480	7,510	0
56	9/2/2023	84	6,789	5,528	5,824	372,560	7,527	0
57	9/3/2023	89	7,509	5,592	4,558	363,540	7,511	0
58	9/3/2023	89.8	7,179	5,968	4,537	377,520	7,787	0
59	9/3/2023	92	7,264	6,164	4,308	372,360	7,746	0
60	9/3/2023	91.1	7,023	5,749	4,467	371,780	7,591	0
61	9/3/2023	90.7	7,367	5,767	4,427	374,280	7,333	0
62	9/3/2023	86.2	6,666	5,839	5,123	371,520	7,510	0
63	9/3/2023	80	6,534	5,656	5,544	370,940	7,627	0
64	9/4/2023	87.8	7,176	5,454	4,960	377,440	7,520	0
65	9/4/2023	81.1	6,556	6,021	4,439	371,240	7,587	0
66	9/4/2023	84.7	6,584	5,940	4,323	377,200	7,776	0
67	9/4/2023	84.1	6,722	6,479	4,399	370,260	7,436	0
68	9/4/2023	80	6,107	5,890	5,214	354,920	7,376	0
69	9/4/2023	80	6,164	5,444	4,988	373,740	7,531	0
70	9/5/2023	81.6	6,429	5,704	4,948	377,000	7,506	0
71	9/5/2023	83.5	6,510	5,925	4,731	325,220	6,856	0
72	9/5/2023	85.6	6,633	6,122	4,472	373,760	7,592	0
73	9/5/2023	88.5	6,429	5,942	4,546	374,800	7,580	0
74	9/5/2023	89	6,311	5,715	5,013	371,600	7,511	0
75	9/5/2023	79	6,215	5,366	4,375	380,350	7,795	0

RECEIVED
Office of Oil and Gas

DEC 01 2023

WV Department of
Environmental Protection

API 47009003350000 Farm name NICHOLAS & CHRISTOPHER BALLATO Well number NICK BALLATO BRK 10H

PRODUCING FORMATION(S)	DEPTHS		
MARCELLUS	5,467'	TVD	5,739' MD

Please insert additional pages applicable.

GAS TEST ☐ Build up ☐ Drawdown ☐ Open Flow OIL TEST ☐ Flow ☐ Pump

SHUT-IN PRESSURE Surface 2,471 psi Bottom Hole psi DURATION OF TEST (hrs)

OPEN FLOW GAS 7,732 mcpd OIL 1,494 bpd NGL bpd WATER 1,762 bpd GAS MEASURED BY ☐ Estimate ☐ Orifice ☐ Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESH WATER, BRINE, OIL, GAS, H2S, ETC)
-------------------------	--------------------------------	------------------------------	--------------------------	-----------------------------	--

	SEE ATTACHMENT 3				
					RECEIVED
					Office of Oil and Gas
					DEC 01 2023
					WV Department of Environmental Protection

Please insert additional pages as applicable

Drilling Contractor SWN DRILLING COMPANY
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

Logging Company BAKER HUGHES
Address 9110 GROGANS MILL RD City THE WOODLANDS State TX Zip 77380

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

Company SWN WELL SERVICES
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

Please insert additional pages as applicable.

Completed by CAROL A. PRUITT Telephone 832-796-3007
Signature  Title SR. REGULATORY SPECIALIST Date 11/29/2023



RECEIVED
Office of Oil and Gas
DEC 01 2023
WV Department of
Environmental Protection

Well Name: **NICK BALLATO BRK 10H**

47009003350000

LITHOLOGY/FORMATION	TOP DEPTH, MD (FT)	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, MD (FT)	BOTTOM DEPTH, TVD (FT)	QUANTITY AND TYPE OF FLUID
Base of Fresh Water	0.00	0.00	301.00	301.00	
Top of Salt Water	790.00	790.00	NA	NA	
Pittsburgh Coal	NA	NA	NA	NA	
Ravencliff (ss)	510.00	510.00	738.00	737.00	
Maxton (ss)	811.00	811.00	973.00	973.00	
Big Injun (ss)	1090.00	1090.00	1258.00	1257.00	
Berea (siltstone)	1528.00	1525.00	2013.00	2001.00	
Rhinestreet (shale)	5101.00	4975.00	5348.00	5207.00	
Cashaqua (shale)	5348.00	5207.00	5508.00	5335.00	
Tully (ls)	5508.00	5335.00	5589.00	5390.00	
Mahantango (shale)	5589.00	5390.00	5739.00	5467.00	
Marcellus (shale)	5739.00	5467.00	NA	NA	GAS

Hydraulic Fracturing Fluid Product Component Information Disclosure

RECEIVED
Office of Oil and Gas
DEC 01 2023
WV Department of Environmental Protection

Job Start Date:	7/20/2023
Job End Date:	8/14/2023
State:	West Virginia
County:	Brooke
API Number:	47-009-00335-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	NICK BALLATO BRK 10
Latitude:	40.31040532
Longitude:	-80.56530507
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,764
Total Base Water Volume (gal):	39,234,412
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Base Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	88.37404	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.30208	

			Water	7732-18-5	85.00000	0.30208	
HCL	SWN Well Services	Solvent					
				Listed Below			
Ferriplex 80	SWN Well Services	Iron Control					
				Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
Legen LD-7750W	SWN Well Services	Scale Inhibitor					
				Listed Below			
Excelerate LX-15	SWN Well Services	Friction Reducer					
				Listed Below			
MC MX 5-3886	SWN Well Services	Biocide					
				Listed Below			
Sand	SWN Well Services	Proppant					
				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
			Crystalline Silica, quartz	14808-60-7	100.00000	11.17533	
			Hydrochloric Acid	7647-01-0	15.00000	0.05061	
			Complex Amine Compound	Proprietary	50.00000	0.03199	

RECEIVED
Office of Oil and Gas
DEC 01 2023
Wy Department of
Environmental Protection

			Hydrotreated light petroleum distillate	64742-47-8	25.00000	0.01599	
			Surfactant	Proprietary	5.00000	0.00320	
			Sodium Erythorbate	6381-77-7	100.00000	0.00180	
			Ethoxylated alcohols	Proprietary	1.00000	0.00064	
			Ethylene glycol	107-21-1	40.00000	0.00021	
			Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	10.00000	0.00005	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00005	
			Cinnamaldehyde	104-55-2	10.00000	0.00005	
			Triethyl phosphate	78-40-0	5.00000	0.00003	
			benzyl chloridequaternized	72480-70-7	5.00000	0.00003	
			Isopropyl alcohol	67-63-0	5.00000	0.00003	
			1-Octanol	111-87-5	5.00000	0.00003	
			1-Decanol	112-30-1	5.00000	0.00003	
			2-Butoxyethanol	111-76-2	5.00000	0.00003	

RECEIVED
Office of Oil and Gas

DEC 01 2023

Environmental Protection

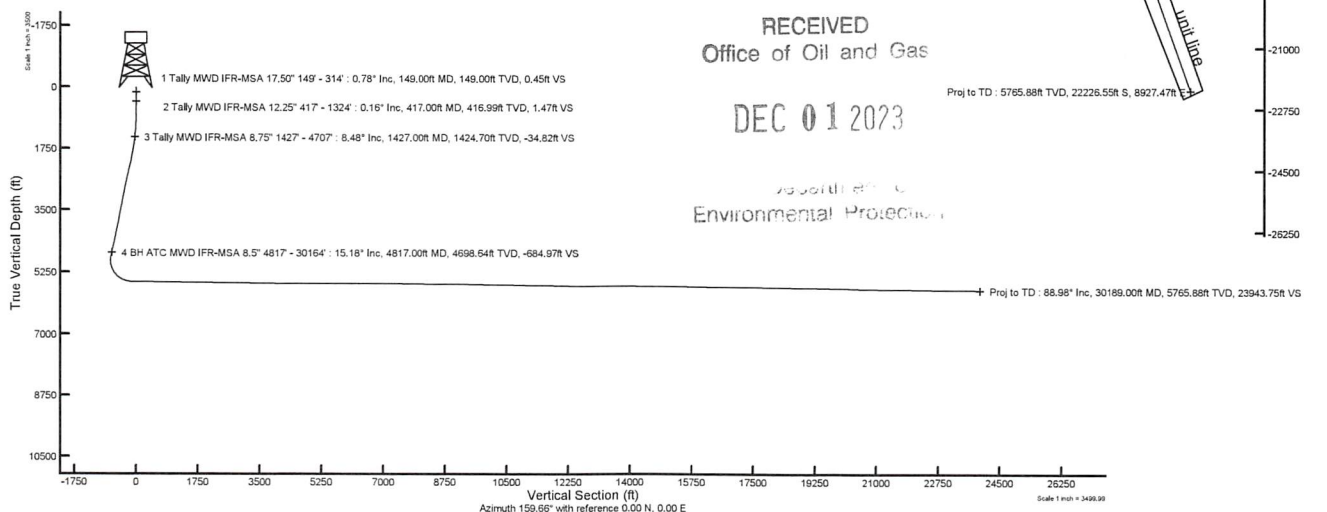
* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

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

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

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

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



Actual Wellpath Report

Nick Ballato BRK 10H awp Proj: 30189'
Page 1 of 14

RECEIVED
Office of Oil and Gas

DEC 01 2023

WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Nick Ballato BRK 10H
Field	Brooke	API	47009003350000
Facility	Nick Ballato BRK Pad	Wellbore	Nick Ballato BRK 10H AWB
Slot	10H		

REPORT SETUP INFORMATION

Projection System	NAD83 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Tranlam
Scale	0.999617	Report Generated	6/20/2023 at 3:33:21 PM
Convergence at slot	0.28° East	Database	WA_MPL_EASTERNUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-19.45	-9.93	1761595.65	14640055.31	40°18'37.3633"N	80°33'55.1624"W
Facility Reference Pt			1761605.58	14640074.75	40°18'37.5550"N	80°33'55.0330"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.4780"W

WELLPATH DATUM

Calculation method	Minimum curvature	SDC 40 (KB) to Facility Vertical Datum	984.90ft
Horizontal Reference Pt	Slot	SDC 40 (KB) to Mean Sea Level	984.90ft
Vertical Reference Pt	SDC 40 (KB)	SDC 40 (KB) to Ground Level at Slot (10H)	26.00ft
MD Reference Pt	SDC 40 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	159.66°

Actual Wellpath Report

Nick Ballato BRK 10H awp Proj: 30189'
Page 2 of 14

RECEIVED
Office of Oil and Gas
DEC 01 2023
WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Nick Ballato BRK 10H
Field	Brooke	API	47009003350000
Facility	Nick Ballato BRK Pad	Wellbore	Nick Ballato BRK 10H AWB
Slot	10H		

WELLPATH DATA (316 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
0.00†	0.000	102.370	0.00	0.00	0.00	0.00	1761595.65	14640055.31	40°18'37.3633"N	80°33'55.1624"W	0.00	0.000	0.00	
26.00	0.000	102.370	26.00	0.00	0.00	0.00	1761595.65	14640055.31	40°18'37.3633"N	80°33'55.1624"W	0.00	0.000	0.00	
149.00	0.780	102.370	149.00	0.45	-0.18	0.82	1761596.47	14640055.13	40°18'37.3615"N	80°33'55.1519"W	0.84	102.370	0.63	
238.00	0.610	95.120	237.99	0.98	-0.35	1.88	1761597.53	14640054.96	40°18'37.3597"N	80°33'55.1381"W	1.91	100.580	0.21	
314.00	0.330	104.050	313.99	1.28	-0.44	2.50	1761598.15	14640054.87	40°18'37.3588"N	80°33'55.1302"W	2.54	100.009	0.38	
417.00	0.160	78.530	416.99	1.47	-0.48	2.93	1761598.57	14640054.83	40°18'37.3584"N	80°33'55.1247"W	2.97	99.396	0.19	
507.00	0.500	260.480	506.99	1.42	-0.52	2.66	1761598.31	14640054.79	40°18'37.3580"N	80°33'55.1281"W	2.71	101.140	0.73	
598.00	0.910	269.060	597.98	1.10	-0.60	1.55	1761597.20	14640054.71	40°18'37.3573"N	80°33'55.1425"W	1.66	111.247	0.46	
689.00	1.240	258.360	688.96	0.71	-0.81	-0.14	1761595.51	14640054.50	40°18'37.3553"N	80°33'55.1643"W	0.82	189.771	0.42	
779.00	1.780	258.720	778.93	0.35	-1.28	-2.46	1761593.19	14640054.03	40°18'37.3507"N	80°33'55.1943"W	2.78	242.517	0.60	
870.00	1.640	263.550	869.89	-0.19	-1.70	-5.14	1761590.51	14640053.61	40°18'37.3467"N	80°33'55.2289"W	5.42	251.667	0.22	
962.00	1.560	273.090	961.85	-1.00	-1.79	-7.70	1761587.95	14640053.53	40°18'37.3460"N	80°33'55.2620"W	7.91	256.953	0.30	
1052.00	2.360	297.380	1051.80	-2.86	-0.87	-10.57	1761585.08	14640054.44	40°18'37.3552"N	80°33'55.2989"W	10.61	265.313	1.26	
1143.00	4.000	303.930	1142.66	-6.82	1.77	-14.87	1761580.79	14640057.08	40°18'37.3815"N	80°33'55.3542"W	14.97	276.776	1.84	
1233.00	6.030	303.830	1232.31	-13.21	6.15	-21.40	1761574.26	14640061.46	40°18'37.4251"N	80°33'55.4383"W	22.27	286.035	2.26	
1324.00	7.400	310.500	1322.69	-22.20	12.62	-29.83	1761565.83	14640067.92	40°18'37.4894"N	80°33'55.5466"W	32.39	292.930	1.73	
1427.00	8.480	313.640	1424.70	-34.82	22.17	-40.37	1761555.30	14640077.47	40°18'37.5843"N	80°33'55.6821"W	46.05	298.772	1.13	
1518.00	6.880	325.930	1514.88	-46.14	31.31	-48.28	1761547.39	14640086.61	40°18'37.6751"N	80°33'55.7836"W	57.54	302.968	2.51	
1609.00	7.530	346.360	1605.18	-57.36	41.63	-52.74	1761542.93	14640096.92	40°18'37.7772"N	80°33'55.8405"W	67.19	308.283	2.89	
1701.00	9.980	1.890	1696.11	-70.73	55.46	-53.90	1761541.77	14640110.74	40°18'37.9139"N	80°33'55.8546"W	77.33	315.816	3.68	
1791.00	11.740	10.200	1784.50	-85.84	72.26	-52.02	1761543.65	14640127.55	40°18'38.0799"N	80°33'55.8293"W	89.04	324.252	2.61	
1882.00	12.750	15.990	1873.44	-101.90	91.03	-47.61	1761548.06	14640146.30	40°18'38.2651"N	80°33'55.7712"W	102.73	332.388	1.75	
1973.00	13.470	21.980	1962.07	-117.83	110.51	-40.88	1761554.79	14640165.78	40°18'38.4573"N	80°33'55.6831"W	117.83	339.700	1.69	
2064.00	15.350	23.930	2050.20	-134.29	131.35	-32.03	1761563.64	14640186.61	40°18'38.6628"N	80°33'55.5675"W	135.20	346.297	2.13	
2156.00	17.300	23.880	2138.49	-152.82	154.99	-21.55	1761574.11	14640210.24	40°18'38.8959"N	80°33'55.4307"W	156.48	352.085	2.12	
2246.00	18.260	21.150	2224.19	-172.97	180.38	-11.04	1761584.61	14640235.62	40°18'39.1463"N	80°33'55.2935"W	180.72	356.496	1.41	
2338.00	17.590	23.160	2311.72	-193.85	206.60	-0.38	1761595.27	14640261.83	40°18'39.4049"N	80°33'55.1542"W	206.60	359.896	0.99	
2429.00	16.990	24.090	2398.61	-213.32	231.38	10.46	1761606.11	14640286.60	40°18'39.6492"N	80°33'55.0127"W	231.62	2.588	0.73	
2523.00	16.450	19.990	2488.64	-233.27	256.43	20.62	1761616.26	14640311.64	40°18'39.8962"N	80°33'54.8801"W	257.26	4.596	1.38	
2615.00	16.390	22.490	2576.89	-252.72	280.66	30.03	1761625.67	14640335.87	40°18'40.1353"N	80°33'54.7569"W	282.27	6.108	0.77	

Actual Wellpath Report

Nick Ballato BRK 10H awp Proj: 30189'
Page 3 of 14

RECEIVED
Office of Oil and Gas
DEC 01 2023
Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Nick Ballato BRK 10H
Field	Brooke	API	47009003350000
Facility	Nick Ballato BRK Pad	Wellbore	Nick Ballato BRK 10H AWB
Slot	10H		

WELLPATH DATA (316 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
2707.00	16.670	24.820	2665.09	-271.55	304.63	40.54	1761636.17	14640359.83	40°18'40.3716"N	80°33'54.6198"W	307.32	7.580	0.78	
2797.00	16.270	21.370	2751.40	-290.06	328.09	50.55	1761646.18	14640383.27	40°18'40.6029"N	80°33'54.4891"W	331.96	8.759	1.17	
2887.00	14.940	19.310	2838.08	-308.41	350.78	58.98	1761654.61	14640405.96	40°18'40.8267"N	80°33'54.3788"W	355.71	9.545	1.60	
2979.00	15.260	23.290	2926.90	-326.30	373.09	67.69	1761663.31	14640428.26	40°18'41.0468"N	80°33'54.2650"W	379.19	10.283	1.18	
3070.00	15.610	23.720	3014.62	-343.77	395.30	77.35	1761672.97	14640450.46	40°18'41.2658"N	80°33'54.1389"W	402.80	11.071	0.40	
3161.00	15.560	25.670	3102.28	-361.04	417.51	87.56	1761683.18	14640472.66	40°18'41.4848"N	80°33'54.0057"W	426.60	11.845	0.58	
3251.00	14.560	23.460	3189.18	-377.59	438.77	97.30	1761692.91	14640493.91	40°18'41.6944"N	80°33'53.8787"W	449.43	12.503	1.28	
3342.00	14.850	20.200	3277.21	-394.71	460.21	105.88	1761701.49	14640515.34	40°18'41.9058"N	80°33'53.7666"W	472.23	12.956	0.96	
3432.00	15.370	22.360	3364.09	-412.24	482.06	114.40	1761710.00	14640537.19	40°18'42.1213"N	80°33'53.6552"W	495.45	13.350	0.85	
3523.00	15.280	25.050	3451.86	-429.53	504.08	124.06	1761719.66	14640559.20	40°18'42.3384"N	80°33'53.5290"W	519.12	13.827	0.79	
3614.00	13.330	21.820	3540.04	-445.73	524.68	133.04	1761728.64	14640579.79	40°18'42.5416"N	80°33'53.4119"W	541.29	14.228	2.31	
3708.00	13.170	22.290	3631.53	-461.64	544.65	141.13	1761736.72	14640599.75	40°18'42.7385"N	80°33'53.3062"W	562.64	14.527	0.21	
3799.00	14.280	19.680	3719.93	-477.86	564.81	148.84	1761744.43	14640619.91	40°18'42.9374"N	80°33'53.2053"W	584.10	14.763	1.40	
3891.00	15.410	21.910	3808.86	-495.60	586.84	157.22	1761752.81	14640641.92	40°18'43.1546"N	80°33'53.0957"W	607.53	14.998	1.38	
3982.00	15.750	23.240	3896.52	-513.49	609.40	166.61	1761762.19	14640664.48	40°18'43.3771"N	80°33'52.9732"W	631.77	15.291	0.54	
4072.00	15.610	20.170	3983.17	-531.55	631.99	175.60	1761771.19	14640687.06	40°18'43.5999"N	80°33'52.8556"W	655.94	15.528	0.93	
4163.00	15.320	17.070	4070.88	-550.41	654.98	183.35	1761778.93	14640710.04	40°18'43.8267"N	80°33'52.7541"W	680.16	15.639	0.96	
4254.00	15.890	20.240	4158.52	-569.42	678.16	191.19	1761786.77	14640733.21	40°18'44.0554"N	80°33'52.6514"W	704.60	15.745	1.13	
4344.00	16.600	26.100	4244.94	-587.64	701.27	201.11	1761796.68	14640756.31	40°18'44.2832"N	80°33'52.5219"W	729.53	16.002	1.98	
4435.00	16.390	25.760	4332.19	-605.50	724.50	212.41	1761807.98	14640779.53	40°18'44.5123"N	80°33'52.3746"W	755.00	16.340	0.25	
4525.00	16.480	25.880	4418.51	-623.13	747.42	223.50	1761819.06	14640802.45	40°18'44.7382"N	80°33'52.2300"W	780.13	16.648	0.11	
4617.00	17.060	23.440	4506.60	-641.91	771.55	234.56	1761830.12	14640826.56	40°18'44.9761"N	80°33'52.0856"W	806.42	16.910	0.99	
4707.00	16.410	18.300	4592.80	-661.37	795.73	243.81	1761839.36	14640850.73	40°18'45.2146"N	80°33'51.9648"W	832.24	17.035	1.80	
4817.00	15.180	16.880	4698.64	-684.97	824.27	252.87	1761848.42	14640879.26	40°18'45.4961"N	80°33'51.8460"W	862.18	17.055	1.17	
4908.00	15.980	18.270	4786.30	-704.25	847.56	260.26	1761855.81	14640902.55	40°18'45.7260"N	80°33'51.7492"W	886.62	17.070	0.97	
5001.00	10.950	45.770	4876.80	-717.85	865.91	270.62	1761866.16	14640920.89	40°18'45.9068"N	80°33'51.6143"W	907.21	17.355	8.61	
5098.00	12.330	89.440	4971.98	-718.08	872.45	287.61	1761883.14	14640927.42	40°18'45.9706"N	80°33'51.3946"W	918.63	18.245	8.97	
5194.00	17.270	124.430	5064.95	-702.93	864.47	309.66	1761905.20	14640919.45	40°18'45.8907"N	80°33'51.1103"W	918.26	19.708	10.41	
5291.00	23.310	141.920	5155.97	-672.84	841.18	333.42	1761928.94	14640896.17	40°18'45.6594"N	80°33'50.8051"W	904.85	21.622	8.76	
5388.00	31.590	145.260	5241.98	-629.87	805.13	359.78	1761955.29	14640860.13	40°18'45.3019"N	80°33'50.4671"W	881.86	24.078	8.68	

Actual Wellpath Report

Nick Ballato BRK 10H awp Proj: 30189'
Page 4 of 14

RECEIVED
Office of Oil and Gas
DEC 01 2023
WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Nick Ballato BRK 10H
Field	Brooke	API	47009003350000
Facility	Nick Ballato BRK Pad	Wellbore	Nick Ballato BRK 10H AWB
Slot	10H		

WELLPATH DATA (316 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
5484.00	41.830	150.670	5318.86	-573.74	756.42	389.88	1761985.38	14640811.44	40°18'44.8190"N	80°33'50.0817"W	850.99	27.268	11.18	
5581.00	50.900	152.740	5385.73	-504.27	694.63	423.04	1762018.52	14640749.67	40°18'44.2068"N	80°33'49.6577"W	813.31	31.342	9.48	
5677.00	59.810	153.920	5440.25	-425.85	624.11	458.41	1762053.88	14640679.18	40°18'43.5082"N	80°33'49.2055"W	774.37	36.297	9.34	
5774.00	68.240	156.180	5482.70	-339.02	545.10	495.10	1762090.56	14640600.20	40°18'42.7257"N	80°33'48.7369"W	736.38	42.248	8.94	
5870.00	77.260	157.800	5511.14	-247.53	460.79	530.87	1762126.32	14640515.92	40°18'41.8908"N	80°33'48.2806"W	702.96	49.043	9.53	
5967.00	85.350	158.940	5525.79	-151.75	371.73	566.18	1762161.61	14640426.89	40°18'41.0090"N	80°33'47.8305"W	677.30	56.713	8.42	
6063.00	89.010	158.930	5530.51	-55.89	282.26	600.63	1762196.05	14640337.47	40°18'40.1233"N	80°33'47.3914"W	663.65	64.829	3.81	
6160.00	88.950	158.500	5532.24	41.08	191.90	635.84	1762231.24	14640247.13	40°18'39.2286"N	80°33'46.9427"W	664.16	73.206	0.45	
6257.00	89.510	159.960	5533.54	138.07	101.21	670.23	1762265.62	14640156.48	40°18'38.3308"N	80°33'46.5045"W	677.83	81.413	1.61	
6354.00	90.220	159.510	5533.77	235.07	10.22	703.83	1762299.21	14640065.52	40°18'37.4300"N	80°33'46.0767"W	703.90	89.168	0.87	
6451.00	89.350	160.130	5534.13	332.06	-80.83	737.29	1762332.66	14639974.51	40°18'36.5287"N	80°33'45.6505"W	741.71	96.256	1.10	
6547.00	89.200	160.010	5535.35	428.05	-171.07	770.01	1762365.37	14639884.30	40°18'35.6354"N	80°33'45.2339"W	788.79	102.526	0.20	
6644.00	89.290	159.720	5536.63	525.04	-262.13	803.40	1762398.74	14639793.28	40°18'34.7339"N	80°33'44.8088"W	845.08	108.071	0.31	
6740.00	89.420	159.820	5537.71	621.04	-352.21	836.59	1762431.92	14639703.24	40°18'33.8422"N	80°33'44.3860"W	907.71	112.831	0.17	
6837.00	89.780	159.710	5538.39	718.03	-443.22	870.14	1762465.46	14639612.26	40°18'32.9412"N	80°33'43.9588"W	976.52	116.993	0.39	
6933.00	89.780	160.290	5538.75	814.03	-533.43	902.98	1762498.28	14639522.09	40°18'32.0482"N	80°33'43.5408"W	1048.77	120.572	0.60	
7029.00	89.290	160.540	5539.53	910.02	-623.87	935.15	1762530.44	14639431.68	40°18'31.1529"N	80°33'43.1312"W	1124.16	123.708	0.57	
7126.00	89.600	160.690	5540.47	1007.00	-715.37	967.35	1762562.63	14639340.22	40°18'30.2472"N	80°33'42.7215"W	1203.13	126.483	0.36	
7223.00	89.420	160.940	5541.30	1103.98	-806.98	999.22	1762594.49	14639248.64	40°18'29.3404"N	80°33'42.3159"W	1284.39	128.924	0.32	
7319.00	89.780	161.310	5541.97	1199.94	-897.81	1030.28	1762625.53	14639157.84	40°18'28.4412"N	80°33'41.9208"W	1366.58	131.070	0.54	
7416.00	89.630	160.750	5542.47	1296.91	-989.54	1061.81	1762657.05	14639066.15	40°18'27.5333"N	80°33'41.5197"W	1451.42	132.982	0.60	
7512.00	89.290	160.610	5543.38	1392.90	-1080.13	1093.57	1762688.80	14638975.60	40°18'26.6365"N	80°33'41.1155"W	1537.07	134.646	0.38	
7608.00	89.170	160.650	5544.67	1488.87	-1170.69	1125.41	1762720.62	14638885.07	40°18'25.7401"N	80°33'40.7104"W	1623.90	136.130	0.13	
7705.00	89.170	160.860	5546.07	1585.84	-1262.26	1157.38	1762752.58	14638793.54	40°18'24.8337"N	80°33'40.3036"W	1712.55	137.482	0.22	
7802.00	89.540	163.400	5547.16	1682.74	-1354.57	1187.14	1762782.33	14638701.27	40°18'23.9201"N	80°33'39.9254"W	1801.15	138.769	2.65	
7898.00	88.860	164.760	5548.50	1778.44	-1446.87	1213.47	1762808.65	14638609.00	40°18'23.0066"N	80°33'39.5914"W	1888.37	140.014	1.58	
7995.00	89.480	165.110	5549.91	1875.02	-1540.53	1238.67	1762833.85	14638515.38	40°18'22.0799"N	80°33'39.2721"W	1976.75	141.199	0.73	
8091.00	89.230	164.730	5550.99	1970.61	-1633.22	1263.65	1762858.81	14638422.72	40°18'21.1628"N	80°33'38.9556"W	2064.99	142.270	0.47	
8188.00	89.230	164.840	5552.29	2067.21	-1726.81	1289.10	1762884.26	14638329.17	40°18'20.2367"N	80°33'38.6331"W	2154.91	143.258	0.11	
8285.00	89.140	164.630	5553.67	2163.82	-1820.38	1314.64	1762909.78	14638235.64	40°18'19.3108"N	80°33'38.3095"W	2245.45	144.164	0.24	

Actual Wellpath Report

Nick Ballato BRK 10H awp Proj: 30189'
Page 5 of 14

RECEIVED
Office of Oil and Gas
DEC 01 2023
WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Nick Ballato BRK 10H
Field	Brooke	API	47009003350000
Facility	Nick Ballato BRK Pad	Wellbore	Nick Ballato BRK 10H AWB
Slot	10H		

WELLPATH DATA (316 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
8381.00	89.290	164.630	5554.99	2259.45	-1912.93	1340.08	1762935.22	14638143.11	40°18'18.3950"N	80°33'37.9870"W	2335.62	144.987	0.16	
8478.00	89.380	164.980	5556.11	2356.06	-2006.54	1365.50	1762960.63	14638049.55	40°18'17.4688"N	80°33'37.6649"W	2427.09	145.764	0.37	
8575.00	89.320	165.090	5557.21	2452.62	-2100.24	1390.55	1762985.66	14637955.88	40°18'16.5416"N	80°33'37.3476"W	2518.86	146.492	0.13	
8671.00	89.010	164.620	5558.61	2548.22	-2192.89	1415.63	1763010.73	14637863.26	40°18'15.6248"N	80°33'37.0298"W	2610.13	147.156	0.59	
8768.00	89.660	165.080	5559.74	2644.81	-2286.52	1440.98	1763036.07	14637769.67	40°18'14.6984"N	80°33'36.7087"W	2702.70	147.781	0.82	
8864.00	88.980	164.630	5560.88	2740.41	-2379.17	1466.06	1763061.14	14637677.05	40°18'13.7815"N	80°33'36.3909"W	2794.60	148.358	0.85	
8961.00	89.290	164.980	5562.34	2837.01	-2472.77	1491.48	1763086.55	14637583.49	40°18'12.8554"N	80°33'36.0688"W	2887.75	148.903	0.48	
9057.00	89.660	164.510	5563.22	2932.63	-2565.39	1516.74	1763111.80	14637490.91	40°18'11.9390"N	80°33'35.7488"W	2980.22	149.407	0.62	
9154.00	89.230	164.970	5564.16	3029.24	-2658.96	1542.26	1763137.32	14637397.37	40°18'11.0130"N	80°33'35.4253"W	3073.87	149.885	0.65	
9251.00	89.660	164.760	5565.10	3125.84	-2752.59	1567.59	1763162.64	14637303.78	40°18'10.0866"N	80°33'35.1044"W	3167.66	150.339	0.49	
9347.00	89.690	164.700	5565.65	3221.46	-2845.20	1592.87	1763187.91	14637211.21	40°18'9.1702"N	80°33'34.7840"W	3260.74	150.758	0.07	
9444.00	89.510	164.110	5566.32	3318.12	-2938.63	1618.95	1763213.98	14637117.81	40°18'8.2457"N	80°33'34.4535"W	3355.07	151.149	0.64	
9541.00	89.600	164.700	5567.08	3414.79	-3032.05	1645.03	1763240.04	14637024.42	40°18'7.3212"N	80°33'34.1229"W	3449.56	151.518	0.62	
9637.00	89.780	165.350	5567.60	3510.37	-3124.79	1669.83	1763264.84	14636931.72	40°18'6.4036"N	80°33'33.8087"W	3542.97	151.881	0.70	
9733.00	89.630	164.900	5568.09	3605.93	-3217.57	1694.47	1763289.47	14636838.98	40°18'5.4855"N	80°33'33.4966"W	3636.48	152.227	0.49	
9830.00	89.290	164.790	5569.00	3702.53	-3311.19	1719.83	1763314.82	14636745.39	40°18'4.5592"N	80°33'33.1753"W	3731.20	152.553	0.37	
9926.00	89.780	163.880	5569.78	3798.20	-3403.62	1745.75	1763340.73	14636653.00	40°18'3.6445"N	80°33'32.8467"W	3825.22	152.846	1.08	
10023.00	89.200	164.470	5570.65	3894.90	-3496.94	1772.20	1763367.17	14636559.71	40°18'2.7211"N	80°33'32.5114"W	3920.37	153.125	0.85	
10120.00	89.010	163.620	5572.16	3991.60	-3590.19	1798.86	1763393.82	14636466.50	40°18'1.7983"N	80°33'32.1733"W	4015.65	153.387	0.90	
10216.00	89.750	164.300	5573.20	4087.32	-3682.45	1825.39	1763420.33	14636374.28	40°18'0.8853"N	80°33'31.8369"W	4110.05	153.632	1.05	
10313.00	89.940	165.050	5573.46	4183.95	-3776.00	1851.02	1763445.96	14636280.76	40°17'59.9596"N	80°33'31.5120"W	4205.29	153.886	0.80	
10410.00	88.980	165.680	5574.38	4280.46	-3869.85	1875.53	1763470.46	14636186.95	40°17'59.0311"N	80°33'31.2018"W	4300.39	154.143	1.18	
10506.00	89.380	164.200	5575.75	4376.04	-3962.54	1900.47	1763495.39	14636094.30	40°17'58.1139"N	80°33'30.8858"W	4394.71	154.377	1.60	
10603.00	89.510	163.840	5576.69	4472.76	-4055.79	1927.17	1763522.08	14636001.09	40°17'57.1911"N	80°33'30.5472"W	4490.37	154.585	0.39	
10700.00	89.850	164.410	5577.23	4569.46	-4149.08	1953.71	1763548.60	14635907.82	40°17'56.2679"N	80°33'30.2108"W	4586.05	154.785	0.68	
10796.00	89.630	164.530	5577.67	4665.12	-4241.58	1979.41	1763574.30	14635815.37	40°17'55.3526"N	80°33'29.8850"W	4680.71	154.983	0.26	
10893.00	90.280	165.160	5577.75	4761.73	-4335.20	2004.77	1763599.65	14635721.78	40°17'54.4262"N	80°33'29.5638"W	4776.30	155.182	0.93	
10990.00	89.970	164.600	5577.53	4858.32	-4428.84	2030.07	1763624.94	14635628.17	40°17'53.4996"N	80°33'29.2433"W	4871.94	155.374	0.66	
11086.00	90.090	164.180	5577.48	4954.00	-4521.30	2055.90	1763650.76	14635535.75	40°17'52.5847"N	80°33'28.9158"W	4966.78	155.548	0.46	
11183.00	89.850	164.220	5577.53	5050.69	-4614.64	2082.31	1763677.16	14635442.45	40°17'51.6611"N	80°33'28.5810"W	5062.70	155.713	0.25	

Actual Wellpath Report

Nick Ballato BRK 10H awp Proj: 30189'
Page 6 of 14

RECEIVED
Office of Oil and Gas

DEC 01 2023

WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Nick Ballato BRK 10H
Field	Brooke	API	47009003350000
Facility	Nick Ballato BRK Pad	Wellbore	Nick Ballato BRK 10H AWB
Slot	10H		

WELLPATH DATA (316 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
11280.00	89.780	164.370	5577.85	5147.37	-4708.02	2108.57	1763703.41	14635349.11	40°17'50.7371"N	80°33'28.2481"W	5158.63	155.874	0.17	
11376.00	90.400	165.290	5577.70	5242.98	-4800.67	2133.69	1763728.52	14635256.49	40°17'49.8202"N	80°33'27.9299"W	5253.48	156.037	1.16	
11473.00	89.970	164.340	5577.38	5339.59	-4894.28	2159.10	1763753.92	14635162.91	40°17'48.8940"N	80°33'27.6080"W	5349.36	156.195	1.08	
11570.00	90.310	164.290	5577.15	5436.27	-4987.67	2185.32	1763780.13	14635069.56	40°17'47.9698"N	80°33'27.2756"W	5445.41	156.340	0.35	
11666.00	90.340	164.440	5576.60	5531.94	-5080.12	2211.19	1763805.99	14634977.15	40°17'47.0550"N	80°33'26.9477"W	5540.48	156.478	0.16	
11763.00	90.060	164.870	5576.26	5628.57	-5173.66	2236.86	1763831.65	14634883.65	40°17'46.1294"N	80°33'26.6225"W	5636.51	156.618	0.53	
11860.00	89.660	164.310	5576.50	5725.21	-5267.17	2262.64	1763857.42	14634790.17	40°17'45.2041"N	80°33'26.2959"W	5732.59	156.753	0.71	
11956.00	89.910	164.510	5576.86	5820.88	-5359.64	2288.44	1763883.21	14634697.74	40°17'44.2891"N	80°33'25.9689"W	5827.75	156.879	0.33	
12053.00	89.940	164.390	5576.99	5917.54	-5453.09	2314.44	1763909.20	14634604.33	40°17'43.3644"N	80°33'25.6393"W	5923.92	157.002	0.13	
12150.00	89.880	164.400	5577.14	6014.21	-5546.51	2340.53	1763935.28	14634510.94	40°17'42.4399"N	80°33'25.3086"W	6020.12	157.121	0.06	
12246.00	90.090	164.440	5577.16	6109.88	-5638.98	2366.32	1763961.06	14634418.50	40°17'41.5248"N	80°33'24.9818"W	6115.36	157.235	0.22	
12343.00	89.850	163.350	5577.22	6206.61	-5732.17	2393.23	1763987.95	14634325.34	40°17'40.6026"N	80°33'24.6406"W	6211.71	157.339	1.15	
12439.00	89.910	163.790	5577.42	6302.39	-5824.25	2420.38	1764015.10	14634233.30	40°17'39.6914"N	80°33'24.2961"W	6307.15	157.434	0.46	
12535.00	90.000	163.810	5577.49	6398.14	-5916.44	2447.16	1764041.87	14634141.15	40°17'38.7791"N	80°33'23.9564"W	6402.57	157.529	0.10	
12632.00	89.780	163.190	5577.68	6494.92	-6009.45	2474.71	1764069.41	14634048.18	40°17'37.8587"N	80°33'23.6069"W	6499.05	157.618	0.68	
12728.00	90.120	163.790	5577.76	6590.71	-6101.49	2501.99	1764096.68	14633956.17	40°17'36.9478"N	80°33'23.2608"W	6594.55	157.703	0.72	
12825.00	89.510	163.530	5578.08	6687.47	-6194.57	2529.28	1764123.96	14633863.13	40°17'36.0266"N	80°33'22.9147"W	6691.03	157.789	0.68	
12921.00	89.420	163.160	5578.97	6783.27	-6286.54	2556.79	1764151.46	14633771.19	40°17'35.1165"N	80°33'22.5655"W	6786.59	157.868	0.40	
13018.00	89.880	163.770	5579.56	6880.05	-6379.52	2584.40	1764179.05	14633678.24	40°17'34.1962"N	80°33'22.2153"W	6883.13	157.947	0.79	
13114.00	89.480	162.900	5580.10	6975.85	-6471.49	2611.93	1764206.57	14633586.31	40°17'33.2861"N	80°33'21.8660"W	6978.71	158.021	1.00	
13211.00	90.250	163.470	5580.33	7072.67	-6564.34	2639.99	1764234.62	14633493.50	40°17'32.3672"N	80°33'21.5099"W	7075.32	158.091	0.99	
13307.00	89.910	163.260	5580.19	7168.46	-6656.32	2667.47	1764262.09	14633401.55	40°17'31.4569"N	80°33'21.1612"W	7170.92	158.162	0.42	
13404.00	89.050	161.720	5581.08	7265.34	-6748.82	2696.65	1764291.27	14633309.09	40°17'30.5414"N	80°33'20.7906"W	7267.63	158.220	1.82	
13500.00	89.630	163.680	5582.18	7361.19	-6840.47	2725.20	1764319.80	14633217.48	40°17'29.6344"N	80°33'20.4282"W	7363.33	158.278	2.13	
13597.00	89.910	164.220	5582.57	7457.92	-6933.68	2752.02	1764346.61	14633124.30	40°17'28.7119"N	80°33'20.0881"W	7459.86	158.352	0.63	
13693.00	89.260	164.530	5583.27	7553.59	-7026.13	2777.87	1764372.45	14633031.88	40°17'27.7971"N	80°33'19.7605"W	7555.34	158.428	0.75	
13789.00	89.480	164.770	5584.32	7649.22	-7118.70	2803.28	1764397.85	14632939.35	40°17'26.8811"N	80°33'19.4385"W	7650.77	158.506	0.34	
13886.00	89.380	164.360	5585.29	7745.86	-7212.20	2829.10	1764423.66	14632845.89	40°17'25.9559"N	80°33'19.1115"W	7747.23	158.582	0.44	
13982.00	90.060	164.930	5585.76	7841.50	-7304.77	2854.52	1764449.07	14632753.35	40°17'25.0398"N	80°33'18.7894"W	7842.70	158.656	0.92	
14079.00	89.170	164.740	5586.41	7938.10	-7398.39	2879.89	1764474.43	14632659.77	40°17'24.1135"N	80°33'18.4681"W	7939.14	158.731	0.94	

Actual Wellpath Report

Nick Ballato BRK 10H awp Proj: 30189'
Page 7 of 14

RECEIVED
Office of Oil and Gas

DEC 01 2023

NY Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Nick Ballato BRK 10H
Field	Brooke	API	47009003350000
Facility	Nick Ballato BRK Pad	Wellbore	Nick Ballato BRK 10H AWB
Slot	10H		

WELLPATH DATA (316 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
14176.00	89.450	164.560	5587.58	8034.72	-7491.92	2905.57	1764500.10	14632566.27	40°17'23.1879"N	80°33'18.1428"W	8035.62	158.802	0.34	
14272.00	89.350	164.470	5588.58	8130.37	-7584.43	2931.20	1764525.72	14632473.80	40°17'22.2725"N	80°33'17.8181"W	8131.15	158.870	0.14	
14369.00	89.450	164.330	5589.60	8227.04	-7677.85	2957.28	1764551.79	14632380.41	40°17'21.3481"N	80°33'17.4876"W	8227.69	158.935	0.18	
14465.00	89.720	164.310	5590.29	8322.72	-7770.28	2983.23	1764577.73	14632288.02	40°17'20.4334"N	80°33'17.1588"W	8323.27	158.997	0.28	
14562.00	89.350	164.510	5591.08	8419.38	-7863.71	3009.29	1764603.78	14632194.63	40°17'19.5089"N	80°33'16.8284"W	8419.84	159.059	0.43	
14658.00	89.230	164.370	5592.27	8515.04	-7956.18	3035.04	1764629.52	14632102.19	40°17'18.5938"N	80°33'16.5022"W	8515.42	159.120	0.19	
14755.00	89.260	164.210	5593.55	8611.71	-8049.55	3061.31	1764655.78	14632008.86	40°17'17.6699"N	80°33'16.1693"W	8612.02	159.178	0.17	
14851.00	89.630	164.590	5594.48	8707.38	-8142.01	3087.12	1764681.58	14631916.44	40°17'16.7550"N	80°33'15.8422"W	8707.62	159.235	0.55	
14948.00	89.510	164.570	5595.20	8804.02	-8235.51	3112.91	1764707.36	14631822.97	40°17'15.8297"N	80°33'15.5155"W	8804.20	159.294	0.13	
15045.00	89.480	164.970	5596.06	8900.63	-8329.10	3138.39	1764732.83	14631729.41	40°17'14.9036"N	80°33'15.1928"W	8900.76	159.354	0.41	
15141.00	89.480	164.800	5596.93	8996.23	-8421.78	3163.42	1764757.85	14631636.78	40°17'13.9866"N	80°33'14.8758"W	8996.31	159.413	0.18	
15238.00	89.480	164.710	5597.81	9092.84	-8515.36	3188.93	1764783.35	14631543.23	40°17'13.0605"N	80°33'14.5527"W	9092.89	159.470	0.09	
15335.00	89.480	164.750	5598.69	9189.46	-8608.93	3214.47	1764808.89	14631449.69	40°17'12.1346"N	80°33'14.2292"W	9189.48	159.525	0.04	
15431.00	89.450	164.920	5599.59	9285.06	-8701.59	3239.59	1764833.99	14631357.08	40°17'11.2178"N	80°33'13.9112"W	9285.07	159.580	0.18	
15528.00	89.780	164.260	5600.24	9381.70	-8795.10	3265.36	1764859.75	14631263.60	40°17'10.2925"N	80°33'13.5847"W	9381.70	159.632	0.76	
15624.00	88.090	164.330	5602.02	9477.37	-8887.49	3291.34	1764885.72	14631171.24	40°17'9.3782"N	80°33'13.2554"W	9477.37	159.679	1.76	
15721.00	89.570	163.030	5604.00	9574.10	-8980.56	3318.59	1764912.96	14631078.21	40°17'8.4571"N	80°33'12.9099"W	9574.11	159.719	2.03	
15817.00	89.110	162.300	5605.11	9669.96	-9072.19	3347.19	1764941.55	14630986.61	40°17'7.5502"N	80°33'12.5468"W	9669.97	159.748	0.90	
15914.00	89.780	161.520	5606.05	9766.88	-9164.39	3377.31	1764971.66	14630894.45	40°17'6.6376"N	80°33'12.1641"W	9766.90	159.770	1.06	
16011.00	89.420	161.830	5606.73	9863.82	-9256.47	3407.81	1765002.15	14630802.40	40°17'5.7262"N	80°33'11.7766"W	9863.84	159.789	0.49	
16107.00	89.170	161.920	5607.91	9959.74	-9347.70	3437.67	1765032.00	14630711.21	40°17'4.8232"N	80°33'11.3972"W	9959.77	159.809	0.28	
16204.00	89.200	161.800	5609.29	10056.66	-9439.87	3467.87	1765062.18	14630619.08	40°17'3.9109"N	80°33'11.0136"W	10056.70	159.828	0.13	
16300.00	89.140	161.930	5610.68	10152.58	-9531.09	3497.74	1765092.05	14630527.89	40°17'3.0080"N	80°33'10.6340"W	10152.63	159.848	0.15	
16397.00	89.320	162.060	5611.98	10249.49	-9623.33	3527.72	1765122.02	14630435.68	40°17'2.0950"N	80°33'10.2532"W	10249.56	159.868	0.23	
16494.00	89.350	161.060	5613.11	10346.43	-9715.35	3558.40	1765152.68	14630343.71	40°17'1.1843"N	80°33'9.8633"W	10346.51	159.884	1.03	
16591.00	89.200	161.400	5614.34	10443.38	-9807.18	3589.61	1765183.88	14630251.91	40°17'0.2752"N	80°33'9.4666"W	10443.47	159.896	0.38	
16688.00	89.450	161.770	5615.48	10540.32	-9899.21	3620.25	1765214.51	14630159.92	40°16'59.3643"N	80°33'9.0773"W	10540.42	159.912	0.46	
16785.00	88.800	161.500	5616.96	10637.25	-9991.25	3650.81	1765245.05	14630067.90	40°16'58.4532"N	80°33'8.6890"W	10637.37	159.928	0.73	
16881.00	88.860	162.660	5618.92	10733.14	-10082.58	3680.34	1765274.58	14629976.62	40°16'57.5493"N	80°33'8.3139"W	10733.28	159.947	1.21	
16977.00	89.820	161.510	5620.03	10829.05	-10173.91	3709.87	1765304.09	14629885.32	40°16'56.6453"N	80°33'7.9389"W	10829.20	159.966	1.56	

Actual Wellpath Report

Nick Ballato BRK 10H awp Proj: 30189'
Page 8 of 14

RECEIVED
Office of Oil and Gas
DEC 01 2023
WY Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Nick Ballato BRK 10H
Field	Brooke	API	47009003350000
Facility	Nick Ballato BRK Pad	Wellbore	Nick Ballato BRK 10H AWB
Slot	10H		

WELLPATH DATA (316 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
17074.00	88.520	161.430	5621.43	10925.99	-10265.87	3740.69	1765334.90	14629793.39	40°16'55.7350"N	80°33'7.5472"W	10926.16	159.979	1.34	
17171.00	88.640	161.300	5623.83	11022.92	-10357.76	3771.68	1765365.88	14629701.54	40°16'54.8255"N	80°33'7.1533"W	11023.10	159.991	0.18	
17268.00	89.230	161.490	5625.64	11119.85	-10449.67	3802.62	1765396.81	14629609.66	40°16'53.9157"N	80°33'6.7601"W	11120.05	160.004	0.64	
17364.00	89.380	161.290	5626.80	11215.80	-10540.65	3833.25	1765427.43	14629518.72	40°16'53.0152"N	80°33'6.3708"W	11216.02	160.015	0.26	
17460.00	88.680	161.290	5628.43	11311.75	-10631.56	3864.04	1765458.21	14629427.84	40°16'52.1152"N	80°33'5.9795"W	11311.98	160.026	0.73	
17557.00	90.370	160.750	5629.23	11408.72	-10723.28	3895.59	1765489.74	14629336.16	40°16'51.2073"N	80°33'5.5784"W	11408.96	160.035	1.83	
17654.00	88.800	161.360	5629.93	11505.68	-10815.02	3927.08	1765521.22	14629244.46	40°16'50.2992"N	80°33'5.1781"W	11505.94	160.043	1.74	
17750.00	88.950	161.420	5631.82	11601.62	-10905.98	3957.71	1765551.84	14629153.53	40°16'49.3988"N	80°33'4.7889"W	11601.89	160.054	0.17	
17846.00	88.980	161.260	5633.55	11697.56	-10996.92	3988.42	1765582.53	14629062.62	40°16'48.4986"N	80°33'4.3986"W	11697.85	160.065	0.17	
17943.00	88.980	161.280	5635.28	11794.51	-11088.77	4019.56	1765613.66	14628970.81	40°16'47.5895"N	80°33'4.0028"W	11794.82	160.075	0.02	
18039.00	89.290	161.690	5636.73	11890.45	-11179.79	4050.04	1765644.13	14628879.83	40°16'46.6885"N	80°33'3.6154"W	11890.78	160.086	0.54	
18136.00	89.110	160.800	5638.08	11987.40	-11271.63	4081.23	1765675.31	14628788.02	40°16'45.7794"N	80°33'3.2191"W	11987.75	160.096	0.94	
18232.00	89.420	161.710	5639.31	12083.35	-11362.53	4112.08	1765706.14	14628697.16	40°16'44.8796"N	80°33'2.8270"W	12083.72	160.105	1.00	
18329.00	89.600	161.040	5640.14	12180.31	-11454.45	4143.05	1765737.11	14628605.28	40°16'43.9698"N	80°33'2.4334"W	12180.69	160.115	0.72	
18425.00	88.920	161.130	5641.38	12276.27	-11545.25	4174.17	1765768.21	14628514.50	40°16'43.0709"N	80°33'2.0378"W	12276.67	160.123	0.71	
18522.00	89.290	160.850	5642.90	12373.23	-11636.95	4205.76	1765799.79	14628422.84	40°16'42.1632"N	80°33'1.6362"W	12373.65	160.129	0.48	
18619.00	89.050	161.370	5644.30	12470.19	-11728.72	4237.16	1765831.18	14628331.11	40°16'41.2548"N	80°33'1.2371"W	12470.62	160.137	0.59	
18715.00	89.260	161.400	5645.72	12566.13	-11819.69	4267.80	1765861.81	14628240.18	40°16'40.3543"N	80°33'0.8477"W	12566.59	160.147	0.22	
18812.00	89.480	158.990	5646.79	12663.12	-11910.94	4300.67	1765894.66	14628148.96	40°16'39.4510"N	80°33'0.4297"W	12663.57	160.147	2.49	
18909.00	89.690	157.000	5647.49	12760.07	-12000.86	4337.01	1765930.99	14628059.07	40°16'38.5605"N	80°32'59.9668"W	12760.50	160.131	2.06	
19006.00	89.660	157.140	5648.04	12856.97	-12090.20	4374.80	1765968.76	14627969.77	40°16'37.6758"N	80°32'59.4850"W	12857.36	160.108	0.15	
19102.00	89.820	155.030	5648.48	12952.77	-12177.95	4413.71	1766007.66	14627882.05	40°16'36.8068"N	80°32'58.9887"W	12953.12	160.078	2.20	
19199.00	89.720	155.470	5648.86	13049.49	-12266.04	4454.32	1766048.26	14627794.00	40°16'35.9342"N	80°32'58.4706"W	13049.78	160.042	0.47	
19295.00	89.600	154.030	5649.43	13145.13	-12352.86	4495.27	1766089.19	14627707.21	40°16'35.0742"N	80°32'57.9480"W	13145.37	160.003	1.51	
19391.00	89.880	150.450	5649.87	13240.31	-12437.80	4539.98	1766133.88	14627622.30	40°16'34.2327"N	80°32'57.3767"W	13240.48	159.947	3.74	
19488.00	90.370	150.100	5649.66	13336.01	-12522.03	4588.07	1766181.96	14627538.10	40°16'33.3978"N	80°32'56.7618"W	13336.11	159.877	0.62	
19585.00	90.030	148.640	5649.32	13431.45	-12605.50	4637.49	1766231.36	14627454.67	40°16'32.5706"N	80°32'56.1297"W	13431.49	159.802	1.55	
19682.00	89.820	147.210	5649.45	13526.42	-12687.69	4689.00	1766282.84	14627372.51	40°16'31.7558"N	80°32'55.4705"W	13526.42	159.717	1.49	
19778.00	90.000	146.200	5649.60	13619.97	-12767.93	4741.70	1766335.52	14627292.30	40°16'30.9603"N	80°32'54.7959"W	13619.97	159.626	1.07	
19875.00	89.850	145.090	5649.72	13714.08	-12848.01	4796.44	1766390.24	14627212.25	40°16'30.1662"N	80°32'54.0950"W	13714.12	159.528	1.15	

Actual Wellpath Report

Nick Ballato BRK 10H awp Proj: 30189'
Page 9 of 14

RECEIVED
Office of Oil and Gas
DEC 01 2023
WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Nick Ballato BRK 10H
Field	Brooke	API	47009003350000
Facility	Nick Ballato BRK Pad	Wellbore	Nick Ballato BRK 10H AWB
Slot	10H		

WELLPATH DATA (316 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
19971.00	89.750	145.620	5650.06	13807.11	-12926.98	4851.01	1766444.79	14627133.31	40°16'29.3830"N	80°32'53.3961"W	13807.22	159.431	0.56	
20067.00	89.510	145.190	5650.68	13900.15	-13006.01	4905.52	1766499.28	14627054.31	40°16'28.5994"N	80°32'52.6981"W	13900.37	159.335	0.51	
20164.00	89.720	145.310	5651.33	13994.09	-13085.71	4960.80	1766554.54	14626974.65	40°16'27.8090"N	80°32'51.9901"W	13994.47	159.238	0.25	
20261.00	89.290	145.380	5652.17	14088.08	-13165.49	5015.96	1766609.68	14626894.89	40°16'27.0178"N	80°32'51.2837"W	14088.65	159.144	0.45	
20357.00	89.480	145.230	5653.20	14181.08	-13244.42	5070.60	1766664.30	14626815.99	40°16'26.2351"N	80°32'50.5840"W	14181.88	159.051	0.25	
20454.00	89.600	145.220	5653.98	14275.01	-13324.09	5125.92	1766719.60	14626736.35	40°16'25.4450"N	80°32'49.8755"W	14276.08	158.958	0.12	
20550.00	89.820	145.620	5654.46	14368.06	-13403.13	5180.41	1766774.06	14626657.34	40°16'24.6612"N	80°32'49.1778"W	14369.43	158.868	0.48	
20647.00	89.380	145.170	5655.14	14462.07	-13482.97	5235.49	1766829.13	14626577.54	40°16'23.8695"N	80°32'48.4724"W	14463.78	158.779	0.65	
20743.00	89.600	145.080	5656.00	14554.99	-13561.72	5290.38	1766884.00	14626498.81	40°16'23.0885"N	80°32'47.7695"W	14557.08	158.689	0.25	
20840.00	89.630	145.470	5656.65	14648.95	-13641.45	5345.64	1766939.23	14626419.12	40°16'22.2979"N	80°32'47.0619"W	14651.45	158.601	0.40	
20936.00	89.260	145.120	5657.58	14741.94	-13720.36	5400.29	1766993.86	14626340.23	40°16'21.5153"N	80°32'46.3621"W	14744.88	158.516	0.53	
21033.00	89.320	143.800	5658.78	14835.54	-13799.28	5456.67	1767050.22	14626261.34	40°16'20.7326"N	80°32'45.6399"W	14838.99	158.425	1.36	
21129.00	89.510	144.040	5659.76	14927.93	-13876.87	5513.20	1767106.73	14626183.79	40°16'19.9631"N	80°32'44.9158"W	14931.94	158.332	0.32	
21226.00	89.320	143.630	5660.75	15021.25	-13955.17	5570.44	1767163.94	14626105.51	40°16'19.1864"N	80°32'44.1825"W	15025.87	158.240	0.47	
21323.00	89.570	144.240	5661.69	15114.62	-14033.58	5627.54	1767221.02	14626027.14	40°16'18.4087"N	80°32'43.4511"W	15119.87	158.149	0.68	
21419.00	89.600	144.340	5662.39	15207.18	-14111.53	5683.57	1767277.03	14625949.22	40°16'17.6356"N	80°32'42.7334"W	15213.09	158.062	0.11	
21515.00	89.880	144.600	5662.82	15299.82	-14189.65	5739.36	1767332.80	14625871.12	40°16'16.8608"N	80°32'42.0188"W	15306.42	157.978	0.40	
21612.00	89.820	144.490	5663.07	15393.47	-14268.67	5795.63	1767389.04	14625792.14	40°16'16.0771"N	80°32'41.2982"W	15400.78	157.894	0.13	
21708.00	89.510	144.040	5663.64	15486.02	-14346.59	5851.69	1767445.09	14625714.25	40°16'15.3043"N	80°32'40.5801"W	15494.09	157.810	0.57	
21805.00	89.510	144.040	5664.47	15579.44	-14425.10	5908.65	1767502.03	14625635.77	40°16'14.5255"N	80°32'39.8505"W	15588.32	157.726	0.00	
21901.00	89.420	144.000	5665.36	15671.88	-14502.78	5965.05	1767558.40	14625558.11	40°16'13.7551"N	80°32'39.1281"W	15681.60	157.642	0.10	
21998.00	89.510	146.220	5666.27	15765.76	-14582.34	6020.53	1767613.86	14625478.59	40°16'12.9661"N	80°32'38.4177"W	15776.29	157.566	2.29	
22094.00	89.510	148.390	5667.09	15859.52	-14663.12	6072.38	1767665.69	14625397.84	40°16'12.1652"N	80°32'37.7541"W	15870.76	157.504	2.26	
22191.00	89.510	148.400	5667.92	15954.65	-14745.73	6123.21	1767716.50	14625315.26	40°16'11.3463"N	80°32'37.1039"W	15966.54	157.449	0.01	
22288.00	89.260	150.330	5668.96	16050.08	-14829.18	6172.63	1767765.91	14625231.84	40°16'10.5191"N	80°32'36.4718"W	16062.57	157.401	2.01	
22384.00	89.290	150.430	5670.17	16144.82	-14912.63	6220.08	1767813.33	14625148.42	40°16'9.6921"N	80°32'35.8653"W	16157.85	157.359	0.11	
22481.00	89.420	152.120	5671.27	16240.77	-14997.69	6266.69	1767859.93	14625063.40	40°16'8.8492"N	80°32'35.2697"W	16254.29	157.323	1.75	
22578.00	89.480	154.720	5672.20	16337.18	-15084.42	6310.09	1767903.31	14624976.70	40°16'7.9899"N	80°32'34.7156"W	16351.06	157.300	2.68	
22674.00	89.450	152.310	5673.09	16432.62	-15170.34	6352.90	1767946.10	14624890.82	40°16'7.1387"N	80°32'34.1691"W	16446.84	157.277	2.51	
22771.00	89.690	152.240	5673.82	16528.81	-15256.20	6398.02	1767991.21	14624804.99	40°16'6.2880"N	80°32'33.5927"W	16543.47	157.248	0.26	

Actual Wellpath Report

Nick Ballato BRK 10H awp Proj: 30189'
Page 10 of 14

RECEIVED
Office of Oil and Gas
DEC 01 2023
WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Nick Ballato BRK 10H
Field	Brooke	API	47009003350000
Facility	Nick Ballato BRK Pad	Wellbore	Nick Ballato BRK 10H AWB
Slot	10H		

WELLPATH DATA (316 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
22868.00	89.720	152.360	5674.32	16625.01	-15342.08	6443.11	1768036.28	14624719.14	40°16'5.4370"N	80°32'33.0167"W	16640.11	157.219	0.13	
22964.00	89.480	155.030	5674.99	16720.48	-15428.13	6485.65	1768078.80	14624633.12	40°16'4.5845"N	80°32'32.4737"W	16735.91	157.199	2.79	
23061.00	89.570	156.630	5675.80	16817.26	-15516.62	6525.36	1768118.50	14624544.67	40°16'3.7081"N	80°32'31.9673"W	16832.88	157.191	1.65	
23158.00	89.750	158.620	5676.37	16914.19	-15606.31	6562.28	1768155.41	14624455.01	40°16'2.8199"N	80°32'31.4970"W	16929.87	157.194	2.06	
23254.00	89.600	158.550	5676.92	17010.17	-15695.68	6597.33	1768190.44	14624365.67	40°16'1.9350"N	80°32'31.0508"W	17025.84	157.202	0.17	
23351.00	89.690	158.570	5677.52	17107.15	-15785.97	6632.79	1768225.89	14624275.42	40°16'1.0410"N	80°32'30.5995"W	17122.81	157.209	0.10	
23447.00	89.720	158.750	5678.01	17203.14	-15875.38	6667.72	1768260.81	14624186.04	40°16'0.1556"N	80°32'30.1548"W	17218.78	157.217	0.19	
23543.00	89.480	158.800	5678.68	17299.12	-15964.87	6702.48	1768295.55	14624096.59	40°15'59.2695"N	80°32'29.7124"W	17314.74	157.226	0.26	
23640.00	89.540	159.470	5679.51	17396.11	-16055.51	6737.03	1768330.08	14624005.99	40°15'58.3721"N	80°32'29.2728"W	17411.68	157.237	0.69	
23737.00	89.540	160.480	5680.29	17493.11	-16146.64	6770.24	1768363.28	14623914.89	40°15'57.4699"N	80°32'28.8505"W	17508.57	157.252	1.04	
23831.00	89.570	160.430	5681.02	17587.10	-16235.22	6801.69	1768394.72	14623826.35	40°15'56.5930"N	80°32'28.4507"W	17602.42	157.269	0.06	
23928.00	89.570	160.360	5681.75	17684.09	-16326.59	6834.23	1768427.25	14623735.01	40°15'55.6884"N	80°32'28.0370"W	17699.28	157.286	0.07	
24024.00	89.570	160.620	5682.47	17780.07	-16417.08	6866.29	1768459.30	14623644.56	40°15'54.7926"N	80°32'27.6295"W	17795.12	157.303	0.27	
24121.00	89.510	160.590	5683.25	17877.06	-16508.57	6898.50	1768491.50	14623553.10	40°15'53.8868"N	80°32'27.2201"W	17891.96	157.321	0.07	
24217.00	89.570	160.590	5684.02	17973.04	-16599.11	6930.40	1768523.39	14623462.59	40°15'52.9905"N	80°32'26.8146"W	17987.80	157.339	0.06	
24313.00	89.690	160.620	5684.64	18069.03	-16689.66	6962.28	1768555.25	14623372.08	40°15'52.0941"N	80°32'26.4095"W	18083.64	157.356	0.13	
24410.00	89.420	160.110	5685.39	18166.01	-16781.02	6994.88	1768587.83	14623280.76	40°15'51.1896"N	80°32'25.9951"W	18180.51	157.372	0.59	
24506.00	89.630	160.280	5686.19	18262.01	-16871.34	7027.40	1768620.35	14623190.47	40°15'50.2955"N	80°32'25.5816"W	18276.39	157.387	0.28	
24603.00	89.600	160.330	5686.84	18359.00	-16962.66	7060.09	1768653.02	14623099.18	40°15'49.3914"N	80°32'25.1661"W	18373.26	157.402	0.06	
24700.00	89.600	160.090	5687.52	18455.99	-17053.93	7092.93	1768685.85	14623007.95	40°15'48.4878"N	80°32'24.7485"W	18470.14	157.417	0.25	
24796.00	89.690	160.560	5688.11	18551.98	-17144.32	7125.25	1768718.16	14622917.59	40°15'47.5929"N	80°32'24.3377"W	18566.02	157.432	0.50	
24892.00	89.570	160.410	5688.73	18647.97	-17234.81	7157.32	1768750.22	14622827.14	40°15'46.6971"N	80°32'23.9301"W	18661.88	157.448	0.20	
24989.00	89.290	160.390	5689.70	18744.96	-17326.18	7189.86	1768782.74	14622735.80	40°15'45.7925"N	80°32'23.5165"W	18758.75	157.463	0.29	
25086.00	89.480	160.330	5690.74	18841.95	-17417.53	7222.46	1768815.33	14622644.49	40°15'44.8881"N	80°32'23.1021"W	18855.62	157.478	0.21	
25182.00	88.860	160.190	5692.13	18937.93	-17507.88	7254.88	1768847.74	14622554.17	40°15'43.9937"N	80°32'22.6900"W	18951.50	157.492	0.66	
25278.00	88.610	160.900	5694.25	19033.89	-17598.38	7286.85	1768879.69	14622463.71	40°15'43.0978"N	80°32'22.2837"W	19047.34	157.507	0.78	
25375.00	88.460	160.420	5696.73	19130.85	-17689.87	7318.96	1768911.79	14622372.25	40°15'42.1920"N	80°32'21.8756"W	19144.16	157.523	0.52	
25471.00	89.320	160.610	5698.59	19226.82	-17780.36	7350.98	1768943.79	14622281.80	40°15'41.2962"N	80°32'21.4687"W	19240.01	157.538	0.92	
25568.00	89.080	160.470	5699.94	19323.80	-17871.81	7383.29	1768976.09	14622190.39	40°15'40.3909"N	80°32'21.0580"W	19336.87	157.553	0.29	
25664.00	89.290	159.850	5701.31	19419.78	-17962.10	7415.87	1769008.66	14622100.13	40°15'39.4969"N	80°32'20.6439"W	19432.76	157.566	0.68	

Actual Wellpath Report

Nick Ballato BRK 10H awp Proj: 30189'
Page 11 of 14

RECEIVED
Office of Oil and Gas
DEC 01 2023
WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Nick Ballato BRK 10H
Field	Brooke	API	47009003350000
Facility	Nick Ballato BRK Pad	Wellbore	Nick Ballato BRK 10H AWB
Slot	10H		

WELLPATH DATA (316 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
25761.00	88.920	160.640	5702.82	19516.76	-18053.38	7448.65	1769041.43	14622008.89	40°15'38.5933"N	80°32'20.2272"W	19529.64	157.579	0.90	
25858.00	88.830	160.450	5704.73	19613.73	-18144.82	7480.95	1769073.72	14621917.48	40°15'37.6880"N	80°32'19.8167"W	19626.49	157.594	0.22	
25954.00	88.860	160.770	5706.66	19709.70	-18235.36	7512.81	1769105.57	14621826.98	40°15'36.7917"N	80°32'19.4117"W	19722.34	157.609	0.33	
26051.00	88.710	160.170	5708.72	19806.67	-18326.76	7545.23	1769137.98	14621735.61	40°15'35.8868"N	80°32'18.9997"W	19819.20	157.623	0.64	
26147.00	88.710	160.620	5710.88	19902.64	-18417.17	7577.44	1769170.17	14621645.24	40°15'34.9918"N	80°32'18.5904"W	19915.06	157.636	0.47	
26244.00	88.830	160.300	5712.96	19999.61	-18508.56	7609.87	1769202.59	14621553.88	40°15'34.0870"N	80°32'18.1782"W	20011.92	157.650	0.35	
26341.00	88.860	160.390	5714.92	20096.58	-18599.89	7642.49	1769235.20	14621462.58	40°15'33.1828"N	80°32'17.7636"W	20108.79	157.663	0.10	
26437.00	88.980	160.500	5716.73	20192.55	-18690.34	7674.62	1769267.31	14621372.17	40°15'32.2874"N	80°32'17.3552"W	20204.66	157.676	0.17	
26534.00	88.610	160.310	5718.77	20289.52	-18781.70	7707.14	1769299.82	14621280.85	40°15'31.3829"N	80°32'16.9419"W	20301.53	157.689	0.43	
26630.00	89.010	160.460	5720.76	20385.49	-18872.11	7739.36	1769332.03	14621190.47	40°15'30.4878"N	80°32'16.5324"W	20397.41	157.702	0.44	
26727.00	88.860	160.300	5722.56	20482.47	-18963.46	7771.93	1769364.58	14621099.15	40°15'29.5834"N	80°32'16.1185"W	20494.28	157.714	0.23	
26823.00	88.800	160.300	5724.52	20578.44	-19053.82	7804.28	1769396.93	14621008.83	40°15'28.6888"N	80°32'15.7073"W	20590.17	157.726	0.06	
26919.00	88.680	160.520	5726.63	20674.41	-19144.24	7836.46	1769429.09	14620918.44	40°15'27.7937"N	80°32'15.2983"W	20686.04	157.739	0.26	
27016.00	88.890	160.450	5728.69	20771.38	-19235.65	7868.86	1769461.48	14620827.07	40°15'26.8887"N	80°32'14.8866"W	20782.91	157.752	0.23	
27112.00	88.800	160.620	5730.63	20867.35	-19326.15	7900.84	1769493.45	14620736.61	40°15'25.9928"N	80°32'14.4802"W	20878.77	157.764	0.20	
27209.00	88.680	160.330	5732.76	20964.32	-19417.55	7933.25	1769525.85	14620645.24	40°15'25.0880"N	80°32'14.0683"W	20975.64	157.777	0.32	
27305.00	88.650	159.950	5735.00	21060.29	-19507.81	7965.86	1769558.44	14620555.01	40°15'24.1943"N	80°32'13.6538"W	21071.54	157.788	0.40	
27402.00	88.610	160.420	5737.31	21157.25	-19599.04	7998.73	1769591.30	14620463.82	40°15'23.2911"N	80°32'13.2360"W	21168.42	157.799	0.49	
27499.00	89.230	160.720	5739.14	21254.22	-19690.50	8030.99	1769623.55	14620372.39	40°15'22.3857"N	80°32'12.8260"W	21265.29	157.811	0.71	
27595.00	89.820	160.650	5739.94	21350.21	-19781.09	8062.74	1769655.29	14620281.84	40°15'21.4888"N	80°32'12.4226"W	21361.17	157.824	0.62	
27692.00	89.540	160.960	5740.48	21447.18	-19872.70	8094.63	1769687.17	14620190.27	40°15'20.5820"N	80°32'12.0175"W	21458.04	157.838	0.43	
27789.00	89.480	160.340	5741.31	21544.17	-19964.22	8126.77	1769719.29	14620098.78	40°15'19.6759"N	80°32'11.6091"W	21554.92	157.850	0.64	
27885.00	89.380	160.810	5742.27	21640.15	-20054.75	8158.70	1769751.21	14620008.29	40°15'18.7797"N	80°32'11.2035"W	21650.80	157.862	0.50	
27982.00	89.320	160.390	5743.37	21737.13	-20146.23	8190.92	1769783.41	14619916.84	40°15'17.8740"N	80°32'10.7941"W	21747.69	157.875	0.44	
28078.00	89.380	160.050	5744.45	21833.12	-20236.56	8223.40	1769815.88	14619826.54	40°15'16.9797"N	80°32'10.3812"W	21843.60	157.885	0.36	
28175.00	89.350	160.060	5745.53	21930.11	-20327.74	8256.49	1769848.96	14619735.40	40°15'16.0770"N	80°32'9.9607"W	21940.52	157.895	0.03	
28272.00	89.320	160.420	5746.66	22027.10	-20419.02	8289.28	1769881.74	14619644.15	40°15'15.1733"N	80°32'9.5439"W	22037.44	157.905	0.37	
28368.00	89.380	160.680	5747.74	22123.08	-20509.54	8321.24	1769913.69	14619553.67	40°15'14.2772"N	80°32'9.1377"W	22133.33	157.916	0.28	
28465.00	89.320	160.470	5748.85	22220.06	-20601.01	8353.50	1769945.93	14619462.24	40°15'13.3716"N	80°32'8.7279"W	22230.22	157.928	0.23	
28561.00	89.410	160.420	5749.91	22316.05	-20691.47	8385.63	1769978.05	14619371.81	40°15'12.4761"N	80°32'8.3196"W	22326.12	157.939	0.11	

Actual Wellpath Report

Nick Ballato BRK 10H awp Proj: 30189'
Page 12 of 14

RECEIVED
Office of Oil and Gas
DEC 01 2023
WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION

Operator	SWN PRODUCTION COMPANY, LLC	Well	Nick Ballato BRK 10H
Field	Brooke	API	47009003350000
Facility	Nick Ballato BRK Pad	Wellbore	Nick Ballato BRK 10H AWB
Slot	10H		

WELLPATH DATA (316 stations) † = interpolated, ‡ = extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Comments
28658.00	89.380	160.390	5750.93	22413.03	-20782.84	8418.16	1770010.57	14619280.47	40°15'11.5714"N	80°32'7.9062"W	22423.03	157.949	0.04	
28754.00	89.540	160.260	5751.84	22509.02	-20873.24	8450.48	1770042.88	14619190.11	40°15'10.6765"N	80°32'7.4955"W	22518.94	157.960	0.21	
28851.00	89.540	160.700	5752.62	22606.01	-20964.66	8482.89	1770075.27	14619098.73	40°15'9.7714"N	80°32'7.0837"W	22615.84	157.970	0.45	
28947.00	89.630	160.610	5753.31	22701.99	-21055.24	8514.69	1770107.06	14619008.19	40°15'8.8747"N	80°32'6.6797"W	22711.73	157.982	0.13	
29044.00	90.180	160.600	5753.47	22798.98	-21146.73	8546.90	1770139.26	14618916.73	40°15'7.9689"N	80°32'6.2704"W	22808.63	157.993	0.57	
29140.00	89.570	160.500	5753.68	22894.97	-21237.25	8578.87	1770171.21	14618826.24	40°15'7.0728"N	80°32'5.8643"W	22904.54	158.004	0.64	
29237.00	89.570	160.730	5754.41	22991.95	-21328.75	8611.06	1770203.40	14618734.78	40°15'6.1669"N	80°32'5.4553"W	23001.43	158.015	0.24	
29333.00	89.380	160.390	5755.29	23087.93	-21419.27	8643.01	1770235.33	14618644.29	40°15'5.2708"N	80°32'5.0493"W	23097.34	158.025	0.41	
29429.00	89.480	160.600	5756.24	23183.92	-21509.76	8675.06	1770267.37	14618553.84	40°15'4.3749"N	80°32'4.6421"W	23193.24	158.035	0.24	
29526.00	89.170	160.540	5757.39	23280.90	-21601.23	8707.33	1770299.62	14618462.40	40°15'3.4694"N	80°32'4.2322"W	23290.14	158.046	0.33	
29622.00	89.320	160.780	5758.65	23376.88	-21691.80	8739.12	1770331.40	14618371.86	40°15'2.5727"N	80°32'3.8283"W	23386.03	158.057	0.29	
29815.00	89.290	160.700	5760.99	23569.83	-21873.99	8802.78	1770395.04	14618189.75	40°15'0.7691"N	80°32'3.0197"W	23578.81	158.079	0.04	
30008.00	89.260	160.340	5763.44	23762.79	-22055.93	8867.13	1770459.37	14618007.88	40°14'58.9679"N	80°32'2.2021"W	23771.62	158.098	0.19	
30104.00	89.380	160.750	5764.58	23858.77	-22146.44	8899.10	1770491.33	14617917.40	40°14'58.0718"N	80°32'1.7959"W	23867.52	158.108	0.44	
30164.00	88.980	160.370	5765.43	23918.76	-22203.01	8919.07	1770511.29	14617860.85	40°14'57.5117"N	80°32'1.5422"W	23927.46	158.114	0.92	
30189.00‡	88.980	160.370	5765.88	23943.75	-22226.55	8927.47	1770519.68	14617837.32	40°14'57.2787"N	80°32'1.4355"W	23952.44	158.117	0.00	

HOLE & CASING SECTIONS - Ref Wellbore: Nick Ballato BRK 10H AWB Ref Wellpath: Nick Ballato BRK 10H awp Proj: 30189'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
13.375in Casing	26.00	373.00	347.00	26.00	372.99	0.00	0.00	-0.49	2.78
9.625in Casing	26.00	1392.00	1366.00	26.00	1390.06	0.00	0.00	18.71	-36.69

Actual Wellpath Report

Nick Ballato BRK 10H awp Proj: 30189'
Page 14 of 14

RECEIVED
Office of Oil and Gas
DEC 01 2023
WV Department of
Environmental Protection

REFERENCE WELLPATH IDENTIFICATION			
Operator	SWN PRODUCTION COMPANY, LLC	Well	Nick Ballato BRK 10H
Field	Brooke	API	47009003350000
Facility	Nick Ballato BRK Pad	Wellbore	Nick Ballato BRK 10H AWB
Slot	10H		

WELLPATH COMPOSITION - Ref Wellbore: Nick Ballato BRK 10H AWB Ref Wellpath: Nick Ballato BRK 10H awp Proj: 30189'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
26.00	314.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	1 Tally MWD IFR-MSA 17.50" 149' - 314'	Nick Ballato BRK 10H AWB	6/12/2023
314.00	1324.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	2 Tally MWD IFR-MSA 12.25" 417' - 1324'	Nick Ballato BRK 10H AWB	6/12/2023
1324.00	4707.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	3 Tally MWD IFR-MSA 8.75" 1427' - 4707'	Nick Ballato BRK 10H AWB	6/12/2023
4707.00	30189.00	OWSG MWD rev2 + IFR1 + Multi-Station Correction	4 BH ATC MWD IFR-MSA 8.5" 4817' - 30164'	Nick Ballato BRK 10H AWB	6/12/2023

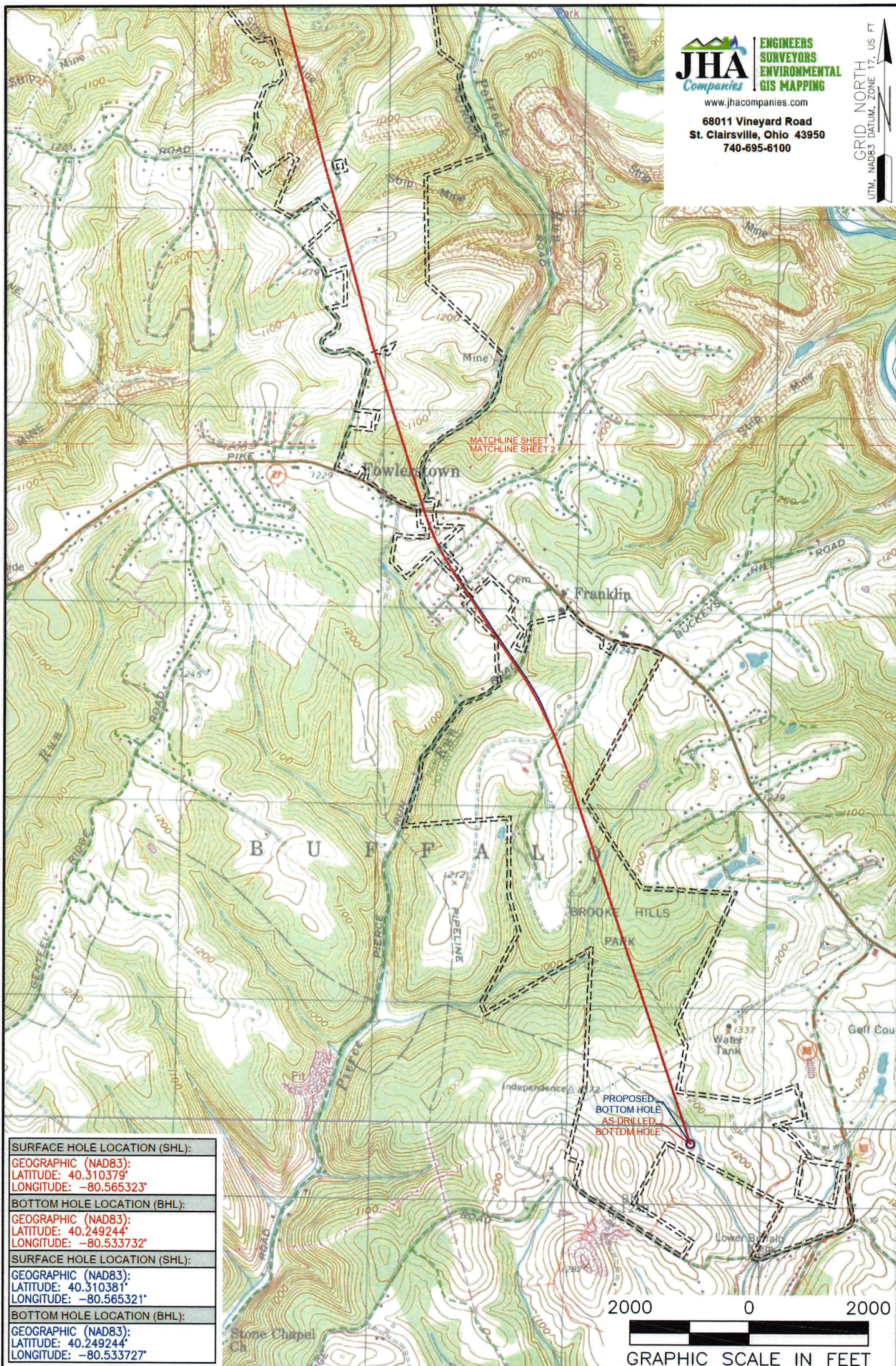


ENGINEERS
SURVEYORS
ENVIRONMENTAL
GIS MAPPING

www.jhacompanies.com

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

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



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.310379°
LONGITUDE: -80.565323°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.249244°
LONGITUDE: -80.533732°
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.310381°
LONGITUDE: -80.565321°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.249244°
LONGITUDE: -80.533727°

NOTES ON SURVEY

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

LEGEND:

- EXISTING BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- EXISTING LANDING POINT LOCATION
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- PROPOSED LANDING POINT LOCATION
- ACCESS ROAD
- PUBLIC ROAD
- FLOOD PLAIN
- LEASE BOUNDARY
- AS DRILLED PATH
- PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: NICK BALLATO	WELL # 10H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY: BROOKE	CODE: 009	DISTRICT: CROSS CREEK
SURFACE OWNER: NICHOLAS & CHRISTOPHER BALLATO	USGS 7 1/2 QUADRANGLE MAP NAME: STUEBENVILLE EAST, OH	API # 47-009-00335	

(2000' SCALE) LATITUDE: 40°20'00" SURFACE HOLE

6,656'

BHL

(2000' SCALE) LATITUDE: 40°15'00" BOTTOM HOLE

9,471'

(2000' SCALE) LONGITUDE: 80°30'00" BOTTOM HOLE 279'

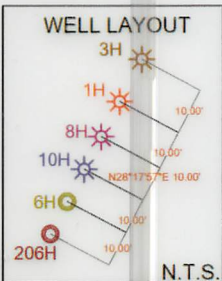
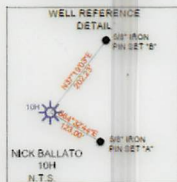
8,536'

(2000' SCALE) LONGITUDE: 80°32'30" SURFACE HOLE



www.jhacompanies.com

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



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

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4462297.78
EASTING: 536935.43

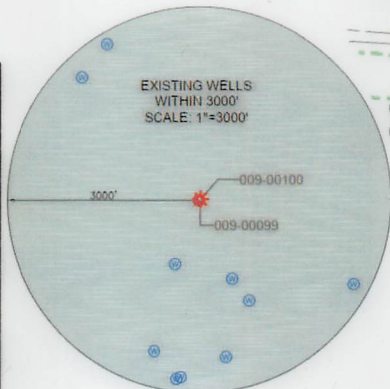
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4462328.62
EASTING: 537139.64

BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4455525.73
EASTING: 539655.48

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4462298.03
EASTING: 536935.55

LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4462391.73
EASTING: 537117.24

BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4455525.76
EASTING: 539655.91



LINE	BEARING	DISTANCE
L1	N19°47'43"W	3,687.88'
L2	N57°05'25"W	632.05'

NOTES ON SURVEY

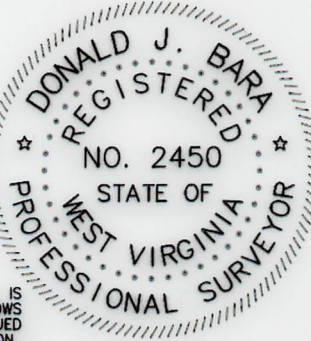
- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

2000 0 2000

GRAPHIC SCALE IN FEET

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

P.S. 2450



COMPANY:

SWN

SWN ^R/_A ^V/₊

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

NICK BALLATO
OPERATOR'S WELL #: 10H
API WELL #: 47 009 00335
STATE COUNTY PERMIT

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒
WATERSHED: UPPER OHIO NORTH
DISTRICT: CROSS CREEK COUNTY: BROOKE
SURFACE OWNER: NICHOLAS & CHRISTOPHER BALLATO
OIL & GAS ROYALTY OWNER: NICHOLAS & CHRISTOPHER BALLATO
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
ELEVATION: 958.8'
QUADRANGLE: STEUBENVILLE EAST, OH
ACREAGE: ±53.250
ACREAGE: ±53.250
ESTIMATED DEPTH: 5,766' TVD 30,189' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508
DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508
LEGEND:
● EXISTING BOTTOM HOLE
● EXISTING / PRODUCING WELLHEAD
LPL* EXISTING LANDING POINT LOCATION
● PROPOSED SURFACE HOLE / BOTTOM HOLE
LPL* PROPOSED LANDING POINT LOCATION
— ACCESS ROAD
— PUBLIC ROAD
— FLOOD PLAIN
— LEASE BOUNDARY
— ASDRILLED PATH
— PROPOSED PATH
REVISIONS:
DATE: 10-31-2023
API NO: 47-009-00335
DRAWN BY: Z. WOOD
SCALE: 1" = 2000'
DRAWING NO: 2017-343
WELL LOCATION PLAT

LEGEND:
PROPOSED LANDING POINT LOCATION
EXISTING LANDING POINT LOCATION
EXISTING PRODUCING WELLS
EXISTING BOTTOM HOLE
ACCESS ROAD
PUBLIC ROAD
FLOOD PLAIN
LEASE BOUNDARY
AS-DRILLED PATH
PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

DESIGNATED AGENT: BRITANNY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

REVISIONS:
DATE: 10-31-2023
API NO: 47-009-00335
DRAWN BY: J. WOOD
SCALE: 1" = 3000'
DRAWING NO: 2017-343
WELL LOCATION PLAN
COMPLETION ID: 2501132502

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒

WATERSHED: UPPER OHIO NORTH
DISTRICT: CROSS CREEK
COUNTY: BROOKE

SURFACE OWNER: NICHOLAS & CHRISTOPHER BALLATO
OIL & GAS ROYALTY OWNER: NICHOLAS & CHRISTOPHER BALLATO

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: 2,766' TVD 30,180' TMD

API WELL #: 47 009 00335 STATE: COUNTY: PERMIT

OPERATOR'S WELL #: 10H NICK BALLATO

ELEVATION: 828.8'

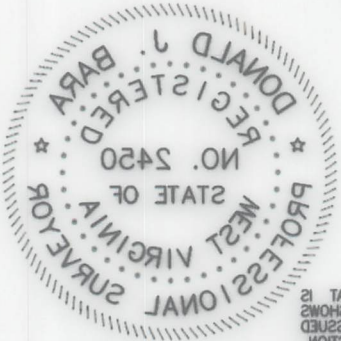
COMPANY: SWN
Production Company, LLC Production Company
SWN
V+

GRAPHIC SCALE IN FEET
0 2000 5000

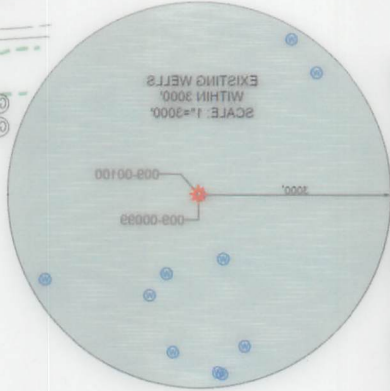
NOTES ON SURVEY:
1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT
2. AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS
3. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS
4. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON
5. NO BUILDINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD
6. NO PERMANENT STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE
7. NO NATURALLY PRODUCING TIGHT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE
8. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL

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.

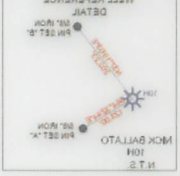
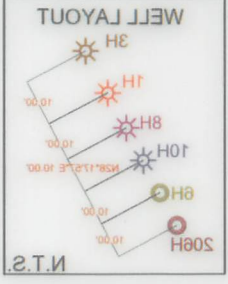
P.2. 2450



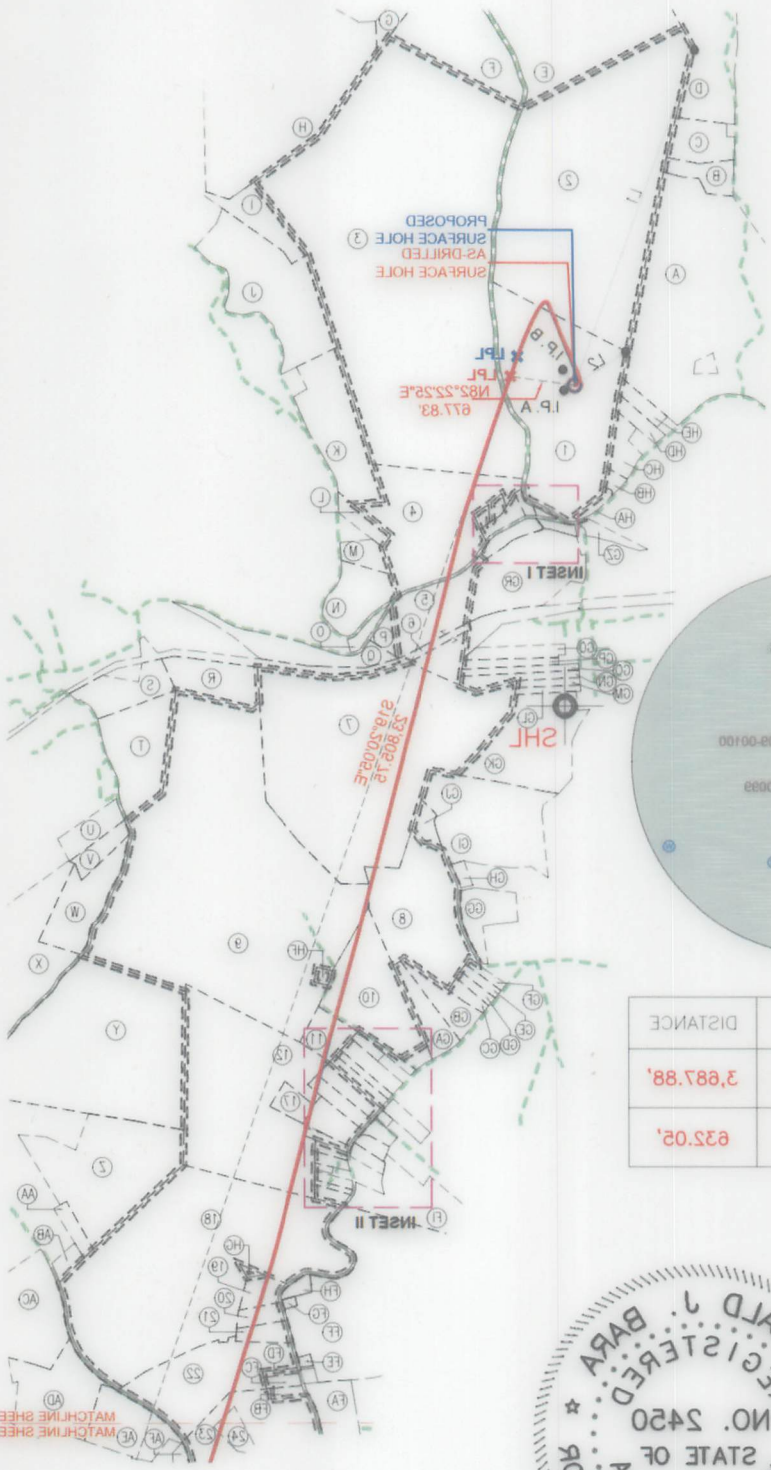
LINE	BEARING	DISTANCE
L1	N13.47.43"W	3,687.88'
L2	N27.02.25"W	632.02'



SURFACE HOLE LOCATION (SHL)	
EASTING: 536822.91	NORTHING: 445252.76
BOTTOM HOLE LOCATION (BHL)	
EASTING: 53717.24	NORTHING: 445231.73
LANDING POINT LOCATION (LPL)	
EASTING: 53713.64	NORTHING: 445238.62
SURFACE HOLE LOCATION (SHL)	
EASTING: 536822.48	NORTHING: 445252.73
BOTTOM HOLE LOCATION (BHL)	
EASTING: 53713.64	NORTHING: 445238.62
LANDING POINT LOCATION (LPL)	
EASTING: 536822.43	NORTHING: 445252.78
SURFACE HOLE LOCATION (SHL)	
EASTING: 536822.43	NORTHING: 445252.78



JHA
ENGINEERS
SURVEYORS
ENVIRONMENTAL
GIS MAPPING
www.jhacompanies.com
8801 Vineyard Road
St. Clairsville, Ohio 43920
740-692-6100



BHL (5000', SCALE) LATITUDE: 40.15.00", BOTTOM HOLE
9,471',
(5000', SCALE) LATITUDE: 40.20.00", SURFACE HOLE
9,626',

8,239',
(5000', SCALE) LONGITUDE: 80.30.00", BOTTOM HOLE
(5000', SCALE) LONGITUDE: 80.35.30", SURFACE HOLE

(2000' SCALE) LATITUDE: 40°20'00" SURFACE HOLE

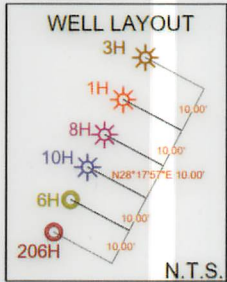
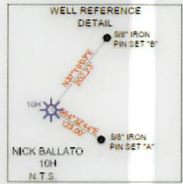
6,656'

BHL (2000' SCALE) LATITUDE: 40°15'00" BOTTOM HOLE

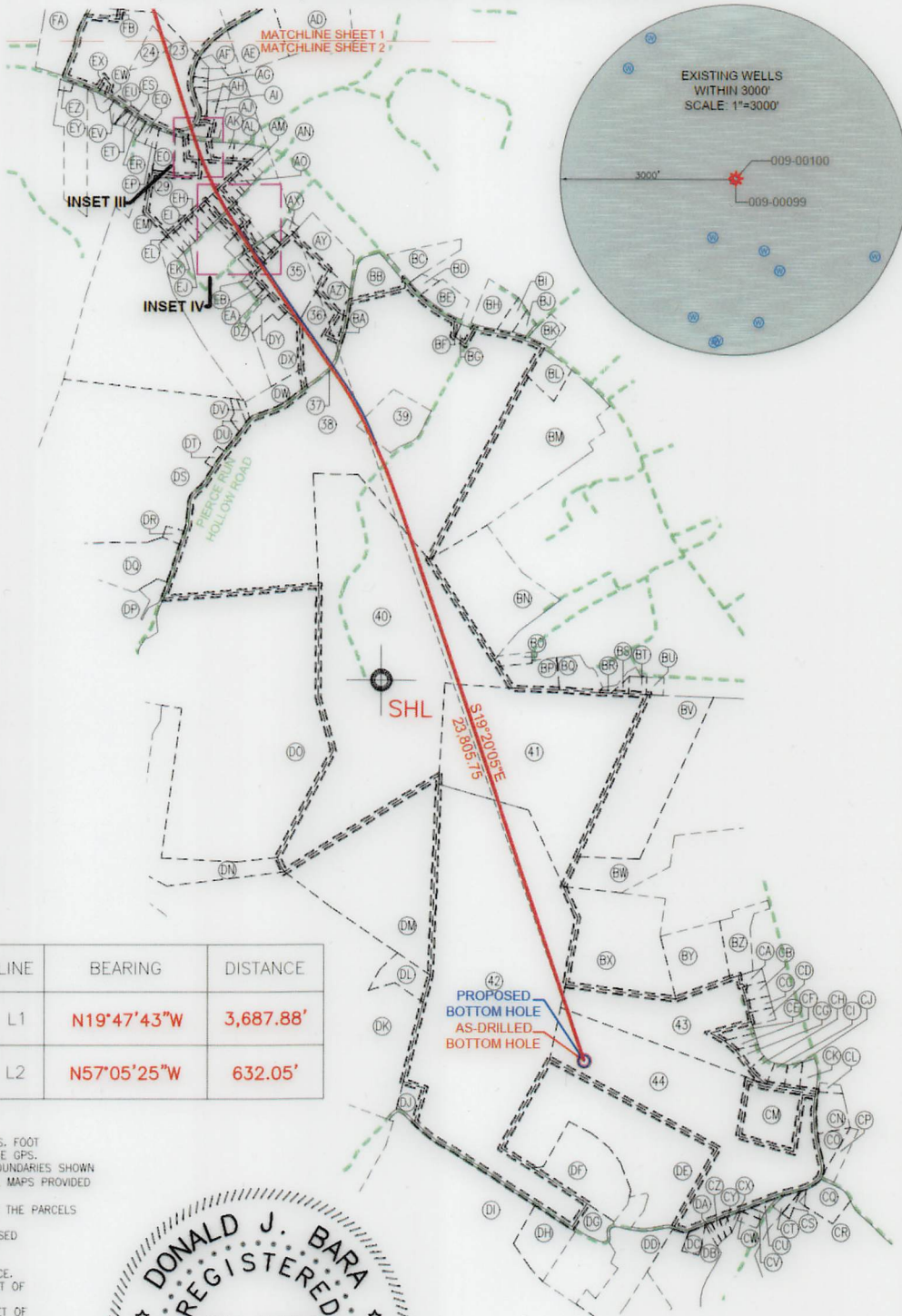
9,471'



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



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



(2000' SCALE) LONGITUDE: 80°30'00" BOTTOM HOLE 279'

(2000' SCALE) LONGITUDE: 80°32'30" SURFACE HOLE 8,536'

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4462297.78
EASTING: 536935.43
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4462328.62
EASTING: 537139.64
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4455525.73
EASTING: 539655.48
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4462298.03
EASTING: 536935.55
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4462391.73
EASTING: 537117.24
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4455525.76
EASTING: 539655.91

LINE	BEARING	DISTANCE
L1	N19°47'43"W	3,687.88'
L2	N57°05'25"W	632.05'

NOTES ON SURVEY

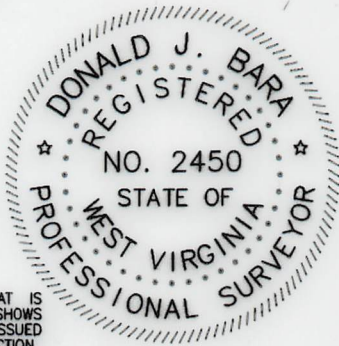
- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

2000 0 2000

GRAPHIC SCALE IN FEET

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

P.S. 2450



COMPANY:

SWN

SWN ^{R+V+}_A

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)

OPERATOR'S WELL #:

10H

API WELL #:

47

009

00335

STATE

COUNTY

PERMIT

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒	ELEVATION: 958.8'
WATERSHED: UPPER OHIO NORTH	QUADRANGLE: STEUBENVILLE EAST, OH
DISTRICT: CROSS CREEK	ACREAGE: ±53.250
COUNTY: BROOKE	ACREAGE: ±53.250
SURFACE OWNER: NICHOLAS & CHRISTOPHER BALLATO	
OIL & GAS ROYALTY OWNER: NICHOLAS & CHRISTOPHER BALLATO	
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: 5,766' TVD 30,189' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201

CITY: MORGANTOWN

STATE: WV

ZIP CODE: 26508

DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201

CITY: MORGANTOWN

STATE: WV

ZIP CODE: 26508

LEGEND:

- EXISTING BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL: EXISTING LANDING POINT LOCATION
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- LPL: PROPOSED LANDING POINT LOCATION

- ACCESS ROAD
- PUBLIC ROAD
- FLOOD PLAIN
- LEASE BOUNDARY
- ASDRILLED PATH
- PROPOSED PATH

REVISIONS:

DATE: 10-31-2023
API NO: 47-009-00335
DRAWN BY: Z. WOOD
SCALE: 1" = 2000'
DRAWING NO: 2017-343
WELL LOCATION PLAT

 PROPOSED PATH
 ASSESSED PATH
 FEASE BOUNDARY
 FLOOD PLAIN
 PUBLIC ROAD
 ACCESS ROAD

KEYWORDS:

CITY: WOKESVILLE STATE: MA ZIP CODE: 02098
ADDRESS: 1300 EIGHT BEECHWOOD DRIVE SUITE 301
DESIGNATED AGENT: BRITANNY MOODY

ESTIMATED DEPTH: 2'00, TMD 30'18, TMD

ACCESSION: 723.520

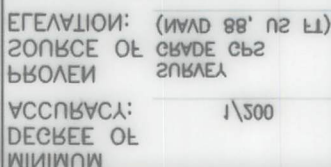
ACREAGE: 723.520

СОЛИТА: ВЪООКЕ

QUADRANGLE: STEUBENVILLE EAST, OH

ELEVATION: 828.8.

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ FLUID INJECTION ☐ STORAGE ☐ SHALLOW ☒



STATE	COUNTY	PERMIT
74	002	00332

ОБЕРАТОР, 2 МЕТР №:	10Н
	NICK BAGGATO

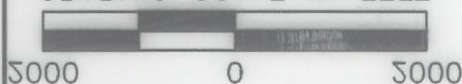
Production Company LLC Production Company, Inc.

SMU SMU $\frac{4}{5} \rightarrow A_+$

COMPANY:

AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENT PROTECTION.
ATT THE INFORMATION RECEIVED BY DVM AND RESOLUTIONS ISSUED
CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS
1. THE UNDESIRABLE. HEKERA CEKURA THAT THIS BVAL IS

GRAPHIC SCALE IN FEET



A circular professional surveyor seal for the State of West Virginia. The outer ring contains the text "PROFESSIONAL SURVEYOR" at the top and "DOWNTD 1 BABY" at the bottom, separated by two stars. The inner circle contains the text "WEST VIRGINIA" at the top, "STATE OF" in the middle, and "NO. 5420" at the bottom. The seal is surrounded by a decorative border of small, repeating patterns.

ЫКОБОЗЕР МЕЛЛ

- [illegible]

EASTING: 238022.81
NORTHING: 442252.10
UTM (NAD83, ZONE 13, METERS):

BOTTOM HOGE LOCATION (BHL):

EASTING: 231117.54
NORTHING: 4485381.713
UTM (NAD83, ZONE 11, WETK2):

LANDING POINT LOCATION (ГРГ)

EASTING: 230032.22
NORTHING: 4405508.03
UTM (NAD83, ZONE 13, WETK2):

SURFACE HOGE LOCATION (SHG):

EA2IINC: 238022*48
MOBTHINC: 4422252*13
QIW (WAD83, SOME 11, WEIEK2):

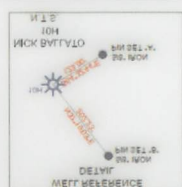
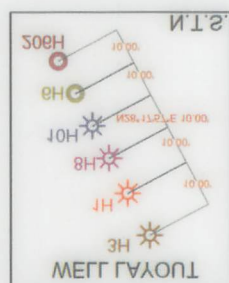
FOLLOW HOME LOCATION (VHC):

EASTING: 237138.04
NORTHING: 4405358.05
QIW (MAD82, SOME 11' WESTERLY)

LANDING POINT LOCATION (LCP)

EASTING: 230832.43
NORTHING: 445550.78
QUM (MADRS, SOME 11, WEIERST):

30K1 XCF HOSE COCK (315)



GRID NORTH

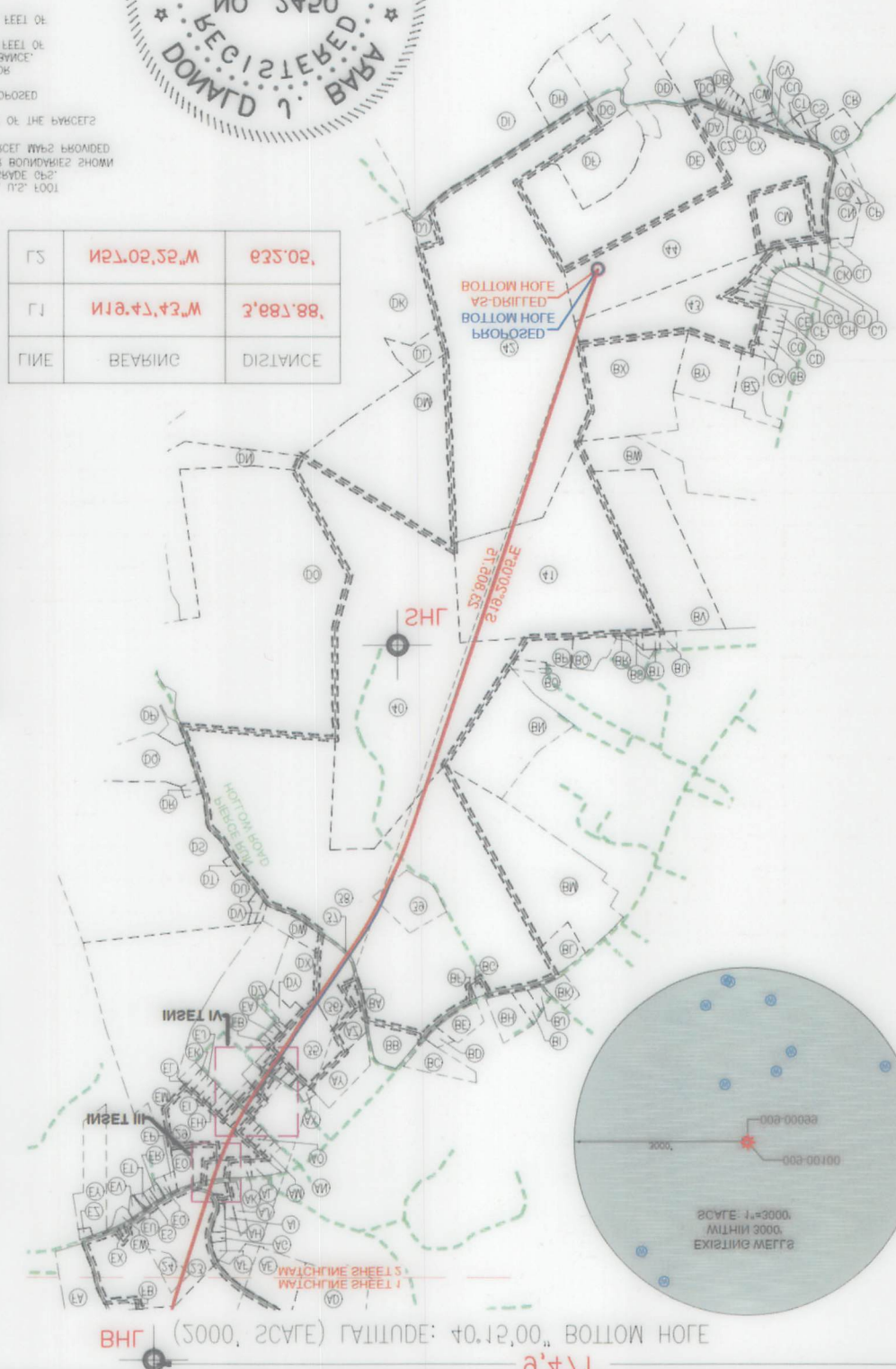
1

140-22-2100
21' Clearville Ohio 43220
08011 Amalgamated

www.lugcombu162.com



**GIS MAPPING
ENVIRONMENTAL
CONSERVATION
ENGINEERS**



(5000, SCALE) LONGITUDE: 80.35, 30. SURFACE HOLES

සු
ආ
ස
භ

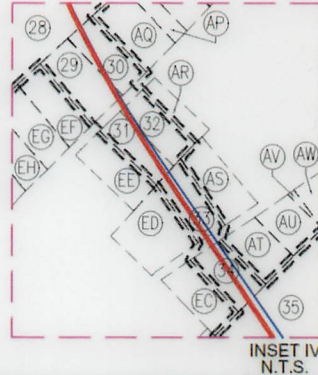
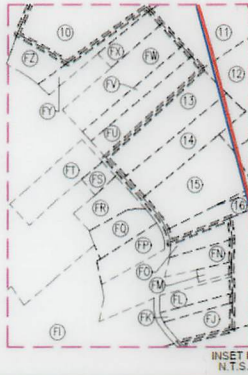
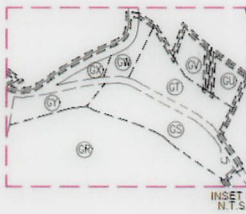
(5000, SCALE) LONGITUDE: 80.30.00, BOTTOM HOLE 52a,

BHG | (5000, 2SCALE) LATITUDE: 40.12.00, BOTTOM HOGE

4, 5, 6

e'eze.

(5000, 2048) LATITUDE: 40.50.00, SURFACE HOGE



WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS			TRACT	SURFACE OWNER	TAX PARCEL
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	37	STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS	PIERCE RUN HOLLOW ROAD
1	BALLATO NICK & CHRISTOPHER	4-CC19-102	38	PARK & RECREATION COMMISION	3-B28-66
TRACT	SURFACE OWNER	TAX PARCEL	39	BROOKE COUNTY PARK ASSOCIATION	3-B28-67
2	BALLATO NICHOLAS & CHRISTOPHER	4-CC19-192	40	PARK & RECREATION COMMISSION	3-B28-65
3	GOURLEY GERALD E	4-CC19-103	41	PARK & RECREATION COMMISSION	3-B29-14
4	GOURLEY GERALD E	4-C19K-57	42	SMITH KEITH & KATHY	3-B34-16.1
5	NORFOLK & WESTERN RR	4-CC19-105	43	HUNT WILLIAM CURTIS & SUSAN L (SURV) (TOD) SCOTT KRISTEN E	3-B34-7
6	NORFOLK & WESTERN RAILWAY CO	4-C19K-18	44	BRINKLEY JUDITH LEE: STENGER SARAH A: BUYAN MARK A	3-B34-10
7	PITTSBURGH & W VA RAILWAY CO	4-CC19-191	ADJOINING OWNERS TABLE		
8	HART TED JR & RUTH B	4-CC23-51.4	TRACT	SURFACE OWNER	TAX PARCEL
9	COOK FAMILY REVOCABLE TRUST 4/20/17, MALSON SUSAN A	4-CC23-322	A	FERDA MARLENE ETAL EACH @ 1/3	4-CC19-97
10	BRAHO JOSEPH M & MCGOWAN KATELYN N (JTWS)	4-CC23-66	B	GALIANO WILLIAM D & SHERRY L	4-CC19-92
11	HENTHORN WILLIAM E	4-CC23-71	C	MCQUILLIAN PAUL MATTHEW L C	4-CC19-93
12	CORWIN BRIAN	4-CC23-78	D	GALIANO WILLIAM D & SHERRY L	4-CC19-95
13	WILEY FAMILY IRREVOC TRUST 2/24/2022	4-CC23-74	E	REED DAVID R	4-CC15-42.1
14	PHILLIPS KEVIN CHARLES & HEATHER LEE (SURV)	4-CC23-74.1	F	GOURLEY GERALD E	4-CC15-42
15	ROGERSON CRYSTAL M & THOMAS E JR	4-CC23-77	G	ARNETT PATRICIA ILENE (TOD) ROY MILLS	4-CC15-64
16	SPERLAZZA MARVIN P & LYNN A (SURV)	4-CC23-76	H	LOAR GARY LEE & SANDRA L	4-CC15-52
17	NORTHVIEW PROPERTIES LLC	4-CC23-78.1	I	HOBBS JOYCE ET AL	4-CC19-111
18	HUBBARD SAMUEL	4-CC23-86	J	BUCY GERALD L SR & CONSTANCE F	4-CC19-117.1
19	ROBINSON ROBERT A & JACLYN J (SURV)	4-CC23-86.1	K	PARR SARAH ELIZABETH	4-CC19-119
20	FELL HOWARD F	4-CC23-87	L	TEMPLE LLOYD (SURV)	4-CC19-108
21	HUBBARD SAMUEL H & SHELBA J (SURV)	4-CC23-88	M	LONGWELL MARTY R II & ALYSSA A (JTWS)	4-CC19-128
22	FERGUSON JENNIFER & JESSICA	4-CC23-100	N	FORESHA THOMAS E & BLASKOVICH VIRGINIA M (SURV)	4-CC19-106
23	COOPER MARK H	4-CC23-92	O	VEMURI HOME & GARDEN LLC	4-CC19-130
24	COOPER MARK H	4-CC23-93	P	NICKOLES CAROL L	4-CC19-129
25	MCGOWAN CLARENCE L & KATHERINE A (SURV)	4-CC23-335.1	Q	PITTSBURGH & WV RAILROAD	4-CC19-134
26	HENSLE R GERALD L & WINIFRED J	3-B235-1	R	MARINO WILLIAM & MILDRED T	4-CC19-190
27	HENSLE R WM M & MARGARET R	3-B235-2	S	NOGA CODIE L & KATRINA MILLER	4-CC19-187
28	HENSLE R WILLIAM MATHIAS	3-B235-4.2	T	BLACK CLARENCE T JR & TAMMY L	4-CC19-186
29	CONAWAY MICHAEL B & LISA A (SURV)	3-B235-11	U	POWER ADRIAN ELIZABETH & EMIL JAMES LOPPE JTWS	4-CC19-185
30	CONAWAY MICHAEL B & LISA A (SURV)	3-B235-12	V	PRICE VIRGINIA L (ETAL)	4-CC23-323
31	BOLEN THEODORE A & LINDA G (JTWS)	3-B235-14	W	MENEELY BOBBIE JO; MINICH RANDALL	4-CC23-324
32	BOYCE TERRY G & DENISE D (SURV)	3-B28D-26	X	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LC CORP	4-CC23-325
33	ORECCHIO MARK A	3-B28D-30	Y	BARONIO CURTIS R & DONNA J	4-CC23-321
34	SANDRETH SHIRLEY JEAN	3-B28D-54	Z	HUBBARD SAMUEL	4-CC23-318
35	FRANKLIN CEMETERY ASSN	3-B28D-62	AA	BANNEN JOHN J	4-CC23-317
36	POTTER ELIZABETH ANN	3-B28D-65			

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{R+V+}_A
Production Company™

OPERATOR'S

NICK BALLATO

WELL #:

10H

DISTRICT:

CROSS CREEK

COUNTY:

BROOKE

STATE:

WV

DATE: 10-31-2023

API NO: 47-009-00335

DRAWN BY: Z. WOOD

SCALE: N/A

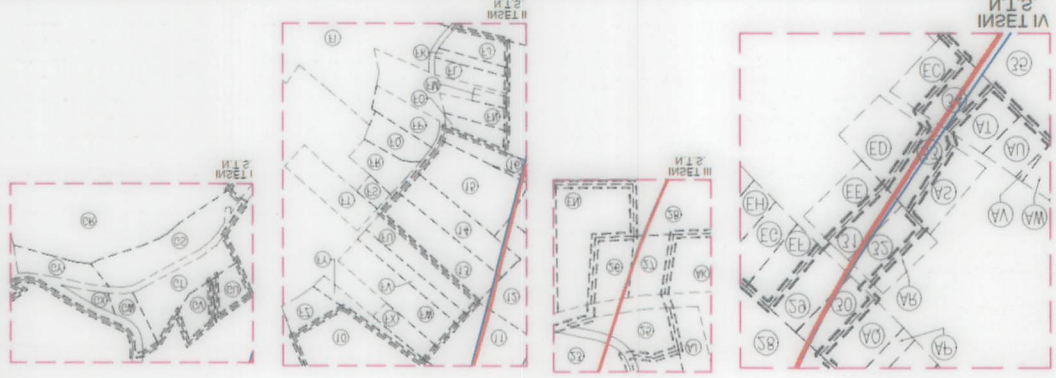
DRAWING NO: 2017-343

WELL LOCATION PLAT

COMPLETION ID 2501173207
DWN IN 3001155543

	CROSS CREEK DISTRICT:	BROOKE COUNTY:	MD STATE:	WEST LOCATION BY:1 DRAWING NO:3011-243 SCALE: 1"=1'
	WEST OPERATOR,2	JOHN NICK BATTATO		DRAWN BY: S. MOOD BY NO: 41-008-00332 DATE: 10-21-2002
	COMPANY: Production Company, LLC		Production Company, LLC	
	2MI		2MI	
REVISIONS:				

30	POTTER ELIZABETH ANN	3-B58D-22	AA	BAHNEE JOHN I	4-CC53-313
32	FRANKLIN CEMETERY ASSN	3-B58D-23	S	HUBBARD ZAMUEL	4-CC53-318
34	ZANDRETH ZHIBLEY LEAN	3-B58D-24	V	BARONIO CURTIS B & DONNA I	4-CC53-331
33	ORRICHIO MARK A	3-B58D-30	X	RES 68 FC CORP WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT	4-CC53-352
35	BOYCE TERRY C & DENISE D (2UPL)	3-B58D-32	M	MEINEEGY BOBBIE JO: MINICH RANDALL	4-CC53-354
37	BOGEN THEODORE A & LINDA C (1TW2)	3-B532-14	V	PRICE VIRGINIA I (ETAT)	4-CC53-353
30	CONAWAY MICHAEL B & LISA A (2UPL)	3-B532-15	U	POWER ADRIAN ELIZABETH & EMIG JAMES GORRE 1TW2	4-CC18-182
38	CONAWAY MICHAEL B & LISA A (2UPL)	3-B532-17	T	BLACK CLARENCE T JR & TAMMY I	4-CC18-186
38	HEIZGER WILLIAM MATTHIAS	3-B532-43	Z	NOVA CODIE I & KATHYNA WIGGER	4-CC18-183
33	HEIZGER MM M & MARGARET B	3-B532-5	B	MARINO WILLIAM & MARGED T	4-CC18-180
36	HEIZGER GERALD I & MINIFRED I	3-B532-1	D	PITTSBURGH & WA BAIGROAD	4-CC18-134
32	MCDOWAN CLARENCE I & KATHERINE A (2UPL)	4-CC53-332.1	b	WICKOGE2 CAROL I	4-CC18-158
34	COOPER MARK H	4-CC53-83	O	LEIMURY HOME & GARDEH LLC	4-CC18-130
33	COOPER MARK H	4-CC53-85	M	(2UPL) FOREZHA THOMAS E & BLAZKOLICH VIRGINIA M	4-CC18-108
35	FERGUSON JENNIFER & JESSICA	4-CC53-100	M	LONGWELL MARTY B II & ALYSSA A (1TW2)	4-CC18-158
37	HUBBARD ZAMUEL H & ZHEGBA I (2UPL)	4-CC53-88	L	TEMPLE GLOYD (2UPL)	4-CC18-108
30	FEET HOWARD E	4-CC53-83	K	PARR SARAH ELIZABETH	4-CC18-118
18	ROBINSON ROBERT A & TACSLI I (2UPL)	4-CC53-88.1	L	BUSY GERALD I JR & CONSTANCE E	4-CC18-113.1
18	HUBBARD ZAMUEL	4-CC53-88	I	HOBB2 ROYCE ET AL	4-CC18-111
13	IONTHANEM PROPERTIES LLC	4-CC53-38.1	H	LOAR SARV LEE & SANDRA I	4-CC12-25
16	ZBERGASSA MARVIN B & GLYN A (2UPL)	4-CC53-38	C	ARRIETT PATRICIA IGENE (1OD) ROY MING2	4-CC12-84
12	RODERSON CRAIGAL M & THOMAS E JR	4-CC53-33	F	GOUBLEY GERALD E	4-CC12-43
14	PHILIPS KELIN CHARLES & HEATHER LEE (2UPL)	4-CC53-34.1	E	BEED DAVID B	4-CC12-45.1
13	WIGLEY FAMILY TRUST 5/54/2003	4-CC53-34	D	GALEANO WILLIAM D & ZHEBYA I	4-CC18-82
15	CORWIN BRIAN	4-CC53-38	C	MCDUGLIAN PAUL MATTHEW I C	4-CC18-83
17	HEIDHORN WILLIAM E	4-CC53-37	B	GALEANO WILLIAM D & ZHEBYA I	4-CC18-83
10	BRANO JOSEPH M & MCDOWAN KATELIN I (1TW2)	4-CC53-88	A	FERDA MARGUERITE ETAT EACH @ 1/3	4-CC18-83
8	COOK FAMILY BELOSCABE TRUST 4/30/13, MARZON	4-CC53-353	TRACT	SURFACE OWNER	TAX PARCEL
8	HART TED JR & RUTH B	4-CC53-274	ADJOINING OWNERS TABLE		
1	PITTSBURGH & WA BAIGWAY CO	4-CC18-187	44	MARK A BRINKLEY JUDITH LEE: ZHEDEER SARAH A: BUYAN	3-B834-10
6	NOBLEOK & WESTERN BAIGWAY CO	4-CT8K-18	43	KWISTEN E HUNT WILLIAM CURTIS & ZUZAN I (2UPL) (1OD) SCOTT	3-B834-1
2	NOBLEOK & WESTERN RR	4-CC18-102	45	SMITH KEITH & KATHY	3-B834-18.1
4	GOUBLEY GERALD E	4-CT8K-23	47	PARK & RECREATION COMMISSION	3-B58-14
3	GOUBLEY GERALD E	4-CC18-103	40	PARK & RECREATION COMMISSION	3-B58-82
5	BATTATO NICHOLAS & CHRISTOPHER	4-CC18-185	38	BROOKE COUNTY PARK ASSOCIATION	3-B58-83
TRACT	SURFACE OWNER	TAX PARCEL	38	PARK & RECREATION COMMISSION	3-B58-88
1	BATTATO NICK & CHRISTOPHER	4-CC18-105	36	STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS	HOLLOW ROAD PIERCE RUMI
TRACT	SURFACE OWNER (2) \ ROYALTY OWNER (8)	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
WEST BORE TABLE FOR SURFACE\ROYALTY OWNERS					



ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
AB	THOMPSON DEBRA J	4-CC23-319	BR	HERVEY RUSSEL D HUKILL BRITTANY (SURV)	3-B29J-61
AC	SILVER CHARLES;HALSTEAD DONNA LIVINGOOD SHERRY (1/3)	4-CC23-327	BS	HERVEY RUSSEL D & HUKILL BRITTANY N (SURV)	3-B29J-62
AD	YOST CLARA E	4-CC23-328	BT	HERVEY RUSSELL & HUKILL BRITTANY N (SURV)	3-B29J-63
AE	LYKE EUGENE F II	4-CC23-329.1	BU	NIXON N STEVE & JILL (SURV)	3-B29J-64
AF	LYKE ANNABELLE	4-CC23-330	BV	DELATORE LOUIS & KAREN (SURV)	3-B29-13.1
AG	HENRY JOHN L & BERNICE J (SURV)	4-CC23-331.1	BW	JONES ZACHARY & MICHELE	3-B29-13
AH	WILSON MARK & BONNIE (JTWS)	4-CC23-332	BX	HUNT WILLIAMC & SUSAN L (JTWS) (TOD) SCOTT KRISTEN E	3-B34-10.2
AI	STANLEY TIMOTHY J & CASEY L (SURV)	4-CC23-335	BY	SANFORD HARRY E; NEELY CHATMAN L (SURV)	3-B34-2
AJ	MCGOWAN CLARENCE L & KATHERINE A (SURV)	4-CC23-336	BZ	PAULL CHRISTOPHER J & MARY E (SURVIVORSHIP)	3-B34-3
AK	HENSLER WM M & MARGARET R	3-B23S-3	CA	GRIZZEL STEPHEN SR & LISA JTWS	3-B34-7.12
AL	EDWARDS MATTHEW H	3-B23S-4.1	CB	GRIZZEL STEPHEN SR & LISA JTWS	3-B34-7.10
AM	PARR BRUCE	3-B23S-7	CC	LINDSEY-LYNCH REGINA,TR OF REGINA LINDSEY-LYNCH REV TR AG	3-B34-7.9
AN	PEHANICH DIANNA L	3-B23S-8	CD	LINDSEY-LYNCH REGINA TR OF REGINA LINDSEY-LYNCH REVTRAGRE	3-B34-7.7
AO	PEHANICH DIANA L	3-B23S-9	CE	THOMAS GARY D & TRESA A (SURV) THOMAS ANDREW (TUD)	3-B34-7.8
AP	PEHANICH DIANA L	3-B23S-10	CF	THOMAS GARY D & TRESA A (TRANSFER UPON DEATH (SURV)	3-B34-7.4
AQ	BATTISTA JULIE M RODGERS	3-B23S-10.1	CG	CANTERBURY LEWIS S JR & MELISSA D (JTWS)	3-B34-8
AR	BOLEN THEODORE A & LINDA G (SURV)	3-B23S-15.1	CH	MATTESON MATTHEW D & AMY R (SURV)	3-B34-7.1
AS	TRUEX SARAH B	3-B28D-29	CI	LOUDIN RICKEY G PATRICIA A JTWS	3-B34-9
AT	FLETCHER KENNETH F & MARY ANN	3-B28D-55	CJ	LOWRY DEVIN J & NICOLE M (JTWS)	3-B34-7.2
AU	COLLEY MARK E	3-B28D-56	CK	LOWERY DEVIN J & LOWERY NICOLE (JTWS)	3-B34-7.11
AV	COLLEY MARK E	3-B28D-57	CL	HANNAHS FREDERICK L	3-B34-70
AW	BURK DIANA	3-B28D-58	CM	RIGGS KENNETH	3-B34-10.1
AX	ELSON WILLIAM K & BETTY	3-B28D-59	CN	SONDA RICHARD L & SONDA HAROLD	3-B34-69
AY	FRANKLIN CEMETERY ASSOC	3-B28D-60	CO	WINTERS SHIRLEY (TOD) WINTERS ROBERT G (ETAL)	3-B34-68
AZ	MILLER SMILEY R MILLER JENNY L (JTWS)	3-B28D-63	CP	SHEERAN MARY L & CRAFT CUCARESE BEVERLY	3-B34-67
BA	POTTER ELIZABETH A	3-B28D-64	CQ	APPALACHIA MIDSTREAM SERVICES LLC	3-B34-65
BB	FRANKLIN CEMETERY ASSOCIATION TRUSTEES	3-B28D-66	CR	APPALACHIA MIDSTREAM SERVICES LLC	3-B34-66
BC	FRANKLIN METHODIST CHURCH	4-CC28-10	CS	DIGHT KENNETH W & BRENDA	3-B34-63
BD	MOORE MICHAEL A II & MOORE KIMBERLY (JTWS)	4-CC28-11	CT	DIGHT KENNETH W & BRENDA D	3-B34-62
BE	BERDINE FLOYD I (TOD)	4-CC29-1	CU	VANCAMP WILLIAM C JR	3-B34-27
BF	DEGARMO MARY K HERVEY	3-B29-1	CV	KANSAS GEORGE T	3-B34-28
BG	THE BROOKE COUNTY PARK & RECREATION	3-B29-2	CW	KANSAS GEORGE T	3-B34-29
BH	BOARD OF EDUCATION - BROOKE COUNTY	4-CC29-3	CX	AMBROSE NANCY J	3-B34-26
BI	RALSTON CHARLES L & SANDRA	4-CC29-4	CY	AMBROSE NANCY J	3-B34-25
BJ	RALSTON CHARLES L & SANDRA	4-CC29-5	CZ	AMBROSE NANCY J REV TRUST	3-B34-24
BK	FERGUSON JASON G	4-CC29-76	DA	AMBROSE NANCY J REV TRUST	3-B34-23
BL	FREE METHODIST CHURCH	3-B29-4	DB	MAZZELLA SIMON MATHEW & MARTHA KAY	3-B34-21
BM	POTTER JAY M II;JOHN PAUL; SAUVE' PENNY POTTER	3-B29E-1	DC	BUFFALO CEMETERY	3-B34-22
BN	RADVANSKY JOHN GABRIEL	3-B29J-7	DD	INMAN JAMES C JR & LAURA (SURV)	3-B34-19
BO	COPERICH RICHARD M & BELINDA A (JTWS)	3-B29J-24			
BP	COPERICH RICHARD M & BELINDA A (JTWS)	3-B29J-25			
BQ	COPERICH RICHARD M & BELINDA A (JTWS)	3-B29J-52			

REVISIONS:

COMPANY:						
OPERATOR'S			NICK BALLATO		DATE: 10-31-2023	
WELL #:			10H		API NO: 47-009-00335	
DISTRICT:			COUNTY:		DRAWN BY:Z. WOOD	
CROSS CREEK			BROOKE		SCALE: N/A	
			STATE:		DRAWING NO:2017-343	
			WV		WELL LOCATION PLAT	



DATE: 10-31-2023
API NO: 43-008-00335
DRAWN BY: J. WOOD
SCALE: N/A
DRAWING NO: 2017-343
WELL LOCATION PLAT

NICK BALLATO
10H

STATE:
WV

COUNTY:
BROOKE

DISTRICT:
CROSS CREEK

WELL #:

OPERATOR'S

COMPANY:

Production Company, LLC

Production Company, LLC

REVISIONS:

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
DE	AMBROSE NANCY J REV TRUST	3-B34-11	EU	HERVEY WILLIAM JUDSON III & THERESA (SURV)	3-B23R-64
DF	AMBROSE NANCY J REV TRUST	3-B34-14	EV	HERVEY WILLIAM JUDSON III & THERESA J (SURV)	3-B23R-63
DG	THOMAS CHARLES F & JEANNE L (SURV)	3-B34-13	EW	HERVEY WILLIAM JUDSON 1/5 ROBERT 3/5 & MARY KATHERINE 1/5	3-B23R-62
DH	FANASE CARMAN & KIMBERLY (SURV)	3-B34-18	EX	COOPER MARK H	4-CC23-94
DI	WALES BARBARA A	3-B34-17	EY	HERVEY RUSSELL C & LISA K (SURV)	3-B23R-62.1
DJ	SMITH BRIAN K	3-B33-114.1	EZ	HERVEY RUSSELL D & LISA K (SURV)	3-B23R-61.1
DK	BROOKE COUNTY PARK ASSOCIATION	3-B28-60	FA	WATSON WILLIAM E & MARA L	4-CC23-95
DL	BROOKE COUNTY PARK COMMISSION	3-B33-117	FB	MCDONOUGH JEFFREY R; CHARLOTTE D	4-CC23-91
DM	PARK & RECREATION COMMISSION	3-B28-61	FC	MCDONOUGH JEFFREY R ROTHWELL CHARLOTTE D (SURV)	4-CC23-90
DN	STARVAGGI INDUSTRIES INC	3-B28-63	FD	MCDONOUGH JEFFREY R ROTHWELL CHARLOTTE D (SURV)	4-CC23-89
DO	BROOKE COUNTY PARK COMMISSION	3-B28-64	FE	BEIHL ELWOOD F JR & PATRICIA J (SURV)	4-CC23-97
DP	KNORR BERNARD JOHN III (L EST) KNORR BERNARD J JR % RUBY F	3-B28-57.1	FF	FERGUSON JENNIFER & JESSICA	4-CC23-100
DQ	HANCHER ERIC DAVID	3-B28-57	FG	ROBINSON ROBERT A & JACLYN JO (SURVIVOR)	4-CC23-98
DR	EATON JANICE	3-B28-56	FH	ROBINSON ROBERT A & JACLYN JO (SURV)	4-CC23-99
DS	SCHUPBACH CHARLES EDWARD & ELSIE HELEN (SURV)	3-B28-55	FI	GRIFFITH ROBERT ALLEN	4-CC23-101
DT	HANCHER ERIC; GLASURE CHARLOTTE (SURV)	3-B28-54	FJ	PATTERSON JAMES R	4-CC23-85
DU	COEN CORINNA A	3-B28-53	FK	PATTERSON JAMES R	4-CC23-84
DV	MALONEY MARY ALICE	3-B28-52	FL	MEADE STEPHEN M & JACKIE D	4-CC23-83
DW	BENSON ANTHONY	3-B28-51	FM	SMITH MARJORIE L	4-CC23-82
DX	VIDERMAN GEORGE & KAREN (SURV)	3-B28D-47	FN	SCHWERTFEGER NORMAN	4-CC23-80
DY	VIDERMAN GEORGE & KAREN (SURV)	3-B28D-46	FO	HAUGHT JOSEPH B & LISA ANN (SURVIVORSHIP)	4-CC23-79
DZ	BOYD JAMES LEE & PAMELA SUSAN (SURV)	3-B28D-48	FP	TAYLOR LESTER JR & KRISTA (SURV)	4-CC23-104
EA	FRANKLIN CEMETERY ASSOCIATION, TRUSTEES	3-B28D-49	FQ	LEWIS GERALD LEWIS SANDRA (JTWS)	4-CC23-105
EB	VINCENT ROBERT R & BECKY L (SURV)	3-B28D-50	FR	LEWIS GERALD LEWIS SANDRA (JTWS)	4-CC23-106
EC	EDWARDS DAVID G & LINDA	3-B28D-53	FS	NORTHVIEW PROPERTIES LLC	4-CC23-113
ED	EDWARDS DAVID G & LINDA SUE	3-B28D-31	FT	NORTHVIEW PROPERTIES LLC	4-CC23-114
EE	WHITE GERALD JOSEPH & CARLA A	3-B28D-25	FU	WILLEY LYLE WILLIAM & GAIL LYNN HANES	4-CC23-73
EF	CONAWAY MICHAEL & LISA (SURV)	3-B23S-13	FV	WIGAL VICTOR M; RENSI MARY L (SURV)	4-CC23-72
EG	FADSE PATRICIA	3-B28D-1	FW	WIGAL VICTOR M; RENSI MARY L (SURV)	4-CC23-70
EH	FADSE PATRICIA & RICHARD VINCENT (JTWS)	3-B28D-2	FX	HENTHORN WILLIAM E	4-CC23-69
EI	MONTELIONE DAVID K & AUTUMM. (JTWS)	3-B28D-3	FY	BOTTORF RONALD C III & KRISTEN R (JTWS)	4-CC23-68
EJ	MONTELIONE DAVID K & AUTUM M (JTWS)	3-B28D-4	FZ	SMITH JOYCE A	4-CC23-65
EK	MAYNARD CONNIE L	3-B28D-5	GA	HILT JAMES FREDERICK & MABEL IRENE	4-CC23-64
EL	SIMALA MARK & JOANN (SURV)	3-B28D-6	GB	BOYCE LEONARD CRAIG & KAREN MARIE (SURV)	4-CC23-63
EM	BUCY CARMELLA RITA	3-B28-50	GC	HANES RANDY M	4-CC23-75
EN	HENSLER GERALD L	3-B23S-4.3	GD	HANES RANDY M	4-CC23-61
EO	LONG DIANE E	3-B23S-4	GE	RYAN TIMOTHY ALAN	4-CC23-60
EP	HADDON ROBIN	3-B23R-74	GF	RYAN TIMOTHY ALAN	4-CC23-59
EQ	GRIFFITH ROBERT ALLEN (LIFE ESTATE- MARY GRIFFITH)	3-B23R-73	GG	HART TED L JR & RUTH B (SURV)	4-CC23-56
ER	YOUNG REBECCA	3-B23R-67	GH	BOYD CHARLES A; MCFADDEN JANICE L (SURV)	4-CC23-52
ES	TAYLOR JEFFREY STEPHEN & TASHA M (SURVIVORSHIP)	3-B23R-66			
ET	GALLAGHER SCOTT E & KAREN J (SURV)	3-B23R-65			

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{RL} ^{VA} ⁺ [®]
Production Company™

OPERATOR'S

NICK BALLATO

WELL #:

10H

DISTRICT:

CROSS CREEK

COUNTY:

BROOKE

STATE:

WV

DATE: 10-31-2023

API NO: 47-009-00335

DRAWN BY: Z. WOOD

SCALE: N/A

DRAWING NO: 2017-343

WELL LOCATION PLAT

COMPLETION ID 2501173207
DAD ID 2001155543

COMPLETION ID 2501173507 DATE IN 20170617		WELL LOCATION PLAT		DRAWING NO: 2017-343		SCALE: N/A		DRAWN BY: S. WOOD		API NO: 47-009-00335		DATE: 10-31-2023	
CROSS CREEK		BROOKE		STATE: WV		NICK BALLATO		10H		OPERATOR'S		WELL #:	
DISTRICT:		COUNTY:		STATE:		NICK BALLATO		10H		OPERATOR'S		WELL #:	
COMPANY:		Production Company, LLC		Production Company, LLC		Production Company, LLC		Production Company, LLC		Production Company, LLC		Production Company, LLC	
REVISIONS:													

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
DE	AMBROSE NANCY J REV TRUST	3-B34-11	EU	HERVEY WILLIAM JUDSON III & THEREA (SURV)	3-B33R-64
DF	AMBROSE NANCY J REV TRUST	3-B34-14	EV	HERVEY WILLIAM JUDSON III & THEREA J (SURV)	3-B33R-63
DG	THOMAS CHARLES F & JEANNE L (SURV)	3-B34-13	EW	HERVEY WILLIAM JUDSON J/S ROBERT J/S & MARY KATHERINE J/S	3-B33R-65
DH	FANASE CARMAN & KIMBERLY (SURV)	3-B34-18	EX	COOPER MARK H	4-CC33-94
DI	WALES BARBARA A	3-B34-17	EY	HERVEY RUSSELL C & LISA K (SURV)	3-B33R-65.1
DJ	SMITH BRIAN K	3-B33-114.1	EZ	HERVEY RUSSELL D & LISA K (SURV)	3-B33R-61.1
DK	BROOKE COUNTY PARK ASSOCIATION	3-B38-60	FA	WATSON WILLIAM E & MARY J	4-CC33-92
DL	BROOKE COUNTY PARK COMMISSION	3-B33-117	FB	MCDONOUGH JEFFREY R; CHARLOTTE D	4-CC33-91
DM	PARK & RECREATION COMMISSION	3-B38-61	FC	MCDONOUGH JEFFREY R ROTHWELL CHARLOTTE D (SURV)	4-CC33-90
DN	STARVAGGI INDUSTRIES INC	3-B38-63	FD	MCDONOUGH JEFFREY R ROTHWELL CHARLOTTE D (SURV)	4-CC33-89
DO	BROOKE COUNTY PARK COMMISSION	3-B38-64	FE	BEHL ELWOOD F JR & PATRICIA J (SURV)	4-CC33-93
DP	KNORR BERNARD JOHN III (L EST) KNORR BERNARD J JR & RUBY F	3-B38-27.1	FF	FERGUSON JENNIFER & JESSICA	4-CC33-100
DQ	HANCHER ERIC DAVID	3-B38-27	FG	ROBINSON ROBERT A & JACLYN JO (SURVIVOR)	4-CC33-98
DR	EATON JANICE	3-B38-26	FH	ROBINSON ROBERT A & JACLYN JO (SURV)	4-CC33-99
DS	SCHUBACH CHARLES EDWARD & ELSIE HELEN (SURV)	3-B38-22	FI	GRIFFITH ROBERT ALLEN	4-CC33-101
DT	HANCHER ERIC; GLASURE CHARLOTTE (SURV)	3-B38-24	FJ	PATTERSON JAMES R	4-CC33-82
DU	COEN CORINNA A	3-B38-23	FK	PATTERSON JAMES R	4-CC33-84
DV	MAHONEY MARY ALICE	3-B38-25	FL	MEADE STEPHEN M & JACKIE D	4-CC33-83
DW	BENSON ANTHONY	3-B38-21	FM	SMITH MARJORIE L	4-CC33-85
DX	VIDERMAN GEORGE & KAREN (SURV)	3-B38D-47	FN	SCHWERTFEGGER NORMAN	4-CC33-80
DY	VIDERMAN GEORGE & KAREN (SURV)	3-B38D-46	FO	HAUGHT JOSEPH B & LISA ANN (SURVIVORSHIP)	4-CC33-79
DZ	BOYD JAMES LEE & PAMELA SUSAN (SURV)	3-B38D-48	FP	TAYLOR LESTER JR & KRISTA (SURV)	4-CC33-104
EA	FRANKLIN CEMETERY ASSOCIATION, TRUSTEES	3-B38D-49	FQ	LEWIS GERALD LEWIS SANDRA (JTW2)	4-CC33-102
EB	VINCENT ROBERT R & BECKY L (SURV)	3-B38D-20	FR	LEWIS GERALD LEWIS SANDRA (JTW2)	4-CC33-106
EC	EDWARDS DAVID G & LINDA	3-B38D-23	FS	NORTHVIEW PROPERTIES LLC	4-CC33-113
ED	EDWARDS DAVID G & LINDA SUE	3-B38D-31	FT	NORTHVIEW PROPERTIES LLC	4-CC33-114
EE	WHITE GERALD JOSEPH & CARLA A	3-B38D-22	FU	WILLEY LYLE WILLIAM & GAIL LYNN HANES	4-CC33-73
EF	CONWAY MICHAEL & LISA (SURV)	3-B32-13	FV	WIGAL VICTOR M; RENZI MARY J (SURV)	4-CC33-75
EG	FADSE PATRICIA	3-B38D-1	FW	WIGAL VICTOR M; RENZI MARY J (SURV)	4-CC33-70
EH	FADSE PATRICIA & RICHARD VINCENT (JTW2)	3-B38D-2	FX	HENTHORN WILLIAM E	4-CC33-69
EI	MONTFLEONE DAVID K & AUTUMM. (JTW2)	3-B38D-3	FY	BOTTORF RONALD C III & KRISTEN R (JTW2)	4-CC33-68
EJ	MONTFLEONE DAVID K & AUTUM M (JTW2)	3-B38D-4	FZ	SMITH JOYCE A	4-CC33-62
EK	MAYNARD CONNIE L	3-B38D-2	GA	HILT JAMES FREDERICK & MABEL IRENE	4-CC33-64
EL	SIMALA MARK & JOANN (SURV)	3-B38D-6	GB	BOYCE LEONARD CRAIG & KAREN MARIE (SURV)	4-CC33-63
EM	BUCK CARMELLA RITA	3-B38-20	GC	HANES RANDY M	4-CC33-72
EN	HENSLEY GERALD L	3-B32-4.3	GD	HANES RANDY M	4-CC33-61
EO	LONG DIANE E	3-B32-4	GE	RYAN TIMOTHY ALAN	4-CC33-60
EP	HADDON ROBIN	3-B33R-74	GF	RYAN TIMOTHY ALAN	4-CC33-29
EQ	GRIFFITH ROBERT ALLEN (LIFE ESTATE- MARY GRIFFITH)	3-B33R-73	GG	HART TED J JR & RUTH B (SURV)	4-CC33-26
ER	YOUNG REBECCA	3-B33R-67	GH	BOYD CHARLES A; MCFADDEN JANICE L (SURV)	4-CC33-25
ES	TAYLOR JEFFREY STEPHEN & TASHA M (SURVIVORSHIP)	3-B33R-66			
ET	GALLAGHER SCOTT E & KAREN J (SURV)	3-B33R-65			

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
GI	CLARK TODD	4-CC23-51.23
GJ	WILLEY MELINDA	4-CC23-51.24
GK	CHERIPKO HELEN & ELAINE MARCUM JTWS	4-C19P-48
GL	NELSON JAMES G & MARILYN L	4-C19P-47
GM	PEPE TODD A;MITCHELL MICHELE R (LE-FRANCES D PEPE	4-C19P-46
GN	SHIMKO LORI A & JOHN (JTWS) L EST EST)MCLAIN PATRICIA A	4-C19P-45
GO	DELATORE WILLIAM LINCOLN & DENISE LYNN ET AL	4-C19P-44
GP	RAGAN MICHAEL M & BRENDA A	4-C19P-43
GQ	RAGAN MICHAEL M & BRENDA A	4-C19P-41
GR	KIDWELL GEORGE STEVE SEBECK ETAL	4-C19K-51
GS	OSETEK JOSEPH	4-C19K-53
GT	KIMBALL LAWRENCE	4-C19K-55
GU	KIMBALL LAWRENCE	4-CC19-104
GV	KIMBALL LAWRENCE	4-C19K-56
GW	MARCUM HATTIE	4-C19K-54
GX	BALLATO NICK & CHRISTOPHER	4-CC19-102
GY	KIDWELL GEORGE SEBECK STEVE ETAL	4-C19K-52
GZ	KIDWELL GEORGE SEBECK STEVE ETAL	4-C19K-8
HA	FERDA MARLENE ET AL EACH@1/3	4-C19K-3
HB	FURDA MARLENE D & GREG A	4-C19K-2
HC	FERDA MARLENE ETAL EACH@1/3	4-C19K-1
HD	RIDGETOP APPALACHIA,LLC	4-CC19-100
HE	FERDA MARLENE ETAL EACH @ 13	4-CC19-99
HF	BURCH AMY J	4-CC23-67
HG	HUBBARD SAMUEL H & SHELBA J (JTWS)	4-CC23-86.2

REVISIONS:

COMPANY:						
OPERATOR'S			NICK BALLATO			DATE: 10-31-2023
WELL #:			10H			API NO: 47-009-00335
DISTRICT:			COUNTY:			DRAWN BY:Z. WOOD
CROSS CREEK			BROOKE			SCALE: N/A
			STATE:			DRAWING NO:2017-343
			WV			WELL LOCATION PLAT

COMPLETION ID 2501123207
DATE 10-31-2023

WELL LOCATION PLAT
DRAWING NO:2017-343
SCALE: N/A
DRAWN BY: S. WOOD
API NO: 43-009-00332

DATE: 10-31-2023

CROSS CREEK

BROOKE

STATE: WV

10H

NICK BALLATO

OPERATOR'S

WELL #:

COMPANY:

REVISIONS:

SWN

Production Company, LLC

SWN

Production Company, LLC

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
GI	CLARK TODD	4-CC33-21-23
GI	WILLEY MELINDA	4-CC33-21-24
GK	CHERIKO HELEN & ELAINE MARCUM 1TW2	4-C19P-48
GL	NELSON JAMES G & MARILYN L	4-C19P-47
GM	PEPE TODD A; MITCHELL MICHELE R (LE-FRANCES D PEPE	4-C19P-46
GN	SHIMKO LORI A & JOHN (1TW2) L EST EST (MCLAIN PATRICIA A	4-C19P-45
GO	DELAFORE WILLIAM LINCOLN & DENISE LYNN ET AL	4-C19P-44
GP	RAGAN MICHAEL M & BRENDA A	4-C19P-43
GD	RAGAN MICHAEL M & BRENDA A	4-C19P-41
GR	KIDWELL GEORGE STEVE SEBECK ETAL	4-C19K-21
GS	OSETEK JOSEPH	4-C19K-23
GT	KIMBALL LAWRENCE	4-C19K-22
GU	KIMBALL LAWRENCE	4-CC19-104
GV	KIMBALL LAWRENCE	4-C19K-26
GW	MARCUM HATTIE	4-C19K-24
GX	BALLATO NICK & CHRISTOPHER	4-CC19-105
GY	KIDWELL GEORGE STEVE SEBECK ETAL	4-C19K-25
GZ	KIDWELL GEORGE STEVE SEBECK ETAL	4-C19K-8
HA	FERDA MARLENE ET AL EACH@1\3	4-C19K-3
HB	FERDA MARLENE D & GREG A	4-C19K-5
HC	FERDA MARLENE ETAL EACH@1\3	4-C19K-1
HD	RIDGETOP APPALACHIA, LLC	4-CC19-100
HE	FERDA MARLENE ETAL EACH @ 13	4-CC19-99
HF	BURCH AMY I	4-CC33-92
HG	HUBBARD SAMUEL H & SHERBA J (1TW2)	4-CC33-86.5