

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

Tuesday, April 19, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359 SPRING, TX 773914954

Re: Permit approval for ROTH OHI 10H 47-069-00339-00-00

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: ROTH OHI 10H

Farm Name: ROTH FARMS, LLC

U.S. WELL NUMBER: 47-069-00339-00-00

Horizontal 6A New Drill Date Issued: 4/19/2022

API Number:	
API Number: _	

PERMIT CONDITIONS 4706900339

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

- 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. 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.

API Number:

PERMIT CONDITIONS

4706900339

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.

API NO. 4/40/7 0-69 0 0 3 3 9 OPERATOR WELL NO. Roth OHI 10H

Well Pad Name: Roth OHI

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

						_
1) Well Operator: SWN Produ	ction Co., LLC	494512924	069-Ohio	005-Rich	641-Tiltonsville	
		Operator ID	County	District	Quadrangle	
2) Operator's Well Number: Ro	th OHI 10H	Well Pac	d Name: Roth	OHI		
3) Farm Name/Surface Owner:	Roth Farms, LL	C Public Roa	ad Access: Cle	arview Ave	enue	
4) Elevation, current ground:	1004.0 EI	levation, proposed	post-constructi	ion: 1010'		
5) Well Type (a) Gas x	Oil	Und	erground Stora	ge		
Other						
\-	llow X	Deep				
	rizontal X					
6) Existing Pad: Yes or No No			- -			
 Proposed Target Formation(s Target Formation- Marcellus, Target), Depth(s), Antic Top TVD- 5611', Tar	cipated Thickness a get Base TVD- 5666', A	and Expected P Anticipated Thickn	'ressure(s): ess- 55', Assoc	ciated Pressure- 3683	
8) Proposed Total Vertical Dept	h: 5700'					
9) Formation at Total Vertical D		ja				
10) Proposed Total Measured D	57001					
11) Proposed Horizontal Leg Le	ength:					
12) Approximate Fresh Water S		452' (nearby we	ell)			
13) Method to Determine Fresh	Water Depths:	BOFW determined to be	minimum casing de	pth required by	DEP, no nearby water w	ells
14) Approximate Saltwater Dep		1321' TVD, & 151	l6' TVD- report	ed in nearb	y wells	
15) Approximate Coal Seam De						VD
16) Approximate Depth to Possi						
17) Does Proposed well location directly overlying or adjacent to	n contain coal sea) <u>X</u>		
(a) If Yes, provide Mine Info:	Name: Valle	ey Camp NO 1				
(a) If I cs, provide tyme into.		& 811'		RECEIVE	D nd Gas	
	•	burgh		APR 18	2022	
		ey Camp Coal			i	
				WV Departs	ment of Protection	

WW-6B (04/15) APINO. 47-4-706900339

OPERATOR WELL NO. Roth OHI 10H
Well Pad Name: Roth OHI

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (1b/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	126'	126'	CTS
Fresh Water	13 3/B"	ivev	H-40	48#	530'	530'	501 sx/OTG
Coal	See	Interm/Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1550'	1550'	693 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	5700'	5700'	Tail 300 and 1007 Inside informediate
Tubing							
Liners							

MAIC 3/8/2024

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.300	273û	633	Ciass A	1.20/30 % EXCESS
Coal	See	interm/surface	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							

PACKERS

WW-6	В
(10/14)

4706900339

API NO. 47- 009 OPERATOR WELL NO. Roth OHI 10H
Well Pad Name: Roth OHI

19) Describe proposed well work, including the drilling and plugging back of any pilot l	19) Describe proposed	l well work.	including the	drilling and	olugging t	back of any	pilot hole:
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The well will be drilled to a depth approximately 34' below the top of the Onondaga Formation to allow for open hole logging and confirming Marcellus interval formation characteristics. If casing is run, it will be run to total depth of the hole and cemented per regulatory requirements. If the well is determined to be dry and abandoned, it will be plugged per regulatory requirements for plugging and abandoning.

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 unites, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits. etc., (acres): 24.35
- 22) Area to be disturbed for well pad only, less access road (acres): 10.46

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:

*Note: Attach additional sheets as needed.

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.

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WV Department of

Environmental Protection

4706900339

			CEMENT	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Numbe
SURFACE (FRESHWATER)	> <	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	5001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	> <	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	5001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D047	FP 28L	><	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	> <	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
CemNet SUGAR S001	CemNet	> <	\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
	> <	> <	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	><	SS-11W	C1880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	\times	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	> <	> <	CJX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	><	> <	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETAR'
PRODUCTION	D255	\supset	\times	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETAR
			CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
		FL-66	CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETAR
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	\times	VISCOSIFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETAR
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1

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MAR 11 2022

WV Department of Environmental Protection

Proposed Drilling Program Southwestern Energy Company ROTH OHI 10 Re-entry Rig: TBD Well: Marcellus Shale Field: PANHANDLE FIELD WET Prospect: WV State: County: OHIO SHL: 40.1511 Latitude -80.6870 Longitude -80.6870 Longitude BHL: 40.1511 Latitude KB: 26 ft AGL GL Elev: 1,125 ft MSL 1.151 ft MSL KB Elev: NO COAL VOID ANTICIPATED 126' to 550' Air/Mist 550' to 1,570' PROD TOC Tail @ 3,800 ' MD Air/Mist TUBULAR DETAIL Planned Interval Casing Weight Casing String Grade (Min) Size (in) (Min) From To 0' 126' 1,570 ' to 5,000 ' Conductor 20 94.0# J-55 Air/Mist 0' 530' Surf/Coal 13.375 48.0# H-40 Inter/Coal 9.625 36.0# J-55 0' 1 550 Production 5.5 20.0# P-110 HP 0. 5,700 CEMENT DETAIL Sacks Class Density 19.3 Conductor: 151 Surface: 531 A 15.6 Intermediate: 15.6 693 A Production: 300 A 15.6-16.0 VIII 7 3 Freshwater Depth - 300', 452' TVD Coal Depth - 170', 811' TVD Saltwater Depth - 1119', 1321', 1516' TVD TVD - 5,700" TMD - 5,700 ' 5,000 'to 5,766 ' 12.0-12.5 ppg 5,652 ' Target Center Marcellus 5,625 'MD TD @ 5,700 ' 12.0-12.5 ppg Onondaga 5,666 'TVD Well TD 5,700 'TVD Created by: CR Hall on 03/07/2022

MAK 3/4/2022



4706900339 SWN Production Company, LLC 1300 Fort Plerpont Dr, Ste 201

9WN Production Company, LLC 1300 Fort Pierpont Dr, Ste 201 Morgantown, WV 26508 Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

March 7, 2022

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

RE: Proposed New Well: Roth OHI 10H

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 Roth's property, in Richland District, Ohio County, West Virginia.

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

Thank you.

Sincerely,

Brittany Woody

Brutany Woody

Senior Regulatory Analyst

Southwestern Energy Production Company, LLC

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MAR 1 1 2022

WV Department of Environmental Protection



API Number 47 - 069 Operator's Well No. Roth OHI 10H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC OP Code 494512924
Watershed (HUC 10) Upper Ohio- Wheeling Quadrangle Tiltonsville
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes Vo
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 V 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 next anticipiated 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. Ardell to KOP, fluid drill with SOBM Morn KOP to 17)
-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, etc. landfill
-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 06-08438, Brooke Co SWF-1013,
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 Status Woody MAR 1 1 2022
Company Official (Typed Name) Britainy Goody
Company Official Title Senior Regulatory Analyst WV Department of Environmental Protection
Subscribed and sworn before me this 17th day of February , 20 22
Notary Public Notary Public Official Control
My commission expires 3/1/2022 Notary Public Official Seal State of West Virginia My Comm. Expires Mar 1, 2022 749 Rich Popular Comm. Expires Mar 1, 2022

roposed Revegetation Treatment: Acres Disturbed	24.35	Prevegetation pH _	* *
Lime as determined by pH test min.2 Tons/acre or to cor			
Fertilizer type 10-20-20			
Fertilizer amount 600/500	lbs/acre		
Mulch Hay/Straw	Tons/acre		
	Seed Mixtures		
Temporary		Permaner	nt
Seed Type lbs/acre Attachment 3C		Seed Type	lbs/acre
tttdommont oo	-		
	_		
	-		
aps(s) of road, location, pit and proposed area for la	and application (unlessinclude dimensions (L	s engineered plans including x W x D) of the pit, and di	g this info have been
aps(s) of road, location, pit and proposed area for la ovided). If water from the pit will be land applied, it reage, of the land application area.	et.	x W x D) of the pit, and die	mensions (L x W), and area
laps(s) of road, location, pit and proposed area for la rovided). If water from the pit will be land applied, is creage, of the land application area. Introduced section of involved 7.5' topographic sheet and approved by:	et.	s engineered plans including x W x D) of the pit, and di	mensions (L x W), and area
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aps(s) of road, location, pit and proposed area for la ovided). If water from the pit will be land applied, i reage, of the land application area. notocopied section of involved 7.5' topographic sheet an Approved by:	et.	x W x D) of the pit, and die	RECEIVED
	et.	x W x D) of the pit, and die	RECEIVED Office of Oil and Ga

Attachment 3A

CLOSED LOOP SYSTEM

The closed loop system is designed to eliminate the use of reserve pits by providing a higher level of solids control processing and using steel pits for capture of drill cuttings. The cuttings are then processed to achieve landfill requirements before hauling to approved landfills. The liquids are processed to recycle into the active mud system or to transfer to onsite temporary storage as needed.

The closed loop system consists of several sets of a shale gas separator (often called a 'methana'), several banks of solids shakers, high speed centrifuges (1 or 2) used to process the fluid portion of the mud system to remove low gravity solids, low speed centrifuge used for barite recovery in high weight liquid drilling systems, a dewatering system (for air intervals and if freshwater mud systems are in use) used to further clean liquids by flocculation and additional mechanical separation, associated open top tanks for processing liquids and capturing solids for disposal, and transfer pumps to move fluids through the processes. There is an area adjacent to the cuttings tanks (Red Zone) where a track hole is utilized to recover the processed cuttings for loading into containers for hauloff. (See attached schematic of a generic closed loop system layout)

Below are discussions of the processes used when drilling the air interval or liquids interval.

AIR DRILLING INTERVALS

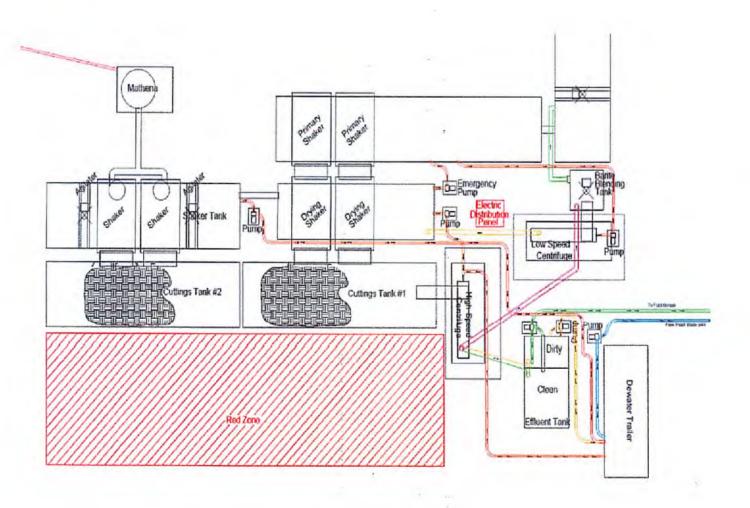
During air drilling operations, flow from the rig will pass down the flowline to the Shale Gas Separater (sometimes called a methane) where gas and liquids/solids are separated. Gas is sent to the flare scrubber tank and is flared at the flare stack. Solids and fluids pass across a shaker system to separate solids from liquids. Solids pass into the cuttings tanks where they are captured for drying and hauloff to an approved landfill site. Liquids fall into a shaker tank and are collected by a centrifugal pump to be processed by the high speed centrifuge to further separate liquids and solids. Solids are then dumped into the cuttings tank for drying and hauloff. Liquids are further processed to remove additional low gravity solids before being reused or transferred to onsite storage.

LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

When drilling is converted to liquids drilling, the shale gas separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached to the cutting are recovered out the tank and processed through the low gravity (high speed) and barite recovery centrifuges (low speed) to further remove low gravity solids and to recover barite for reuse in the mud systems.

Solids Control Layout







Attachment 3B

Drilling Mediums

Air Freshwater (if needed based on conditions) Intermediate/Coal (if present): Air Production Hole: Air Synthetic Oil (Base Fluid for mud system) Barite Calcium Chloride Lime Organophilic Bentonite Primary and Secondary Emulsifiers Gilsonite Calcium Carbonate

Friction Reducers

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MAR 11 2022

WV Department of Environmental Protection

Rev. 6/11/2018 04/22/2022



WVD Seeding Specification



To Order Seed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-269-5451 lyndsi_eddy@swn.com

50lbs per acre of Winter Wheat

(please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES		
Seed Mixture: ROW Mix	SWN	N Supplied
Orchardgrass	40%	
Timothy	15%	
Annual Ryegrass	15%	
Brown Top Millet	5%	
Red Top	5%	
Medium Red Clover	5%	All legumes are
White Clover	5%	innoculated at 5x normal
Birdsfoot Trefoil	5%	rate
Rough Bluegrass	5%	
Apply @ 100lbs per acre		Apply @ 200lbs per acre Oct. 15th- April 15th PLUS

SOIL AMENDMENTS	
10-20-20 Fertilizer	*Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre
	*unless otherwise dictated by soil test results

Seeding Calculation Information:

1452' of 30' ROW/LOD is One Acre 871' of 50' ROW/LOD is One Acre 622' of 70' ROW/LOD is One Acre

April 16th- Oct. 14th

Synopsis:

Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).

Special Considerations:

Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with SWN supervision at the beginning of the project to allow time for special seed delivery.

ORGANIC PROPERTIES					
Seed Mixture: SWN Production Organic Mix SWN Supplied					
Organic Timothy	50%				
Organic Red or White Clover	50%				
OR					
Organic Perennial Ryegrass	50%				
Organic Red or White Clover	50%				
Apply @ 100lbs per acre		Apply @ 200lbs per acre			
April 16th- Oct. 14th		Oct. 15th- April 15th			
Organic Fertilizer @ 200lbs per Acre		Pelletized Lime @ 2 Tons per Acre			

Seed Mixture: Wetland Mix	SWN Supplied	
VA Wild Ryegrass	20%	
Annual Ryegrass	20%	
Fowl Bluegrass	20%	4
Cosmos 'Sensation'	10%	-
Redtop	5%	0
Golden Tickseed	5%	0
Maryland Senna	5%	0
Showy Tickseed	5%	0
Fox Sedge	2.5%	
Soft Rush	2.5%	0
Woolgrass	2.5%	CN
Swamp Verbena	2.5%	CN
Apply @ 25lbs per acre	Apply @ 50lbs per acre	9
April 16th- Oct. 14th	Oct. 15th- April 15th	

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS



Office of Oil and San

APR 1 8 2022

WV Department of Environmental Profession

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

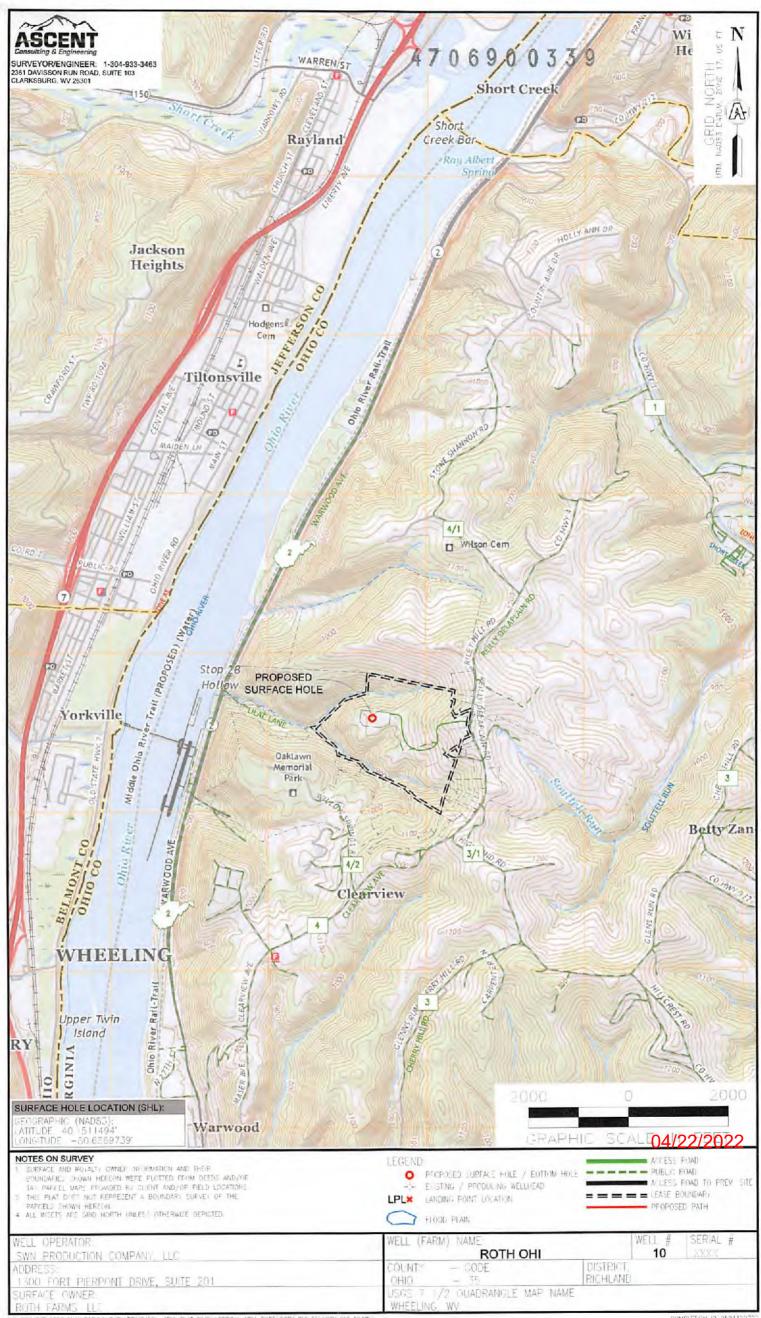


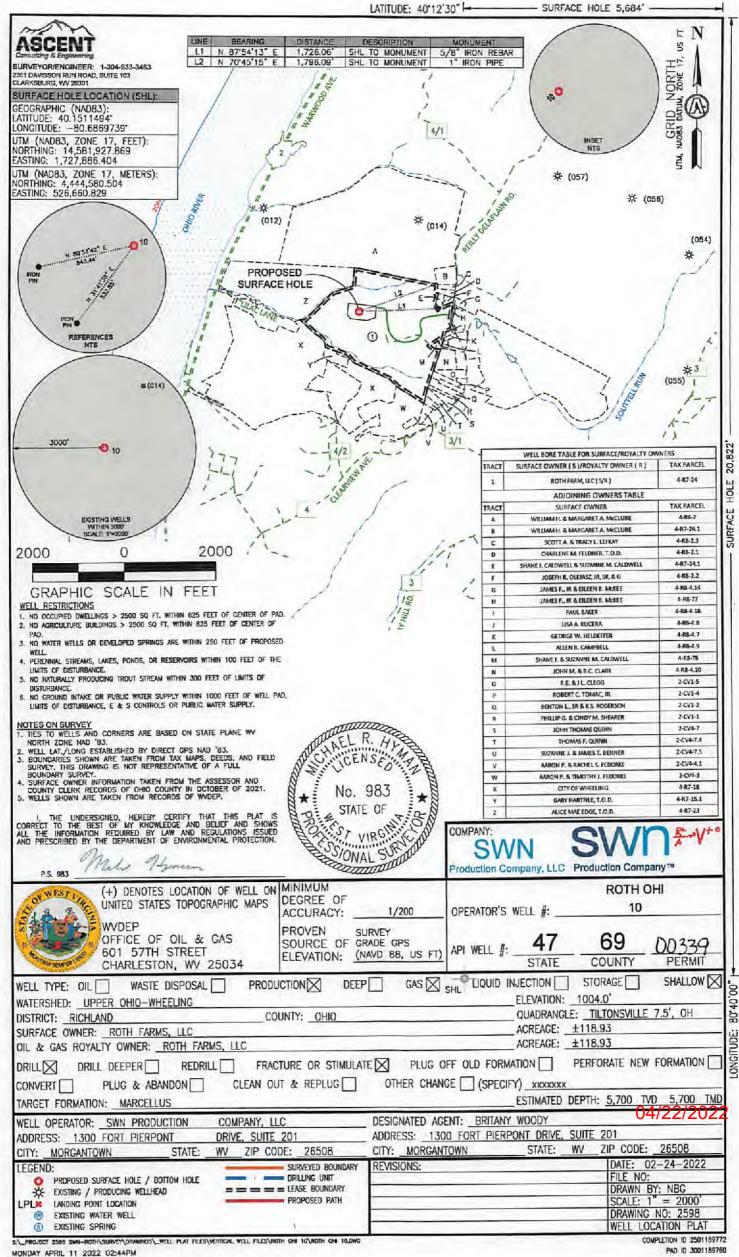
SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

API NO. 47-XXX-XXXXX
WELL NAME: Roth OHI 10H
Tiltonsville QUAD
Richland DISTRICT
Ohio COUNTY, WEST VIRGINIA

Submitted by:		
Name: Brittany Woody Suttoniy Woody	Date: <u>2/14/2022</u>	
Title: Senior Regulatory Analyst	SWN Production Co., LLC	
Approved by: Name: Kayne J Kl	Date: 3/8/2022	RECEIVED Office of Oil and Gas MAR 11 2022
Approved by:		WV Department of Environmental Protection
Name:	Date:	
Title:	_	

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL





WW-6A1 (5/13)

Operator's Well No.	ROTH (OHI	10H	

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
	S-0	o Exhibit A		

See Exhibit A

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

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

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

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

Well Operator:	SWN Production Co., LLC	Contract of the second
By:		Gavin Nadeau, RPL
Its:		Landman

Page 1 of



		EXHIBIT "A" Retb OHI 10H Ohio County, West Virginia 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			
Attached to and made a part of the State of West Virginia Cut and Cas Familia Form, WWW. Virginia Cut and Cas Familia Form, WW						
1)		Trust Agreement of Joseph Roth, dated November 5, 2004	SWN Production Company, LLC	18.00%	931/199	
Yote	the 5th day of November, 2	Joseph A. Roth and Margaret A. Gongola, Trustees of the Joseph Roth Trust under Agreement 004, convoyed the minerals underlying the subject parcel to The Roth Farm, LLC by deed recorded	•••			
M to		office at Book 931 and Page 650. The above lease was taken October 2nd, 2017, prior to the				

END OF EXHIBIT "A"

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

Date of Notice	ce Certification: 2			API No. 47	7_ 009 _	
Date of Isoth	Certification.				Well No. Roth	OHI 10H
					Name: Roth OH	
Notice has l	neen given:			0 412 0 112 0	.,,,,,,	
Pursuant to th	ne provisions in West Virginia Coo	de 8 22-6	A, the Operator has provi	ded the rec	uired parties w	ith the Notice Forms listed
	tract of land as follows:		. 30 in 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
State:	West Virginia		UTWANTED OF I	Easting:	526,660.829	
County:	069-Ohlo		UTM NAD 83	Northing:	4444580.504	
District:	Richland		Public Road Acces	ss:	Clearview Avenue	9
Quadrangle:	Wheeling		Generally used far	m name:	Roth	
Watershed:	Upper Ohio- Wheeling					
of giving the requirements Virginia Cod of this article Pursuant to that the Ope	equired by subsections (b) and (c) surface owner notice of entry to of subsection (b), section sixtee e § 22-6A-11(b), the applicant sha have been completed by the appli West Virginia Code § 22-6A, the grator has properly served the request.	survey n of this all tender icant.	pursuant to subsection (a article were waived in v proof of and certify to the r has attached proof to thi), section writing by e secretary	ten of this arti- the surface ow that the notice	cle six-a; or (iii) the notice vner; and Pursuant to West
PLEASE CH	ECK ALL THAT AFTET					ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY		NOTICE NOT REQUIRE SMIC ACTIVITY WAS		and the same of	☐ RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SU	JRVEY o	or NO PLAT SURVE	Y WAS C	ONDUCTED	RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL	NO	NOTICE NOT REQUIRE TICE OF ENTRY FOR P. S CONDUCTED or			RECEIVED/ NOT REQUIRED
			WRITTEN WAIVER B (PLEASE ATTACH)	Y SURFA	CE OWNER	*
■ 4. NO	TICE OF PLANNED OPERATIO	ON				☐ RECEIVED
■ 5. PUI	BLIC NOTICE					☑ RECEIVED
■ 6. NO	TICE OF APPLICATION		Military Co.	al.		☑ 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.

Its:

4706900339

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 Senior Regulatory An-

Telephone: 304-884-1610 ddress: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508 304-884-1690 Facsimile:

Email: Brittany_Woody@swn.com

NOTARUSTIN BOOTH Notary Public Official Seal State of West Virginia Comm. Expires Mar 1, 2022 749 Richwood Ave. Apt. 5 Morgantown WV 26505

Subscribed and sworn before me this 17th day of FEBRUARY 2002

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-6A (9-13)

API NO. 47- 009 OPERATOR WELL NO. Roth OHI 10H
Well Pad Name: Roth OHI

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

Date of Notice: Date Permit Application Filed:	the ming date of permit application.
PERMIT FOR ANY WELL WORK CONSTRUCTION OF A	OVAL FOR THE NIMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-10(l	b)
	D OF DELIVERY THAT REQUIRES A T OR SIGNATURE CONFIRMATION
certificate of approval for the construction of an impoundment or pit registered mail or by any method of delivery that requires a receipt or sediment control plan required by section seven of this article, and the the surface of the tract on which the well is or is proposed to be located oil and gas leasehold being developed by the proposed well work, if the described in the erosion and sediment control plan submitted pursuan operator or lessee, in the event the tract of land on which the well promore 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, construint impoundment or pit as described in section nine of this article; (5) Ar have a water well, spring or water supply source located within one the 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 ciprovision of this article to the contrary, notice to a lien holder is not not a section of this article to the contrary, notice to a lien holder is not not a section of the	signature confirmation, copies of the application, the erosion and e well plat to each of the following persons: (1) The owners of record of ed; (2) The owners of record of the surface tract or tracts overlying the he surface tract is to be used for roads or other land disturbance as it to subsection (c), section seven of this article; (3) The coal owner, posed to be drilled is located [sic] is known to be underlain by one or its overlying the oil and gas leasehold being developed by the proposed ection, enlargement, alteration, repair, removal or abandonment of any many surface owner or water purveyor who is known to the applicant to nousand five hundred feet of the center of the well pad which is used to 6) The operator of any natural gas storage field within which the tenants in common or other co-owners of interests described in may serve the documents required upon the person described in the ght, article one, chapter eleven-a of this code. (2) Notwithstanding any otice to a landowner, unless the lien holder is the landowner. W. Va. ovide the Well Site Safety Plan ("WSSP") to the surface owner and any
☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice	☑ Well Plat Notice is hereby provided to:
	☑ COAL OWNER OR LESSEE
7.111.111	Name: Alliance Resources GP, LLC
Address: 423 Clearview Avenue	Address: 2596 Battle Run Road
Wheeling, WV 26003	Triadelphia, WV 26059
	□ COAL OPERATOR
Address:	Name:
	Address:
☐ SURFACE OWNER(s) (Road and/or Other Disturbance)	
	☑ SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: None
	Address:
Address:	
	☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name:
	Address:
Address:	
	*Please attach additional forms if necessary

WW-6A (8-13) API NO, 47-009 OPERATOR WELL NO, Roth OHI 10H
Well Pad Name: Roth OHI

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/oil-and-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

API NO417/001 6 9 0 0 3 3 9
OPERATOR WELL NO ROTH OHI 10H
Well Pad Name: Roth OHI

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(1), 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 defence and set of a (1), subsection (e) of this section shall retain the services of an independent certified laboratory to conduct the predrilling of 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). (c) 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

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) API NO. 47-509 0 6 9 0 0 3 3 9
OPERATOR WELL NO. Roth OHI 10H
Well Pad Name: Roth OHI

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.

WW-6A (8-13)

OPERATOR WELL NO. Roth OHI 10H Well Pad Name: Roth OHI

Notice is hereby given by:

Mount popul Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610

Email: Brittany_Woody@swn.com

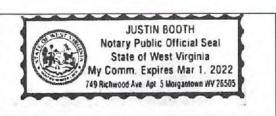
Address: 1300 Fort Pierpont Dr. Suite 201

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.



Subscribed and sworn before me this 17th day of FERRUARY 2022. 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			The state of the s	ays but no more than	n FORTY-FIVE (45) days prior to
Date of Notice:	2/3/2022	Date of Plan	ined Entry: 2/10/2022		
Delivery metho	d pursuant t	o West Virginia Co	ode § 22-6A-10a		
☐ PERSONA		REGISTERED	☐ METHOD OF DE	LIVERY THAT RE	COLUBES A
SERVICE	IL I	MAIL		NATURE CONFIR	
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 cond in forty-five da act that has file als underlying ontrol Manua in statement sh ce owner to of	uct any plat surveys ays prior to such ent ed a declaration purs such tract in the con I and the statutes and all include contact in btain copies from the	required pursuant to this ry to: (1) The surface own suant to section thirty-six, unty tax records. The noti d rules related to oil and g information, including the	article. Such notice s article six, chapter to ce shall include a sta as exploration and p	shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any atement that copies of the state Erosion production may be obtained from the age on the Secretary's web site, to
Notice is hereb		14			
SURFACE				AL OWNER OR LE	SSEE
Name: The Roth F	arm, LLC		_	Illiance Resources GP, LLC	
Address: 423 Cle		/	Address: Triadelphia,	2596 Battle Run Road	
Wheeling, WV 26003			- Inadelphia,	WV 20039	
A delicana.			■ MIN	NERAL OWNER(s)	
Address.				he Roth Farm, LLC	
Name:				423 Clearview Avenue	
			Wheeling, V		
			*please att	ach additional forms if ne	ecessary
a plat survey on State: 4 County: 5 District: 1	st Virginia Co	and as follows:	Approx. Lat Public Roac Watershed:	titude & Longitude: l Access:	Il operator is planning entry to conduct 40.15163347, -80.67956229 Clearview Avenue Upper Ohio-Wheeling The Roth Farm, LLC
Pursuant to We a plat survey on State: County: District: Quadrangle: Copies of the st may be obtaine Charleston, WV	st Virginia Con the tract of la Nest Virginia Ohio Richland Filtonsville, OH Quarate Erosion and from the Sect 25304 (304) he Secretary by	and as follows: d nd Sediment Contro cretary, at the WV E -926-0450). Copies by visiting www.dep	Approx. Lat Public Road Watershed: Generally u I Manual and the statutes a Department of Environmen	titude & Longitude: I Access: sed farm name: and rules related to o ntal Protection headq litional information r s/default.aspx. 1300 Fort Pierport Dr., Morgantown, WV 2850	Clearview Avenue Upper Ohio-Wheeling The Roth Farm, LLC oil and gas exploration and production quarters, located at 601 57th Street, SE, related to horizontal drilling may be Suite 201

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-6A4 (1/12) Operator Well No. Roth OHI 10

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.

Jane Lew, WV 26378 Morgantown, WV 26508 Telephone: 304-884-1675 Telephone: 304-884-1675	Notice Time I Date of Notice	Requirement: Notice shall be provided a e: 02/16/2022 Date Pe	at least TEN (10) days prior to filing a rmit Application Filed:	permit application.
Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the drilling a horizontal well: *Provided.** That notice given pursuant to subsection (a), section ten of this article satisfies the ref of this subsection as of the date the notice was provided to the surface owner. *Provided.** however, That the notice requirent subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephoand 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: Aliannoc Resources GP, LLC *Name: Aliannoc Resources GP, LLC *Address: *2936 Battle Run Road** Tridelphia.** WV 26059 *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 the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: *State: *West Virginia** *Pursuant to West Virginia** *Pursuant to West Virginia** *Public Road Access: *Cleardiew Avonue** *Public Road Access: *Cleardiew Avonue** *Public Road Access: *Cleardiew Avonue** *Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection hocated at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/d **Notice is hereby given by** *Well Operator: **SwN Production Company, LLC** **Address: **Po, Box 1300** **Justin Booth** **Address: **Justin Booth** **Address:	Delivery metl	nod pursuant to West Virginia Code §	22-6A-16(b)	
Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the drilling a horizontal well: *Provided.** That notice given pursuant to subsection (a), section ten of this article satisfies the ref of this subsection as of the date the notice was provided to the surface owner. *Provided.** however, That the notice requirent subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephoand 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: Aliannoc Resources GP, LLC *Name: Aliannoc Resources GP, LLC *Address: *2936 Battle Run Road** Tridelphia.** WV 26059 *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 the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: *State: *West Virginia** *Pursuant to West Virginia** *Pursuant to West Virginia** *Public Road Access: *Cleardiew Avonue** *Public Road Access: *Cleardiew Avonue** *Public Road Access: *Cleardiew Avonue** *Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection hocated at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/d **Notice is hereby given by** *Well Operator: **SwN Production Company, LLC** **Address: **Po, Box 1300** **Justin Booth** **Address: **Justin Booth** **Address:	T HAND	CERTIFIED MAIL		
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Address: 423 Clearview Avenue Wheeling, WV 28003 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 the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia County: Ohio Ohio Ohio Oudarrangle: Titlonsville 7.5; OH Oper Ohio - Wheeling This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection hocated at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/d Notice is hereby given by: Well Operator: SWN Production Company, LLC Address: P.O. Box 1300 Address: Telephone: 304-884-1675 Telephone: 304-884-1675 Telephone: 304-884-1675 Address: 304-884-1675				BUC
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Address: P.O. Box 1300 Address: 1300 Fort Pierport Drive, Suite 201 Jane Lew, WV 26378 Morgantown, WV 26508 Telephone: 304-884-1675 304-884-1675	Notice is her	reby given by:		
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Telephone: 304-884-1675 Telephone: 304-884-1675	Address:	P.O. Box 1300	Address:	1300 Fort Pierpont Drive, Suite 201
		Jane Lew, WV 26378		Morgantown, WV 26508
Email: Lucia Parth@nun com	Telephone:	304-884-1675	Telephone:	304-884-1675
Facsimile: Facsimile: Facsimile:	Email: Facsimile:	Justin_Booth@swn.com	Email: Facsimile;	Justin_Booth@swn.com

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

	ice: 02/16/2022 Date Po		
Delivery m	ethod pursuant to West Virginia	Code § 22-6A-16(c)	
■ CERT	IFIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
KEIC	RN RECEIPT REQUESTED	DELIVERY	
return receip the planned required to be drilling of a damages to be (d) The notice of notice.	ot requested or hand delivery, give operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A proposite surface affected by oil and gas to the surface by this section shall be reby provided to the SURFACE	the surface owner whose land will by this subsection shall include: (1 ion ten of this article to a surface of sed surface use and compensation operations to the extent the damage e given to the surface owner at the OWNER(s)	rmit application, an operator shall, by certified mail be used for the drilling of a horizontal well notice of) A copy of this code section; (2) The information where whose land will be used in conjunction with the agreement containing an offer of compensation for its are compensable under article six-b of this chapter, address listed in the records of the sheriff at the time
	ss listed in the records of the sherif		number on the
Name: The Ro	th Farm, LLC		Resources GP, LLC
	Cleanian Avenue	A J.J., 2004	
Address: 423 Wh Notice is he Pursuant to	West Virginia Code § 22-6A-16(c)	, notice is hereby given that the unc	lersigned well operator has developed a planned
Notice is he Pursuant to operation of State: County: District: Quadrangle:	reby given: West Virginia Code § 22-6A-16(c) In the surface owner's land for the p West Virginia Ohio Richland	, notice is hereby given that the uncourpose of drilling a horizontal well	dersigned well operator has developed a planned on the tract of land as follows: Easting: 1,727,886,404 Northing: 14,581,927,869 SS: Clearview Avenue
Address: 423 Wh Notice is he Pursuant to	reby given: West Virginia Code § 22-6A-16(c) In the surface owner's land for the p West Virginia Ohio Richland	notice is hereby given that the uncurpose of drilling a horizontal well UTM NAD 83	dersigned well operator has developed a planned on the tract of land as follows: Easting: 1,727,886,404 Northing: 14,581,927,869 SS: Clearview Avenue
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Notice is he Pursuant to operation of State: County: District: Quadrangle: Watershed: This Notice Pursuant to to be provide horizontal wasurface affe information headquarters	reby given: West Virginia Code § 22-6A-16(c) In the surface owner's land for the pure West Virginia Ohio Richland Tittonsville 7.5', OH Upper Ohio - Wheeling Shall Include: West Virginia Code § 22-6A-16(c) Ided by W. Va. Code § 22-6A-10(c) Ided by W. Va. Code § 22-6A-10(c) Ided by W. Va. Code § 25-6A-10(c) Ide	notice is hereby given that the uncompose of drilling a horizontal well UTM NAD 83 Public Road Access Generally used farm Include: (1)A control to a surface owner whose land the extent the damages are competed by the obtained from the Secretary, and Charleston, WV 25304 (304-Address: p.o.)	dersigned well operator has developed a planned on the tract of land as follows: Easting: 1,727,886.404 Northing: 14,581,927.869 SS: Clearview Avenue m name: Roth OHI py of this code section; (2) The information required will be used in conjunction with the drilling of a ntaining an offer of compensation for damages to the insable under article six-b of this chapter. Additional at the WV Department of Environmental Protection

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 including including appropriately secure your personal information. If you have any questions of a course or your personal information, please contact

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

D. Alan Reed, P.E. Charleston, West Virginia 25305-0430 • (304) 558-3505
State Highway Engineer

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

March 8, 2022

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 Roth Pad, Ohio County Roth OHI 10H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2022-0084 which has been issued to Southwestern Energy for access to the State Road for a well site located off Ohio County Route 4 SLS MP 2.39.

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 October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Brittany Woody

Southwestern Energy

CH, OM, D-6

File

Attachment VI Frac Additives

Product Name Al-303 (U.S. Well Services)	Product Use Mixture	Chemical Name Ethylene glycol	107-21 1
1-303 (C.3. Well Services)	MIXEUTE	Cinnamaldehyde	104-55 2
		Butyl cellosolve	111-762
		Formic acid	64-18 6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
P ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
actron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-15-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
ctron K-219 (Champion Technologies)	Biocide	Methanoi	67-56-1
		Quaternaty Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
rboNRT	Tracer	Ceramic Proppant	56402-68-4
5486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	54-19-7
		Peroxyacetic Acid	79-21-0
ono-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol Ownload fatty and	57-55-1 59051-67-7
		Oxyalkylated fatty acid	68951-67-7 61790-12-3
		Fatty acids Modified thiouses are home.	68527-49-1
		Modified thiourea polymer Water	7732-18-5
		Water Hydrochloric acid	7547-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
I crac leun w. He	(and Cantral		
apol-FEAC (SWN Well Services)	Iron Control	Acetic Acid Citric Acid	54-19-7 77-92-9
		Water Citric Acid	77-92-9
Assessment to the later of the	Publica Profession		
P-S1176-15 (Halliburton)	Friction Reducer	Polyacylate	Proprietary 64742-47-8
	57.07.6-1-7	Hydrotreated light petroleum distillate	64742-47-8
DET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	58213-24-1
		Fatty Alcohols ethoxylated	Proprietary 7733-18-5
		Water	7732-18-5
JET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
TRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
L (SWN Well Services)	Hydrocholic Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
I-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
eslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Socium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
xslick 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
xslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylated	68551-12-2
		Water	7732-15-5
RA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
		Propenoic acid, polymer with propenamide	9003-069
xaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
xslick 922	no data available	Copolymer of 2-propenaminde	69418-26-4
		Distillates (petroleum), hydotreated light	64742-47-8
		Ammonium chloride ((NH4)CI)	12125-02-9
		Oleic Acid Diethnolamide	93-83-4
Icide PS50A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
		Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	
		groups	397256-50-7
>2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Ethoxylated alcohol	Proprietary
		Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched	69011-36-5
egend LO-7750W	Scale Control	Methanol	67-56-1
Selin Fridania	Scale Control	Phosphonic Acid Salt	Proprietary

SHEET INDEX

GOVER GENERAL NOTES EVACUATION PLAN WITHOUT USGS MAP EVACUATION PLAN WITH USGS MAP EXISTING CONDITIONS BOREHOLE LOCATIONS OVERALL GRADING & ESC PLAN DEOMETRIC LAYOUT PLAN ACCESS ROAD PLAN & PROFILE ACCESS ROAD DROSS SECTIONS WELL PAD BASELINE PLAN WELL PAD SASELINE PLAN
WELL PAD SUBGRADE PLAN
WELL PAD PROFILE
WELL PAD CROSS SECTIONS
CULVENT PROFILES
REGLAMATION PLAN

DETAILS GEOTECH DESIGN & DETAILS BORING LOGS

SECTION & MACADRIGHT (LOSS PERRICES)

15 COURSES PRICE MATERISES FOR BUILD (6) - (PACADRICT DRICK, STONE IS PURCHANDER'S SUM)

AUSTRO 100, 15 DOIL FOR ARCHITE PAO - (PACADRICT DRICK, STONE IS PURCHAUD RYSARD)

WAS CRAFFET TRANSLATION (TO WAS ARCHITE)

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MOBILIZATION & DEMORSIZATION (UNATED TO 915 OF BASE BID)

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SOUTHWESTERN PRODUCTION COMPANY, LLC PROPOSED CONSTRUCTION PLANS FOR **ROTH PAD**

OHIO COUNTY, WV FEBRUARY 2022

TILTONSVILLE QUADRANGLE REFERENCE MAP

DRIVING DIRECTIONS

HEAD NORTH ON FORT PIERPONT DR. 0.3 MILES

STORMANDED BACKTON

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CONSTRUCTION STANDARD CONSTRUCTIONS OF THE PRESENT SPREADERS, SOLLARDS, STC. PER CITAL SHEET 4D - (310H) SY SHAWS

TH'THICK SIRP DAD TAKEN STAND SHEET. (310H) SY SWAD

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- 41 TURN LEFT TO MERGE ONTO 1-68 W TOWARD 1-70.5 MILES
 10 TAKE THE EXIT ONTO 1-70 WIN-78 H TOWARD WASHINGTON, 45.5 MILES
 11 TAKE THE EXIT ONTO 1-70 WIN-78 H TOWARD WASHINGTON, 74.7 MILES
 12 TAKE EXIT 11 COUNTY HIGHWAY ADDALLAS PIKE, 0.2 MILES
 13 TURN ROSH TOWARD WASHINGTON, 24.7 MILES
 14 TURN ROSH TOWARD TO LESS ADDALLAS PIKE, 0.2 MILES
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- 11) TURN LEFT ONTO DIXXXS RUN ROAD, 2 MILES
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 5) TURN RIGHT ONTO TABLE FOCK LANE, 1.5 MILES
 1) TURN LEFT ONTO CHERRY MILL ROADIZELES RUN RIGAD, 0.5 MILES
- 17) TURN RIGHT ONTO HIGHLAND ROAD, G.5 MILES 18) TURN RIGHT ONTO CLEARVIEW AVE, B.5 MILES

72,80 116,90

JOHN DUBOWSKI.
DONSTRUCTION SUPERINTENDENT
SOUTHWESTERN PRODUCTION COMPANY, LLC
1300 FORT PIERPONT DRIVE, SUITE 201,
MORGANTOWN, WV 26508 PHONE: (304) 884 - 1871 EMAIL JOHN DUROWSKI@SWN.COM

PROJECT COORDINATOR.
JOHN DUBOWSKI.

ENGINEER: MICHAEL NESTOR, PE

ASCENT CONSULTING & ENGINEERING 2381 DAVISSON RUN ROAD PHONE: (304) 933 - 3465 EMAIL: MIKEBASCENTCONSULTINGENGINEERS.COM.

ASCENT CONSULTING & ENGINEERING 2381 DAVISSON PUN ROAD CLARKSBURG WY 26361 PHONE: (304) 633 - 3453 FMAIL: ERIO@ ASCENTOCKSULTINGENGINEERS.COM

ENVIRONMENTAL:
WE'TLANDS OR SURFACE WATER INFORMATION WAS DELINEATED BY ENVIRONMENTAL SOLUTIONS & INNOVATIONS, INC DATED OCTORER 2021

TOPOGRAPHIC INFORMATION HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE NADED WEST VIRIGINIA STATE PLANES, NORTH ZONE, IN U.S. SHEYEY FEET.

LOCAL EMERGENCY SERVICES

LOCATION COORDINATES

WELL PAD CENTER: LATITUDE: 40.151112" N LATITUDE: 40°09/04.00" N

NORTHING: 603598,6478 NORTHING: 4444578,53

ACCESS FIGAD ENTRANCE:	
LATITUDE: 40.151289 N	LONGITUDE:
LATITUDE: 40°09'4.57" N	LONGITUDE:
NORTHING: 609623-0001	EASTING:
NORTHING: 4444598,01	EASTING.

527278 58 LONGITUDE:

80,686833° W 00'41.15 00. IA 1636750.0087

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

LIMITS OF DISTURBANCE BY PROPERTY:

LONGITUDE

FASTING-

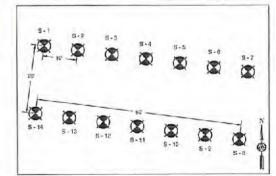
PROPERTY#	PROPERTY OWNER	ACRES DISTURBED
35-04-00FT-00P4-0000	HOTH FARM, LLC	34.81 AC

TOTAL DISTURBED AREA: 34.81 ACRES

HOAD DISTURBED AREAS PAD DISTURBED AREA

EARTH MORK CHRUSARY

EARTH WORK SUMMART		Ant
TOTAL CUT: TOTAL FILL:		116.500 CY 93,700 CY
	selection as less incoming	



WELL HEAD LAYOUT

CALL BEFORE YOU DIG! IT'S THE LAW!

MESS UTILITY OF WEST VINGINIA MISS UTLEFT OF WEST VANDRIA
1902-95-1948
WEST VIRGINA STATE LAW
ISECTION XIV. CHAPTER 24-C)
REQUISES THAT YOU CALL TWO
BUSINESS DAYS REPORE YOU DID IN
THE STATE OF WEST VIRGINIA.
(TS THE LAW!!)



LOCATION MAP NOT TO SCALE

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Southwestern Energy



PREDATED BY



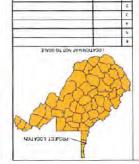
2361 DAVISSON RUN HOAD CLARKSBURG, WY 2001 WWW ASCENTOCHSULTINGENGINEERS.COM

	(304) 033 + 3463	
PROJECT NU	2598	KWA
DATE	2/18/2022	EMS
SCALE	AS SHOWN	MRN

CONSTRUCTION PLANS FOR SWN PRODUCTION COMPANY, LLC ROTH PAD OHIO COUNTY, WV

COVER SHEET

APPROVED FOR PERMITS



PROPOSED CONSTRUCTION PLANS FOR SOUTHWESTERN PRODUCTION COMPANY, LLC

APRIL 2022 оню солиту, му **DAY HTOR**

TILTONSVILLE OUADRANGLE REFERENCE MAP

Clearview

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CETALS	39-11
RECLAMATION PLAN	00
CULVERT PROFILES	62
STOCKPIL CROSS SECTIONS	Y02
MELL PAD CROSS SECTIONS	82-93
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MELL PAD SUBGRANDE PLAN	27
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CCOMETING LAYOUT PLAN	5
OVERALL GRADING & ESC PLAN	- 1
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EAVORATION PLAN WITHOUT USGS	
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LOCAL EMERGENCY SERVICES

POISON CONTROL CENTER
FOLICE DEPARTMENT
FINE DEPARTMENT
HOSPITAL EMERGENCY ROOM

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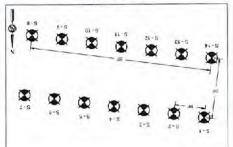
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MICHAEL MESTOR, PE
ASCENT CONSULT NO. 8 ENGINEERING
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PHONE: JOHN 302 - 5461
EMAIL: JOHN 302 - 5461
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CONSTRUCTION PLANS FOR	
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