

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

API 47 - 051 - 02466 County MARSHALL District LIBERTY  
Quad CAMERON 7.5', WV Pad Name SONIA R-MSH-PAD1 Field/Pool Name VICTORY FIELD WET  
Farm name JOHN C. RICHARDS, et ux Well Number SONIA R MSH 5H  
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 4,404,246.053 Easting 536,951.308  
Landing Point of Curve Northing 4,404,445.103 Easting 537,305.206  
Bottom Hole Northing 4,407,596.931 Easting 535,319.046

Elevation (ft) 1,533.19' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

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

Date permit issued 8/2/2022 Date drilling commenced 4/20/2023 Date drilling ceased 5/1/2023  
Date completion activities began 7/1/2023 Date completion activities ceased 8/28/2023  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

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Freshwater depth(s) ft 339' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1,401' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 1,165' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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Reviewed by:  
  
**APPROVED**  
01/19/2024  
1/21/2024

API 47- 051 - 02466 Farm name JOHN C. RICHARDS, et ux Well number SONIA R MSH 5H

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	452'	NEW	J-55/54.5#		Y/43 BBLS
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25	9.625	2,890'	NEW	J-55/36#		Y/43 BBLS
Intermediate 2							
Intermediate 3							
Production	8.75	5.5	20,205'	NEW	H-110 HP/20#		N
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	569	15.60	1.19	677.11	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	598 / 532	15.60 / 16.00	1.18 / 1.12	705.64 / 595.84	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	3,509	15.00	1.29	4,526.61	4,950	24
Tubing							

Drillers TD (ft) 20,219' Loggers TD (ft) 20,219'  
 Deepest formation penetrated MARCELLUS Plug back to (ft) 20,108'  
 Plug back procedure N/A

Kick off depth (ft) 6,882' MD

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

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

SURFACE: 6 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 INTERMEDIATE: 44 CENTRALIZERS - EVERY THIRD JOINT OF CASING  
 PRODUCTION: 392 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

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**SONIA R MSH 5H  
ATTACHMENT 1  
PERF REPORT**

STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
1	7/1/2023	20,108	20,010	36
2	7/2/2023	19,976	19,799	36
3	7/2/2023	19,765	19,588	36
4	7/3/2023	19,555	19,377	36
5	7/3/2023	19,344	19,167	36
6	7/4/2023	19,134	18,956	36
7	7/4/2023	18,923	18,746	36
8	7/4/2023	18,713	18,535	36
9	7/5/2023	18,502	18,325	36
10	7/6/2023	18,292	18,114	36
11	7/6/2023	18,081	17,903	36
12	7/7/2023	17,870	17,693	36
13	7/7/2023	17,660	17,482	36
14	7/8/2023	17,449	17,272	36
15	7/8/2023	17,239	17,061	36
16	7/9/2023	17,028	16,851	36
17	7/9/2023	16,818	16,640	36
18	7/10/2023	16,607	16,430	36
19	7/10/2023	16,396	16,219	36
20	7/11/2023	16,186	16,008	36
21	7/11/2023	15,975	15,798	36
22	7/12/2023	15,765	15,587	36
23	7/12/2023	15,554	15,377	36
24	7/13/2023	15,344	15,166	36
25	7/14/2023	15,133	14,956	36
26	7/15/2023	14,923	14,745	36
27	7/15/2023	14,712	14,534	36
28	7/16/2023	14,501	14,324	36
29	7/16/2023	14,291	14,113	36
30	7/16/2023	14,080	13,903	36
31	7/17/2023	13,870	13,692	36
32	7/18/2023	13,659	13,482	36
33	7/18/2023	13,449	13,271	36
34	7/19/2023	13,238	13,061	36
35	7/19/2023	13,027	12,850	36
36	7/19/2023	12,817	12,639	36
37	7/20/2023	12,606	12,429	36
38	7/20/2023	12,396	12,218	36
39	7/21/2023	12,185	12,008	36
40	7/21/2023	11,975	11,797	36
41	7/22/2023	11,764	11,587	36
42	7/23/2023	11,554	11,376	36

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STAGE NUM	Perf Date	Perf Bottom MD	Perf Top MD2	# SHOTS PER STG
43	7/23/2023	11,343	11,166	36
44	7/24/2023	11,132	10,955	36
45	7/24/2023	10,922	10,744	36
46	7/24/2023	10,711	10,534	36
47	7/25/2023	10,501	10,323	36
48	7/26/2023	10,290	10,113	36
49	7/26/2023	10,080	9,902	36
50	7/27/2023	9,869	9,692	36
51	7/27/2023	9,658	9,481	36
52	7/28/2023	9,448	9,270	36
53	7/28/2023	9,237	9,060	36
54	7/29/2023	9,027	8,849	36
55	7/30/2023	8,816	8,639	36
56	7/30/2023	8,606	8,428	36
57	7/30/2023	8,395	8,218	36
58	7/31/2023	8,185	8,007	36

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SONIA R MSH 5H  
ATTACHMENT 2  
STIM REPORT

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/othe
1	7/1/2023	77.9	8,516	8,952	4,012	192,000	6,228	0
2	7/2/2023	78.2	7,598	6,002	5,860	315,000	11,015	0
3	7/2/2023	97.8	8,993	5,950	4,500	315,000	9,441	0
4	7/3/2023	85.4	8,122	5,950	8,383	315,000	9,462	0
5	7/4/2023	93.2	8,769	5,230	4,600	315,000	9,120	0
6	7/4/2023	81.8	8,761	7,462	4,625	315,000	8,264	0
7	7/4/2023	80.8	9,553	5,770	4,358	315,000	8,486	0
8	7/5/2023	83.3	8,572	7,062	4,412	315,000	7,769	0
9	7/5/2023	87.8	8,806	6,123	4,921	315,000	7,874	0
10	7/6/2023	92.5	8,736	6,787	4,378	315,000	7,688	0
11	7/6/2023	84	8,312	7,351	5,473	315,000	7,769	0
12	7/7/2023	93	8,807	7,049	4,452	315,000	7,850	0
13	7/7/2023	72.4	6,929	7,486	5,104	315,000	9,613	0
14	7/8/2023	97.3	8,929	7,622	4,412	315,000	8,682	0
15	7/8/2023	89	8,407	7,713	5,198	315,000	8,594	0
16	7/9/2023	87.6	8,439	8,025	4,432	315,000	8,654	0
17	7/10/2023	88	8,323	7,056	5,002	315,000	8,669	0
18	7/10/2023	83.6	7,881	7,309	5,379	315,000	8,650	0
19	7/11/2023	92.6	8,132	7,281	5,491	315,000	8,620	0
20	7/11/2023	89.1	8,106	7,508	5,321	315,000	8,603	0
21	7/12/2023	88.8	8,144	7,150	5,147	315,000	8,566	0
22	7/12/2023	87.9	7,933	7,260	5,392	315,000	8,765	0
23	7/13/2023	88.1	8,301	7,405	5,720	315,000	8,545	0
24	7/14/2023	79.6	7,515	7,576	5,128	315,000	7,764	0
25	7/15/2023	90.2	8,246	7,293	5,511	315,000	8,834	0
26	7/15/2023	89.4	8,293	7,166	5,846	315,000	7,791	0
27	7/15/2023	89	8,090	7,411	5,805	315,000	7,852	0
28	7/16/2023	89.3	8,054	7,252	5,327	315,000	7,676	0
29	7/16/2023	89.2	7,940	7,335	5,196	315,000	7,775	0
30	7/17/2023	84.4	7,627	7,612	5,543	315,000	7,930	0
31	7/18/2023	89.6	8,072	7,162	5,330	315,000	7,765	0
32	7/18/2023	91.3	8,167	7,537	5,276	315,000	8,551	0
33	7/19/2023	88.7	8,039	7,922	5,481	315,000	8,539	0
34	7/19/2023	92.1	7,901	7,014	4,857	315,000	8,356	0
35	7/19/2023	88.2	7,787	7,635	5,246	315,000	7,511	0
36	7/20/2023	88.7	7,595	7,360	5,700	315,000	8,029	0
37	7/20/2023	88.2	7,789	7,125	4,935	315,000	7,713	0
38	7/21/2023	90.8	7,785	6,871	4,896	315,000	8,121	0
39	7/21/2023	87.9	7,769	7,274	5,125	315,000	8,343	0
40	7/22/2023	90.6	7,730	5,852	5,400	315,000	8,278	0
41	7/22/2023	77.9	7,395	7,283	5,625	315,000	8,361	0
42	7/23/2023	83.5	7,707	7,135	4,652	315,000	8,100	0
43	7/23/2023	70.3	6,590	6,430	5,125	315,000	9,303	0
44	7/24/2023	89.4	7,348	7,432	5,500	315,000	8,411	0
45	7/24/2023	80.3	7,209	6,510	5,326	315,000	8,331	0
46	7/25/2023	89.4	7,657	6,440	4,585	315,000	8,284	0
47	7/25/2023	86.5	7,388	7,834	4,850	315,000	8,312	0
48	7/26/2023	90.4	7,128	6,434	5,300	315,000	8,211	0
49	7/26/2023	84.9	7,185	7,943	4,951	315,000	8,099	0
50	7/27/2023	85.7	7,394	7,214	5,125	315,000	8,762	0
51	7/28/2023	83.3	7,225	6,500	4,900	315,000	8,153	0
52	7/28/2023	89.5	7,207	6,753	5,500	315,000	7,990	0
53	7/29/2023	81.2	6,915	6,300	7,200	315,000	8,125	0

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SONIA R MSH 5H  
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	7/30/2023	80.1	6,754	7,267	4,956	315,000	8,401	0
55	7/30/2023	90.1	7,116	6,852	5,000	315,000	8,162	0
56	7/30/2023	85.7	6,877	7,276	5,212	315,000	8,069	0
57	7/31/2023	89.3	6,910	6,321	4,858	315,000	8,079	0
58	7/31/2023	87.1	6,937	7,297	5,124	315,000	8,006	0

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/1/2023
Job End Date:	7/31/2023
State:	West Virginia
County:	Marshall
API Number:	47-051-02466-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	SONIA R MSH 5
Latitude:	39.78736278
Longitude:	-80.56844696
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,401
Total Base Water Volume (gal):	20,219,388
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	89.92731	Density = 8.345
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	45.00000	0.29490	



			Water	7732-18-5	100.00000	0.29490	
			Water	7732-18-5	85.00000	0.29490	
Tolicide 4Frac	SWN Well Services	Biocide					
				Listed Below			
Sand	SWN Well Services	Proppant					
				Listed Below			
Plexslick V996	SWN Well Services	Friction Reducer					
				Listed Below			
FSTI-CI-02	SWN Well Services	Corrosion Inhibitor					
				Listed Below			
Ferriplex 80	SWN Well Services	Iron Control					
				Listed Below			
Plexaid 655NM	SWN Well Services	Scale Inhibitor					
				Listed Below			
HCL	SWN Well Services	Solvent					
				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	9.67168	
			Hydrochloric Acid	7647-01-0	15.00000	0.04447	

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			Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8	45.00000	0.00468	
			Sodium Erythorbate	6381-77-7	100.00000	0.00158	
			Quaternary ammonium compounds	68424-85-1	7.50000	0.00078	
			Ethanol	64-17-5	2.50000	0.00026	
			Ethylene glycol	107-21-1	40.00000	0.00018	
			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	
			benzyl chloridequaternized	72480-70-7	5.00000	0.00002	
			1-Decanol	112-30-1	5.00000	0.00002	
			Isopropyl alcohol	67-63-0	5.00000	0.00002	
			1-Octanol	111-87-5	5.00000	0.00002	
			Triethyl phosphate	78-40-0	5.00000	0.00002	
			2-Butoxyethanol	111-76-2	5.00000	0.00002	

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\* 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)



LATITUDE: 39°47'30"

SURFACE HOLE 7,523'

LATITUDE: 39°50'00"

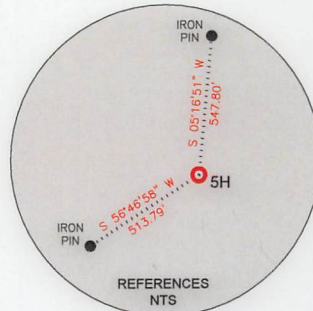
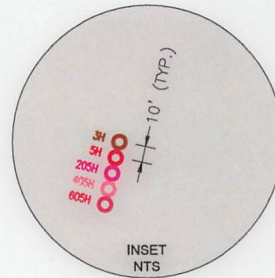
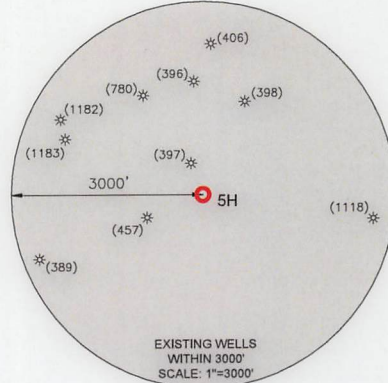
BOTTOM HOLE 1,122'



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

Table with 2 columns: Location Type (SHL, LPL, BHL) and UTM Coordinates (NORTHING, EASTING).

Table with 5 columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT. Contains two sections of well location data.



BOTTOM HOLE 5,723'  
SURFACE HOLE 1,567'  
LONGITUDE: 80°35'00"  
LONGITUDE: 80°32'30"

Table with 3 columns: TRACT, SURFACE OWNER (S) / ROYALTY OWNER (R), TAX PARCEL. Lists 12 tracts with owner names and parcel numbers.

WELL RESTRICTIONS

- 1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

NOTES ON SURVEY

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

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

Signature: Michael R. Hyman, Date: 06-21-2023



COMPANY: SWN Production Company, LLC

Form with fields for well location, accuracy (1/200), proven source (SURVEY GRADE GPS), elevation, operator's well # (5H), and API well # (47, 051, 02466).

Form with well type (Production), watershed (Upper Ohio-Wheeling), district (Liberty), county (Marshall), surface owner (John C. Richards), and target formation (Marcellus).

Form with well operator (SWN Production Company, LLC), designated agent (Brittany Woody), and address (1300 Fort Pierpont Drive, Suite 201, Morgantown, WV).

Table with 2 columns: LEGEND (Proposed Surface Hole, Existing Wellhead, LPL, Existing Water Well, Existing Spring, Surveyed Boundary, Drilling Unit, Lease Boundary, Asdrilled Path, Proposed Path, DHP Buffer) and REVISIONS (Date: 06/21/2023, File No., Drawn By: TMF, Scale: 1" = 2000', Drawing No: ACE-2257, Well Location Plat: 1).





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

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	KIRKENDALL SAMUEL D & CHRISTINE	7-12-8
B	MCCOMBS DOUGLAS R & REBECCA J	7-11-19
C	MACKEY ROY A ET AL	7-11-14
D	BAKER MARK ALLEN	7-11-15.2
E	MCCURDY TIMOTHY S	7-11-12
F	CUMPSTON KEITH D & SANDRA S	7-6-20
G	REID BARBARA J & SANDRA CUMPSTON	7-6-19
H	MARSHALL COUNTY COAL COMPANY	7-06-18.1
I	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-6-18
J	DOBBS ERIC SCOTT	7-6-16
K	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-2-32
L	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-2-31
M	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	7-2-29
N	MARSHALL COUNTY COAL RESOURCES INC	7-2-29.1
O	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	7-2-29.2
P	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	7-2-22
Q	STERN MICHAEL B & AMY L	7-2-25
R	BRYAN MICHAEL R II & MELISSA A	7-2-26
S	STERN MICHAEL B & AMY L	7-2-27.3
T	STERN MICHAEL B & AMY L	7-2-27.4
U	BONGIORNO DAVID CURTIS	7-2-27
V	CNX LAND LLC	7-2-27.2
W	FRYE MARK H	3-18-27
X	STERN MICHAEL B & AMY L	3-17-20
Y	SCOTT GABRIEL O & BETHANY D	3-17-20.1
Z	CHAMBERS FRANCIS ET AL	3-17-21
A1	DOTY RICK A & CATHY	3-17-22
B2	DOTY RICK A & CATHY	3-17-22.1
C3	MARSHALL COUNTY COAL RESOURCES INC	3-17-23
D4	CLARK CHRISTOPHER SCOTT	3-17-24
E5	CLARK CHRISTOPHER SCOTT	3-17-25
F6	DOBBS DON BURDELL ET UX	3-17-32
G7	DUFFORD WILLIAM E ET UX	3-17-33
H8	DOBBS DONALD B ET UX	7-3-7
I9	CHAPLIN MANDI K & KEVIN	7-3-1.2
J10	CLARK LARRY L & WENDY S	7-3-6.1
K11	ROUPE SHARON D	7-3-1.1
L12	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-3-6.2
M13	CLARK LARRY L & WENDY S	7-3-6
N14	SCHOENE MICHAEL	7-3-3.1

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
O15	EAKIN RICHARD T & KIMBERLY A STEWART	7-3-4
P16	SHEPHERD WILLIAM H & JERRY L - TOD	7-3-11
Q17	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-6-23.1
R18	NEELY ROBERT S ET UX	7-3-12
S19	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-6-24
T20	PETTIT JEFFERY M	7-6-25
U21	O'NEIL DENNIS G ET UX	7-6-26
V22	MATHEWS D A ESTATE	7-6-27
W23	BIG RUN CHRISTIAN CHURCH TR	7-5-6
X24	PETTIT THOMAS R ET UX	7-5-6.1
Y25	PETTIT THOMAS R & LILA	7-5-6.3
Z26	CHAMBERS JOHN W	7-12-3
A27	MIDCAP LESLIE J & VIRGINIA M	7-12-2.1
B28	CHAMBERS LAWRENCE D & JOHN W	7-12-2
C29	MIDCAP LESLIE ET UX	7-12-4
D30	ROHM GREG R	7-12-4.3
E31	ROHM GREG R	7-12-4.1
F32	FOX MARGARET O - TOD	7-12-1.4
G33	DARMAFALL JOSEPH W III & CHELSIE J	7-12-1.6
H34	DARMAFALL JOSEPH W III & CHELSIE J	7-12-1.5
I35	DARMAFALL JOSEPH W III & CHELSIE J	7-12-1.3
J36	LOGSDON TERRY & DONNA	7-12-1.1
K37	YEATER JARED P & TERESA	7-12-6
L38	CUMPSTON SANDRA & KEITH IRREVOCABLE TRUST	7-12-1.1
M39	CUMPSTON SANDRA & KEITH IRREVOCABLE TRUST	7-12-5
N40	EARNEST LLOYD & DONNA FAMILY TRUST	7-12-10.2
O41	TEDROW ROBERT A & ROSE M	7-12-7.1
P42	SCHERRICK KEITH A ET UX	7-12-7.2
Q43	EARNEST LLOYD & DONNA FAMILY TRUST	7-12-10
R44	REID JAMES LAWRENCE ET UX	7-12-1.2

01/19/2024

REVISIONS:	COMPANY:		
	OPERATOR'S	SONIA R MSH	API:
	WELL #:	5H	47-051-02466
	DISTRICT:	COUNTY:	STATE:
	LIBERTY	MARSHALL	WV
			DATE: 06/21/2023
			DRAWN BY: TMF
			SCALE: N/A
			DRAWING NO: ACE-2257
			WELL LOCATION PLAT 3





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



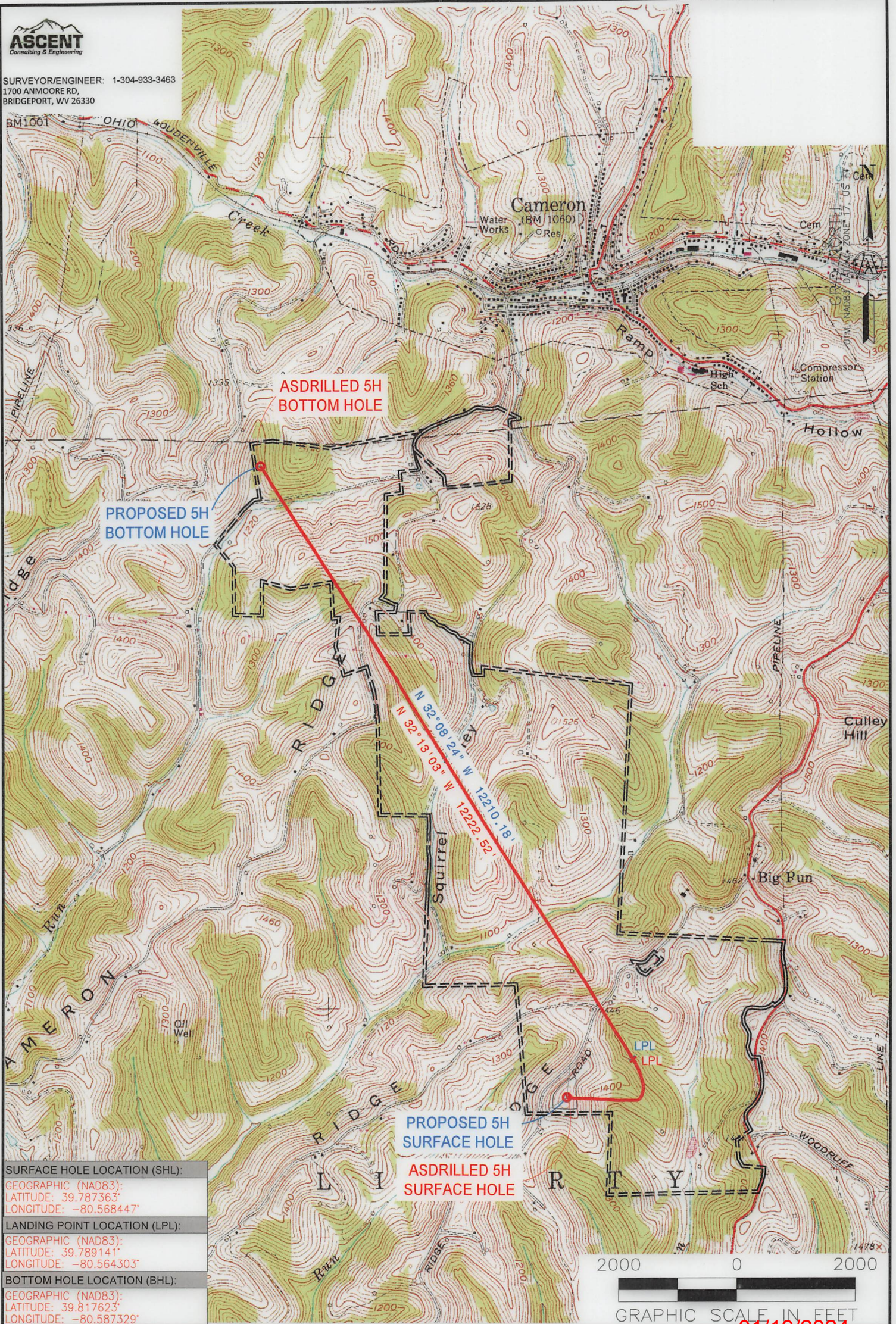
01/19/2024

REVISIONS:	COMPANY:			
	OPERATOR'S			
	WELL #:		API:	DATE: 06/21/2023
	DISTRICT:		47-051-02466	DRAWN BY: TMF
	LIBERTY	COUNTY:	STATE:	SCALE: 1"=2000'
		MARSHALL	WV	DRAWING NO: ACE-2257
				WELL LOCATION PLAT 2

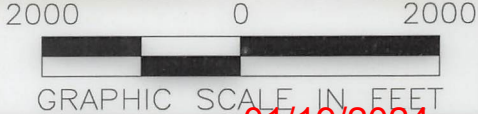




SURVEYOR/ENGINEER: 1-304-933-3463  
 1700 ANMOORE RD,  
 BRIDGEPORT, WV 26330



<b>SURFACE HOLE LOCATION (SHL):</b>
GEOGRAPHIC (NAD83): LATITUDE: 39.787363° LONGITUDE: -80.568447°
<b>LANDING POINT LOCATION (LPL):</b>
GEOGRAPHIC (NAD83): LATITUDE: 39.789141° LONGITUDE: -80.564303°
<b>BOTTOM HOLE LOCATION (BHL):</b>
GEOGRAPHIC (NAD83): LATITUDE: 39.817623° LONGITUDE: -80.587329°



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

<b>LEGEND:</b>	01/19/2024
● PROPOSED SURFACE HOLE / BOTTOM HOLE	— SURVEYED BOUNDARY
☼ EXISTING / PRODUCING WELLHEAD	— DRILLING UNIT
LPL* LANDING POINT LOCATION	— LEASE BOUNDARY
⊕ EXISTING WATER WELL	— ASDRILLED PATH
⊙ EXISTING SPRING	— PROPOSED PATH
	— DHP BUFFER
	400' 1,500' 3,000'

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: <b>SONIA R MSH</b>	WELL # <b>5H</b>	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201	COUNTY - CODE MARSHALL - 25	DISTRICT; LIBERTY	
SURFACE OWNER: JOHN C. RICHARDS, et ux	USGS 7 1/2 QUADRANGLE MAP NAME WHEELING, WV	API: 47-051-02466	