

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

Thursday, October 17, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for MICHAEL SOUTHWORTH MSH 410H 47-051-02523-00-00

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.

James A. Martin Chief

Operator's Well Number: MICHAEL SOUTHWORTH ME Farm Name: BARRY A. & KIMBERLY S. I U.S. WELL NUMBER: 47-051-02523-00-00 Horizontal 6A New Drill Date Issued: 10/17/2024

Promoting a healthy environment.

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.



4705102523 API NO. 47-051

WW-6B (04/15)

OPERATOR WELL NO. Michael Southworth MSH 410H Well Pad Name: Michael Southworth MSH Pad

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

1) Well Operato	or: SWN Produ	uction Co.,	, LLC	494512924	051-Mar	shal 6-Sar	dhi 648-Valley Grove
				Operator ID	County	Distri	
2) Operator's W	Vell Number: Mid	chael Southv	vorth M	SH 410H Well F	ad Name: <u>N</u>	/lichael Sou	thworth MSH Pad
3) Farm Name/	Surface Owner:	Barry A. & Kir	nberly S	. Litman Public R	oad Access:	Walnut Gr	ove Road
4) Elevation, cu	irrent ground:	1271'	E	levation, propose	d post-const	ruction: 12	71'
5) Well Type	(a) Gas X		Oil	Ur	derground S	Storage	
	Other						
	(b)If Gas Sha	llow <u>x</u>		Deep			
		rizontal <u>x</u>	р. Т				
	: Yes or No Ye				-		
				cipated Thicknes TVD- 6507', Target Base			(S): 52', Associated Pressure- 4263
3) Proposed To	tal Vertical Dept	h: 6539'		1			
	Total Vertical I		rcellu	s			
10) Proposed T	otal Measured D	epth: 14	763'	1			
1) Proposed H	lorizontal Leg Le	ength: 60	90.59'	1			
12) Approxima	te Fresh Water S	trata Depth	ns:	632'			
13) Method to 1	Determine Fresh	Water Dep	oths:	Nearby watwe	vell (Edith F	olmar)	
14) Approxima	te Saltwater Dep	ths: 1403	' Salin	ity Profile on BW	Edge pad	1	
15) Approxima	te Coal Seam De	epths: 734					
16) Approxima	te Depth to Poss	ible Void (coal m	ine, karst, other)	None that	t we are aw	are of. BECEIVED
							Office of Oil and Gas
	osed well location			Yes X		No	SEP 16 2024
(a) If Yes, pro	ovide Mine Info:	Name:	Ohic	County Mine			WV Department of Environmental Protection
		Depth:	734'				
		Seam:	Pitts	burgh			
		Owner:	Ohic	County Coal R	lesources/A	CNR Inc.	1
							ler Gower 10/2024

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API NO. 47-70510 5 1 0 2 5

OPERATOR WELL NO. Michael Southworth MSH 410H

Well Pad Name: Michael Southworth MSH Pad

23

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	<u>Grade</u>	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	CEMENT: <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	136'	136'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	764'	764' /	879 sx/CTS
Coal	See	Surface	Casing		1		1
Intermediate	9 5/8"	New	J-55	36#	2011'	2011' /	773 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	14763'	14763'	Tail 2564sx/ 100' Inside Intermediate
Tubing		1.11					
Liners					/		

ТҮРЕ	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.330	1730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.352	3520	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/10-15% Excess
Tubing							
Liners							

RECEIVED Office of Oil and Gas

PACKERS

SEP 16 2024

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

Strader Gower 9/10/2024

> Page 2 of 3 10/18/2024

OPERATOR WELL NO. Michael Southworth MSH 410H Well Pad Name: Michael Southworth MSH Pad

API NO. 47- 051

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): 16.88

22) Area to be disturbed for well pad only, less access road (acres): 9.67

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.

SEP 16 2024

WV Department of Environmental Protection

*Note: Attach additional sheets as needed.

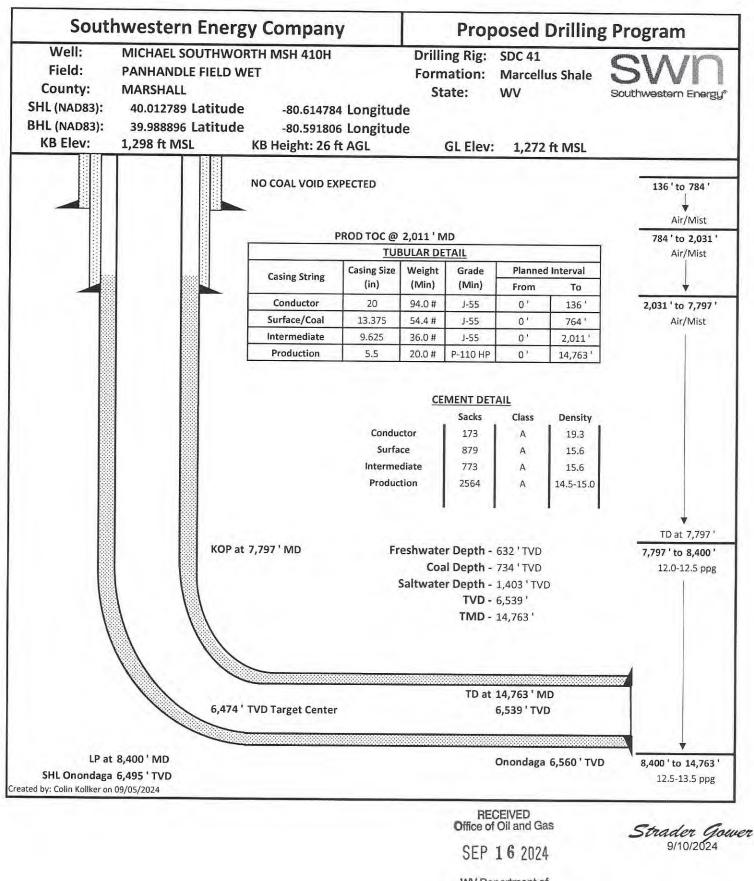
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			CEMENT	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	\times	INTEGRA SEAL	CJe00	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	\succ	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
40.10 3%	S001	A-7P	CJIIO	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L	\times	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	$>\!$	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	\times	\times	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETAR
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	\succ	\succ	CJIII	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	$>\!\!<$	55-IIVV	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	DO47	FP 28L	\times	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	\succ	\succ	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	\succ	\succ	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	\ge	\times	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	\succ	\succ	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
PRODUCTION	\leq	FL-66	0501	LOW TEMP FLUID	POWDERED POLYSACCHARIDE	PROPRIETARY
	\sim	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	\times	VISCOSI FIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3	\searrow	CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	
-	UUUAN		00100	CENENT RETARDER	SODIUM	57-50-1
	D065	\times	\times	DISPERSANT	POLYNAPHTHALENE SULFONATE	8068-51-6
	D800	\times	X	CEMENT RETARDER (Mid-Temperature)	SODIUM	8061-51-6

Office of Oil and Gas

SEP 16 2024

WV Department of Environmental Protection



WV Department of Environmental Protection

WW-9	4705102523
(4/16)	API Number 47 - 051 - Operator's Well No. Michael Southworth MSH 410H
STATE OF V	WEST VIRGINIA
	IRONMENTAL PROTECTION F OIL AND GAS
FLUIDS/ CUTTINGS DISPO	OSAL & RECLAMATION PLAN
Operator Name SWN Production Co., LLC	OP Code _494512924
Watershed (HUC 10) Grandstaff Run of Wheeling Creek	Quadrangle Valley Grove
Do you anticipate using more than 5,000 bbls of water to compl	ete the proposed well work? Yes 🔽 No 📃
Will a pit be used? Yes No 🗸	
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	
Reuse (at API Number_At the next antic Off Site Disposal (Supply form WW	
 Off Site Disposal (Supply form w w Other (Explain recovery and solidifica 	
Will closed loop system be used? If so, describe: Yes- See Atta	achment 3A
Drilling medium anticipated for this well (vertical and horizonta	Il)? 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. Syn	nthetic Oil Base
Additives to be used in drilling medium? Attachment 3B	
Drill cuttings disposal method? Leave in pit, landfill, removed of	offsite, etc. landfill
-If left in pit and plan to solidify what medium will be u	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 Landill Ub-U8438, Brooke Co SW Permittee shall provide written notice to the Office of Oil and G	as of any load of drill cuttings or associated waste rejected at any
	within 24 hours of rejection and the permittee shall also disclose
Toutestatest	
	onditions of the GENERAL WATER POLLUTION PERMIT issued ginia 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.	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 tru	ue, accurate, and complete. I am aware thaREGEVED significan
penalties for submitting false information, including the possibil	
Company Official Signature	SEP 16 2024
Company Official (Typed Name) Brittany Woody	WV Department of
Company Official Title_Staff Regulatory Specialist	Environmental Protection

Subscribed and sworn before me this 27 day of March	Official Seal 2027 Notary Public, State Of West Virginia
My commission expires (123/2024	Notary Pulitie Karaka Kara
wy commission expires (0/10) 10 00 /	10/18/2024

Form WW-9

Operator's Well No. Michael Southworth MSH 410H

SWN Production Co., LLC

Fertilizer type 10	-20-20			
Fertilizer amount_	600/500	lbs/acre		
Mulch Hay/Stra	aw	Tons/acre		
		Seed Mixtures		
Т	emporary		Perma	nent
Seed Type	lbs/acre		Seed Type	lbs/acre
achment 3C				

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: STRADOR Gouth Stip Course	
Comments:	
	RECEIVED Office of Oil and Gas
	SEP 16 2024
Title: Oil & Gas Inspector Date: 4 12 2024	WV Department of Environmental Protection
Field Reviewed?	

MARCELLUS WELL DRILLING PROCEDURES AND 4705102523 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: Michael Southworth MSH 410H Valley Grove QUAD Sandhill DISTRICT MARSHALL COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody Suttany Moody

Date: 3/25/2024

Title: Staff Regulatory Specialist SWN Production Co., LLC

Approved by:

Name: STRADER GOUGE Date: 4/17/2024

Title: Dil dGAS Inspector

Approved by:

Name:_____

Date:

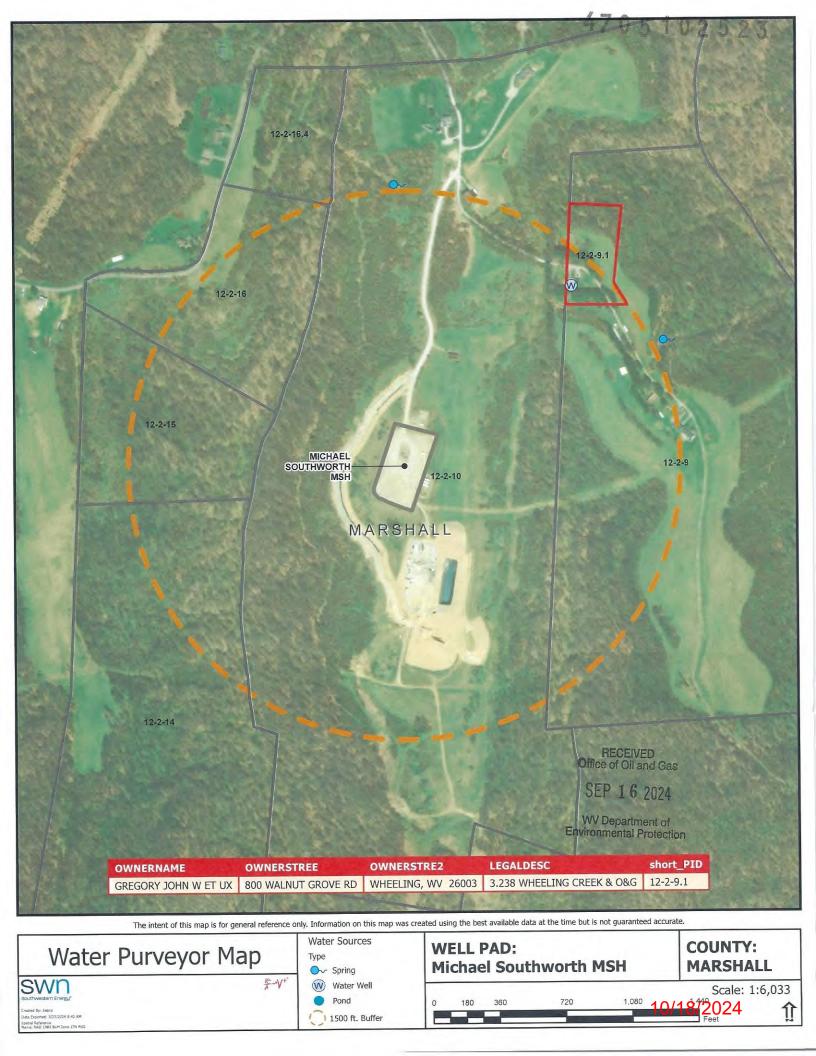
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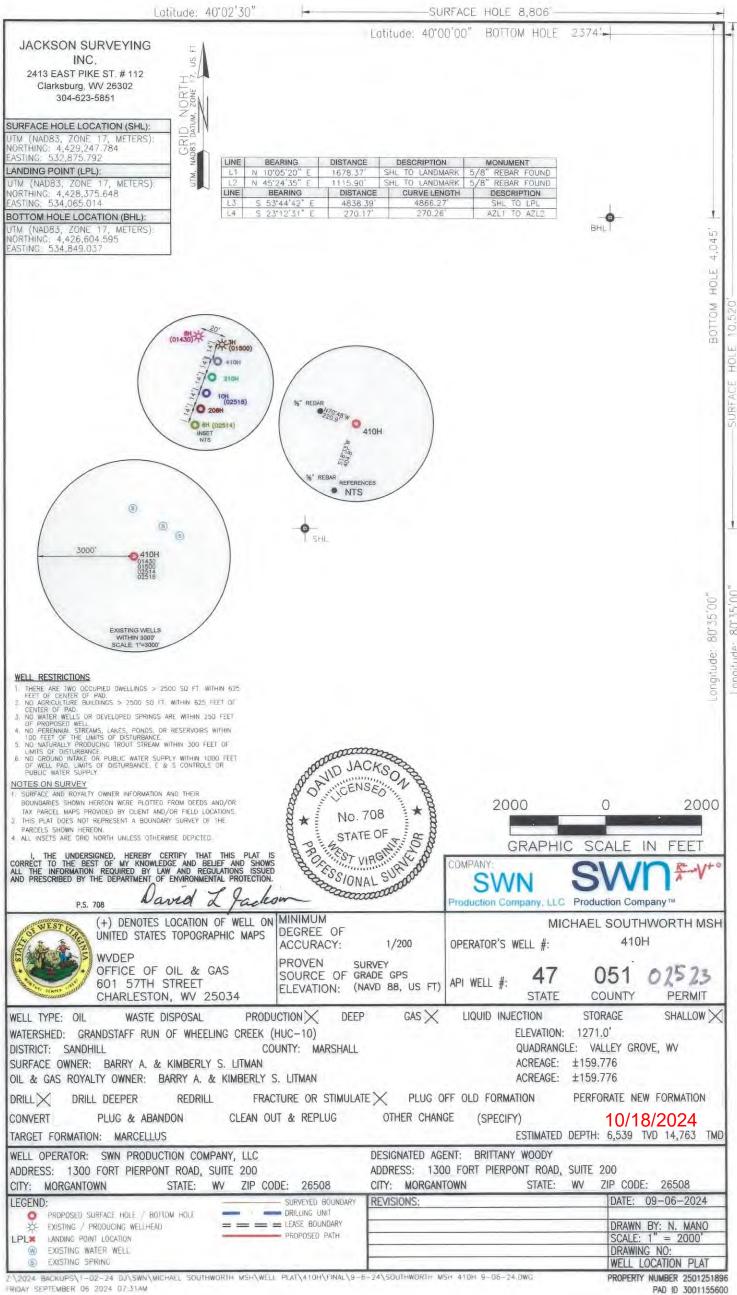
SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL

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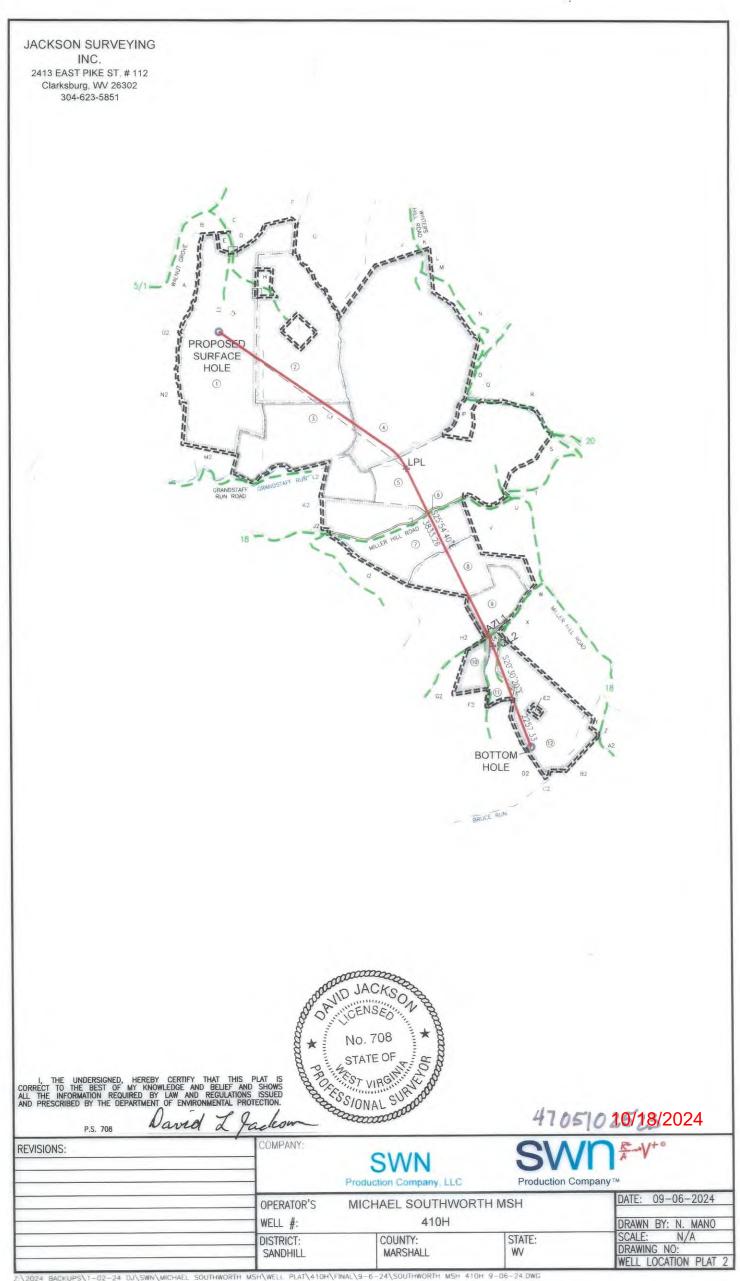
SEP 16 2024

WV Department of Environmental Protection





PAD ID 3001155600



Z:\2024 BACKUPS\1-02-24 DJ\SWN\MICHAEL SOUTHWORTH FRIDAY SEPTEMBER 06 2024 07:32AM

JACKSON SURVEYING

INC. 2413 EAST PIKE ST. # 112 Clarksburg, WV 26302 304-623-5851

TRACT	ADJOINING OWNERS TABLE	TAX PARCEL
TRACT	SURFACE OWNER	
A	EDGE WILLIAM F JR - TOD ET AL	12-2-16
В	LITMAN JAMES M & LUCY A	12-2-16.1
C	VELLENOWETH SCOTT U ET UX	12-2-1,1
D	LITMAN BARRY A	12-2-10.2
E	RADCLIFFE JOHN D & ANNA M	12-2-10.1
F	BLATT THERESA L	12-2-23
G	BAIRD FAMILY TRUST	12-2-2
н	GREGORY JOHN W ET UX	12-2-9.1
1	REINEKE RICHARD S	12-2-9.2
J	MCFARLAND DANIEL W & VICKI L	12-2-24
ĸ	MCFARLAND DANIEL W JR	12-2-4.1
L	HUNTER RODNEY J	12-3-14
M	HUNTER MARILYN DARLENE	12-3-14.2
N	MCFARLAND BRIAN MATTHEW	12-3-12.1
0	GANTZER GREGORY	12-3-12
P	PARKER PETER	12-2-6
Q	GANTZER GREGORY	12-3-11.1
R	MCVICKER R G JR	12-3-11
S	TOTH JOHN J SR & ALICE J REVOCABLE TRUST	12-8-11
T	TOTH JOHN J SR & ALICE J REVOCABLE TRUST	12-8-12
U	GODDARD THERESA M	12-8-9
V	GODDARD THERESA M	12-8-8
W	SCHULTZ CHARLES E & CLAUDIA M - TOD	12-8-29.1
x	SCHULTZ CHARLES E & CLAUDIA M - TOD	12-8-29
Y	FONNER TRAVIS R & STACEY L	12-8-26
Z	STORCH LOIS M	12-8-25
A2	WILSON TERRY WAYNE	12-8-24
B2	STORCH JOSEPH WILLIAM ET UX	12-11-12
C2	STORCH JOSEPH WILLIAM ET UX	12-11-7
D2	WINTERS BEVERLY DIANE	12-11-6
E2	KENT PERRY L	12-8-30.1
F2	WINTERS BEVERLY DIANE	12-8-31.2
G2	TOLAND MARGARET	12-8-32
H2	TOLAND CARRIE M	12-8-33.1
12	RICHEY RANDY ET UX	12-8-35
12	TOTHJOHN J SR & ALICE - TRUST	12-8-4.1
KZ KZ	PORTER CARLAS	12-9-13
12	GEPCORP	12-2-7
	G F P CORP	12-2-12
M2 N2	WV BRIGHTMONT LLC	12-2-12
		12-2-14
02	EDGE WILLIAM F JR - TOD ET AL	12-2-15

*Highlighted Parcels may be impacted during drilling.

	WELL BORE TRACTS	
TRACT	SURFACE OWNER (5) / ROYALTY OWNER (R)	TAX PARCEL
1	LITMAN BARRY A & KIMBERLY S (S/R)	12-2-10
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	REINEKE RICHARD S (S)	12-2-9
3	TDL&G LLC (S)	12-2-8
4	TUBAUGH NORMA HUNTER ET AL (S)	12-2-5
5	TOTH JOHN J SR & ALICE J REVOCABLE TRUST (S)	12-8-1
6	W VA DEPT OF HIGHWAYS (S)	Miller Hill Rd
7	TOTH JOHN J SR & ALICE - TRUST (S)	12-8-4
8	CORNELL SALLY SEIBERT & ROBERT (S)	12-8-5
9	SCHULTZ CHARLES E & CLAUDIA M - TOD (S)	12-8-6
10	JOHNSON LONI M & JAMES A (5)	12-8-31.1
11	ALAMINSKI LUCINDA RUTH (S)	12-8-31.3
12	GRAY ZANDE C (S)	12-8-30

			47	05110/18/2024
REVISIONS:	COMPANY:	SWN Production Company, LLC	SN Production C	//n ^g ^m ^m ^m
	OPERATOR'S WELL #:	MICHAEL SOUTHWORT 410H	TH MSH	DATE: 09-06-2024 DRAWN BY: N. MANO
	DISTRICT: SANDHILL	COUNTY: MARSHALL	STATE: WV	SCALE: N/A DRAWING NO: WELL LOCATION PLAT

Z:\2024 BACKUPS\1-02-24 DJ\SWN\1 FRIDAY SEPTEMBER 06 2024 07:32AM

Operator's Well No. MICHAEL SOUTHWORTH MSH 410H

WW-6A1 (5/13)

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:

Number Grantor, Lessor, etc. Grantee, Lessee, etc. Royary Book	Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
--	--------	-----------------------	-----------------------	---------	-----------

See Exhibit "A"

*Potentially Impacted Parcels - Parcels that may be impacted during drilling.

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

RECEIVED Office of Oil and Gas

SEP 16 2024

WV Department of

Environmental Protection

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

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

Well Operator:	SWN Production Company, LLC			
By:	Andrew M. Smith	anha M. Suits	_	
Its:	Landman			

Page 1 of 5

Attached to 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	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
1	12-2-10	728963/005	Salvation Army	Chesapeake Appalachia, L.L.C.	18.00%	723/10	0.00%
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		27/166	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		725102/001	Robert B. Elliott, a married man dealing in his sole and separate	Chesapeake Appalachia, L.L.C.	12.50%	676/179	0.00%
	property Chesapeake Appalachia, L.L.C. 728963/001 Mable L. Riggle, a widow Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C.		SWN Production Company, LLC		33/110		
		Mable L. Riggle, a widow	Chesapeake Appalachia, L.L.C.	18.00%	722/602	0.00%	
		Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		25/582		
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		728963/003	Gregory Williams, single man	Chesapeake Appalachia, L.L.C.	18.00%	723/376	0.00%
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		27/166	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		728963/002	Elm Grove United Methodist Church	Chesapeake Appalachia, L.L.C.	18.00%	722/606	0.00%
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		27/166	
			Chesapeake Appalachia, LL.C.	SWN Production Company, LLC		33/110	

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SEP 16 2024

WV Department of Environmental Protection

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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		728963/004		Chesapeake Appalachia, L.L.C.	18.00%	723/382	0.00%
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		27/166	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
12	12-2-9	724960/000	Richard S. Reineke and Charlene R. Reineke, his wife	Chesapeake Appalachia, L.L.C.	18.00%	676/341	0.00%
		Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties Inc.		21/565		
		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	_
/	12-2-8	730186/000	John W. Gregory and Donna R. Gregory, his wife	Great Lakes Energy Partners, L.L.C.	12.50%	653/367	0.00%
3			Great Lakes Energy Partners, L.L.C.	Range Resources - Appalachia, LLC		19/443	
			Range Resources - Appalachia, LLC	Chesapeake Appalachia, L.L.C.		23/368	
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		24/363	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
	12.25	724871/000	Norma Tubaugh, wife, Dawnisa Tubaugh, daughter, Clarence W.	Chesapeake Appalachia, L.L.C.	12.50%	673/538	0.00%
14	12-2-5	/246/1/000	Tubaugh, son, and Gary W. Glessner, grandson Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties Inc.		675/279	

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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
		1	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
-5	12-8-1	Pending	Sandhill Land Ventures, LP	SWN Production Company, LLC	18.00%	1178/52	0.00%
6	Miller Hill Road	Pending	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20.00%	1187/293	0.00%
7	12-8-4	727778/000	John Joseph Toth, Sr., a/k/a John J. Toth Sr. and Alice Joann Toth, husband and wife	Chesapeake Appalachia, L.L.C.	18,75%	710/390	0.00%
ć			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
8	12-8-5	732584/000	Sally Seibert Cornell and Robert Cornell, her husband	NPAR, LLC	18.75%	700/464	0.00%
		NPAR, LLC	Chesapeake Appalachia, L.L.C. and Statoil USA Onshore Properties Inc.		25/637		
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
/9	12-8-6	Pending	Charles E. Schultz and Claudia M. Schultz, husband and wife	SWN Production Company, LLC	18.00%	1183/79	0.00%
/10	12-8-31.1	745245/000	Shelley Klamut f/k/a Shelley Edge and f/k/a Shelly Edge and Nicholas P. Klamut, her husband	SWN Production Company, LLC	18.00%	875/469	0.00%
/11	12-8-31.3	751394/000	Bounty Minerals, LLC	TH Exploration, LLC	18.00%	965/301	0.00%
			TH Exploration, LLC	American Petroleum Partners Operating, LLC		43/497	
			American Petroleum Partners Operating, LLC	High Road Operating, LLC		44/254	
			High Road Operating, LLC	SWN Production Company, LLC		48/263	

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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
/12	12-8-30	Pending	Zande Claude Gray	SWN Production Company, LLC	18.00%	1162/24	0.00%
		751375/001	Howard Lynn Kernan, single	American Petroleum Partners Operating, LLC	19.00%	934/295	0.00%
	American Petroleum Partners Operating, LLC	American Petroleum Partners Operating, LLC			44/254		
		High Road Operating, LLC	SWN Production Company, LLC		48/263		
/ D2	12-11-6	750019/000	Beverly Diane Winters	American Petroleum Partners	18.00%	910/27	0.00%
			American Petroleum Partners Operating, LLC	Operating, LLC SWN Production Company, LLC			

*Potentially Impacted Parcel - Parcel that may be impacted during dril

End of Exhibit "A"

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WV Department of Environmental Protection



47 0 5 1 0 2 5 2 3 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 9, 2024

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

RE: SWN's proposed New Well: Michael Southworth MSH 410H in Marshall County, West Virginia, Drilling under Walnut Grove Road, Miller Hill Road, Pappy Lane, and Haven Lane.

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 Walnut Grove Road, Miller Hill Road, Pappy Lane, and Haven Lane. 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,

Anhe M. Suit

Andrew M. Smith, RPL Landman SWN Production Company, LLC

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SEP 16 2024

WV Department of Environmental Protection

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

WW-PN (11 - 18 - 2015)

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

Notice is hereby given:

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 advertisement.

Paper: Moundsville Daily Echo

Public Notice Date: March 24, 2024 & April 4, 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.

Well Number: Michael Southworth MSH 410H Applicant: SWN Production Company, LLC

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Business Conducted: Natural gas production.

Location -

Stata:	West Virginia		County:	Marshall	
State: District:	Sandhill		Quadrangle:	Valley Grove	_
	ordinate NAD83 Northing:	4,429,248 -			-
	rdinate NAD83 Easting:	532,876			
Watershee		Creek			_

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit Office of Oil and Gas http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up. SEP 16 2024

Reviewing Applications:

WV Department of

RECEIVED

Copies of the proposed permit application may be reviewed at the WV Department of Environmental 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 <u>DEP.comments@wv.gov</u>.

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

WW-6AC (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: _

API No. 47- 051	-
Operator's Well No	Michael Southworth MSH 410H
Well Pad Name: M	lichael Southworth MSH Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	UTM NAD 83	Easting:	532,875.792	
County:	051-Marshall	UTM NAD 83	Northing:	4,429,247.784	
District:	Sandhill	Public Road Acc	cess:	Walnut Grove Road	
Quadrangle:	Valley Grove	Generally used farm name:		Michael Southworth MSH	
Watershed:	Grandstaff Run of Wheeling Creek				

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 by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator that the Operator has properly served the required par *PLEASE CHECK ALL THAT APPLY	or has attached proof to this Notice Certification ties with the following:	OOG OFFICE USE ONLY
	NOTICE NOT REQUIRED BECAUSE NO ISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
■ 2. NOTICE OF ENTRY FOR PLAT SURVEY	or 🔲 NO PLAT SURVEY WAS CONDUCTED	□ RECEIVED
	NOTICE NOT REQUIRED BECAUSE TICE OF ENTRY FOR PLAT SURVEY AS CONDUCTED or	RECEIVED/ NOT REQUIRED
	WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION		□ RECEIVED
5. PUBLIC NOTICE	RECEIVED Office of Oil and Gas	RECEIVED
■ 6. NOTICE OF APPLICATION	SEP 16 2024	□ RECEIVED
	WV Department of Environmental Protection	

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:

, have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I Brittany Woody 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	Address:	1300 Fort Pierpont Dr., Suite 201
By:	Brittany Woody		Morgantown, WV 26508
Its:	Staff Regulatory Specialist	Facsimile:	304-884-1690
Telephone:	304-884-1610	Email:	Brittany_Woody@swn.com
	Notary Public, State Of West Virginia Elizabath Blankonship 941 Simpson Run Road Western WU 98659	ribed and swo www.	rn before me this 27 day of <u>March 7034</u> . <u>Manuality</u> Notary Public xpires <u>4337034</u>

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 Oil and Gas

4705102523

SEP 16 2024

WV Department of Environmental Protection

47.05102523

API NO. 47-051 -OPERATOR WELL NO. Michael Southworth MSH 410H Well Pad Name: Michael Southworth MSH Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

	e of Notice: 9/12 ice of:	Z Date Permit Applica	tion Filed: <u>9</u>
	PERMIT FOR AN WELL WORK		CATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT
Deli	very method pursu	ant to West Virginia C	ode § 22-6A-10(b)
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located: (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s) Name: Barry A. Litman & Kimberly S. Litman	COAL OWNER OR LESSEE	
Address: 202 Elliots Lane	Address: 46226 National Road	
Wheeling, WV 26003	St. Clairsville, OH 43950	
Name:Address:	COAL OPERATOR Name: Address:	RECEIVED Office of Oil and Gas
SURFACE OWNER(s) (Road and/or Other Disturbance)		- SEP 16 2024
Name:	SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Name: See Attachment 13A	WV Department of Environmental Protection
Name:	Address:	
Address:	OPERATOR OF ANY NATURAL GAS ST	FORAGE FIELD
USURFACE OWNER(s) (Impoundments or Pits)	Name:	
Name:	Address:	
Address:	*Please attach additional forms if necessary	

10/18/2024

WW-6A (9-13)

APINO.4 OPERATOR WELL NO. Michael Southworth MSH 410 Well Pad Name: Michael Southworth MSH Pad

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.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oiland-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W, Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing 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



OPERATOR WELL NO. MIRINAEL SOUTHWORK MISTIA 10H Well Pad Name: Michael Southworth MSH Pad

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: RECEIVED

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

Office of Oil and Gas

SEP 1 6 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.

APINO. 47-05102523

OPERATOR WELL NO. Michael Southworth MSH 410H Well Pad Name: Michael Southworth MSH Pad

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-

<u>Permits/Pages/default.aspx</u> 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

SEP 16 2024

WV Department of Environmental Protection

3 API NO. OPERATOR WELL NO. Michael Southworth MSH 410H

Well Pad Name: Michael Southworth MSH Pad

Notice is hereby given by:

Felephone:	304-884-1610	0.	1110001.	1 has	du
Email: Brittan	304-884-1610 ny_Woody@swn.	com	tttulu	XVU	My

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.

lanosa	Official Seal Notary Public, State Of West Virginia	Subscri
20021024024	Elizabeth Blankenship 941 Simpson Run Road Weston WV 26452	4
	My commission expires June 23, 2024	My Co

Subscribed and sworn before me this <u>27</u> day of <u>M</u>	wich 2024.
Clisalith Hankenslo	Notary Public
My Commission Expires 673/2024	

RECEIVED Office of Oil and Gas

SEP 16 2024

WV Department of Environmental Protection

WW-6A3 (1/12)

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry
Date of Notice: 3/1/2024
Date of Planned Entry: 3/8/2024

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL	REGISTER	D METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: James & Carol Litman	Name: ACNR Inc
Address: 1224 Walnut Grove Road	Address: 46226 National Road
Wheeling, WV 26003	St. Clairsville, OH 43950
Name:	The second a number of the
Address:	MINERAL OWNER(s)
	Name: Robert B . Elliott
Name:	Address: 1081 West Alexander Road
Address:	Valley Grove, WV 26060
	*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	West Virginia	Approx. Latitude & Longitude:	40.019920, -80.615190	
County:	Marshall	Public Road Access:	Walnut Grove	
District:	Sandhill	Watershed:	Grandstaff Run of Wheeling Creek	
Quadrangle:	Valley Grove	Generally used farm name:	Michael Southworth MSH	_

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Email:	Brittany_Woody@swn.com	Facsimile:	304-884-1690	WV Department of Environmental Protection
Telephone:	304-884-1610		Morgantown, WV 26508	SEP 16 2024
소문은 것이 이 것 같은 것이 다니지 않는 것 ㅠㅠ	SWN PRODUCTION COMPANY, LLC	Address:	1300 Fort Pierpont Dr., Suite 201	0FD 1 6 0004
Notice is hereby given by:				RECEIVED Office of Oil and Gas

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 <u>depprivacyofficer@wv.gov</u>.



WW-6A3 (1/12)

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry Date of Planned Entry: 3/8/2024 Date of Notice: 3/1/2024

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

□ SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name:	Name:
Address:	Address:
Name:Address:	MINERAL OWNER(s)
Address.	Name: MAble L. Riggle
Name:	Address: 1284 Dry Ridge Road
Address:	Cameron, WV 26033
	*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	West Virginia	Approx. Latitude & Longitude:	40.019920, -80.615190	
	Marshall	Public Road Access:	Walnut Grove	
District:	Sandhill	Watershed:	Grandstaff Run of Wheeling Creek	
Quadrangle:	Valley Grove	Generally used farm name:	Michael Southworth MSH	

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by

Well Operator:	SWN PRODUCTION COMPANY, LLC	Address:	1300 Fort Pierpont Dr., Suite 201	Office of Oil and Gas	
Telephone:	304-884-1610		Morgantown, WV 26508	SEP 16 2024	
Email:	Brittany Woody@swn.com	Facsimile:	304-884-1690	021 10 2024	
Dinan.	Simally_roots)@	the second se		MALD	

WV Department of

RECEIVED

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.



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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry Date of Notice: 3/1/2024 Date of Planned Entry: 3/8/2024

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL	REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

□ SURFACE OWNER(s)	□ COAL OWNER OR LESSEE
Name:	Name:
Address:	Address:
Name:	
Address:	MINERAL OWNER(s)
	Name: Pikewood Energy Corporation
Name:	Address: 4000 Combs Farm Drive
Address:	Morgantown WV 26508
and a share of the second s	*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	West Virginia	Approx. Latitude & Longitude:	40.019920, -80.615190	
County:	Marshall	Public Road Access:	Walnut Grove	
District:	Sandhill	Watershed:	Grandstaff Run of Wheeling Creek	
Quadrangle:	Valley Grove	Generally used farm name:	Michael Southworth MSH	

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is here Well Operator:		Address:	1300 Fort Pierpont Dr., Suite 201 Morgantown, WV 26508	Office of Oil and Gas SEP 16 2024	
Telephone:	304-884-1610				
Email:	Brittany_Woody@swn.com	Facsimile:	304-884-1690		
Oil and Gas F	rivacy Notice			WV Department of Environmental Protection	

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.



WW-6A3 (1/12)

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry Date of Planned Entry: 3/8/2024 Date of Notice: 3/1/2024

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

□ SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name:	Name:
Address:	Address:
Name:	MINERAL OWNER(s)
Address:	Name: Gregory Williams
Name:	Address: 11317 Simpson Ave
Address:	Milford, DE 19963
	*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	West Virginia Approx. Latitude & Longitude:		40.019920, -80.615190	
County:	Marshall	Public Road Access:	Walnut Grove	
District:	Sandhill	Watershea.	Grandstaff Run of Wheeling Creek	
Quadrangle:	Valley Grove		Michael Southworth MSH	
×				

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is here		Address:	1300 Fort Pierpont Dr., Suite 201	RECEIVED Office of Oil and Gas
Well Operator:	SWN PRODUCTION COMPANY, LLC	Address.	1300 FOR FIEIDONE DE, Suite 201	0==
Telephone: 304-884-1610			Morgantown, WV 26508	SEP 16 2024
Email:	Brittany Woody@swn.com	Facsimile:	304-884-1690	
Eman.	Bittany_woody@switcom			WV Department of Environmental Protection

Oil and Gas Privacy Notice:

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WW-6A3 (1/12)

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry Date of Planned Entry: 3/8/2024 Date of Notice: 3/1/2024

Delivery method pursuant to West Virginia Code § 22-6A-10a

PERSONAL	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name:	Name:
Address:	Address:
Name:	
Address:	MINERAL OWNER(s)
	Name: Elm Grove United Methodist Church
Name:	Address: 125 Kruger St
Address:	Wheeling WV 26003
	*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	West Virginia	Approx. Latitude & Longitude:	40.019920, -80.615190	-
County: District: Quadrangle:	Marshall	Public Road Access:	Walnut Grove	
	Sandhill	Watershed.	Grandstaff Run of Wheeling Creek	2
	Valley Grove		Michael Southworth MSH	-

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is here Well Operator:	by given by: SWN PRODUCTION COMPANY, LLC	Address:	1300 Fort Pierpont Dr., Suite 201	RECEIVED Office of Oil and Gas
Telephone: 304-884-1610			Morgantown, VVV 26508	SEP 16 2024
Email: Brittany_Woody@swn.com		Facsimile:	304-884-1690	
				WV Department of Environmental Protection

Oil and Gas Privacy Notice:

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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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 03/26/2024 Date Permit Application Filed: 09/12/2024

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided*, *however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Baryr A. Litman & Kimberly S. Litman	Name:
Address: 202 Elliotts Lane	Address:
Wheeling WV 26003	

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	WV	UTM NAD 83	Easting:	532,875.792	
County:	Marshall	UTMINAD 85	Northing:	4,429,247.784	
District:	Sandhill	Public Road Ac	cess:	Walnut Grove	
Quadrangle:	Valley Grove, WV	Generally used t	farm name:	Michael Southworth	
Watershed:	Grandstaff Run of Wheeling Creek	-			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Notice is hereby given by:

Well Operator:	SWN Production Company, LLC	Authorized Representative:	Bob Laine
Address:	1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
	Morgantown, WV 26508		Morgantown, WV 26508
Telephone:	570-575-6203	Telephone:	570-575-6203
Email:	bob_laine@swn.com	Email:	bob_laine@swn.com
Facsimile:		Facsimile:	

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 deprivacyofficer@wv.gov.



WW-6A5 (1/12)

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 03/26/2024 Date Permit Application Filed: 09/12/2024

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: ACNR Inc. Attn; Steve Bair	Name:	
Address: 46226 National Road	Address:	
St. Clairsville, Ohio 43950		

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	WV	UTM NAD 83	Easting:	532,875.792
County:	Marshall	UTWINAD 05	Northing:	4,429,247.784
District:	Sandhill	Public Road Acc	cess:	Walnut Grove
Quadrangle:	Valley Grove, WV	Generally used f	arm name:	Michael Southworth
Watershed [.]	Grandstaff Run of Wheeling Creek			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	SWN Production Company, LLC	Address:	1300 Fort Pierpont Dr., Suite 201
Telephone:	570-575-6203		Morgantown, WV 26508
Email:	bob_laine@swn.com	Facsimile:	

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 <u>depprivacyofficer@wv.gov</u>.



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

May 3, 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 Michael Southworth Well Pad, Marshall County Michael Southworth MSH 410H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0026 which has been issued to SWN Production Company, LLC for access to the State Road for a well site located off Marshall County Route 5/1 SLS MP 0.193.

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

Lacy D. Pratt Central Office O&G Coordinator

RECEIVED Office of Oil and Gas

SEP 16 2024

WV Department of Environmental Protection

Cc: Brittany Woody SWN Production Company, LLC OM, D-6 File

E.E.O./AFFIRMATIVE ACTION EMPLOYER

Attachment VI Frac Additives

Product Name	Product Use	Chemical Name	CAS Number
HCL	Solvent	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
STI-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	111-87-5
		Triethyl phosphate	78-40-0
Earriplay 90	Iron Control	Sodium Erythorbate	6381-77-7
Ferriplex 80			55566-30-8
Tolicide 4Frac	Biocide	Tetrakis(Hydroxymethyl) Phosphonium Sulfate	
		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	7647-14-5
Plexaid 655NM	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
Plexald 655 NIVI	Scale inhibitor		7732-18-5
		Water	
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, Chlorides	68424-85-1
		Ethanol	64-17-5
			7732-18-5
		Water	107-21-1
StimSTREAM SC 398 CW	Scale Inhibitor	Ethylene glycol	
		CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-1000
		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
StimSTREAM FR 2800	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
JUIIJINLAWI FR 2000	inclori Neulicel	Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9
			7732-18-5
		Water	
StimSTREAM FR 9725	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium Chloride	12125-02-9
		Water	7732-18-5
StimSTREAM SC 398 C	Scale Inhibitor	CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-1000
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-1000
		Water	7732-18-5

As of 7/5/2023

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SEP 16 2024

WV Department of Environmental Protection 10/18/2024 WW-6A7 (6-12)

OPERATOR:	SWN Production Co., LLC	WELL NO: Michael Southv	vorth MSH 410H
PAD NAME:_	Michael Southworth MSH Pad		
REVIEWED BY:		_ SIGNATURE: BUHOM	Moody
	WELL RESTRICTI	ONS CHECKLIST	
	HORIZONTA	L 6A WELL	
Well Restric	ctions *	* Pad Built 2/11/2011	
	At Least 100 Feet from Pad and LOD (Perennial Stream, Lake, Pond, Reservo		ure) 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 Featu	ure) to any
	DEP Waiver and Permit Conditi	ons	
	At Least 1000 Feet from Pad and LOD Groundwater Intake or Public Water Su		ture) to any
	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	itions	
	At Least 625 Feet from an Occupied Dy	welling Structure to Center of the	Pad; OR
	Surface Owner Waiver and Reco	orded with County Clerk, OR	
	DEP Variance and Permit Cond		
	At Least 625 Feet from Agricultural Bu of the Pad; OR		Feet to the Center
	Surface Owner Waiver and Reco	orded with County Clerk, OR	RECEIVED Office of Oil and Gas
	DEP Variance and Permit Cond	itions	SEP 16 2024

DEP Variance and Permit Conditions

WV Department of Environmental Protection

47.05102523

