

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

API 47-009-00331 County BROOKE/OHIO District CROSS CREEK
Quad STEUBENVILLE EAST Pad Name STATE OF WV DNR B-BRK-PAD1 Field/Pool Name PANHANDLE FIELD WET
Farm name STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR Well Number STATE OF WV DNR B BRK 206H
Operator (as registered with the OOG) SWN PRODUCTION COMPANY, LLC
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,465,703.61 Easting 540,109.92
Landing Point of Curve Northing 4,465,392.46 Easting 539,521.31
Bottom Hole Northing 4,461,709.53 Easting 540,816.71

Elevation (ft) 1201.2" GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
SOBM

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Date permit issued 9/26/2022 Date drilling commenced 5/5/2023 Date drilling ceased 5/20/2023
Date completion activities began 6/9/2023 Date completion activities ceased 7/10/2023
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 543' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 693' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 135' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
[Signature]
10/18/2023

API 47-009 - 00331 Farm name STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR Well number STATE OF WV DNR B BRK 206H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24	20	136	NEW	J-55/94#		Y
Surface	17.5	13.375	621	NEW	J-55/54.5#	117.9'	Y/ 75 BBLS
Coal	SEE SURFACE CASING						
Intermediate 1	12.25	9.625	1,481	NEW	J-55/36#		Y/ 27 BBLS
Intermediate 2							
Intermediate 3							
Production	8.50	5.5	19,793	NEW	P-110 HP/20#		Y / 10 BBLS
Tubing		2.875	6,639	NEW	P-110/6.5#		N
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	888	15.60	1.19	1,056.72	SURFACE	8
Coal							
Intermediate 1	CLASS A	568	15.60	1.19	675.92	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,592	14.50	1.29	4,633.68	SURFACE	24
Tubing							

Drillers TD (ft) 19,798' Loggers TD (ft) 19,798'
 Deepest formation penetrated MARCELLUS Plug back to (ft) 19,748'
 Plug back procedure N/A

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Kick off depth (ft) 5,466' MD

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Check all wireline logs run caliper density deviated/directional induction neutron resistivity gamma ray temperature Sonic

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Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
 SURFACE: 7 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 INTERMEDIATE: 19 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 455 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47- 009 - 00331 Farm name STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR Well number STATE OF WV DNR B BRK 206H

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.

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Amount of
Nitrogen/other (units)

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 Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
		SEE	ATTACHMENT	2				

Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
MARCELLUS	5,618'	TVD 6,359' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 2,115 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs
 OPEN FLOW Gas 8,058 mcfpd Oil 1,759 bpd NGL _____ bpd Water 667 bpd GAS MEASURED BY Estimated 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 (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	0		0		
	SEE	ATTACHMENT	3		

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

Please insert additional pages as applicable.

Completed by DENISE GRANTHAM Telephone 832-796-6139
 Signature Dennise Grantham / CAP Title REGULATORY SPECIALIST Date 9/27/2023

Submission of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry



Well Name:

STATE OF WV DNR B BRK 206H

47009003310000

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	543.00	543.00	
Top of Salt Water	693.00	693.00	NA	NA	
Pittsburgh Coal	135.00	135.00	185.00	185.00	
Ravenciff (ss)	692.00	692.00	852.00	852.00	
Maxton (ss)	1015.00	1014.00	1235.00	1229.00	
Big Injun (ss)	1235.00	1229.00	1400.00	1387.00	
Rhinestreet (shale)	5648.00	5128.00	5829.00	5285.00	
Cashagua (shale)	5923.00	5360.00	5995.00	5415.00	
Middlesex (shale)	5995.00	5415.00	6075.00	5471.00	
Burket (shale)	6075.00	5471.00	6101.00	5488.00	
Tully (ls)	6101.00	5488.00	6190.00	5541.00	
Mahantango (shale)	6190.00	5541.00	6359.00	5618.00	
Marcellus (shale)	6359.00	5618.00	NA	NA	GAS

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PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	6/2/2023	19,703	19,609	36
2	6/9/2023	19,575	19,396	36
3	6/10/2023	19,363	19,184	36
4	6/10/2023	19,151	18,972	36
5	6/10/2023	18,939	18,760	36
6	6/11/2023	18,726	18,548	36
7	6/11/2023	18,514	18,335	36
8	6/12/2023	18,302	18,123	36
9	6/12/2023	18,090	17,911	36
10	6/12/2023	17,878	17,699	36
11	6/13/2023	17,666	17,487	36
12	6/13/2023	17,454	17,275	36
13	6/13/2023	17,241	17,063	36
14	6/13/2023	17,029	16,850	36
15	6/13/2023	16,817	16,638	36
16	6/14/2023	16,605	16,426	36
17	6/14/2023	16,393	16,214	36
18	6/14/2023	16,181	16,002	36
19	6/14/2023	15,968	15,790	36
20	6/14/2023	15,756	15,578	36
21	6/15/2023	15,544	15,365	36
22	6/15/2023	15,332	15,153	36
23	6/15/2023	15,120	14,941	36
24	6/15/2023	14,908	14,729	36
25	6/16/2023	14,696	14,517	36
26	6/16/2023	14,483	14,305	36
27	6/16/2023	14,271	14,093	36
28	6/17/2023	14,059	13,880	36
29	6/17/2023	13,847	13,668	36
30	6/17/2023	13,635	13,456	36
31	6/17/2023	13,423	13,244	36
32	6/17/2023	13,211	13,032	36
33	6/18/2023	12,998	12,820	36
34	6/18/2023	12,786	12,608	36
35	6/18/2023	12,574	12,395	36
36	6/18/2023	12,362	12,183	36
37	6/18/2023	12,150	11,971	36
38	6/18/2023	11,938	11,759	36
39	6/19/2023	11,726	11,547	36
40	6/19/2023	11,513	11,335	36
41	6/19/2023	11,301	11,122	72
42	6/19/2023	11,089	10,910	36
43	6/20/2023	10,877	10,698	36

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ATTACHMENT 1
PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
44	6/20/2023	10,665	10,486	36
45	6/20/2023	10,453	10,274	36
46	6/20/2023	10,241	10,062	36
47	6/20/2023	10,028	9,850	36
48	6/21/2023	9,816	9,637	36
49	6/21/2023	9,604	9,425	36
50	6/21/2023	9,392	9,213	36
51	6/21/2023	9,180	9,001	36
52	6/21/2023	8,968	8,789	36
53	6/21/2023	8,755	8,577	36
54	6/22/2023	8,543	8,365	36
55	6/22/2023	8,331	8,152	36
56	6/22/2023	8,119	7,940	36
57	6/22/2023	7,907	7,728	36
58	6/22/2023	7,695	7,516	36
59	6/22/2023	7,483	7,304	36
60	6/23/2023	7,270	7,092	36
61	6/23/2023	7,058	6,880	36
62	6/23/2023	6,846	6,667	36

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STIM REPORT

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/othe
1	6/9/2023	80.6	7,282	4,616	4,272	192,000	5,818	0
2	6/9/2023	80.9	6,755	4,581	4,251	367,500	8,971	0
3	6/10/2023	89.8	7,330	4,723	4,123	367,500	8,629	0
4	6/10/2023	86.2	7,401	5,234	4,527	367,500	8,835	0
5	6/10/2023	97.8	7,977	4,982	4,542	367,500	8,857	0
6	6/11/2023	96.7	7,851	4,852	4,638	367,500	8,429	0
7	6/11/2023	93.4	7,882	5,055	4,365	333,400	10,501	0
8	6/12/2023	77.6	7,250	4,878	4,163	367,500	8,478	0
9	6/12/2023	85.9	7,803	5,169	4,512	367,500	8,259	0
10	6/12/2023	89	8,183	5,378	4,362	367,500	8,401	0
11	6/13/2023	74.1	7,357	5,512	4,414	367,500	8,449	0
12	6/13/2023	78.5	7,521	5,128	4,434	367,500	8,774	0
13	6/13/2023	79	7,336	5,257	3,700	367,500	7,616	0
14	6/13/2023	80.9	7,186	5,036	4,554	367,500	7,817	0
15	6/14/2023	79.2	7,249	5,331	3,972	367,500	7,580	0
16	6/14/2023	80	7,217	5,425	4,658	367,500	7,210	0
17	6/14/2023	74.8	6,924	5,649	4,353	367,500	7,320	0
18	6/14/2023	89.1	7,668	5,603	4,429	367,500	7,543	0
19	6/14/2023	88.6	7,601	6,093	4,123	367,500	7,677	0
20	6/14/2023	87	7,491	5,821	4,276	367,500	7,694	0
21	6/15/2023	92.9	7,405	5,868	3,798	367,500	7,740	0
22	6/15/2023	89.6	7,545	5,634	4,479	367,500	7,659	0
23	6/15/2023	93.2	7,737	5,284	4,265	367,500	7,612	0
24	6/15/2023	94.4	7,850	5,580	3,966	367,500	7,578	0
25	6/16/2023	71.1	9,667	5,775	5,185	172,000	6,867	0
26	6/16/2023	81.9	7,036	5,510	3,530	367,500	7,466	0
27	6/16/2023	82.9	6,766	6,225	4,371	367,500	7,403	0
28	6/17/2023	80.6	6,763	4,674	3,918	367,500	7,432	0
29	6/17/2023	75.2	6,780	5,908	4,083	367,500	7,327	0
30	6/17/2023	81.8	7,064	5,035	4,235	367,500	7,090	0
31	6/17/2023	82.1	6,940	5,951	4,252	367,500	7,128	0
32	6/17/2023	88.3	6,936	6,371	3,720	367,500	7,372	0
33	6/18/2023	88.4	6,983	6,480	4,733	367,500	7,196	0
34	6/18/2023	89.4	7,378	5,602	4,468	367,500	7,325	0
35	6/18/2023	87.8	7,122	5,156	4,624	367,500	7,097	0
36	6/18/2023	90.1	7,371	5,975	4,598	307,540	6,497	0
37	6/18/2023	87	6,453	2,342	3,954	367,500	7,428	0
38	6/19/2023	83.9	6,828	6,222	4,335	367,500	7,047	0
39	6/19/2023	79.4	6,819	5,862	4,711	367,500	7,024	0
40	6/19/2023	80.8	6,456	5,562	4,474	367,500	7,811	0
41	6/19/2023	82	7,566	5,837	4,956	367,500	10,796	0
42	6/19/2023	87.4	6,878	5,768	3,956	367,500	7,429	0
43	6/20/2023	87.6	6,551	5,679	3,739	367,500	7,441	0
44	6/20/2023	88.2	6,732	5,755	4,365	367,500	7,844	0
45	6/20/2023	89.9	6,880	5,684	4,610	367,500	7,838	0
46	6/20/2023	89.9	6,613	6,106	4,536	367,500	7,965	0
47	6/20/2023	87.4	6,573	5,095	4,631	367,500	7,865	0
48	6/21/2023	86.5	6,616	5,728	3,965	367,500	7,821	0
49	6/21/2023	86.3	6,648	4,307	4,852	367,500	7,755	0
50	6/21/2023	87.6	6,445	5,690	4,852	367,500	7,743	0
51	6/21/2023	84	6,305	5,760	4,856	367,500	7,597	0
52	6/21/2023	95.5	6,888	5,702	6,954	367,500	7,997	0
53	6/22/2023	95	6,710	5,842	6,465	367,500	8,073	0

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ATTACHMENT 2

STIM REPORT

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/othe
54	6/22/2023	94	6,754	6,182	4,865	367,500	7,859	0
55	6/22/2023	86.5	6,602	5,060	5,125	311,000	7,297	0
56	6/22/2023	86.2	6,568	6,045	4,985	367,500	7,716	0
57	6/22/2023	89.8	6,543	5,058	3,948	367,500	8,393	0
58	6/22/2023	94.8	6,463	5,062	5,410	367,500	7,863	0
59	6/22/2023	94.8	6,534	4,857	5,482	367,500	7,934	0
60	6/23/2023	87	6,268	5,654	4,852	367,500	7,780	0
61	6/23/2023	87	6,407	5,890	4,550	364,920	7,700	0
62	6/23/2023	94	6,284	5,825	4,432	367,500	7,850	0

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/9/2023
Job End Date:	6/23/2023
State:	West Virginia
County:	Brooke
API Number:	47-009-00331-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	STATE OF WV DNR B BRK 206
Latitude:	40.34091568
Longitude:	-80.52775153
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,775
Total Base Water Volume (gal):	19,919,326
Total Base Non Water Volume:	0

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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	87.96898	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	45.00000	0.35005	

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			Water	7732-18-5	100.00000	0.35005	
			Water	7732-18-5	85.00000	0.35005	
Sand	SWN Well Services	Proppant		Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor		Listed Below			
HCL	SWN Well Services	Solvent		Listed Below			
Plexalid 655NM	SWN Well Services	Scale Inhibitor		Listed Below			
Plexslick 930	SWN Well Services	Friction Reducer		Listed Below			
Ferrplex 80	SWN Well Services	Iron Control		Listed Below			
Tolicide 4Frac	SWN Well Services	Biocide		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	11.58620	
			Hydrochloric Acid	7647-01-0	15.00000	0.05259	

			Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8	45.00000	0.00460	
			Sodium Erythorbate	6381-77-7	100.00000	0.00187	
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00077	
			Ethanol	64-17-5	2.50000	0.00026	
			Ethylene glycol	107-21-1	40.00000	0.00021	
			Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-	9016-45-9	10.00000	0.00005	
			Cinnamaldehyde	104-55-2	10.00000	0.00005	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00005	
			Triethyl phosphate	78-40-0	5.00000	0.00003	
			Isopropyl alcohol	67-63-0	5.00000	0.00003	
			1-Decanol	112-30-1	5.00000	0.00003	
			1-Octanol	111-87-5	5.00000	0.00003	
			benzyl chloridequaternized	72480-70-7	5.00000	0.00003	
			2-Butoxyethanol	111-76-2	5.00000	0.00003	

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

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

*** 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)

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LATITUDE: 40°22'30" SURFACE HOLE (2000' SCALE)

7,791'

LATITUDE: 40°10'00" BOTTOM HOLE (2000' SCALE)

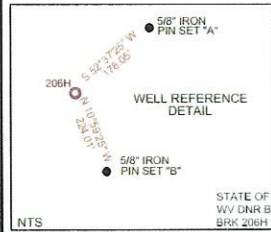
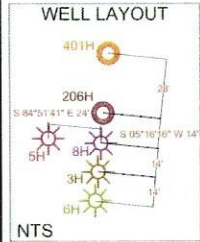
5,547'



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

NOTES ON SURVEY

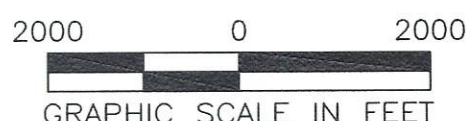
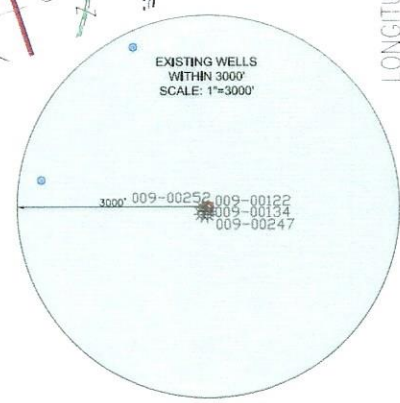
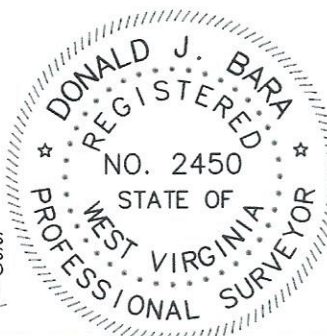
- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT 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.



LINE	BEARING	DISTANCE
L1	N05°40'38"E	676.59'
L2	N35°20'16"W	1260.84'

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4465703.61 EASTING: 540109.92
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4465392.46 EASTING: 539521.31
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4461709.53 EASTING: 540816.71
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LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4465451.17 EASTING: 539483.57
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4461713.15 EASTING: 540827.28

RECEIVED
Office of Oil and Gas
SEP 28 2023
WV Department of Environmental Protection



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** Production Company, LLC

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)</p>	<p>STATE OF WV DNR B BRK</p> <p>OPERATOR'S WELL #: 206H</p> <p>API WELL #: 47 009 00331 STATE COUNTY PERMIT</p>
	<p>WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: UPPER OHIO NORTH</p> <p>DISTRICT: CROSS CREEK COUNTY: BROOKE/OHIO</p> <p>SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR</p> <p>OIL & GAS ROYALTY OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR</p> <p>DRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/></p> <p>CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) AS-DRILLED</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,859' TVD 19,798' TMD</p>	<p>ELEVATION: 1201.2'</p> <p>QUADRANGLE: STEUBENVILLE EAST</p> <p>ACREAGE: ±169.43</p> <p>ACREAGE: ±169.43</p>

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
--	--

<p>LEGEND:</p> <ul style="list-style-type: none"> EXISTING BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LPL* EXISTING LANDING POINT LOCATION PROPOSED SURFACE HOLE / BOTTOM HOLE PROPOSED LANDING POINT LOCATION ACCESS ROAD PUBLIC ROAD FLOOD PLAIN LEASE BOUNDARY AS-DRILLED PATH 	<p>REVISIONS:</p>	<p>DATE: 09-19-2023</p> <p>API NO: 47-009-00331</p> <p>DRAWN BY: Z. WOOD</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO: 2017-541</p> <p>WELL LOCATION PLAT</p>
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LONGITUDE: 80°35'00" BOTTOM HOLE (2000' SCALE)

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

LATITUDE: 40°22'30" SURFACE HOLE (2000' SCALE)

7,791'

LATITUDE: 40°10'00" BOTTOM HOLE (2000' SCALE)

5,547'

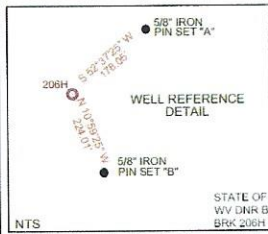
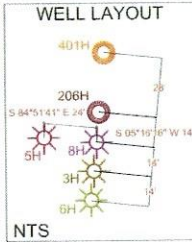


www.jhacompanies.com

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

NOTES ON SURVEY

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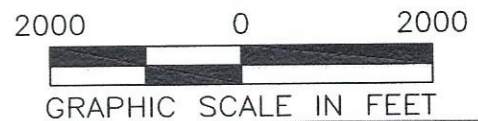
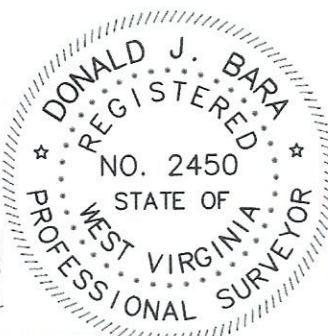
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P.S. 2450



RECEIVED
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SEP 28 2023
WV Department of
Environmental Protection



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LONGITUDE: 80°35'00" BOTTOM HOLE (2000' SCALE)
LONGITUDE: 80°30'00" SURFACE HOLE (2000' SCALE)

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION (S/R)	4-CC16-19
TRACT	SURFACE OWNER	TAX PARCEL
2	TICE DANNY D & MARCIA (SURV)	4-CC16-16
3	KUZMA NATHANAE L J AMY L(JTWS)	4-CC16-26.1
4	SUTER ARISSA M; COCHRAN KENNETH A (SURV)	4-CC16-27
5	LEWIS MATTHEW C & HOLLY W (SURV)	4-CC12-54.1
6	VANCAMP NEIL E JR & MICHELLE L (SURV)	4-CC16-28
7	WILLS KENNETH 1/3 WILLS TED 1/3 ELLERY DONNA 1/3	4-CC16-33
8	FIELD LEONARD KEITH	4-CC16-31
9	MAZZELLA LAWRENCE & JILL	4-CC16-25
10	HOOPER TIMOTHY S & STACY (SURV)	4-CC12-54
11	MOLNAR DENNIS SR & DENNIS JR	4-CC16-13
12	WEST VIRGINIA ST OF BUREAU DIV OF COMM DIV OF NAT RES PB LD	4-CC16-11
13	ST OF WV BUREAU OF COMM-DNR PUBLIC LAND CORP	4-CC16-23.1
14	STATE OF WV BUREAU COMM-DIV NR PUBLIC LAND CORP	4-CC16-8.1
15	ST OF WV DEPT OF COMMERCE NAT RESOURCES	4-CC16-23
16	ST OF WV DEPT OF COMMERCE NAT RESOURCES	4-CC16-24
17	ST OF WV DEPT OF COMMERCE NAT RESOURCES	4-CC20-27
18	ST OF WV DEPT OF COMMERCE NAT RESOURCES	4-CC20-30
19	GOODMAN RICHARD & JANICE	4-CC20-28
20	ST OF WV DEPT OF COMMERCE NAT RESOURCES	4-CC20-31
21	ST OF WV DEPT OF COMMERCE NAT RESOURCES DIV	4-CC20-25
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	FRESHWATER MARGARET	4-C12K-80
B	HAMILTON DEBORAH JANE	4-C12K-78
C	MCDERMITT ARTHUR C JR	380-008-00-00-0007-01
D	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD CORP	4-CC16-22
E	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD CORP	4-CC16-20
F	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD CORP	4-CC16-21
G	MCDERMITT ARTHUR C JR	380-008-00-00-0007-03
H	PENNWEIR CONSTRUCTION CO	380-014-00-00-0009-00
I	PENNWEIR CONSTRUCTION CO	380-014-00-00-0008-00
J	PENNWEIR CONSTRUCTION CO	380-014-00-00-0007-00
K	ST OF WV DEPT OF COMMERCE NAT RESOURCES	4-CC20-30
L	GOODMAN RICHARD & JANICE	4-CC20-29
M	GOODMAN RICHARD T & JANICE (SURV)	4-CC20-30.1
N	PENNWEIR CONSTRUCTION CO	380-014-00-00-0006-00
O	PENNWEIR CONSTRUCTION CO	380-014-00-00-0005-00
P	PENNWEIR CONSTRUCTION CO	380-014-00-00-0004-00
Q	PENNWEIR CONSTRUCTION CO	380-014-00-00-0003-00
R	PENNWEIR CONSTRUCTION CO	380-014-00-00-0003-00
S	NICKOLES 3 LLC	4-CC20-33
T	SLIDAY DEBORAH K	4-CC20-32
U	ST OF WV DEPT OF COMMERCE NAT RESOURCES DIV	4-CC20-25
V	ST OF WV DEPT OF COMMERCE NAT RESOURCES	4-CC20-31
W	ST OF WV DEPT OF COMMERCE NAT RESOURCES	4-CC20-26
X	ST OF WV DEPT OF COMMERCE NAT RESOURCES	4-CC16-8
Y	ST OF WV DEPT OF COMMERCE NAT RESOURCES	4-CC20-46
Z	WV BUREAU OF COMMERCE DIV OF NATURAL RESOURCE	4-CC16-7.1
AA	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PUB LD COM	4-CC16-6
AB	PALFALVY IRREVOCABLE TRUST DENNIS III, THE	4-CC16-5
AC	DAMI TERRY A ETAL (LE-JOSEPH T & LOIS C	4-CC16-9
AD	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD COMM	4-CC16-10
AE	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD CORP	4-CC16-12
AF	REED RONALD ALLEN	4-CC16-4
AG	BRADY RALPH A II; JOHNSTON JOYCE ANN (SURV)	4-CC16-2
AH	BRADY RALPH A II; JOHNSTON JOYCE ANN (SURV)	4-CC16-3
AI	MAROSI PAUL	4-CC16-1
AJ	VANCAMP NEIL E JR & MICHELLE L (JTWS)	4-CC16-1.5
AK	IVILL LIVING TRUST CHERYL TRUSTEE	4-C11S-58
AL	DENNIS TAWNIA R	4-CC12-62
AM	DENNIS SHAWN A	4-C12J-33
AN	LANTZ SUSAN PORCH	4-C12J-28
AO	THOMAS RITA K	4-CC12-55
AP	LEWIS MATTHEW C & HOLLY W (SURV)	4-CC12-52
AQ	LONGWELL MARTY R & DIANA L (SURV)	4-CC12-48
AR	LONGWELL MARTY R & DIANA L (SURV)	4-CC12-47
AS	LONGWELL MARTY R & DIANA L (SURV)	4-CC12-46
AT	LONGWELL DIANA LYNN & MARTY ROBBON	4-CC12-45
AU	BUBECK PHILIP J	4-CC12-44
AV	BUBECK BRIAN B & STEPHANIE J (SURV)	4-CC12-43
AW	LONGWELL DIANA	4-CC12-42
AX	DODD GERALDINE	4-CC12-41
AY	DODD PAUL C & DONNA A (JTWS)	4-CC12-40
AZ	DODD PAUL C & DONNA A (JTWS)	4-CC12-39
BA	DODD LARRY G SR & NORA LOU	4-CC12-38
BB	THOMAS RITA K	4-CC12-55
BC	MONROE ALLEN & JENNIFER (JTWS)	4-CC12-63
BD	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD CORP	4-CC16-18
BE	WEST VIRGINIA ST OF BUREAU OF COMM DIV OF NAT RES PB LD CORP	4-CC16-17
BF	CUNNINGHAM TIMOTHY BRIAN	4-CC16-15
BG	PAULES DONNA K	4-CC16-14
BH	TENNANT WILLIAM J & APRIL L (JTWS)	4-CC16-34
BI	ABATE ALICIA F	4-CC16-30
BJ	STECIK KIRK & BRANDY L JTWS	4-CC16-29
BK	FAMILY CONNECTIONS INC	4-CC16-26

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SEP 28 2023
WV Department of
Environmental Protection

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{RA} ^{AV}
Production Company™

OPERATOR'S

STATE OF WV DNR B BRK

DATE: 09-19-2023

WELL #:

206H

API NO: 47-009-00331

DISTRICT:

COUNTY:

STATE:

DRAWN BY: Z. WOOD

CROSS CREEK

BROOKE/OHIO

WV

SCALE: N/A

DRAWING NO: 2017-541

WELL LOCATION PLAT

COMPLETION ID 2501163237
PAR ID 3001155614

NO DISCHARGE

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Discharge Monitoring Report
Oil and Gas General Permit

Company Name: SWN PRODUCTION COMPANY, LLC
API No: 47-009-00331 County: BROOKE/OHIO
District: CROSS CREEK Well No: STATE OF WV DNR B BRK 206H
Farm Name: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR
Discharge Date/s From:(MMDDYY) _____ To: (MMDDYY) _____
Discharge Times. From: _____ To: _____
Total Volume to be Disposed from this facility (gallons): _____
Disposal Option(s) Utilized (write volumes in gallons): _____

- (1) Land Application: _____ (Include a topographical map of the Area.)
- (2) UIC: _____ Permit No. _____
- (3) Offsite Disposal: _____ Site Location: _____
- (4) Reuse: _____ Alternate Permit Number: _____
- (5) Centralized Facility: _____ Permit No. _____
- (6) Other method: _____ (Include an explanation)

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WV Department of
Environmental Protection

Follow Instructions below to determine your treatment category:

- Optional Pretreatment test: _____ Cl- mg/l _____ DO mg/l
1. Do you have permission to use expedited treatment from the Director or his representative?
(Y/N) _____ If yes, who? _____ and place a four (4) on line 7.
If not go to line 2
 2. Was Frac Fluid or flowback put into the pit? (Y/N) _____ If yes, go to line 5. If not, go to line 3.
 3. Do you have a chloride value pretreatment (see above)? (Y/N) _____ If yes, go to line 4
If not, go to line 5.
 4. Is the Chloride level less than 5000 mg/l? (Y/N) _____ If yes, then enter a one (1) on line 7.
 5. Do you have a pretreatment value for DO? (See above) (Y/N) _____ If yes, go to line 6
If not, enter a three (3) in line 7.
 6. Is the DO level greater than 2.5 mg/l?(Y/N) _____ If yes, enter a two (2) on line 7. If not, enter a three (3) on line 7.
 7. _____ is the category of your pit. Use the Appropriate section.
 8. Comments on Pit condition: _____

Name of Principal Exec. Officer: _____
Title of Officer: _____
Date Completed: _____

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature of a Principal Exec. Officer or Authorized agent.

Category 1
Sampling Results
API No : _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	5	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl	5,000	_____	5,000	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**			Monitor	_____	mg/l
Oil and Grease			Monitor	_____	mg/l
Total Al***			Monitor	_____	mg/l
TSS			Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume			Monitor	_____	Gal
Flow			Monitor	_____	Gal/min
Disposal Area			Monitor	_____	Acres

*** Al is only reported if the pH is above 9.0

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SEP 28 2023

WV Department of
Environmental Protection

Category 2
Sampling Results
API No : _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	10	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**			Monitor	_____	mg/l
Oil and Grease			Monitor	_____	mg/l
Total Al***			Monitor	_____	mg/l
TSS			Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume			Monitor	_____	Gal
Flow			Monitor	_____	Gal/min
Disposal Area			Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____

** Include a description of your aeration technique.

Aeration Code: _____

*** Al is only reported if the pH is above 9.0

Category 3
Sampling Results
API No : _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	20	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____

** Include a description of your aeration technique.

Aeration Code: _____

*** Al is only reported if the pH is above 9.0.

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WV Department of
Environmental Protection

Category 4
Sampling Results
API No: _____

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	1	_____	N/A	N/A	Days
Fe	Monitor	_____	Monitor	_____	mg/l
D.O.	Monitor	_____	Monitor	_____	mg/l
Settleable Sol.	Monitor	_____	Monitor	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Activated Carbon (0.175)		_____	N/A	N/A	lb/B1
Date Site Reclaimed	N/A	N/A			10 days from dis.
Disposal Area		_____	Monitor	_____	Acres

* Can be 25,000 with inspector's approval,

(Inspector's signature): _____

Date: _____

Via Federal Express

September 27, 2023

State of West Virginia
Department of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

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Office of Oil and Gas
SEP 28 2023
WV Department of
Environmental Protection

RE: SWN Production Company, LLC
Operator ID: 494512924
Regulatory Filings: WR-34 & WR-35

To Whom It May Concern:

Please find enclosed forms WR-34 Discharge Monitoring Report and WR-35 Operator's Report of Well Work along with supporting documentation, for the well listed below:

API	Well Name
47-009-00331	State of WV DNR B 206H

If you have any questions or require additional information, please contact me via email at carol_pruitt@swn.com or telephone at (832) 796-3007.

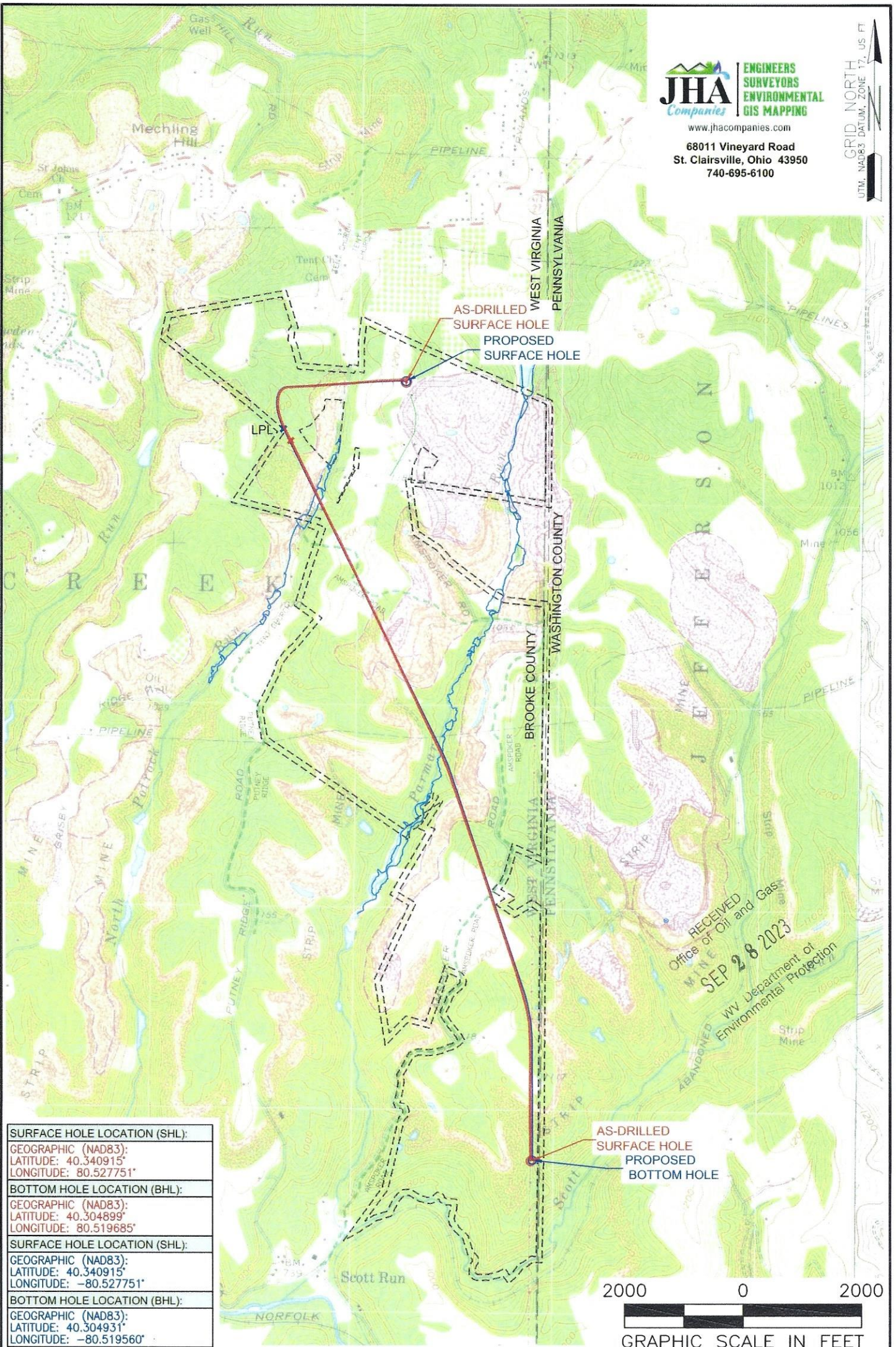
Sincerely,



Carol A. Pruitt
Sr. Regulatory Analyst
SW Appalachia Division

/cap
Encl.





SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.340915° LONGITUDE: -80.527751°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.304899° LONGITUDE: -80.519685°
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.340915° LONGITUDE: -80.527751°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.304931° LONGITUDE: -80.519560°

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
- LPL ✕ EXISTING LANDING POINT LOCATION
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- LPL ✕ 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: STATE OF WV DNR B BRK	WELL # 206H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY: BROOKE/OHIO	CODE: 9	DISTRICT: CROSS CREEK
SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR	USGS 7 1/2 QUADRANGLE MAP NAME: BETHANY, WV		
		API # 47-009-00331	