

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

Monday, November 18, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re:

Permit approval for Sonia R MSH 410H 47-051-02524-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450

Operator's Well Number: Sonia R MSH 410H

Farm Name: John C Richards, et ux

U.S. WELL NUMBER: 47-051-02524-00-00

Horizontal 6A New Drill

Date Issued: 11/18/2024

API Number: 4705102524

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15)

API NO. 47-051	
OPERATOR WELL	NO. Sonia R MSH 410H
Well Pad Name:	Sonia R MSH

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

			/		
1) Well Operator: SWN Produc	ction Co., LLC	494512924	051-Marshal 7-	Liberty 278-Cameron	
		Operator ID	County D	istrict Quadrangle	
2) Operator's Well Number: Son	ia R MSH 410h	H Well Pad	Name: Sonia R	MSH	
3) Farm Name/Surface Owner:	ohn C. Richards E	ET UX Public Road	d Access: Reid R	idge Road	
4) Elevation, current ground: 1	533' / El	evation, proposed 1	post-construction:	1533'	
5) Well Type (a) Gas x	Oil		erground Storage		
Other					
(b)If Gas Shall	ow X	Deep			HAW DOLL
Horiz	zontal X	Wanter 1992			
6) Existing Pad: Yes or No Yes					
 Proposed Target Formation(s), Target Formation- Marcellus, Down-Dip well to 	Depth(s), Antic	ipated Thickness ar	nd Expected Press	ure(s):	
	/		- Told (Table)		
8) Proposed Total Vertical Depth:					
9) Formation at Total Vertical De	pth: Marcellus			RECEIVED	
10) Proposed Total Measured Dep	oth: 13504'			Office of the and Gas	
11) Proposed Horizontal Leg Len	gth: 5348.07'	/		OCT 18 2024	
12) Approximate Fresh Water Str	ata Depths:	339'		WV Department of Environmental Protection	
13) Method to Determine Fresh W	Vater Depths:	learby Stream Bo	ottom 47-051-	01118, 47-051-02466	
14) Approximate Saltwater Depth	s: 1401' Salinit	y Profile /			
15) Approximate Coal Seam Dept	ths: 1168'				
16) Approximate Depth to Possib	le Void (coal mi	ne, karst, other): _	lone that we are	aware of.	
17) Does Proposed well location of directly overlying or adjacent to a		ns Yes x	No		
(a) If Yes, provide Mine Info:	Name: Marsl	nall county Coal N	/line		
	Depth: 1168'				
	Seam: Pittsb	urgh			
	Owner: Marsh	all County Coal Reso	ources/American Co	onsolidated Natural Resource	ces



API NO. 47-_051 -

OPERATOR WELL NO. Sonia R MSH 410H

Well Pad Name: Sonia R MSH

18)

CASING AND TUBING PROGRAM

4705102524

Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
20"	New	J-55	94#	136'	136' /	CTS
13 3/8"	New	J-55	54.4#	449'	449'	512 sx/CTS
See	Interm	Casing				
9 5/8"	New	J-55	36#	2841'	2841' /	1159 sx/CTS
5 1/2"	New	P-110 HP	20#	13504'	13504' /	Tail 2229sx/ 100' Inside Intermediate
	(in) 20" 13 3/8" See 9 5/8"	Size	Size (in) or Used Grade 20" New J-55 13 3/8" New J-55 See Interm Casing 9 5/8" New J-55	Size (in) or Used Grade (lb/ft) Weight per ft. (lb/ft) 20" New J-55 94# 13 3/8" New J-55 54.4# See Interm Casing 9 5/8" New J-55 36#	Size (in) or Used Grade (lb/ft) Weight per ft. (lb/ft) FOOTAGE: For Drilling (ft) 20" New J-55 94# 136' 13 3/8" New J-55 54.4# 449' See Interm Casing 9 5/8" New J-55 36# 2841'	Size (in) or Used Grade (lb/ft) Weight per ft. (lb/ft) FOOTAGE: For Drilling (ft) Left in Well (ft) 20" New J-55 94# 136' 136' 13 3/8" New J-55 54.4# 449' 449' See Interm Casing 9 5/8" New J-55 36# 2841' 2841'

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	/
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							

RECEIVED 1946 Office

PACKERS

OCT 18 1024 Kind: M behauten a Environmental Protection Sizes: Depths Set:

STRADER COWER 9/18/2024

WW-6B
(10/14)

API NO. 47- 051 OPERATOR WELL NO. Sonia R MSH 410H
Well Pad Name: Sonia R MSH

4705102524

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production units, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 12,500 psi @ 100 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 28.99
- 22) Area to be disturbed for well pad only, less access road (acres): 10.32
- 23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

24) Describe all cement additives associated with each cement type:

See Attachment ***

25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

OCT 18 2024

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*Note: Attach additional sheets as needed.

			CEMENT	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	> <	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	$>\!\!<$	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJIIO	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
1000	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L	> <	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	$>\!\!<$	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	> <	\times	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETARY
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	$>\!<$	><	CJIII	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	$>\!\!<$	55-IIVV	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	DO47	FP 28L	> <	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	$>\!\!<$	$>\!\!<$	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	$>\!\!<$	$>\!\!<$	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	> <	> <	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	$>\!<$	$>\!\!<$	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
PRODUCTION	> <	FL-66	0501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	\times	VISCOSI FIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065	\times	X	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
	D800	><	\times	CEMENT RETARDER (Mid-Temperature)	SODIUM LIGNOSULFONATE GAS	8061-51-6

OCT 18 2024

W Department Protection

Southwestern Energy Company **Proposed Drilling Program** Well: **SONIA R MSH 410 Drilling Rig: SDC 40** Field: **VICTORY FIELD - WET** Formation: Marcellus Shale County: MARSHALL State: Southwestern Energy^s SHL (NAD83): 39.787568 Latitude -80.568300 Longitude BHL (NAD83): 39.777263 Latitude -80.550924 Longitude **KB Elev:** 1,559 ft MSL KB Height: 26 ft AGL **GL Elev:** 1,533 ft MSL NO COAL VOID EXPECTED 136 ' to 469 ' Gas Storage Interval: 2,196'-2,641' (Maxton to Base Big Injun) Air/Mist PROD TOC @ 2,641 ' MD 469 ' to 2,861 ' **TUBULAR DETAIL** Air/10.5 ppg Brine Casing Size Weight Grade Planned Interval **Casing String** (in) (Min) (Min) From Conductor 20 94.0# 0' J-55 136' 2,861 ' to 7,136 ' Surface 13.375 54.4 # J-55 0' 449 ' Air/Mist Intermediate/Coal 9.625 36.0# J-55 0' 2,841 Production 20.0 # P-110 HP 13,504 ' **CEMENT DETAIL** Sacks Class Density Conductor 173 19.3 Surface 512 Α 15.6 Intermediate 1159 A 15.6/16.0 Production 2229 14.5-15.0 TD at 7,136 ' KOP at 7,136 'MD Freshwater Depth - 339 'TVD 7,136 ' to 8,151 ' Coal Depth - 1,168 'TVD 12.0-12.5 ppg Saltwater Depth - 1,401 'TVD TVD - 7,610 ' TMD - 13,504 ' TD at 13,504 ' MD 7,437 ' TVD Target Center 7,610 'TVD LP at 8,151 ' MD Onondaga 7,627 'TVD 8,151 to 13,504 t RECEIVED SHL Onondaga 7,454 'TVD Office of Oil and Gar 12.5-13.5 ppg Created by: Colin Kollker on 09/12/2024

OCT 18 2024

WV Department of Environmental Protection STRAPER GOWER
9/18/2024

A DI	Number	17	051
API	Number	4/-	051

Operator's Well No. Sonia R MSH 410H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

TEODS/ COTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name SWN Production Co., LLC OP Code 494512924
Watershed (HUC 10) Upper Ohio- Wheeling Quadrangle Cameron
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No V
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit Number Various Approved Facilities Reuse (at API Number At the payt anticipated well
Reuse (at API Number_At the next anticpiated well Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain recovery and solidification on site
Will closed loop system be used? If so, describe: Yes- See Attachment 3A
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air drill to KOP, fluid drill with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, etc Synthetic Oil Base
Additives to be used in drilling medium? Attachment 3B
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etclandfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021 Apex Sanitary Landfill Ub-U8438, Brooke Co SVVF-1013, FMS 353100
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment. Company Official Signature Company Official (Typed Name) Brittany Woody Company Official Title Staff Regulatory Specialist OCT 18 7024
Subscribed and sworn before me this 5 day of September, 2024 Environmental Protection
Clembeth Handenslin Notary Publication Official SEAL
My commission expires 433009 NOTARY PUBLIC STATE OF WEST VIRGINIA Elizabeth Blankenship

Operator's Well No. Sonia R MSH 410H

Proposed Revegetation Treatment: Acres Disturbed 28	Prevegetation pH
Limeas determined by pH test min.2 Tons/acre or to correct	t to pH _10.32
Fertilizer type 10-20-20	
Fertilizer amount 600/500	lbs/acre
Mulch_ Hay/Straw	_Tons/acre
	Seed Mixtures
Temporary	Permanent
Seed Type Ibs/acre Attachment 3C	Seed Type lbs/acre
	_
an Approved by: STRADER GOWER	
omments:	
	Office of Oil and O
	W walthen
	Envirunmental Prote
tle: Oil & Gas Inspector	Date: 9 8 2024



4705102524 SWN Production Company, LLC

SWN Production Company, LLC 1300 Fort Pierpont Dr, Ste 201 Morgantown, WV 26508 Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

September 10, 2024

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

RE: Proposed New Well: Sonia R MSH 410H

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 the Sonia R 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

Buttary Woody

Staff Regulatory Specialist

Southwestern Energy Production Company, LLC

RECEIVED
Office of Oil and Gas

OCT 18 2024

WV Department of Environmental Protection

R-wV+°

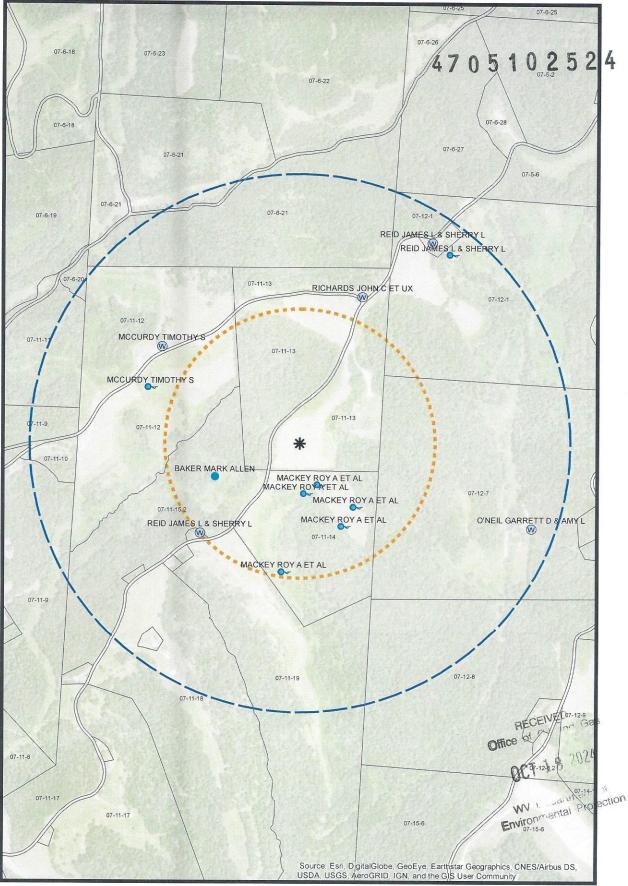
MARCELLUS WELL DRILLING PROCEDURES AND 47 0 5 1 0 2 5 2 4 WELL SITE SAFETY PLAN



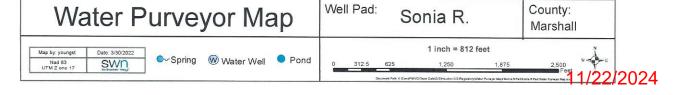
SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

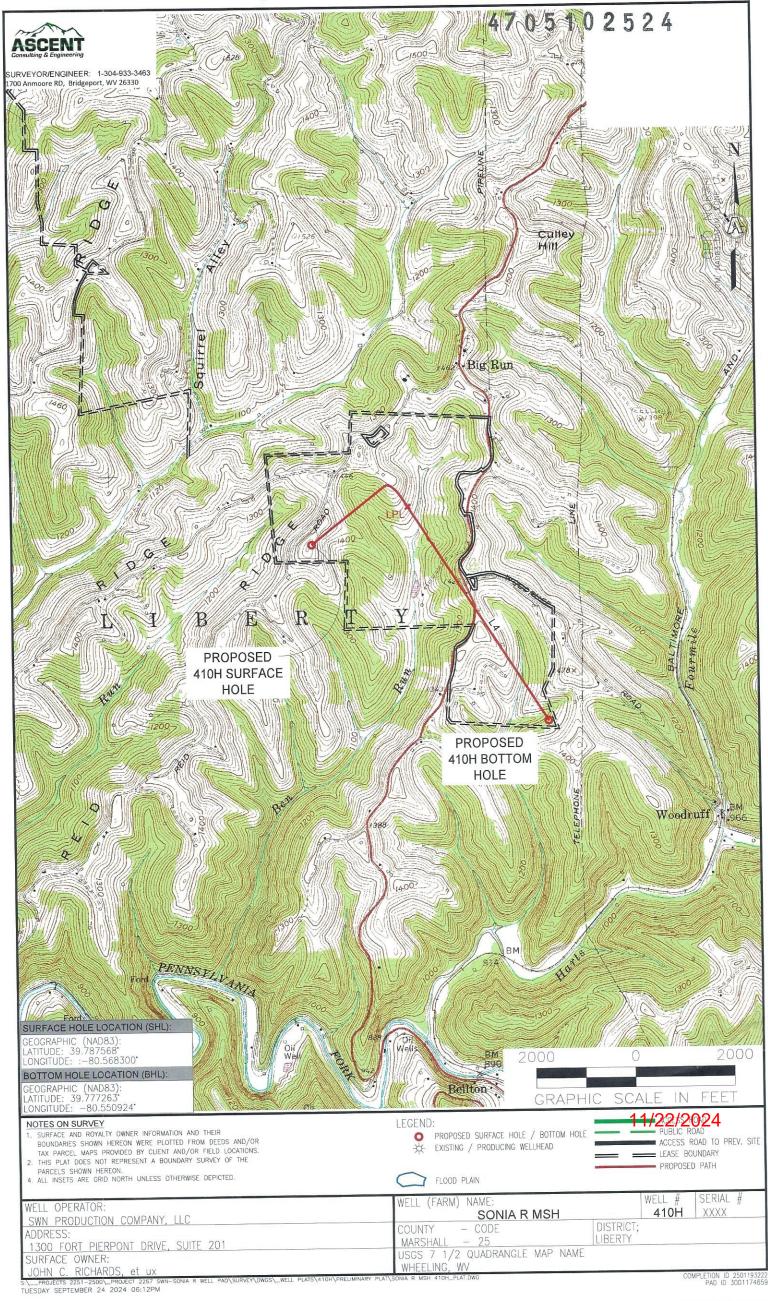
API NO. 47-XXX-XXXXX WELL NAME: Sonia R MSH 410H Cameron QUAD Liberty DISTRICT MARSHALL COUNTY, WEST VIRGINIA

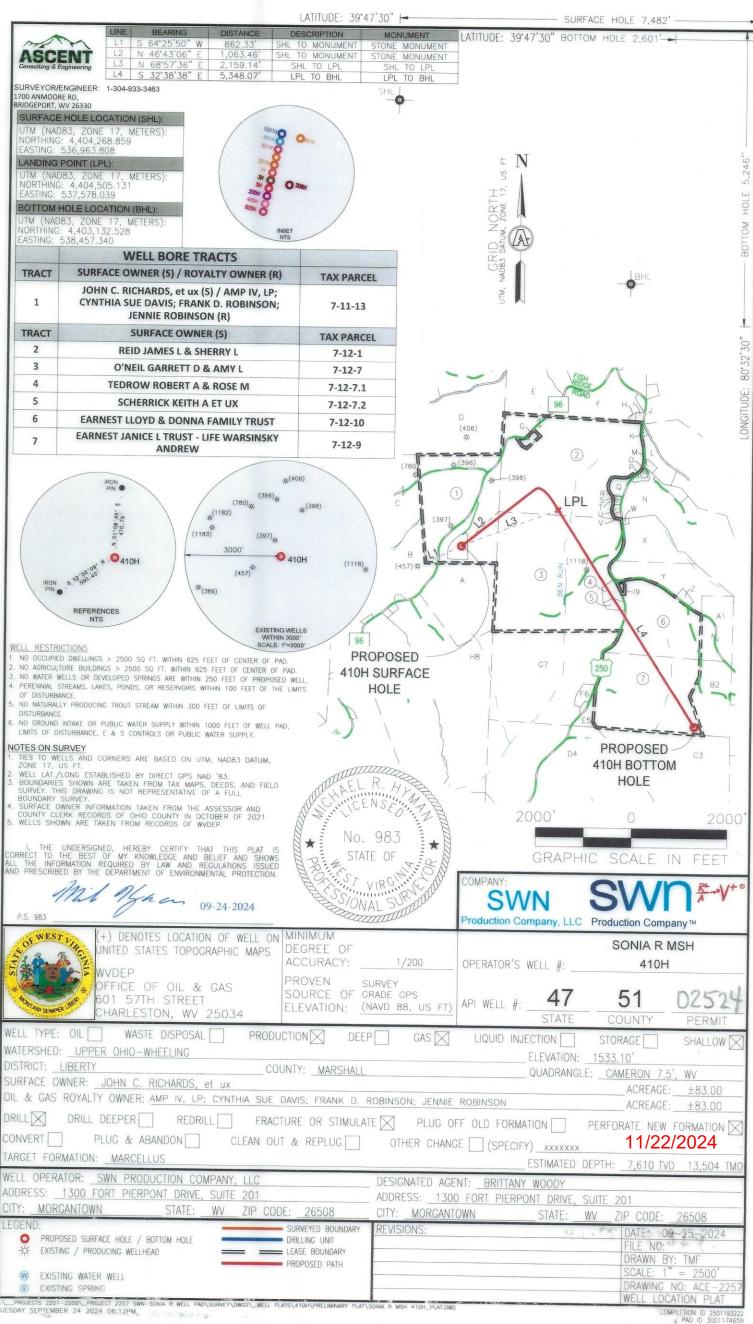
Submitted by:		
Name: Brittany Woody Suttany Woody	Date: 8/26/2024	
Title: Staff Regulatory Specialist	SWN Production Co., LLC	
Approved by:		
Name: STRODER GOWER	Date: 9 18 2024	
Title: Oil & Clas Inspector		RECEIVED Office of Oil and Gas
Approved by:		OCT 18 2024
Name:	Date:	WV Suparment of Environmental Protection
Title:		
SWN PRODUCTION COMPANY, LLC -	- CONFIDENTIAL	



The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.









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

TRACT	ADJOINING OWNERS TABLE SURFACE OWNER	TAX PARCEL
Α	MACKEY ROY A ET AL	7-11-14
В	BAKER MARK ALLEN	7-11-14
С	MCCURDY TIMOTHY S	7-11-13.2
D	STEWART KIMBERLY A	7-6-21
E	REID JAMES P ZERVOS SHAWNA L & CROW BRADLEY A	7-6-27
F	BIG RUN CHRISTIAN CHURCH TR	7-5-6
G	REID JAMES LAWRENCE ET UX	7-12-1.2
Н	PETTIT LILA	7-5-6.3
1	PETTIT LILA L	7-5-6.1
J	PETTIT MICHAEL R ET UX	7-5-7
K	CHAMBERS JOHN W	7-12-3
L	CHAMBERS LAWRENCE D & JOHN W	7-12-2
M	MIDCAP LESLIE J & VIRGINIA M	7-12-2.1
N	MIDCAP LESLIE ET UX	7-12-4
0	ROHM GREG R	7-12-4.1
Р	ROHM GREG R	7-12-4.3
Q	FOX MARGARET O - TOD	7-12-1.4
R	DARMAFALL JOSEPH W III & CHELSIE J	7-12-1.6
S	DARMAFALL JOSEPH W III & CHELSIE J	7-12-1.5
Т	DARMAFALL JOSEPH W III & CHELSIE J	7-12-1.3
U	LOGSDON TERRY & DONNA	7-12-1.1
V	YEATER JARED P & TERESA	7-12-6
W	CUMPSTON SANDRA & KEITH IRREVOCABLE TRUST	7-12-5.1
Х	CUMPSTON SANDRA & KEITH IRREVOCABLE TRUST	7-12-5
Υ	EARNEST LLOYD & DONNA FAMILY TRUST	7-12-10.2
Z	EARNEST LLOYD & DONNA FAMILY TRUST	7-12-10.1
A1	GREGG SANDRA J	7-12-11
B2	EARNEST LLOYD L & DONNA FAM TR & JANICE LEE	7-12-12
C3	EARNEST LLOYD L & DONNA FAM TR & JANICE LEE	7-14-1
D4	APPALACHIA MIDSTREAM SERVICES LLC	7-15-6
E5	APPALACHIA MIDSTREAM SERVICES LLC	7-12-8.2
F6	APPALACHIA MIDSTREAM SERVICES LLC	7-12-8.1
G7	KIRKENDALL SAMUEL D & CHRISTINE	7-12-8
H8	MCCOMBS DOUGLAS R & REBECCA J	7-11-19
19	EARNEST LLOYD & DONNA FAMILY TRUST	7-12-10.3

11/22/2024

SWN Production Company, LLC Production Company™

OPERATOR'S

COMPANY:

SONIA R MSH 410H

STATE:

DRAWN BY: TMF SCALE: N/A
DRAWING NO: ACE-225
WELL LOCATION PLAT

WELL #: DISTRICT: LIBERTY

COUNTY: MARSHALL

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.

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

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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:

By:

Joshua D. Listi

Rotational Landman

Page 1 of

EXHIBIT "A" Sonia R MSH 410H Marshall County, West Virginia

Marshall County, West Virginia
Attached and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased b
À	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	12.50%	326/468	0.0000000%
		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		33/424	
			Production Company, LLC			
/		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
2	7-12-1	Royalty Owner	n/a	n/a	1139/156	22.222222%
		Bounty Minerals, LLC	SWN Production Company, LLC	20.00%	1114/456	
		James L. Reid and Sherry L. Reid	SWN Production Company, LLC	17.00%	1118/479	
		Kevin D. Courtright, a single man	SWN Production Company, LLC	15.00%	1120/531	
		Mick Reid, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	1138/209	
		Sandra S. Cumpston and Keith D. Cumpston, wife and husband	SWN Production Company, LLC	17.00%	1118/486	
		Stone Hill Mineral Holdings, LLC	TH Exploration, LLC	20.00%	974/309	
		TH Exploration, LLC	SWN Production Company, LLC		49/615	
		Stone Hill Mineral Holdings, LLC	TH Exploration, LLC	20.00%	1010/230	
		TH Exploration, LLC	SWN Production Company, LLC		49/615	
,		Jean Paul Jules Gaston Marie Auffray a/k/a Jean Paul Auffray, a widower	SWN Production Company, LLC	15.00%	1128/275	
3	7-12-7	Columbia Gas Transmission Corporation	Wheeling Natural Gas Company	12.500%	130/327	0.000000%
		Wheeling Natural Con Course	T1014		000000	
		Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		148/389	
		The Manufacturers Light and Heat Company Union Gasoline & Oil Corporation	Union Gasoline & Oil Corporation		197/120	
			The Preston Oil Company		2/136	
		The Preston Oil Company The Manufacturers Light and Heat Company	The Manufacturers Light and Heat Company		2/225	
			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	

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EXHIBIT "A" Sonia R MSH 410H Marshall County, West Vir

Marshall County, West Virginia
Attached and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased b
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		Statoil USA Onshore Properties, Inc.	SWN Exchange Titleholder, LLC n/k/a SWN		33/424	
			Production Company, LLC			
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
14	7-12-7.1	Columbia Gas Transmission Corporation	Wheeling Natural Gas Company	12.500%	130/327	0.0000000%
		Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		148/389	
		The Manufacturers Light and Heat Company	Union Gasoline & Oil Corporation		197/120	
		Union Gasoline & 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		33/424	
			Production Company, LLC		100000000000000000000000000000000000000	
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
ß	7-12-7.2	Columbia Gas Transmission Corporation	Wheeling Natural Gas Company	12.500%	130/327	0.0000000%
		Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		148/389	
		The Manufacturers Light and Heat Company	Union Gasoline & Oil Corporation		197/120	
		Union Gasoline & 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		33/424	
		Staton OSA Onshore Properties, Inc.	Production Company, LLC		33/424	
1		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		36/422	
6	7-12-10	L. F. Earnest and Jessie B. Earnest, husband and	The Manufacturers Light and Heat Company	12.500%	353/205	0.0000000%
		wife; Herman Wendt and Gladys Wendt,				
		husband and wife; T. R. Earnest and Maxine				
		Earnest, husband and wife; and W. D. Earnest and Virginia Earnest, husband and wife				

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EXHIBIT "A" Sonia R MSH 410H Marshall County, West Virginia

Attached and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operate

Tract #	Tax Parcel	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
		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	
7	7-12-9	A. R. McGlumphy and J. M. McGlumphy, her husband; and Mary Reid	The Wheeling Natural Gas Company	12.50%	129/214	0.0000000%
		Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		148/389	
		The Manufacturers Light and Heat Company	Union Gasoline & Oil Corporation		197/120	
		Union Gasoline & 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		537/518	
		Columbia Natural Resources, LLC	Nicole Gas Production, Ltd.		13/623	
		Nicole Gas Production, Ltd. and Nicole Energy Marketing, Inc.	Pennsylvania Land Holdings Corporation		619/499	
		Pennsylvania Land Holdings Corporation	Dennis N. Broglio, Successor Trustee		624/654	
		Dennis N. Broglio, Successor Trustee	Tri-County Oil & Gas, Inc.		14/471	
		Tri-County Oil & Gas, Inc.	Leatherwood, Inc.		31/58	
		Leatherwood, Inc.	CNX Gas Company, LLC		31/1	
		CNX Gas Company, LLC	Noble Energy, Inc		31/95	
		CNX Gas Company LLC and Noble Energy, Inc.	Chesapeake Appalachia, LLC and Statoil USA Onshore Properties Inc.		31/38	
		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	

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

End of Exhibit "A"

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OCT 18 2024

WV Department of Environmental Protection



SWN Production Company, LLC

1300 Fort Pierpont Dr, Ste 201 Morgantown, WV 26508 Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

October 14, 2024

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

RE: SWN's proposed New Well: Sonia R MSH 410H in Marshall County, West Virginia, Drilling under Dragon Highway.

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 Dragon Highway. 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,

Joshua D. Listi Rotational Landman

SWN Production Company, LLC

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OCT 18 2024

WV Department of Environmental Protection

R2 NV+

The Right People doing the Right Things, wisely investing the cash flow from our underlying Assets, will create Value+®

11/22/2024

WW-PN (11-18-2015)

Horizontal Natural Gas Well Work Permit **Application Notice By Publication**

Notice i	is	hereby	given:
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Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisemen

The state of the proposed to be located a Class in legal advertisement.
Paper: Moundsville Daily Echo
Public Notice Date: September 12, 2024 & September 19, 2024
The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.
Applicant: SWN Production Company, LLC Well Number: Sonia R MSH 410H
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Business Conducted: Natural gas production. Location —
State: West Virginia County: Marshall
District: Liberty Quadrangle: Cameron
LITM Coordinate NA DR2 Newthins A 404 200
UTM coordinate NAD83 Rortning: 4,404,269 UTM coordinate NAD83 Easting: 536,964
Watershed: Upper Ohio- Wheeling OCT 18 2024
Coordinate Conversion: WV Department of Environmental Protection To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutment.com/septembertal Protection

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Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.comments@wv.gov.

Submitting Comments:

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

Date of Notic	ce Certification:	API No. 47- 05	1				
		Operator's We		R MSH 410H			
		Well Pad Name					
Notice has I	oeen given:						
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has provided the require	d narties w	ith the Notice Forms listed			
below for the	tract of land as follows:	3 == 11-5, and operator has provided the require	u parties w	in the Notice Forms fisted			
State:	West Virginia	Easting: 536	,963.835				
County:	051-Marshall	U1M NAD 83	4,268.880				
District:	Liberty	D 11' D 11	d Ridge Road				
Quadrangle:	Cameron		ia R MSH				
Watershed:	Upper Ohio- Wheeling						
Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.							
that the Oper	West Virginia Code § 22-6A, the Operator has properly served the require CK ALL THAT APPLY	perator has attached proof to this Notice Certified parties with the following:	cation	OOG OFFICE USE			
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE ISSUIC ACTIVITY WAS CONDUCTED	NO	ONLY RECEIVED/ NOT REQUIRED			
■ 2. NOT	ICE OF ENTRY FOR PLAT SURV	YEY or ☐ NO PLAT SURVEY WAS COND	UCTED	☐ RECEIVED			
■ 3. NOT	ICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or		RECEIVED/ NOT REQUIRED			
		WRITTEN WAIVER BY SURFACE O (PLEASE ATTACH)					
■ 4. NOT	ICE OF PLANNED OPERATION	Office of C	EIVED oil and Gas	□ RECEIVED			
5. PUB	LIC NOTICE	OCT 1	8 2024	□ RECEIVED			
■ 6. NOT	ICE OF APPLICATION	WV Depa Environment	artment of I	RECEIVED			

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

THEREFORE, I Brittany Woody , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all 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.

Well Operator: SWN Production Co., LLC

By:

Brittany Woody

Its: Telephone:

Staff Regulator

304-884-1610

Address:

Email:

1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Brittany_Woody@swn.com

NOTAROFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Elizabeth Blankenship 60 Simpson Run Road Weston, WV 26452 My Commission Expires June 23, 2029 Subscribed and sworn before me this

day of Sen

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

> RECEIVED Office of Orland Gos

> > OCT 18 2024

WV Department of Environmental Protection WW-6A (9-13) PINO. 47-051 0 5 1 0 2 5 2 4

OPERATOR WELL NO. Sonia R MSH 410H
Well Pad Name: Sonia R MSH

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later th	an the filing date of permit application.	
Date of Notice: Date Permit Application Filed: Notice of:	ofte	
✓ PERMIT FOR ANYWELL WORK☐ CERTIFICATE OF APPLICATE OF APPLICATION OF	PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-10	0(b)	
	HOD OF DELIVERY THAT REQUIRES A CIPT OR SIGNATURE CONFIRMATION	
certificate of approval for the construction of an impoundment or p registered mail or by any method of delivery that requires a receipt sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be loc oil and gas leasehold being developed by the proposed well work, i described in the erosion and sediment control plan submitted pursus operator or lessee, in the event the tract of land on which the well p more coal seams; (4) The owners of record of the surface tract or trace well work, if the surface tract is to be used for the placement, const impoundment or pit as described in section nine of this article; (5) whave a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the applicant records of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is not Code R. § 35-8-5.7.a requires, in part, that the operator shall also provise water purveyor or surface owner subject to notice and water testing	or signature confirmation, copies of the application, the the well plat to each of the following persons: (1) The cated; (2) The owners of record of the surface tract or trace the surface tract is to be used for roads or other land do ant to subsection (c), section seven of this article; (3) To proposed to be drilled is located [sic] is known to be uncated overlying the oil and gas leasehold being developed ruction, enlargement, alteration, repair, removal or abard Any surface owner or water purveyor who is known to the thousand five hundred feet of the center of the well paid (6) The operator of any natural gas storage field withing the tenants in common or other co-owners of interests denote the manual serve the documents required upon the person does in the server of a landowner, unless the lien holder is the landowner of the Well Site Safety Plan ("WSSP") to the surface or trace to the surface of the Well Site Safety Plan ("WSSP") to the surface of the surface of the surface of the Well Site Safety Plan ("WSSP") to the surface of the surface of the surface of the well Site Safety Plan ("WSSP") to the surface of the surface of the surface of the well Site Safety Plan ("WSSP") to the surface of the surface of the surface of the well Site Safety Plan ("WSSP") to the surface of the surface	e erosion and owners of record of acts overlying the disturbance as he coal owner, derlain by one or d by the proposed adonment of any the applicant to d which is used to a which the escribed in escribed in the twithstanding any downer, W. Va.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice	✓ Well Plat Notice is hereby provided to:	
SURFACE OWNER(s) Name: John & Sonia Richards Address: 837 McQueen Boulevard	COAL OWNER OR LESSEE Name: ACNR Attn: Steve Bair Address: 46226 National Road	RECEIVED Office of Oil and Ga
St. Albans, WV 25177 Name: Address:	St. Clairsville, OH 43950 COAL OPERATOR	OCT 18 2024
SURFACE OWNER(s) (Road and/or Other Disturbance)	Name:Address:	WV Department of Environmental Protection
Name:Address:	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: See Attachment 13A	
Name:Address:	Address:	
SURFACE OWNER(s) (Impoundments or Pits) Name: Address:	OPERATOR OF ANY NATURAL GAS STORANAME: TC Energy Attn: Brent Criser Address: 1700 MacCorkle Ave SE Office 518 Charleston WV 25314 *Please attach additional forms if necessary	AGE FIELD

WW-6A (8-13)

47.05102524 OPERATOR WELL NO. Sonia R MSH 410H Well Pad Name: Sonia R MSH

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods. RECEIVED

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Additional information related to nonzonial uniting may be obtained from the 25304 (304-926-0450) or by visiting www.dercyv.gov/oiland-gas/pages/default.aspx.

WV Department of Well Location Restrictions

Environmental Protections

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any extensions. water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

API NO. 47-051 0 5 1 0 2 5 2 4

OPERATOR WELL NO. Sonia R MSH 410H

Well Pad Name: Sonia R MSH

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written Comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

OCT 18 2024

WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

WW-6A (8-13) 4705102524

OPERATOR WELL NO. Sonia R MSH 410H

Well Pad Name: Sonia R MSH

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

RECEIVED
Office of Oil/and Gas

OCT 18 2024

WV Department of Environmental Protection

API NO. 47-051 OPERATOR WELL NO. Sonia R MSH 410H

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610

Email: Brittany_Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Elizabeth Blankenship 60 Simpson Run Road Weston, WV 26452 My Commission Expires June 23, 2029

Subscribed and sworn before me this 5 day of Sept 2001

Notary Public

My Commission Expires

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entry	xequirement: Notice shall be pro	vided at least SEVEN (7) days but	it no more than FORTY-FIVE (45) days prior to				
Date of Notic	e: 8/20/2024	nned Entry: 8/27/2024					
Delivery metl	nod pursuant to West Virginia (Code § 22-6A-10a					
☐ PERSON	JAL REGISTERED	☐ METHOD OF DELIVER	RY THAT REOUIRES A				
SERVIC	E MAIL	RECEIPT OR SIGNATU					
on to the surfa but no more th beneath such t owner of mine and Sediment Secretary, whi enable the surf	ce tract to conduct any plat survey an forty-five days prior to such er ract that has filed a declaration purals underlying such tract in the control Manual and the statutes a ch statement shall include contact face owner to obtain copies from the contact of the contact of the contact of the contact face owner to obtain copies from the contact of th	is required pursuant to this article. Attry to: (1) The surface owner of sursuant to section thirty-six, article bunty tax records. The notice shall and rules related to oil and gas explinity information, including the address.	n, the operator shall provide notice of planned entry. Such notice shall be provided at least seven days uch tract; (2) to any owner or lessee of coal seams six, chapter twenty-two of this code; and (3) any ll include a statement that copies of the state Erosion loration and production may be obtained from the ss for a web page on the Secretary's web site, to				
	by provided to:	□ ac. (x. c. y.					
SURFAC			VNER OR LESSEE				
Name: John & So Address: 837 M			Name: ACNR Attn: Steve Bair				
St. Albans, WV 2517		Address: 46226 N					
		Clairsville, OH 43950					
Address:		■ MINERAL	OWNER(s) RECEIVED Office of Oil and Gaz				
NTo							
A J J		11001000	ss St, Suite 301 ——OCT 18 2024				
radicss.			1900 - 19				
		*please attach additi	tional forms if necessary WV Department of				
Notice is her	ohy givon		Environmental Protection				
Pursuant to We	est Virginia Code § 22-6A-10(a),	notice is hereby given that the und	dersigned well operator is planning entry to conduct				
a plat survey o	n the tract of land as follows:						
3000 SECTION 1	West Virginia	Approx. Latitude &					
County:	Marshall	Public Road Access					
	Liberty	Watershed:	Upper Ohio- Wheeling				
Quadrangle:	Cameron	Generally used farm	m name: Sonia R MSH				
may be obtained Charleston, Wobtained from Notice is here	ed from the Secretary, at the WV IV 25304 (304-926-0450). Copies the Secretary by visiting www.dejeby.given.by :	Department of Environmental Proto of such documents or additional in o.wv.gov/oil-and-gas/pages/default	es related to oil and gas exploration and production tection headquarters, located at 601 57 th Street, SE, information related to horizontal drilling may be lt.aspx.				
Well Operator:	SWN PRODUCTION COMPANY, LLC	Address: 1300	Fort Pierpont Dr., Suite 201				
relephone:	304-884-1610	Morga	antown, WV 26508				
Email:	Brittany_Woody@swn.com	Facsimile: 304-8	384-1690				

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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time F	Requirement:	Notice shall be provi	ided at least SI	EVEN (7) da	ys but no more that	n FORTY	Y-FIVE (45) days prior to	
entry Date of Notice	8/20/2024	Date of Plan	ned Entry: 8/2	27/2024				
		to West Virginia Co						
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SERVICE	3	MAIL	RECEI	PT OR SIGN	NATURE CONFIR	MATION	I	
on to the surface but no more the beneath such to owner of miner and Sediment (Secretary, whice enable the surface	ce tract to conc an forty-five d ract that has fil rals underlying Control Manua ch statement sl ace owner to o	duct any plat surveys ays prior to such entred a declaration pursed such tract in the could and the statutes and tall include contact in the could tall include statutes are obtain copies from the	required pursury to: (1) The structury to section anty tax record drules related information, ind	unt to this as urface owne thirty-six, a s. The notic to oil and gas	rticle. Such notice s r of such tract; (2) tricle six, chapter to e shall include a sta s exploration and p	shall be protected any own wenty-two attement the roduction	vide notice of planned entry ovided at least seven days ner or lessee of coal seams of this code; and (3) any at copies of the state Erosion may be obtained from the Secretary's web site, to	
Notice is herel SURFACI		0:		Псоа		agee		
				= COLE OWNER OR ELEGEE				
Address:				Name:				
2 radi ess			-	Address.			RECEIVED	
Name:				-			Office of Oil and Gas	
Address:				■ MINE	ERAL OWNER(s)			
				Name: Cyr	thia Sue Davis		OCT 18 2024	
Name:				Address:	751 Glenn Street			
Address:			3 1	Canonsburg, PA 15317 WV Department of				
			9	*please attac	h additional forms if neo	cessary	Environmental Protection	
a plat survey or State: County: District:	st Virginia Co	de § 22-6A-10(a), no and as follows:	A		ude & Longitude:	39.787413, Reid Ridge	Road	
Quadrangle:	Cameron		G	enerally use	d farm name:	Sonia R MSI	H	
may be obtaine Charleston, WV	d from the Sec 7 25304 (304- he Secretary b	eretary, at the WV Dec. 926-0450). Copies of the visiting www.dep.	epartment of E	nvironmenta ents or additi	l Protection headquonal information re	arters, loc	exploration and production cated at 601 57 th Street, SE, orizontal drilling may be	
Well Operator:		ON COMPANY, LLC		Address:	1300 Fort Pierpont Dr., S	Suite 201		
Telephone:	304-884-1610				Morgantown, WV 26508			
Email:	Brittany_Woody@	oswn com	-	Facsimile:	304-884-1690			
	vvoody@	50		i acommic.	007-007-1030			

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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entry	equirement: Notice shall be prov	rided at least SEVEN (7) days but no more than	FORTY-FIVE (45) days prior to
Date of Notice:	8/20/2024 Date of Plan	nned Entry: 8/27/2024	
Delivery metho	od pursuant to West Virginia Co	ode § 22-6A-10a	
☐ PERSONA	AL REGISTERED	☐ METHOD OF DELIVERY THAT RE	QUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRM	MATION
on to the surface but no more that beneath such tra owner of minera and Sediment C Secretary, which enable the surfa	e tract to conduct any plat surveys in forty-five days prior to such ent act that has filed a declaration pur- als underlying such tract in the co- ontrol Manual and the statutes an in statement shall include contact in ce owner to obtain copies from the	Prior to filing a permit application, the operator is required pursuant to this article. Such notice is try to: (1) The surface owner of such tract; (2) to issuant to section thirty-six, article six, chapter to bunty tax records. The notice shall include a standard rules related to oil and gas exploration and prinformation, including the address for a web paths secretary.	hall be provided at least seven days o any owner or lessee of coal seams venty-two of this code; and (3) any tement that copies of the state Erosion roduction may be obtained from the
Notice is hereb SURFACE	- W-		COPE
		☐ COAL OWNER OR LES	
Address:		Name: Address:	PECEIVED
			Office of Dridge Oce
Name:		■ MINERAL OWNER(s)	OCT 18 2024
			001 19 202
		Address: 861 Ridge Road	-tment Of
Address:		Waynesburg, PA 15370	WV Department of Environmental Protection
No.		*please attach additional forms if nec	essary Environmental
a plat survey on	st Virginia Code § 22-6A-10(a), n the tract of land as follows:	notice is hereby given that the undersigned well	
2000-000-00000000000000000000000000000	Vest Virginia		39.787413, -80.568383
	Marshall ibook	Watarahad	Reid Ridge Road
-	iberty	Generally used farm name:	Upper Ohio- Wheeling Sonia R MSH
Quadrungie	amoron	Generally used farm hame.	Sonia ix Worl
may be obtained Charleston, WV	I from the Secretary, at the WV D 25304 (304-926-0450). Copies	I Manual and the statutes and rules related to oil Department of Environmental Protection headque of such documents or additional information representation of the control	arters, located at 601 57th Street, SE,
Notice is here	hy given by:		
Well Operator:	SWN PRODUCTION COMPANY, LLC	Address: 1300 Fort Pierpont Dr., S	Suite 201
Telephone:	304-884-1610	Morgantown, WV 26508	
Email:	Brittany_Woody@swn.com	Facsimile: 304-884-1690	

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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entr	У					ys but no more that	n FORTY-FIVE (45	o) days prior to
Date	e of Notice:	8/20/2024	Date of Pla	nned Entry: _8	3/27/2024			
Deli	very metho	d pursuant t	to West Virginia (Code § 22-6A-1	0a			
	PERSONAL REGISTERED METHOD OF DELIVERY THAT REQUIRES A							
	SERVICE		MAIL	RECE	EIPT OR SIGN	NATURE CONFIR	MATION	
on to but i bene own and Secrenal	to the surface no more than eath such tra- er of minera Sediment Co- retary, which ole the surface	tract to cond n forty-five do ct that has fil ls underlying ontrol Manua n statement shoe owner to o	duct any plat survey ays prior to such ended a declaration put g such tract in the colland the statutes a hall include contact btain copies from the	ys required purs ntry to: (1) The ursuant to section ounty tax recor- and rules related t information, in	suant to this are surface owner on thirty-six, and ds. The notice I to oil and gas	rticle. Such notice s r of such tract; (2) the rticle six, chapter the e shall include a state s exploration and p	shall provide notice shall be provided at le to any owner or lesse wenty-two of this con attement that copies o roduction may be ob- age on the Secretary'	east seven days be of coal seams de; and (3) any f the state Erosion tained from the
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		OWNER(s)				L OWNER OR LE		BECEIVED
Add	ress:			_	Address:			RECEIVED Office of Oil and Gar
								OCT 18 2024
Add	ress:	V-07-90-20-03-W-3-1			■ MINE	ERAL OWNER(s)		001 10 2024
2				_		nie Robinson		WV Department of
Nan	ne:		Part of the second second			Address: 25p Old Plank Road Environmental P		
Add	ress:				Washington, PA 15301			
				_	*please attac	h additional forms if ne	cessary	
Purs	at survey on	t Virginia Co	de § 22-6A-10(a), and as follows:		Approx. Latit	ude & Longitude:	l operator is planning	entry to conduct
Cou		arshall			Public Road A	Access:	Reid Ridge Road	
Dist					Watershed:		Upper Ohio- Wheeling	
Qua	drangle: Ca	ameron		<u> </u>	Generally use	d farm name:	Sonia R MSH	
may Cha	be obtained rleston, WV	from the Sec 25304 (304-	cretary, at the WV	Department of a sof such document of such document of the such document	Environmenta nents or additi	l Protection headquional information re	il and gas exploration uarters, located at 60 elated to horizontal d	1 57 th Street, SE,
Not	ice is herel	y given by	•					
			ION COMPANY, LLC		Address:	1300 Fort Pierpont Dr.,	Suite 201	
	phone:	304-884-1610				Morgantown, WV 26508		
Ema	il:	Brittany_Woody@)swn.com		Facsimile:	304-884-1690		
						n photos construction of the construction		

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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Date of Notice	Requirement: Notice shall be provided at ce: 09/18/2024 Date Peri	least TEN (10) days prior to filing a mit Application Filed:	permit application.
Delivery met	thod pursuant to West Virginia Code § 2	2-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE	ERY RETURN RECEIPT REQ	UESTED	
drilling a hori of this subsection ma	V. Va. Code § 22-6A-16(b), at least ten day sted or hand delivery, give the surface own izontal well: <i>Provided</i> , That notice given tion as of the date the notice was provided by be waived in writing by the surface own le, facsimile number and electronic mail ad	er notice of its intent to enter upon t pursuant to subsection (a), section to to the surface owner: <i>Provided</i> , hower. The notice, if required, shall incl	he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number
	reby provided to the SURFACE OW	NER(s):	
Name: John & S		Name:	RECEIVED
Address: 837 N St. Albans, WV 25	McQueen Boulevard	Address:	Office of Oil and Par
the surface ow State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile num	Vest Virginia Code § 22-6A-16(b), notice is vner's land for the purpose of drilling a hor West Virginia Marshall Liberty Cameron 7.5", WV Upper Ohio - Wheeling Shall Include: West Virginia Code § 22-6A-16(b), this rather and electronic mail address of the open content of the property of the prop	izontal well on the tract of land as for Easting: UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	536,963.808 4,404,268.859 Fish Ridge Road Sonia R. MSH ress, telephone number, and if available, and representative. Additional information
related to hori located at 601	izontal drilling may be obtained from the 57 th Street, SE, Charleston, WV 25304 (3treby given by:	Secretary at the WV Department of	f Environmental Protection headquarters
	SWN Production Company, LLC	Authorized Representative:	Reid Croft
Address:	1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
	Morgantown, WV 26508		Morgantown, WV 26508
Telephone:	304-231-8329	Telephone:	304-231-8329
Email:	reid_croft@swn.com	Email:	reid croft@swn.com
Facsimile:		Facsimile:	

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4705102524 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **NOTICE OF PLANNED OPERATION**

Date of Notice	: 09/18/2024 Date Permit Application	nan the filing on Filed:	date of permit	application.	
Delivery method	od pursuant to West Virginia Code § 22-6A-1	6(c)			
	ED MAIL				
the planned op required to be p drilling of a ho damages to the	Va. Code § 22-6A-16(c), no later than the date equested or hand delivery, give the surface owneration. The notice required by this subsection brovided by subsection (b), section ten of this art orizontal well; and (3) A proposed surface use surface affected by oil and gas operations to the required by this section shall be given to the surface.	er whose land n shall incluticle to a surf and compen- extent the da	d will be used for de: (1) A copy face owner whos sation agreemen amages are comp	of this code section of this code section of this code section of the transfer	a horizontal well notice of tion; (2) The information ed in conjunction with the offer of compensation for tricle six-h of this chanter
Notice is hereb (at the address I Name: John & Son Address: 837 Mcc		notice): Name: Addres			
St. Albans, WV 2517	7				
operation on the State: County: District: Quadrangle:	st Virginia Code § 22-6A-16(c), notice is hereby e surface owner's land for the purpose of drilling Nest Virginia Marshall Liberty	g a horizonta UTM NAD 8 Public Road	Easting: Northing:	vell operator has ct of land as follo 536,963.808 4,404,268.859 Fish Ridge Road Sonia R. MSH	developed a planned ows:
This Notice Shapursuant to West to be provided horizontal well; surface affected information relaheadquarters, logas/pages/defau	all Include: st Virginia Code § 22-6A-16(c), this notice shal by W. Va. Code § 22-6A-10(b) to a surface of and (3) A proposed surface use and compensat I by oil and gas operations to the extent the dat ated to horizontal drilling may be obtained from becated at 601 57th Street, SE, Charleston, W. Ill.aspx.	ion agreeme mages are com the Secret VV 25304	e land will be unt containing an ompensable under arry at the WV	sed in conjunction offer of compenser article six-b of Department of I	ion with the drilling of a sation for damages to the station for damages to the fithis chapter. Additional Environmental Protection www.deproclice.
Well Operator: Telephone:	SWN Production Company, LLC 304-231-8329	Address:	1300 Fort Pierpont D		OCT 18 2024
Email:	reid_croft@swn.com	Facsimile:	Morgantown, WV 265	508	and the state of
Oil and Gas Pr		- 200	S 2		WV Department of Environmental Protection

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Office of the District Engineer/Manager
District Four

Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

Alanna J. Keller, P.E. Deputy Secretary of Transportation Deputy Commissioner of Highways

Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

September 9, 2024

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Sonia R Well Pad, Marshall County Sonia R MSH 410H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2022-0215 which has been issued to SWN Production Company, LLC for access to the State Road for a well site located off Marshall County Route 96 SLS MP 3.50.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Lacy D. Pratt

Central Office O&G Coordinator

Hacy D. Pratt

RECEIVED
Office of Oil 10 30

OCT 18 2024

WV Department of the Chick

Ce: Brittany Woody

SWN Production Company, LLC

OM, D-6

File

Attachment VI Frac Additives

Product Name	Product Use	Chemical Name	CAS Number
HCL	Solvent	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
FSTI-CI-02	Corrosion Inhibitor	2-Butoxyethanol	111-76-2
		Ethylene glycol	107-21-1
		N,N-Dimethylformamide	68-12-2
		benzyl chloridequaternized	72480-70-7
		Cinnamaldehyde	104-55-2
		Isopropyl alcohol	67-63-0
		Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)omegahydroxy-	9016-45-9
		1-Decanol	112-30-1
		1-Octanol	
		Triethyl phosphate	111-87-5
erriplex 80	Iron Control		78-40-0
	Iron Control	Sodium Erythorbate	6381-77-7
Tolicide 4Frac	Biocide	Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8
		Quaternary ammonium compounds	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
Plexslick 930	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Oleic Acid Diethanolamide	93-83-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Ammonium Chloride	12125-02-9
		Sodium Chloride	
Plexaid 655NM	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	7647-14-5
lexald 00010101	Scale Inhibitor	Particular (2)	15827-60-8
all: Lyong	F	Water	7732-18-5
Plexslick V996	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Sodium Chloride	7647-14-5
Plexaid 655WG	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
		Glycerin	67-56-1
Clearal 270	Biocide	Glutaraldehyde	111-30-8
		Didecyldimethylammonium Chloride	7173-51-5
		Quaternary Ammonium compounds, Benzyl-C12-C16-alkyldimethyl, Ch	
		Ethanol	64-17-5
		Water	7732-18-5
StimSTREAM SC 398 CW	Scale Inhibitor	Ethylene glycol	
CHILD I KEAIVI SC 336 CW	Scale Inflibitor		107-21-1
		CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5
StimSTREAM FR 9800	Friction Reducer	Chemstream-Alkane-00001	Chemstream-Alkane-00001
		Chemstream-Polymer-00001	Chemstream-Polymer-00001
		Ethoxylated alcohols (C12-16)	68551-12-2
		Water	7732-18-5
timSTREAM FR 2800	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Alcohols, C11-14-iso, C13-rich, ethoxylated RECE	EIVED 778330-21-9 Dil and 7732-18-5
		Water Office of	Oil and 7732-18-5
timSTREAM FR 9725	Friction Reducer		
		Ammonium Chloride	18 2024 64/42-47-8
		Water OCI	10 - 12125-02-9
	Carla tability		7732-18-3
stimSTREAM SC 398 C	Scale Inhibitor	CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	partitie proteCHÉMSTREAM-Polymer-10002 7732-18-5
		Water Environment	7732-18-5

OPERATOR: SWN Production Co., LLC	WELL NO: Sonia R MSH 410H					
PAD NAME: Sonia R MSH						
REVIEWED BY:	_ SIGNATURE BILLIANY WOODY					
WELL RESTRICTI						
HORIZONTA	L 6A WELL Office of Oil and Gro					
	OCT 18 2024					
Well Restrictions **Pad Built 1	2-23-2022 WV Department of Environmental Protection					
At Least 100 Feet from Pad and LOD (Perennial Stream, Lake, Pond, Reservo	including any E&S Control Feature) to any					
DEP Waiver and Permit Conditi	ons					
At Least 300 Feet from Pad and LOD (Naturally Producing Trout Stream; OR	including any E&S Control Feature) to any					
DEP Waiver and Permit Conditi	ons					
	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR					
DEP Waiver and Permit Condit	ions					
At Least 250 Feet from an Existing Wa Drilled; OR	ter Well or Developed Spring to Well Being					
Surface Owner Waiver and Rec	orded with County Clerk, OR					
DEP Variance and Permit Cond	litions					
At Least 625 Feet from an Occupied Do	welling Structure to Center of the Pad; OR					
Surface Owner Waiver and Rec	orded with County Clerk, OR					
DEP Variance and Permit Cond	itions					
At Least 625 Feet from Agricultural Bu of the Pad; OR	aildings Larger than 2500 Square Feet to the Center					
Surface Owner Waiver and Rec	orded with County Clerk, OR					
DEP Variance and Permit Cond	itions					

SHEET INDEX GENERAL NOTES EVACUATION PLAN WITHOUT USGS MAP EVACUATION PLAN WITH USGS MAP EXISTING CONDITIONS BOREHOLE LOCATIONS OVERALL GRADING & ESC PLAN GRADING & ESC PLAN FOR ACCESS ROAD AND WELL PAD GRADING & ESC PLAN FOR STOCKPILES GEOMETRIC LAYOUT - WELL PAD AND ACCESS ROAD ACCESS ROAD PLAN & PROFILE RETAINING WALL PROFILE ACCESS ROAD CROSS SECTIONS WELL PAD BASELINE PLAN WELL PAD SUBGRADE PLAN WELL PAD PROFILE WELL PAD CROSS SECTIONS WASTE AREA CROSS SECTIONS 25A-25C CULVERT PROFILE RECLAMATION PLAN C.R. 95 WIDENING PLAN C.R. 96 TYPICAL SECTIONS C.R. 96 CROSS SECTIONS DETAILS RETAINING WALL DETAILS 57-64 GEOTECH DESIGN & DETAILS BORING LOGS MAINTENANCE OF TRAFFIC SWN QUICK ESTIMATE

MOBILIZATION & DEMOBILIZATION (LIMITED TO 5% OF BASE BID) CLEARING & GRUBBING

EARTHWORK

WELL PAD CONTAINMENT BERM SEEDING & MULCHING (INCLUDES FERTILIZER)

3-FT PRECAST CONCRETE LAGGING

4-FT PRECAST CONCRETE LAGGING

3" OF 25 MM BASE COURSE ASPHALT

8% CEMENT STABILIZATION FOR WELL PAD (12")

8% CEMENT STABILIZATION FOR ACCESS ROAD (12")

GUARDRAIL INCLUDES (4) TERMINAL ENDS

ORANGE CONSTRUCTION FENCE

18" COMPOST FILTER SOCK

24" COMPOST FILTER SOCI

18" HDPE CULVERT

8% CEMENT STABILIZATION FOR RIGHT HAND SHOULDER (12")

STABILIZED CONSTRUCTION ENTRANCE - (STONE BY SWN)

ROCK LINED DITCH - PLACEMENT ONLY - (STONE BY SWN)

ENTRANCE TRENCH DRAIN (HEAVY DUTY TRAFFIC RATED)

DUTLET PROTECTION - PLACEMENT ONLY - (STONE BY SWN)

ROCK LINED SUMP - PLACEMENT ONLY - (STONE BY SWN)

UNCLASSIFIED EXCAVATION WVDCH ITEM #207001-001

SUBGRADE - WYDOH ITEM # 207002-000

SEPARATION FABRIC - WVDOH ITEM #207034-000

CENTERLINE STRIPING - WVDOH ITEM #663002-040

LANE LINE STRIPING - WYDOH ITEM #663007-005

ROCK CHECK DAMS - PLACEMENT ONLY - (STONE BY SW

DIVERSION DITCH WITH EROSION CONTROL BLANKET

TOPSOIL STRIPPING, STOCKPILING, AND REDISTRIBUTION (ASSUMED 9' DEEP)

H PILE WALL - STEEL HP 14x73 (INCLUDES DRILLING & CONCRETE SOCKET)
2-F1 PRECAST CONCRETE LAGGING

ITEM DESCRIPTION

TRAFFIC CONTROL (COUNTY ROUTE 96 CROSSING FOR WASTE & STOCKPILES INCLUDES TRAFFIC CONTROL, STEEL PLATES, STREET SWEEPER, ETC.

SOIL TOLKEY 10' DEEP (INCLUDES EXCAVATION, PIPE, STONE, FABRIC, & COLLECTION DRAINS) - (STONE BY SWN

SOIL TOE KEY 7 DEEP (INCLUDES EXCAVATION, PIPE, STONE, FABRIC, & COLLECTION DRAINS) - (STONE BYSWN) SOIL TOE KEY 5' DEEP (INCLUDES EXCAVATION, PIPE, STONE, FABRIC, & COLLECTION DRAINS) - (STONE BY SWN)

INTERMEDIATE TOE KEY FOR WELL PAD (APPROX. EL. 1510) (INCLUDES EXCAVATION, PIPE, STONE, & FABRIC). (STONE BY SWAI) INTERNEDIATE TOE RET FOR WASTE AREA HI (APPROX. EL. 1350] (INCLUDES EXCAVATION, PIPE, STONE, & FABRIC) - (STONE EY SWIN)
INTERMEDIATE TOE REY FOR WASTE AREA #2 (APPROX. EL. 1460) (INCLUDES EXCAVATION, PIPE, STONE, & FABRIC) - (STONE EY SWIN)

INTERMEDIATE TOE KEY FOR TOPSOIL PILE (APPROX. EL. 1460) (INCLUDES EXCAVATION, PIPE, STONE, & FABRIC) - (STONE BY SWN)

AASHTO #57 CLEAN STONE BACKFILL FOR RETAINING WALL - LA" PERF PIPE & NON-WOVEN GEOTEXTILE FABRIC) - (STONE BY SWN)

1.5" CRUSHER RUN LIMESTONE FOR RIGHT HAND SHOULDER STONE (5") - (PLACEMENT ONLY, STONE IS PURCHASED AND DELIVERED BY SWN)

DEWATERING SUMP, COMPLETE (INCL. SLOPE PIPE, PIPE LEVEL SPREADERS, BOLLARDS, ETC. PER DETAIL SHEET 44). (STONE BY SWN

County Route 96 Wild

Add Alternate

1 5" CRUSHER RUN LIMESTONE FOR WELL PAD (4") (PLACEMENT ONLY, STONE IS PURCHASED AND DELIVERED BY SWN)

1.5" CRUSHER RUN LIMESTONE FOR TANK PAD (5") - (PLACEMENT ONLY, STONE IS PURCHASED AND DEUVERED BY SWR)
BN. CEMENT STABIUZATION FOR TANK PAD (12")

TEMPORARY ACCESS ROAD FOR WASTE & STOCKPILES - STABILIZED CONSTRUCTION ENTRANCE - (STONE BY SWN)

LANDOWNER FENCE REPLACEMENT (COORDINATE W/LANDOWNERS & SWN ON LOCATION AND STYLE)

MARSHALL ASPHALT WEARING, TYPE 4 (MEDIUM MIX & PG 64E-22 BINDER) - WVDOH ITEM #410002-030

MARSHALL ASPHALT BASE COURSE, ST. OR GR. TYPE II (MEDIUM MIX & PG 64E-22 BINDER) - WYDDH ITEM #401001-023

MARSHALL ASPHALT BASE COURSE, ST. OR GR. TYPE (MEDIUM MIX & PG 64H 22 8INDER) WVDOH ITEM #401001 020

PRIVATE SERVICE GAS LINE RELOCATIONS (COORD NATE W/LANDOWNERS & SWN)

AGGREGATE BASE COURSE, CLASS 1 - WVDOH ITEM #307001 D00 - (STONE BY SWN)

POLYMER-MODIFIED TRACKLES TACK, NTSS-IHM - WVDOH ITEM 6408001-002

AASHTO NO. 1 STONE FOR WELL PAD - (PLACEMENT ONLY, STONE IS PURCHASED AND DELIVERED BY SWN)

201 00 -OCT

UNIT QUANTI

45

23.250

143,000

1.725

470

400

1,790 17.25

4,300

4,700 20,360

294 441 TN

2,520 675

295

825

795

625

825

3,600

4,480

120

500

800

530

SY 2,550

EA 8

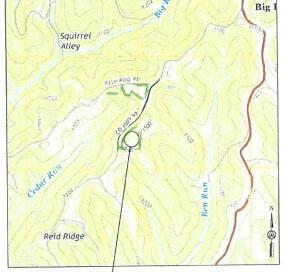
LF 1,193 EA 72 EA 42

LF 1,680

83,466 415

RECEIVED of Oil and the

SOUTHWESTERN PRODUCTION COMPANY, LLC CONSTRUCTION PLANS FOR SONIA R WELL PAD MARSHALL COUNTY, WV **JULY 2022**



PROJECT LOCATION -1000 CAMERON QUADRANGLE REFERENCE MAP

JOHN DUBOWSKI, CONSTRUCTION SUPERINTENDENT SOUTHWESTERN PRODUCTION COMPANY, LLC 1300 FORT PIERPONT DRIVE, SUITE 201. MORGANTOWN, WV 26508 PHONE (304) 884 - 1671 EMAIL: JOHN_DUBOWSKI@SWN.COM

ENGINEER: MICHAEL NESTOR, PE ASCENT CONSULTING & ENGINEERING 2361 DAVISSON RUN ROAD CLARKSBURG, WV 26301 PHONE. (304) 933 - 3463 EMAIL: MIKE@ASCENTCONSULTINGENGINEERS.COM PROJECT MANAGER: ASCENT CONSULTING & ENGINEERING 2361 DAVISSON RUN ROAD CLARKSBURG, WV 26301 PHONE: (304) 933 - 3463 EMAIL ERIC@ASCENTCONSULTINGENGINEERS.COM

ENVIRONMENTAL: WEILANDS OR SURFACE WATER INFORMATION DELINEATED BY ASCENT CONSULTING & ENGINEERING DATED AUGUST 2021

TOPOGRAPHIC INFORMATION
HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE NADB3 WEST VIRGINIA STATE PLANES, NORTH ZONE, IN U.S. SURVEY FEET.

LOCAL EMERGENCY	SERVICES
NAME:	NUMBER:
AMBULANCE	911
HOSPITAL EMERGENCY ROOM	(304) 845 - 3211
FIRE DEPARTMENT	911
POLICE DEPARTMENT	911
POISON CONTROL CENTER	(800) 222 - 1222

LOCATION COORDINATES

ACCESS RO	DAD ENTRANCE:	
LATITUDE	39.79014167 N	LON
LATITUDE	39°47'24.51" N	LON
NORTHING	471690.9198	EAS
NORTHING	4404555.01	FAS

NGITUDE STING

80,56716111 W (DECIMAL DEGREES) (DEGREES*MINUTES'SECONDS") 80"34"01.78" W (WV SP-83, FEET) (UTM ZONE 17, METERS) 1668630.9389 537050,81

WELL PAD CENTER: LATITUDE 39,78741389 N ATITUDE 39°47'14.69"N LONGITUDE NORTHING: 470701,2727 NORTHING: 4404251.70

80°34'06.18" W 1668276.4268 536956.85

80.56838333 W (DECIMAL DEGREES) (DEGREES MINUTES SECONDS (WV SP-83, FEET)

7/21/2022 5/26/2022

LIMITS OF DISTURBANCE BY PROPERTY:

ACRES DISTURBED

TOTAL DISTURBED AREA: 28.99 ACRES

10.32 ACRES 13.06 ACRES PAD DISTURBED AREA STOCKPILE DISTURBED AREA

EARTH WORK SUMMARY

WELL PAD AND ACCESS ROAD EARTHWORK

143 000 CY TOTAL FILL

WASTE AREA & TOPSOIL EARTHWORK

OTAL CUT 500 CY 110,750 CY TOTAL FILL

TOTAL TOPSOIL. 23,250 CY

DRIVING DIRECTIONS

HEAD NORTH ON FORT PIERPONT DR, 0.3 MILES TURN RIGHT ONTO N PIERPONT RD, 482 FEET

TURN RIGHT ONTO CHEAT RD, 0.8 MILES TURN LEFT TO MERGE ONTO I-68 W TOWARD I-79,0.5 MILES

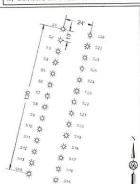
MERGE ONTO 1-68 W. 6.1 MILES TAKE THE EXIT ONTO 1-79 N TOWARD WASHINGTON, 26.0 MILES

TAKE THE EXIT 14 FOR PA 21 TOWARD MASONTOWN WAYNESBURG, 0.4 MILES TURN RIGHT ON PA-21 W, 26.0 MILES

CONTINUE ONTO WV-891, 2,3 MILES

TURN LEFT ONTO US-250 SOUTH, 7.2 MILES TURN RIGHT ONTO FISH RIDGE ROAD, 0.7 MILES

12) CONTINUE ONTO REID RIDGE ROAD, 0.2 MILES





MISS UTILITY OF WEST VIRGINIA WEST VIRGINIA STATE LAW WEST VINGINA STATE COW (SECTION XIV. CHAPTER 23-C) REQUIRES THAT YOU CALL TWO BUSINESS DAYS BEFORE YOU DIG IN THE STATE OF WEST VIRGINIA. IT'S THE LAW!!!



WY DEP COMMENTS ADDRESSE WV DOH COMMENTS ADDRESSED DATE DESCRIPTION

Southwestern Energy



PREPARED BY



2361 DAVISSON RUN ROAD CLARKSBURG, WV 26301 WWW.ASCENTCONSULTINGENGINEERS.COM

ROJECT NUMBER 2257 KWA **EMS** 07/21/2022

AS SHOWN MRN CONSTRUCTION PLANS FOR SWN PRODUCTION COMPANY, LLC

SONIA R WELL PAD CAMERON MARSHALL COUNTY, WV

COVER SHEET

APPROVED FOR CONSTRUCTION

EXTEND AND REPLACE EXISTING CULVERT - CONTRACTOR TO VERIFY & USE SAME SHE CULVERT (INCLUDES ALL TRENCHREPAIR DETAIL ON SHEET S3) LF

EXTEND AND REPLACE EXISTING CULVERT - CONTRACTOR TO VERIFY & USE SAME SHE CULVERT (INCLUDES ALL TRENCHREPAIR DETAIL ON SHEET S3) LF SOIL DRYING AGENT