

02/24/2023



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Friday, February 24, 2023
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit Modification Approval for SONIA R 5H
47-051-02466-00-00

Extended Lateral Length

SWN PRODUCTION COMPANY, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: SONIA R 5H
Farm Name: JOHN C RICHARDS, ET UX
U.S. WELL NUMBER: 47-051-02466-00-00
Horizontal 6A New Drill
Date Modification Issued: 2/24/2023

Promoting a healthy environment.

4705102466

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: SWN Production Co., LLC 494512924 051-Marshall 7-Liberty 278-Cameron
Operator ID County District Quadrangle

2) Operator's Well Number: Sonia R MSH 5H Well Pad Name: Sonia R MSH

3) Farm Name/Surface Owner: John C. Richards ET UX Public Road Access: Reid Ridge Road

4) Elevation, current ground: 1531' Elevation, proposed post-construction: 1533'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Up-Dip Well to the North, , Target Top TVD- 7410', Target Base TVD- 7455', Anticipated Thickness-45', Associated Pressure- 4845'

8) Proposed Total Vertical Depth: 7437'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 20226'

11) Proposed Horizontal Leg Length: 12210.18'

12) Approximate Fresh Water Strata Depths: 337'

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Office of Oil and Gas

13) Method to Determine Fresh Water Depths: Nearby Stream Bottom

JAN 12 2023

14) Approximate Saltwater Depths: 1399' Salinity Profile

WV Department of
Environmental Protection

15) Approximate Coal Seam Depths: 1197'

16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: Marshall county Coal Mine

Depth: 1197'

Seam: Pittsburgh

Owner: Marshall County Coal Resources/American Consolidated Natural Resources

Strader Gowen
12/22/2022

4705102466

18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	126'	126'	CTS
Fresh Water	13 3/8"	New	J-55	54.5#	407'	407'	495 sx/CTS
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J-55	36#	0'	2600'	1586 sx/CTS
Intermediate	9 5/8"	New	J/K-55	40#	2600'	2995'	
Production	5 1/2"	New	P-110 HP	20#	20226'	20226'	Tab 3799s/ 100' Inside Intermediate

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.380	2730	633	Class A	1.20/30% Excess
Coal	See	Interm	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/5% Excess
Tubing							
Liners							

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Office of Oil and Gas

PACKERS

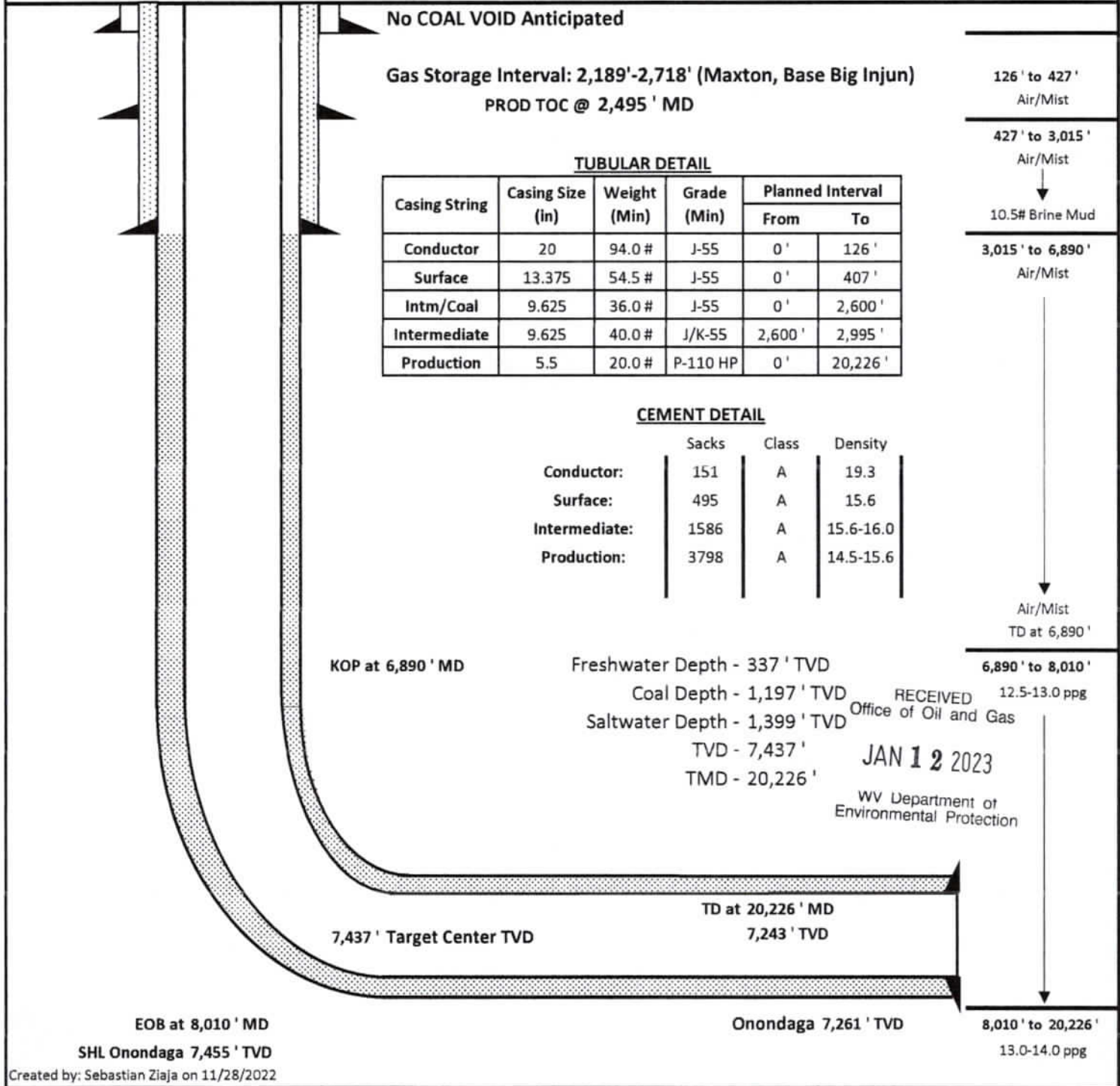
JAN 12 2023

Kind:				WV Department of Environmental Protection
Sizes:				
Depths Set:				

Sandra Govea

12/22/2022

Southwestern Energy Company			Proposed Drilling Program		
Well:	SONIA R MSH 5		Re-entry Rig:	SDC 41	
Field:	VICTORY FIELD WET		Prospect:	Marcellus Shale	
County:	MARSHALL		State:	WV	
SHL:	39.7874 Latitude	-80.5684 Longitude			
BHL:	39.8176 Latitude	-80.5873 Longitude			
KB Elev:	1,557 ft MSL	KB: 26 ft AGL	GL Elev:	1,531 ft MSL	



Created by: Sebastian Ziaja on 11/28/2022

Strader Governor
12/22/2022

July 12, 2022

Mr. Charles Brewer
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Proposed New Well: Sonia R MSH 5H

Dear Mr. Brewer:

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on Sonia R's property, in Liberty District, Marshall County, West Virginia.

If you have any questions or desire additional information, please me at 304-884-1613.

Thank you.

Sincerely,



Brittany Woody
Senior Regulatory Analyst
Southwestern Energy Production Company, LLC

RECEIVED
Office of Oil and Gas
JAN 12 2023
WV Department of
Environmental Protection



LATITUDE: 39°47'30"

SURFACE HOLE 7,523'



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 68°15'38" W	794.29'	SHL TO MONUMENT	STONE MONUMENT
L2	N 45°15'14" E	1146.49'	SHL TO MONUMENT	STONE MONUMENT
L3	N 59°58'32" E	1,330.76'	SHL TO LPL	SHL TO LPL

LATITUDE: 39°50'00"

BOTTOM HOLE 1,109'

SURVEYOR/ENGINEER: 1-304-933-3483
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

SURFACE HOLE LOCATION (SHL):

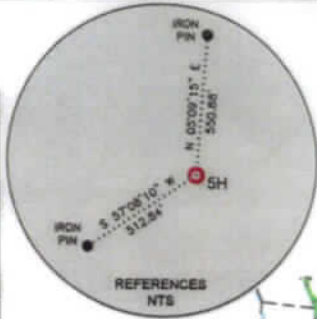
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,404,245.087
EASTING: 536,951.592

LANDING POINT (LPL):

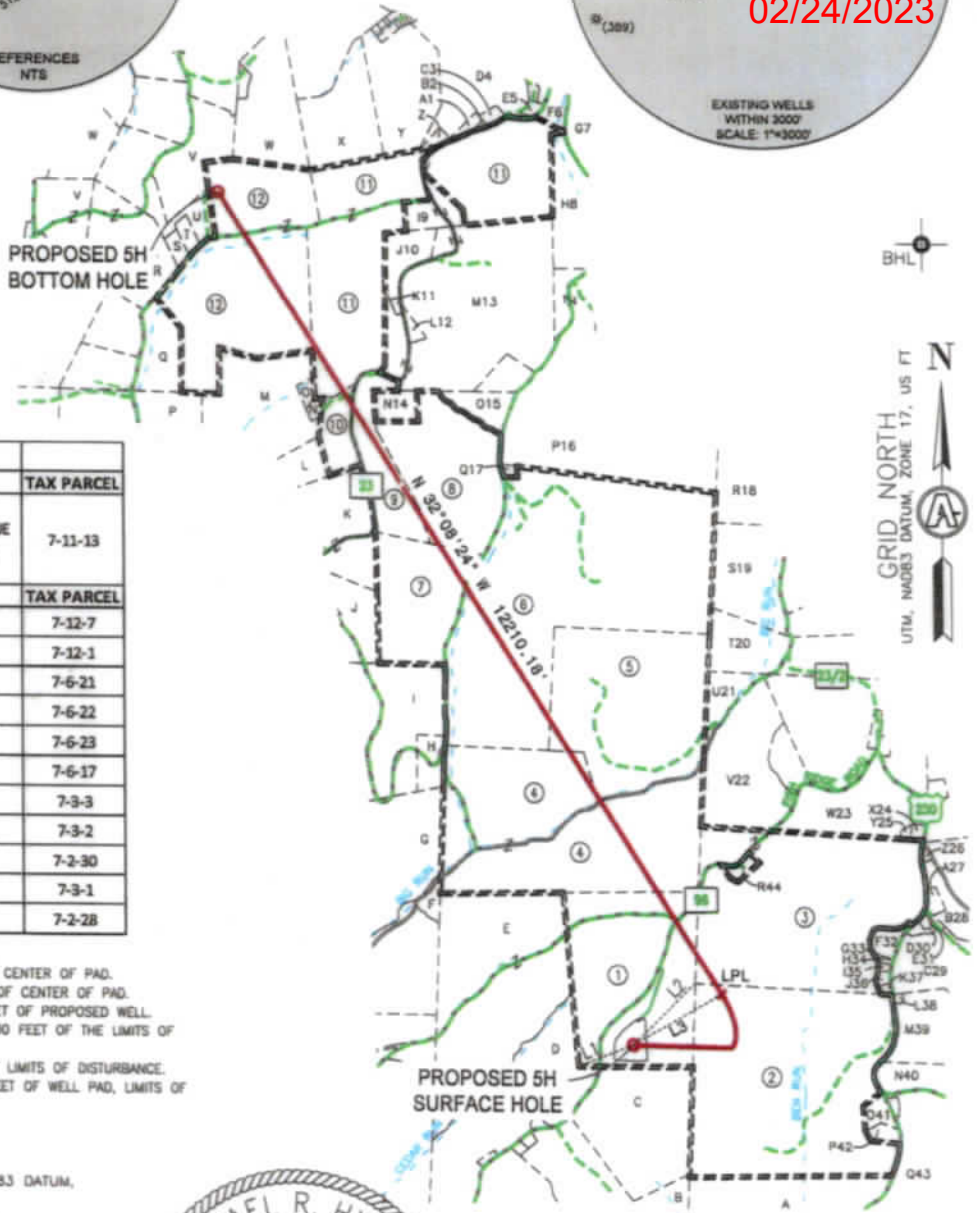
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,404,448.045
EASTING: 537,302.780

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,407,599.369
EASTING: 535,322.886



02/24/2023



BOTTOM HOLE 5,714'
SURFACE HOLE 1,571'
LONGITUDE: 80°35'00"
LONGITUDE: 80°32'30"

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	JOHN C. RICHARDS, et ux (S) / AMP IV, LP; CYNTHIA SUE DAVIS; FRANK D. ROBINSON; JENNIE ROBINSON (R)	7-11-13
2	O'NEIL GARRETT D & AMY L	7-12-7
3	REID JAMES L & SHERRY L	7-12-1
4	STEWART KIMBERLY A	7-6-21
5	O'NEIL DENNIS G ET UX	7-6-22
6	SCHWERTFEGER TODD J & JENNIFER ET AL	7-6-23
7	ROBIN E RICHARDSON F/K/A ROBIN E MURFIN	7-6-17
8	SCHOENE MICHAEL	7-3-3
9	STERN GARY ET UX	7-3-2
10	STERN GARY ET UX	7-2-30
11	STERN MICHAEL B & AMY L	7-3-1
12	STERN MICHAEL B & AMY L	7-2-28

WELL RESTRICTIONS

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

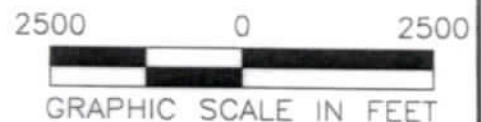
NOTES ON SURVEY

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

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

P.S. 983

Michael R. Hyman



COMPANY: **SWN** Production Company, LLC

STATE OF WEST VIRGINIA
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)

SONIA R MSH
OPERATOR'S WELL #: 5H
API WELL #: 47 STATE 51 COUNTY 02466 PERMIT

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

WATERSHED: UPPER OHIO-WHEELING ELEVATION: 1531.0'

DISTRICT: LIBERTY COUNTY: MARSHALL QUADRANGLE: CAMERON 7.5', WV

SURFACE OWNER: JOHN C. RICHARDS, et ux ACREAGE: ±83.00

OIL & GAS ROYALTY OWNER: AMP IV, LP; CYNTHIA SUE DAVIS; FRANK D. ROBINSON; JENNIE ROBINSON ACREAGE: ±83.00

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) xxxxxxxx

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,437 TVD 20,226 TMD

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

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:		REVISIONS:	
	PROPOSED SURFACE HOLE / BOTTOM HOLE		SURVEYED BOUNDARY
	EXISTING / PRODUCING WELLHEAD		DRILLING UNIT
	EXISTING WATER WELL		LEASE BOUNDARY
	EXISTING SPRING		PROPOSED PATH



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

02/24/2023

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	MACKAY 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

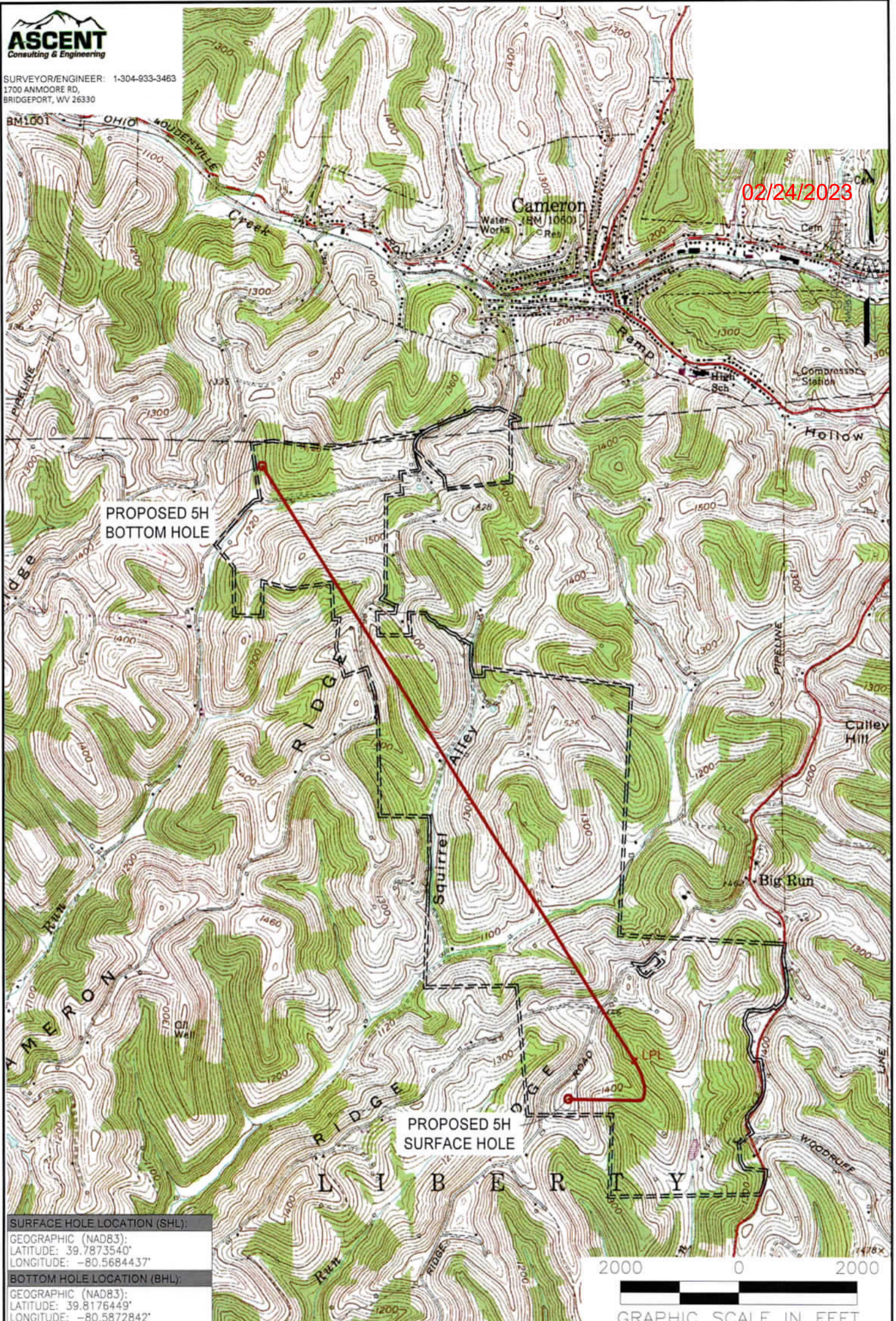
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
O15	EAKIN RICHARD T & KIMBERLY A STEWART	7-3-4
P16	SHEPHERD WILLIAM H & JERRY L - TOD	7-3-11
Q17	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-6-23.1
R18	NEELY ROBERT S ET UX	7-3-12
S19	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY 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

REVISIONS:	COMPANY:		
	OPERATOR'S		DATE: 12/05/2020
	WELL #: 47-051-02466 5H		DRAWN BY: TMF
	DISTRICT:	COUNTY:	SCALE: N/A
	LIBERTY	MARSHALL	DRAWING NO: ACE-2257
		STATE:	WELL LOCATION PLAT
		WV	



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

02/24/2023



SURFACE HOLE LOCATION (SHL):
 GEOGRAPHIC (NAD83):
 LATITUDE: 39.7873540°
 LONGITUDE: -80.5684437°

BOTTOM HOLE LOCATION (BHL):
 GEOGRAPHIC (NAD83):
 LATITUDE: 39.8176449°
 LONGITUDE: -80.5872842°

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:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ☼ EXISTING / PRODUCING WELLHEAD
- ACCESS ROAD
- - - PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- - - LEASE BOUNDARY
- PROPOSED PATH
- FLOOD PLAIN

WELL OPERATOR:
 SWN PRODUCTION COMPANY, LLC

ADDRESS:
 1300 FORT PIERPONT DRIVE, SUITE 201

SURFACE OWNER:
 JOHN C. RICHARDS, et ux

WELL (FARM) NAME:
 SONIA R MSH

WELL # 5H **SERIAL #** XXXX

COUNTY - CODE
 MARSHALL - 25

DISTRICT; LIBERTY

USGS 7 1/2 QUADRANGLE MAP NAME
 WHEELING, WV

WW-6A1
(5/13)

Operator's Well No. Sonia R MSH 5H

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Exhibit "A"				

*Co-tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority Protection Act.

*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.


Well Operator: SWN Production Company, LLC
 By: 
 Its: Senior Landman

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Company, L.L.C, as Operator
 Sonia R MSH 5H
 Marshall County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
1	7-11-13	Evanna Clouston Bennington, widow; Sarah E. Carson, widow; Clarence H. Wise and Bertha Wise, husband and wife; and Robert Williams, single The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C.	The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC SWN Production Company, LLC	12.50%	326/468 422/204 642/281 662/322 675/279 33/110 33/424 36/422	0.0000%
2	7-12-7	Alfred Turner and Mary Turner, his wife The Wheeling Natural Gas Company The Manufacturers Light and Heat Company Union Gasoline & Oil Corporation The Preston Oil Company The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C.	Wheeling Natural Gas Company The Manufacturers Light and Heat Company Union Gasoline & Oil Corporation The Preston Oil Company The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC SWN Production Company, LLC	12.50%	130/327 148/389 197/120 2/136 2/225 422/204 642/281 650/63 662/322 675/321 33/110 33/424 36/422	0.0000%
3	7-12-1	James L. Reid and Sherry L. Reid, husband and wife Sandra S. Cumpston and Keith D. Cumpston, wife and husband Kevin D. Courtright, a single man Bounty Minerals, LLC	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC	17.00% 17.00% 15.00% 20.00%	1118/479 1118/486 1120/531 1114/456	0.0000%

4705102466

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Company, L.L.C, as Operator
 Sonia R MSH 5H
 Marshall County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
3		Jean Paul Jules Gaston Marie Auffray a/k/a Jean Paul Auffray, a widower	SWN Production Company, LLC	15.00%	1128/275	
		Stone Hill Mineral Holdings, LLC TH Exploration, LLC	TH Exploration, LLC SWN Production Company, LLC and Equinor USA Onshore Properties, Inc.	20.00%	974/309 49/615	
		Bounty Minerals, LLC	SWN Production Company, LLC	20.00%	1114/456	
		Mick Reid, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	1138/209	
		Barbara J. Reid	SWN Production Company, LLC (Affidavit of Statutory Compliance Cotenancy Modernization and Majority Protection Act)	20.00%	1139/156	
		Gerald Eugene Courtright, II	SWN Production Company, LLC (Affidavit of Statutory Compliance Cotenancy Modernization and Majority Protection Act)	20.00%	1139/156	
		Martin Ulrich	SWN Production Company, LLC (Affidavit of Statutory Compliance Cotenancy Modernization and Majority Protection Act)	20.00%	1139/156	
4	7-6-21	Omar Wilson Bonar and Vera B. Bonar, husband and wife, and Rhe Fern Bonar The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc.	The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC	12.50%	417/8 422/204 642/281 662/322 675/279 33/110 33/424	0.0000%
5	7-6-22	Merns Howard and Lucinda Howard The Wheeling Natural Gas Company The Manufacturers Light and Heat Company Union Gasoline & Oil Corporation	The Wheeling Natural Gas Company The Manufacturers Light and Heat Company Union Gasoline & Oil Corporation The Preston Oil Company	12.50%	117/120 148/389 197/120 2/136	0.0000%

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EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Form, WW-6A1, by SWN Production Company, L.L.C, as Operator
 Sonia R MSH 5H
 Marshall County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
		The Preston Oil Company	The Manufacturers Light and Heat Company		2/225	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties, Inc.		675/279	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
6	7-6-23	Thomas Howard and Elizabeth Howard	M. C. Egbert	12.50%	67/63	0.0000%
		M. C. Egbert, individually, and M. C. Egbert, T. L. Davis, and J. E. Davis, partners d/b/a M. C. Egbert & Company	The Wheeling Natural Gas Company		150/43	
		The Wheeling Natural Gas Company	M. C. Egbert, individually, and M. C. Egbert, T. L. Davis, and J. E. Davis, partners d/b/a M. C. Egbert & Company		77/40	
		The Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		148/389	
		The Manufacturers Light and Heat Company	Union Gasoline and Oil Corporation		197/120	
		Union Gasoline and Oil Corporation	The Preston Oil Company		2/136	
		The Preston Oil Company	The Manufacturers Light and Heat Company		2/225	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties, Inc.		675/279	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	

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 Sonia R MSH SH
 Marshall County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
		Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC SWN Production Company, LLC		33/424 36/422	
7	7-6-17	H. H. Pipes and Berta Pipes, his wife The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C.	The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC SWN Production Company, LLC	12.50%	198/341 422/204 642/281 662/322 675/279 33/110 33/424 36/422	0.0000%
8	7-3-3	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC SWN Production Company, LLC	12.50%	642/281 662/322 675/279 33/110 33/424 36/422	0.0000%
9	7-3-2	Berta D. Pipes, widow; Catherine A. Rush, widow The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C.	The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC	12.50%	326/572 422/204 642/281 662/322 675/279 33/110	0.0000%

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 Sonia R MSH 5H
 Marshall County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
		Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC SWN Production Company, LLC		33/424 36/422	
9	7-3-2	Catherine A. Rush, widow The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties, Inc. Chesapeake Appalachia, L.L.C.	The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties, Inc. SWN Production Company, LLC SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC SWN Production Company, LLC	12.50%	326/535 422/204 642/281 662/322 675/279 33/110 33/424 36/422	0.0000%
10	7-2-30	Audra Mary Minette, a married woman dealing in her sole and separate property Bethanie Booher, a single woman Black Gold Group Limited Carol Kee, a single woman David L. Booher, a married man dealing in his sole and separate property Jennifer Booher, a single woman Marcia H. Clark, a married woman dealing in her sole and separate property Muriel E. Parker, a widow Patricia Aileen George, a single woman Patricia Sue McAlister, a married woman dealing in her sole and separate property Potomac Mineral Group LLC American Petroleum Partners Operating LLC TH Exploration, LLC	SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC American Petroleum Partners Operating LLC TH Exploration, LLC SWN Production Company, LLC, and Equinor USA Onshore Properties Inc.	17.00% 17.00% 17.00% 17.00% 17.00% 18.00% 17.00% 17.00% 17.00% 17.00% 18.00%	1136/403 1136/96 1130/396 1136/102 1136/397 1138/705 1136/84 1136/59 1136/72 1136/66 921/11 43/503 50/329	0.0000%

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EXHIBIT "A"

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 Sonia R MSH 5H
 Marshall County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
		Potomac Mineral Group LLC	SWN Production Company, LLC	18.00%	1138/192	
		Robert L. Ogden, a single man	SWN Production Company, LLC	17.00%	1136/90	
		Sam W. Booher, III & Laurette J. Booher, a/k/a Laurie J. Booher, husband and wife	SWN Production Company, LLC	17.00%	1137/230	
		United Bank, a Virginia Corporation	SWN Production Company, LLC	15.00%	1127/376	
		Virginia Lee Ogden Davies, a married woman dealing in her sole and separate property	SWN Production Company, LLC	17.00%	1136/78	
10	7-2-30	Audra Mary Minette, a married woman dealing in her sole and separate property	SWN Production Company, LLC	17.00%	1136/403	0.0000%
		Bethanie Booher, a single woman	SWN Production Company, LLC	17.00%	1136/96	
		Black Gold Group Limited	SWN Production Company, LLC	17.00%	1130/396	
		Carol Kee, a single woman	SWN Production Company, LLC	17.00%	1136/102	
		David L. Booher, a married man dealing in his sole and separate property	SWN Production Company, LLC	17.00%	1136/397	
		Jennifer Booher, a single woman	SWN Production Company, LLC	18.00%	1138/705	
		Marcia H. Clark, a married woman dealing in her sole and separate property	SWN Production Company, LLC	17.00%	1136/84	
		Muriel E. Parker, a widow	SWN Production Company, LLC	17.00%	1136/59	
		Patricia Aileen George, a single woman	SWN Production Company, LLC	17.00%	1136/72	
		Patricia Sue McAlister, a married woman dealing in her sole and separate property	SWN Production Company, LLC	17.00%	1136/66	
		Potomac Mineral Group LLC	American Petroleum Partners Operating LLC	18.00%	921/11	
		American Petroleum Partners Operating LLC	TH Exploration, LLC		43/503	
		TH Exploration, LLC	SWN Production Company, LLC, and Equinor USA Onshore Properties Inc.		50/329	
		Potomac Mineral Group LLC	SWN Production Company, LLC	18.00%	1138/192	
		Robert L. Ogden, a single man	SWN Production Company, LLC	17.00%	1136/90	
		Sam W. Booher, III & Laurette J. Booher, a/k/a Laurie J. Booher, husband and wife	SWN Production Company, LLC	17.00%	1137/230	
		Virginia Lee Ogden Davies, a married woman dealing in her sole and separate property	SWN Production Company, LLC	17.00%	1136/78	
11	7-3-1	Joseph R. Jones and Sarah E. Jones, his wife	The Wheeling Natural Gas Company	12.50%	129/199	0.0000%

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 Sonia R MSH 5H
 Marshall County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
		The Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		148/389	
		The Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		3/40	
		The Manufacturers Light and Heat Company	Union Gasoline and Oil Corporation		197/120	
		Union Gasoline and Oil Corporation	The Preston Oil Company		2/136	
		The Preston Oil Company	The Manufacturers Light and Heat Company		2/225	
		The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204	
		Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281	
		Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		662/322	
		Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties, Inc.		675/279	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
12	7-2-28	Royalty Owner (subject to unitization filing dated December 16, 2022)	n/a	n/a	n/a	50.8563%
		Bonnie Sue Blackwell and William Kenneth Blackwell, wife and husband	Chesapeake Appalachia, L.L.C.	17.000%	745/212	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		27/50	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Edward Earl Minier, single	Chesapeake Appalachia, L.L.C.	17.000%	745/206	

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 Sonia R MSH 5H
 Marshall County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
11		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		27/50	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Betty Hamric, widow	Chesapeake Appalachia, L.L.C.	17.000%	755/139	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		29/325	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Brian S. Key, a/k/a Brian Key, a/k/a Brian Stephen Key and Katherine Key, his wife	Chesapeake Appalachia, L.L.C.	17.000%	761/408	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		31/246	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Carl W. Schramm and Cheryl L. Schramm, husband and wife	Chesapeake Appalachia, L.L.C.	17.000%	747/382	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		27/50	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Charles E. Wayt and Wendy Wayt, husband and wife	SWN Production Company, LLC	16.000%	944/283 953/390	
		Charles T. Schramm a/k/a Charles Thomas Schramm and Donna D. Schramm, his wife	Chesapeake Appalachia, L.L.C.	17.000%	747/376	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		27/50	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	

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 Sonia R MSH 5H
 Marshall County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
12		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Carol A. Winters, a widow	Chesapeake Appalachia, L.L.C.	17.000%	755/348	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		31/125	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		John Schramm, a single man	Chesapeake Appalachia, L.L.C.	17.000%	747/352	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		27/50	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		James M. Redd and Shirley J. Redd, husband and wife	SWN Production Company, LLC	18.000%	1127/377	
		Mary A. Redd, a widow	Chesapeake Appalachia, L.L.C.	17.000%	756/578	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		29/325	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Kenneth W. Winters and Shannon Winters, his wife	Chesapeake Appalachia, L.L.C.	17.000%	766/305	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		31/279	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	

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 Marshall County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
12		Robert R. Winters and Marjorie Winters, husband and wife	Chesapeake Appalachia, L.L.C.	17.000%	755/313	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		31/125	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Mary Francis and Roger W. Francis, her husband	Chesapeake Appalachia, L.L.C.	17.000%	751/462	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		27/50	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Paul E. Winters, married	Chesapeake Appalachia, L.L.C.	17.000%	755/133	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties, Inc.		29/325	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN Production Company, LLC		33/424	
		Roger W. Wayt and Wila J. Wayt, husband and wife	SWN Production Company, LLC	18.000%	933/15	
		Tonya L. Davis, a single woman	SWN Production Company, LLC	18.000%	1128/258	
		Susan L. Butler, a single woman	SWN Production Company, LLC	18.000%	1128/364	
		Adam Nickolich, a single man	SWN Production Company, LLC	17.000%	1129/526	

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 Sonia R MSH 5H
 Marshall County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	SK/PG	Interest Not Leased by SWN Production Company, LLC
12		Patricia Ann Troyan	SWN Production Company, LLC	17.000%	1129/559	
		Rebecca Ann McCann Albert	SWN Production Company, LLC	15.000%	1132/388	
		Christopher L. Winters, a married man dealing in his sole and separate property	SWN Production Company, LLC	15.000%	1133/113	
		Marla (Maura) Maust	SWN Production Company, LLC	17.000%	1136/39	
		Richard A. McIntire	SWN Production Company, LLC	15.000%	1136/34	
		Bruce K. Winters, a married man dealing in his sole and separate property	SWN Production Company, LLC	17.000%	1138/711	
		H3 LLC, a West Virginia limited liability company	SWN Production Company, LLC	18.000%	1136/392	

4705102466

January 4, 2023

Taylor Brewer
WV DEP Office of Oil & Gas
601 57th St., SE
Charleston, WV 25304

RE: SWN's proposed New Well: Sonia R MSH 5H in Marshall County, West Virginia, Drilling under Reid Ridge Road, Fish Ridge Road, Squirrel Alley, Cameron Ridge Road, Maggoty Run, and Grapevine Ridge Road.

Dear Mr. Brewer:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Reid Ridge Road, Fish Ridge Road, Squirrel Alley, Cameron Ridge Road, Maggoty Run, and Grapevine Ridge Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,



Bradley Wilson
Senior Landman
SWN Production Company, LLC

RECEIVED
Office of Oil and Gas

JAN 12 2023

WV Department of
Environmental Protection

