

#### west virginia department of environmental protection

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

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

Monday, July 17, 2023 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re:

Permit approval for Glenn Didriksen OHI 5H

47-069-00358-00-00

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: Glenn Didriksen OHI 5H

Farm Name: Didriksen, Glenn

U.S. WELL NUMBER: 47-069-00358-00-00

Horizontal 6A New Drill

Date Issued: 7/17/2023

## PERMIT CONDITIONS

4706900359

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.

CONDITIO	ONS
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- 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.

API NO. 47-069	<u> 00</u>	<u>358                                    </u>
OPERATOR WEL	L NO.	Glenn Didriksen OHI 5H
Well Pad Name:	Glenn	Didriksen

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

1) Well Operator: SWN Production	on Co., LLC	494512924	069- Ohio	3-Liberty 247- Bethany/648
·		Operator ID	County	District Quadrangle
2) Operator's Well Number: Glenn	Didriksen Ol	HI 5H Well Pa	d Name: Glen	n Didriksen
3) Farm Name/Surface Owner: Gle	enn Didriksen	Public Ro	ad Access: CR	-33
4) Elevation, current ground: 138	83' El	evation, proposed	post-construct	ion: 1383'
5) Well Type (a) Gas XOther	Oil	Und	lerground Stora	ge
(b)If Gas Shallor	w X	Deep		
Horizo	ntal X	·		
6) Existing Pad: Yes or No Yes	<u>-</u>		_	
7) Proposed Target Formation(s), D Target Formation- Marcellus, Up-Dip well to the	Depth(s), Antic North, Target Top T	ipated Thickness VD- 6373', Target Base T	and Expected I VD-6432', Anticipated	Pressure(s): I Thickness- 59', Associated Pressure- 4180
8) Proposed Total Vertical Depth:	6414'			
9) Formation at Total Vertical Dept		3		
10) Proposed Total Measured Dept	h: 18212'			<u></u>
11) Proposed Horizontal Leg Lengt	th: 11381.53	<u> </u>		
12) Approximate Fresh Water Strat	a Depths:	283'		
13) Method to Determine Fresh Wa	ater Depths:	Nearby Water W	eil	
14) Approximate Saltwater Depths	: 800' salinity	profile		
15) Approximate Coal Seam Depth	ıs: 683'			RECEIVED
16) Approximate Depth to Possible		ine, karst, other):	Possible Void	Office of the and Gas
				JUN 1 4 2023
17) Does Proposed well location co directly overlying or adjacent to an		ms Yes	N	O W/V Department of
(a) If Yes, provide Mine Info: N	Name:			
• •	Depth:			
S	Seam:			
	Owner:			

Cyclip lorg

WW-6B (04/15) API NO. 47-069

OPERATOR WELL NO. Glenn Didriksen OHI 5H

Well Pad Name: Glenn Didriksen

18)

#### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	136'	136'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	713'	713'	820 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2071'	2071'	804 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	18212'	18212'	Tad 3129as/ 100' Inade Intermediata
Tubing							
Liners							

ТУРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.380	2730	633	Class A	1.20/30% Excess
Coal	See	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			<del></del>				
Liners	<u> </u>						

	<u>PACKERS</u>	Office of Oil and Olas
Kind:		UN Department of thorn
Sizes:		Enviole
Depths Set:		

STRAIT 8/2023

OPERATOR WELL NO. Glenn Didniksen OHI 5H

Well Pad Name: Glenn Didriksen

19) Describe proposed well work, including	the drilling and	plugging back	of any pilot hole:
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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): 9.01
- 22) Area to be disturbed for well pad only, less access road (acres): 5.79
- 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 \*\*\*

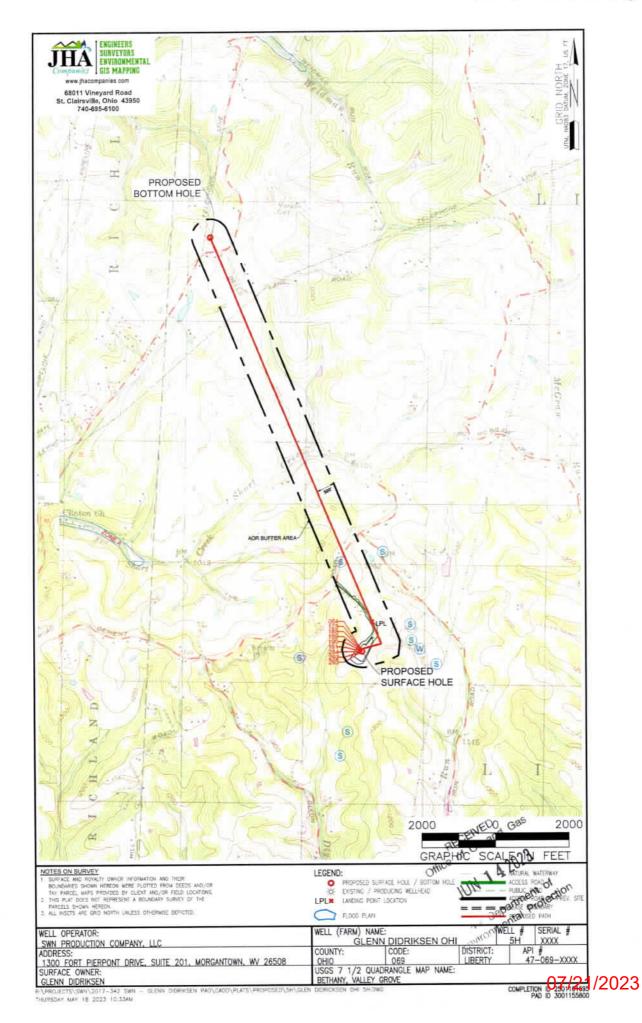
All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

N Debattuen of ENVIONMENTAL Protection

\*Note: Attach additional sheets as needed.

INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)		INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
*.1	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	$\overline{}$	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJIIO	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L	$>\!\!<$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
NTERMEDIATE	$>\!\!<$	INTEGRA SEAL	C7e00	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
INTERMEDIATE	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
	> <	>	CIII	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	> <	55-HW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	DO47	FP 28L	$>\!\!<$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	$\geq \leq$	$\geq \leq$	QX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	$\geq \leq$	$\geq \leq$	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETAR
	0255	$\geq \leq$	$\geq \leq$	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETAR
			CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
PRODUCTION		FL-66	0501	LOW TEMP FLUID	POWDERED POLYSACCHARIDE	PROPRIETAR
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	> <	VISCOSI FIER/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
	D065		X	DISPERSANT	SODIUM POLYNAPHTHALENE	8068-51-6
	D800	>	$\searrow$	CEMENT RETARDER (Mid-Temperature)	LONOSULFONITE	8061-51-6
				On	LIGHOSULFONITE  JUN 1 4 LIVERS  JUN 1 A LIVERS	v

#### **Proposed Drilling Program** Southwestern Energy Company Re-entry Rig: SDC 40 **GLENN DIDRIKSEN OHI 5** Well: Marcellus Shale Prospect: Field: PANHANDLE FIELD WET Southwestern Energy' State: County: OHIO 40.114026 Latitude -80.595139 Longitude SHL (NAD83): -80.610299 Longitude 40.144934 Latitude BHL (NAD83): GL Elev: 1,383 ft MSL KB: 26 ft AGL **KB Elev:** 1,409 ft MSL 136 ' to 733 ' COAL VOID EXPECTED Air/Mist 733 to 2,091 PROD TOC @ 2,071 ' MD Air/Mist TUBULAR DETAIL Planned Interval **Casing Size** Grade Weight **Casing String** (in) (Min) (Min) From 2,091 to 5,782 20 94.0# J-55 0' 136 Conductor Air/Mist 13.375 54.4# J-55 0' 713 Surface/Coal 2,071 0 ' Intermediate 9.625 36.0# J-55 0' 18,212 5.5 20.0# P-110 HP Production CEMENT DETAIL Sacks Class Density Conductor 173 19.3 15.6 Surface 820 Intermediate 804 A 15.6 Production 3129 A 14.5-15.0 TD at 5,782 ' 5.782 ' to 6.830 ' Freshwater Depth - 283 'TVD KOP at 5,782 'MD 12.0-12.5 ppg Coal Void Depth - 683 'TVD Saltwater Depth - 800 'TVD TVD - 6,414 ' TMD - 18,212 ' TD at 18,212 ' MD 6,414 'TVD 6,414 'TVD Target Center Onondaga 6,432 'TVD 6,830 to 18,212 LP at 6,830 ' MD 12.5-13.5 ppg SHL Onondaga 6,432 'TVD Created by: Sebastian Ziaja on 05/26/2023 JUN 1 4 2023 W Department of WW Department of Lord Protection Sparch Gowet



Glenn Didriksen OHI 5H AOR

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
47-069-00064	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.114066	-80.595021		MARCELLUS	
47-069-00123	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.114065	-80.595112	_	MARCELLUS	
47-069-00188	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.113939	-80.595042	6,393'	MARCELLUS	
47-069-00189	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.113971	-80.595015	6,404'	MARCELLUS	
47-069-00190	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.113907	-80.595070	6,425'	MARCELLUS	
47-069-00191	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.114040	-80.594955	6,3951	MARCELLUS	
47-069-00284	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.114001	-80.595075	6,427'	MARCELLUS	
47-069-00292	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.113969	-80.595103	6,527'	MARCELLUS	
47-069-00293	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.113936	-80.595131	6,561'	MARCELLUS	

Office of Oil and Gas

JUN 1 4 2023

JUN 1 4 2023

JUN 1 4 2023

WW-9 (4/16)

API Number	47 -	069		-
One	rator's	Well	No	Glenn Didriksen OHI 5H

# 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 South	Quadrangle Bethany/Valley Grove
Do you anticipate using more than 5,000 bbls of water to comp	
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	
<ul> <li>Underground Injection (UIC Permi</li> </ul>	
Reuse (at API Number At the next anti	
Off Site Disposal (Supply form WV Other (Explain recovery and solidific	
Culci (Explain_ see s.y and explain_	
Will closed loop system be used? If so, describe: Yes-See At	tachment 3A
Drilling medium anticipated for this well (vertical and horizont	al)? 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. S	ynthetic Oil Base
Additives to be used in drilling medium? Attachment 3B	
Drill cuttings disposal method? Leave in pit, landfill, removed	offsite, etclandfill
	used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? Meadowfill SW Apex Sanitary Landfill Ub-U8438, Brooke Co SV	F- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021
Permittee shall provide written notice to the Office of Oil and O	Gas of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally application form and all attachments thereto and that, base obtaining the information, I believe that the information is penalties for submitting false information, including the possible to the possible to the province of the provi	conditions of the GENERAL WATER POLLUTION PERMIT issued irginia Department of Environmental Protection. I understand that the f any term or condition of the general permit and/or other applicable y examined and am familiar with the information submitted on this d on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant illity of fine or imprisonment.
Company Official Signature Brittany Woody  Company Official (Typed Name) Brittany Woody	SENED G86
Company Official (Typed Name)	AECE III and
Company Official Title Staff Regulatory Specialist	Office of Oil and Gas
2 /10/2022	Notary Public Official Sea
My commission expires	State of West Virginia

Proposed Revegetation Treatment: Acres Disturb	<sub>ped</sub> 9.01	Prevegetation pl	ł
Limeas determined by pH test min.2 Tons/acre or to	correct to pH 5.79		
Fertilizer type 10-20-20			
Fertilizer amount 600/500	ibs/acre		
Mulch_ Hay/Straw	Tons/acre		
	Seed Mixtures		
Temporary		Perma	nent
Seed Type lbs/acre Attachment 3C		Seed Type	lbs/acre
		·	
Attach: Maps(s) of road, location, pit and proposed area f wrovided). If water from the pit will be land appli	for land application (unle	ss engineered plans included X W x D) of the pit, and	ding this info have been dimensions (L x W), a
Attach: Maps(s) of road, location, pit and proposed area forovided). If water from the pit will be land applicated, of the land application area.  Photocopied section of involved 7.5' topographic	for land application (unlessed, include dimensions (lessented)	ss engineered plans included a W x D) of the pit, and	i dimensions (L x W), a
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Attach: Maps(s) of road, location, pit and proposed area forovided). If water from the pit will be land applicated, of the land application area.  Photocopied section of involved 7.5' topographic	for land application (unlessed, include dimensions (I	ss engineered plans included a X W x D) of the pit, and	I dimensions (L x W), a

#### 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 a Shale Gas Separator, 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 highly weighted 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 haul off to an approved landfill site. (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 Separator 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.

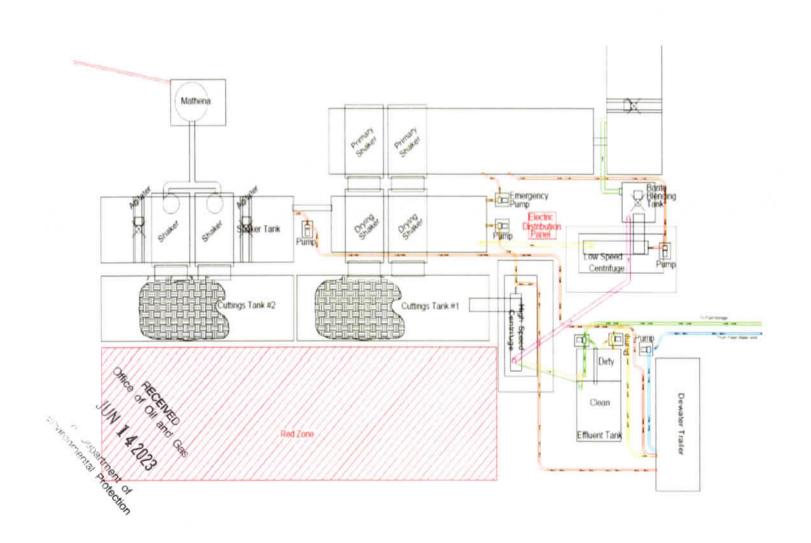
#### LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

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.

WY Department of Environmental Protection

## Solids Control Layout





#### **Attachment 3B**

### **Drilling Mediums**

#### Surface/Coal(if present)/Freshwater Intervals:

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

RECEIVED
Office of Oil and Gas

JUN 142023

WV Department of Environmental Protection



### **WVD Seeding Specification**



To Order Seed cor

ntact Lyndsi Eddy Flippo office 570-996	1271 cell 501-269-5451	lyndsi_eddy@swn.com	(please allow 7 to 10 days for delivery)
---	------------------------	---------------------	--

NON-ORGANIC PROPERTIES		
Seed Mixture: ROW Mix	swi	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 April 16th- Oct. 14th		Apply @ 200lbs per acre Oct. 15th- April 15th PLUS bs per acre of Winter Wheat

SOI	LAN	<b>JEN</b>	DM	FN	rs.
		4171			

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

#### 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 time (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.

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%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%
Apply @ 25lbs per acre	Apply @ 50lbs per acre
April 16th- Oct. 14th	Oct. 15th- April 15th

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

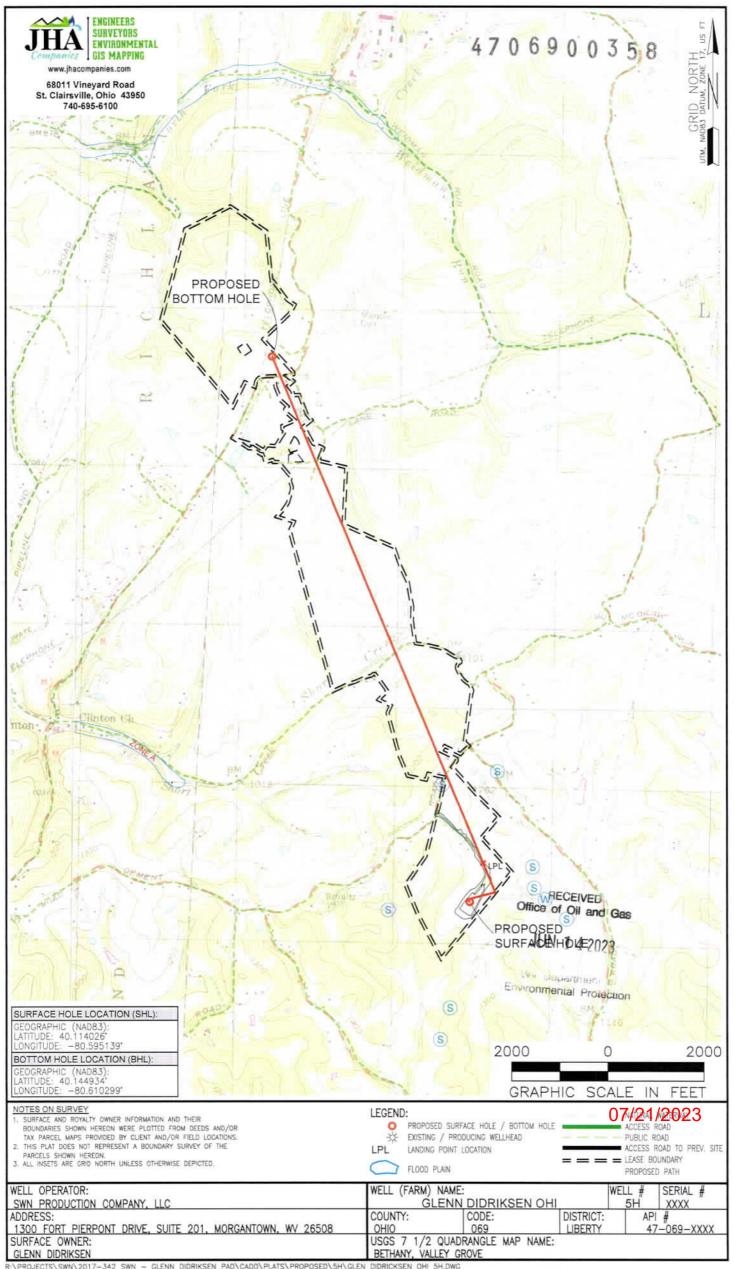
# MARCELLUS WELL DRILLING PROCEDURES AND 4706900358 WELL SITE SAFETY PLAN

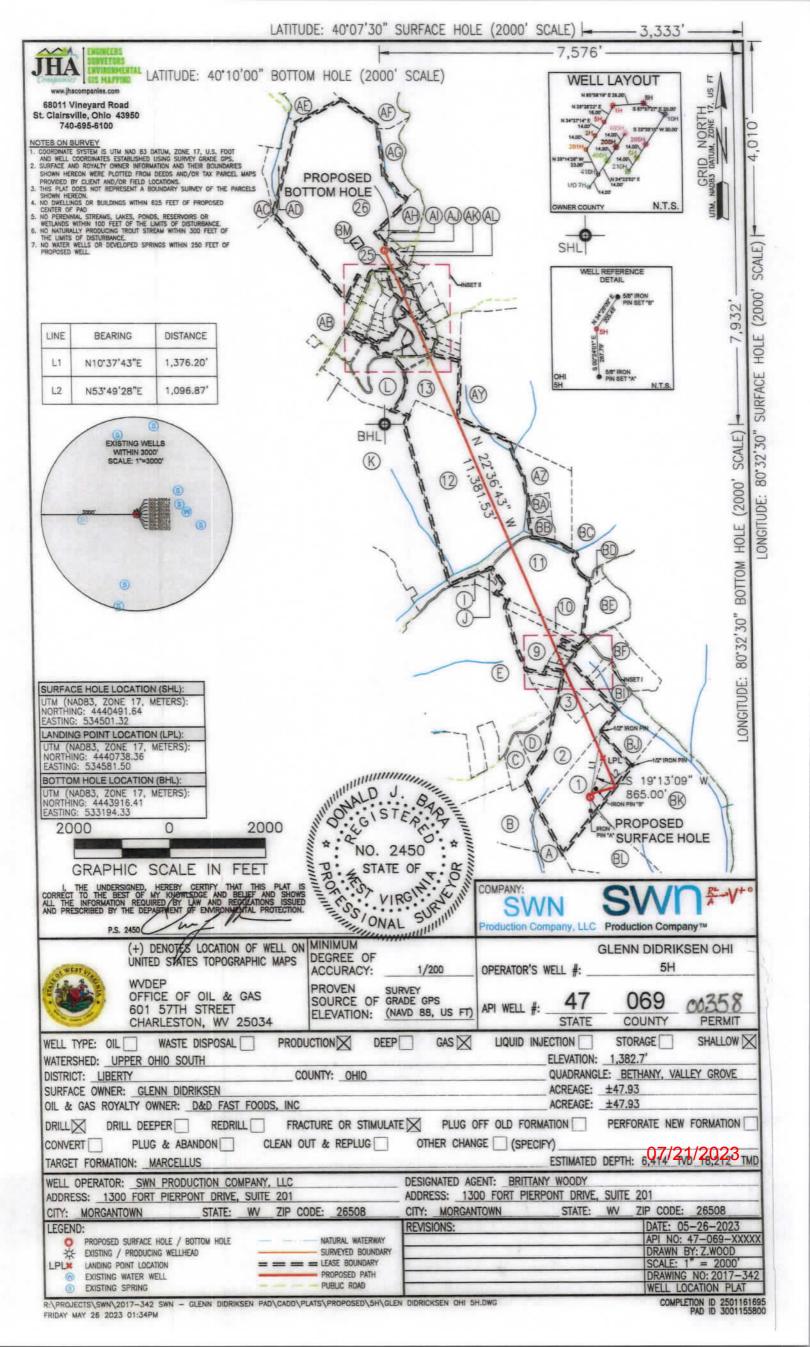


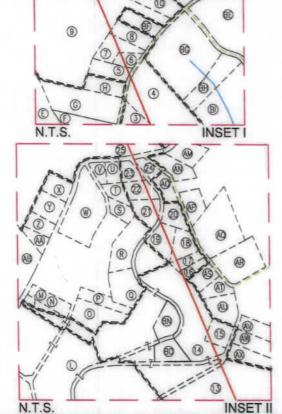
SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

# API NO. 47-XXX-XXXXX WELL NAME: Glenn Didriksen OHI 5H Bethany, Valley Grove QUAD Liberty DISTRICT OHIO COUNTY, WEST VIRGINIA

Submitted by:		
Name: Brittany Woody Suttany Woody	Date: <u>5/23/2023</u>	
Title: Staff Regulatory Specialist	SWN Production Co., L	LC
Approved by:		
Name: St. Course	Date: 6 8 2023	_
Title: Oil & GAS Inspectore		
Approved by:		Office of Oil and Gas
Name:	Date:	_ JUN 14 2023
Title:		WV Department of Environmental Protection
SWN PRODUCTION COMPANY, LLC -		







ADJOINING OWNERS TABLE				
TRACT	SURFACE OWNER	TAX PARCEL		
Α	PARSONS MICHAEL R JR & CAHTERINE R	3-L10-35.4		
В	HUNT JAY R & JODI A	3-L10-34		
С	DICESARE PASQUALE J	3-L7-34.1		
D	SEKORAL JAMES E	3-L7-35		
E	WHITAKER REVOCABLE FAMILY TRUST	3-L7-27		
F	HARKINS JAMES J JR	3-L7-38		
G	MEYER GAIL & KEITH SR	3-L7-38.9		
н	PROCHASKA TRAVIS & MADISON KIDD	3-L7-38.1		
1	JONES JAMES R & JUNE M	3-L7-18		
J	HERCULES ANNE L	3-L7-17.1		
к	HALL MICHAEL JAMES (2/3 INT) & DICKERSON CYNTHIA HALL (1/3)	3-L7-19		
L	WEAVER DAVID M & BETH R	3-14-15		
М	ROSE JAMES F AND ANN C	3-L4-14		
N	ROSE JAMES F & ANN C	3-L4-12		
0	WEAVER DAVID M & BETH R	3-L4-40		
P	SHIPLEY LOUIS P	3-L4-39		
Q	SHIPLEY LOUIS P	3-L4-37		
R	BORON PAUL L & KATHLEEN R	3-L4-33		
S	CHASE DONNA J	3-L4-29.1		
т	FLATLEY TIMOTHY J & JULIANNE K	3-L4-29		
U	CROW RICHARD T & P K	3-L4-27		

	N.T.S. INSE	ETII	S	CHASE DONNA J	3-L4-29.1
WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS			Т	FLATLEY TIMOTHY J & JULIANNE K	3-14-29
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	U	CROW RICHARD T & P K	3-14-27
1	DIDRIKSEN GLENN (S) / D & D FAST FOODS, INC. (R)	3-L7-42	٧	CROW RICHARD T & P K	3-L4-26
TRACT	SURFACE OWNER	TAX PARCEL	w	HARRAR FRANK J & ISABEL W (LE), HARRAR MARY ANN; ET AL	3-L4-4
2	DIDRIKSEN GLENN	3-L7-37	x	YENSEN JUSTIN R & KIMBERLY A	3-L4-1.4
3	TOMINACK GARY CHARLES	3-L7-39.4	Y	POWELL JOHN A & MICHELLE L	3-14-1.5
4	TOMINACK RONALD HEYMAN	3-L7-39.2	Z	BLAKE REBECCA L	3-L4-1.2
5	KUNTZ AMY L & MICHAEL L	3-L7-38.4	AA	BLAKE REBECCA L	3-L4-1.7
6	HARKNESS WARREN N & BARBARA R	3-L7-38.5	AB	BROWN ULLIAN W TRUST	3-14-1.1
7	HARKNESS WARREN N & B R	3-L7-38.6	AC	CAVENEY CLAIRE M	4-R9-3
8	HARKNESS CORPORATION	3-L7-38.2	AD	MCKAY PAUL M & DEBORAH A	4-R9-51
9	MAXWELL JASON W	3-L7-38.7	AE	HONECKER ELIZABETH L & HESTICK ELIZABETH H	3-L1-42
10	ROBRECHT CHADD	3-L7-38.8	AF	HONECKER ELIZABETH R & HONECKER JANET L	3-14-124
11	STONE LINDA JEAN	3-L7-16	AG	MCKAY PAUL M & DEBORAH A & HONECKER JANET L	3-14-123
12	CLISER MARY HELEN; TR	3-L7-2	AH	SINCAVICH RACHEL ANN	3-14-2
13	EVANS CATHERINE & DAVID	3-L4-13.1	Al	PLETCHER NATHAN C & AMANDA	3-14-2.1
14	WEAVER DAVID M & BETH R	3-L4-13	AJ	FARMER REGINA L & CLARENCE S JR	3-L4-2.7
15	WEST JACK RUSSELL	3-L4-70	AK	FRAZIER DONALD & LINDA	3-L4-2.2
16	WOODRUFF IRREVOCABLE TRUST, ROBERT WOODRUFF TRUSTEE	3-L4-63	AL	WILEY THOMAS E & HOLLY J	3-L4-2.4
17	VERBA JOSEPH, MCCOY JACQUELYN	3-L4-63.1	AM	ADAMS MARY E	3-L4-105.13
18	VERBA JOSEPH, MCCOY JACQUELYN	3-14-59	AN	MCCARDLE ARLIE R JR AND BOND B	3-L4-105.17
19	BORON PAUL L & KATHLEEN R	3-L4-60	AO	WINIESDORFFER TERENCE L & M K	3-14-57
20	WINIESDORFFER T L & M K	3-L4-58	AP	TUSTIN NATHAN P	3-L4-105.1
21	BORON PAUL L & KATHLEEN R	3-L4-31	AQ	HANNA DAVID R & CARRIE A	3-L4-105.1
22	WINIESDORFFER T L & M K	3-L4-30	AR	NELSON JOSEPH S JR & BRENDA J	3-L4-105.2
23	HOGAN SUSAN C	3-L4-28	AS	WOODRUFF IRREVOCABLE TRUST, ROBERT WOODRUFF TRUSTEE	3-L4-65
24	WINIESDORFFER MICHAEL D & G L	3-L4-55	AT	MOORE CLARENCE J & K S	3-14-67
25	STATE OF WEST VIRGINIA DIVISION OH HIGHWAYS	ROUTE 88 OGLEBAY DRIVE	AU	CIHY EDWARD J & LINDA K	3-L4-68
26	MCKAY PAUL M & DEBORAH A	3-14-1	AV	DICESARE PATSY J & ALICIA	3-L4-99

07/21/2023

REVISIONS:	COMPANY:	SWN Production Company, LLC	Pr Pr	Production Company™	
	OPERATOR'S WELL #:		DRIKSEN OHI 5H	DATE: 05-26-2023 API NO: 47-069-XXXXX DRAWN BY:Z.WOOD	
	DISTRICT: LIBERTY	COUNTY: OHIO	STATE: WV	SCALE: N/A DRAWING NO:2017-342 WELL LOCATION PLAT	

	ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCEL
AW	KELLER MARTIE A & DAVID R	3-L4-100
AX	KELLER DAVID R & MARTIE A	3-L4-13.2
AY	BELLE LANE LLC	3-L4-109
AZ	GRIMES ROBERT J	3-L7-3
ВА	BURKHART MARY ELLEN	3-1.7-3.2
88	GREEN KATHY	3-L7-3.1
вс	WILHELM JOHN LEE ET AL	3-L7-4
BD	HOFFER BEVERLY J ESTATE	3-L7-15
BE	STONE LINDA JEAN	3-L7-16.1
BF	LIPINSKI JENNIFER HARKNESS	3-L7-38.3
BG	LITMAN OLIVIA	3-L7-39.1
вн	TOMINACK THOMAS SCOTT	3-L7-39.5
ВІ	TOMINACK THOMAS SCOTT	3-L7-39.3
BJ	SNYDER STEPHEN P & D K S	3-L7-42.1
вк	HINERMAN BARBARA JO	3-L10-40
BL	STONE LINDA JEAN	3-L10-39
вм	MCKAY PAUL M	3-14-1.6
BN	WEAVER DAVID M & BETH R	3-L4-53
во	WILLIAMS GARY WAYNE	3-L4-72

07/21/2023

REVISIONS:	COMPANY:	SWN Production Company, LLC		SWN A V+° Production Company™
	OPERATOR'S WELL #:	GLENN DIDE		DATE: 05-26-2023 API NO: 47-069-XXXXX DRAWN BY:Z.WOOD
	DISTRICT: LIBERTY	COUNTY: OHIO	STATE: WV	SCALE: N/A DRAWING NO:2017-342 WELL LOCATION PLAT

COMPLETION ID 2501161695 PAD ID 3001155800 WW-6A1 (5/13)

Operator's Well No. GLENN DIDRIKSEN OHI 5H

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

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

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

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	-	F 1 12 54 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	Bart Salary
By:		Gavin Nadeau, RPL
Its:		Senior Landman

Page 1 of \_\_\_\_

			IT "A" ksen OHI St( West Virginia			
		Actushed to and made a part of the State of Wess \ it ginis Cul and Gus l	Parmit Form, WW-6AL, by SWN Production Company, ELC., Open	alor		
	31407	The state of the s		BOYALTY	and a	WINTEREST NOT LEASED BY PRODUCTION COMPANY, L
I)	03-000 7-0042-0000	D & D Fast Foods. Inc.	Chempenia Appalactic, L.C. SWN Productor Company, LEC	12.50**	791'455 8\$3-248	0.00**
2)	Q3-QQL7-QQ37-0000	D & D Fast Foods, Inc.	Chesapeake Appalachis, LLC. 5'Wh Production Company, LLC	12.50°°	791 455 885-248	0.00*
9)	03-001.7-0039-0004	Gary Charles Tominsck, merrical	NPAR, LLC	18.00°+	\$14363	
			Chevros U.S.A. Inc.  Chevrostic Appalachia, L.L.C.		\$27:284 \$67:713	0.00⁴∢
		Ronald Broman Tresiones	SWN Production Company, LLC NPAR, LLC	16.00**	\$83.742 \$14365	
4)	09-000, 7-0039-0002	Konald Heyman Jordanses.	Theyron U.S.A. Inc.	10.00-4	827 284	0.004
			Chesapeako Appalachus, L.L.C. SWN Production <u>Company. LLC</u>		\$67.713 \$83.742	
51	03-000-7-0038-0004	Martin 1. Spoto, riogle	Champesko Appalachia, L.L.C.	[8 <b>99</b> °+	824 283	0.00*•
61	D1 D01 7 AD34 A004	Junios, A. Harliggon, 17 and Vallee NJ. Harkages, husband and wife	SWN Production Company, LLC Chempusks Appalacha, L.L.C.	[8 90*e	#85 608 #89 529	
Φ1			SWN Production Company, LLC		384 61	0.00**
J)	(1)-00[LT-003\$-0006	lasters A. Flarkaces, St. and Vallee & Harkness, bushend and wife	Champusho Appalactica, L.L.C. SWN Production Company, LLC	16.00**	90%521 384:61	0.00*=
<b>á</b> n	03-001.7-0038-0002	Harkson Family Irrevocable Treat, by Broot L. Harkson, Treater	Chrospesko Appelitelia, L.L.C.	LE SOF.	807.687	0.00%
9)		Jacon W. Maxwell, single	SWN Production Company, U.C.  Champalic Appellation 1, 1, C.	17.50	884-49 795-656	
,	03200.740384007	ALMS W. PALOWELL RESPO	SWN Production Company, LLC		885-272	0.00%
0)	03-00L7-003E-000E	Paul J. LaRue and Wanda J. LaRue, funband and wife	NPAR LLC Charge U.S.A. Inc.	18 00**	815/417 827-269	
			Chromenke Appalachia L.L.C		867 713	0.00%
_			SWN Production Company, LLC	11.50%	983-730 768-793	
11	03-000,7-0016-0000	Robert Walter Leach and Doena Jeen Leach, transmed and wide	Orest Lakes Energy Parason, 1. L.C. Champaille Appalachie, L.L.C.	11.50%	768-793 E26-617	0.90**
			SEN Production Company, 1.6.C		#4.73	
Z) Li		The Mary Holan Chine Trial of 2010, by Courtmy Bizzard Successor Trustee  Divid Evens only Catherine Evens, husband and wife	SWN Production Company, LLC Champants Annalysisia, LLC.	18.00**	1038-127	0.00%
			SWN Production Company, LLC		BE3/387	
<del>4</del> 1	03-00C+-0013-0000	George 3. Weaver and Shirley M. Weaver, hashend and wife	Chespeake Appalachia L.L.C SWN Production Computer, LLC	13.00**	#13-165 #13-632	0.00%
<b>5</b> )	03-00E4-0070-0000	Jack Russell West, single	Chrospeska Appalachia, L.L.C.	18.00*=	\$13-722	0.00%
<b>5</b> ì	000042004	Keith B. Wooderd, C and Georgianne I. Woodsuff, training and wife	SWN Production Company, (L.C. Chemperko Appalachia, L.L.C.	18.00**	#83 199 \$13:31	0.00%
_		<u></u>	SWN Production Company, LLC		\$84·L	0.00-4
ħ	03-00LA-0063-000 L	James S. NacGiasley. III and Linuta Chary MacGinley. By and through her attenuty in fact, James S. McGiasley	Chempasko Appalachia, L.L.C. SWN Production Commany, LLC	18.00**	\$30-543 \$43-656	0.00**
)	03-0014-0039-0000	James McGindry, and Linda O, McGipley, by and through her Attoroxy-le-Part, James McGindry, busheed and wife	Chrosposky Appelochia, L.L.C.	11,00%	#30/347	0.00%
n	03-001.4-2060-0000	The Arbest Company	SWN Production Company, LLC Chambrooks Advalation, L.L.C.	11.00%	#15/656 #40/123	***
			SWN Production Company, U.C.		\$83/740	2.00**
H	23-00LA-0058-0000	T.L. Weinsdorffer and Mary K. Weinsdorffer, harboard and wife	Champania Appelación, L.L.C. SWN Production Company, LLC	18,00%	#13/27 6#3-575	0.00~
IJ.	03-001-4-0031-0000	Prof. L. Berror and Kathlana R. Burea, Instead and wife	Clemento Appaladás, L.L.C.	11.05%	\$13/662	0.00%
h	e1 0e1 4 ee10 noon	T.L. Ministerfür und Alory K. Windowskerfür, benhand und wife	SWN Production Company, LLC Chemistrate Association, LLC:	[8,00%	\$13/587 113/19	
i)			5WN Production Company, 11.C		\$83/575	0.00%
1]	G-0G-A-0021-0000	William N. Hogan, Jr. and Sunn Cox Hogan, busband and with	Champada Appeladia, L.L.C. SWN Production Company, LLC	18.00%	\$36.760 \$85.716	0.00*4
4)	03-001.4-4015-0000	Michael D. Wasierberffer and Casi L. Wagierderffee, husband and with	Champain Appalachia, L.L.C.	LU.00%	#32 70	0.00*•
5)	ROCTE #	West Verginia Department of Transportation, Division of Highways	SWN Production Company, LLC Champenies Appulachie, L.L.C.	15,02%	285 680 850:11	
			BWN Production Company, LLC		683-620	0.00*+
6)	E3-00[A-000]-0000	Doughn Makkey, withrese, and Paul McKey and Delevath & McKey, busband and wife	Fartura Europy Luc. Russya Russarcon – Appellachies, £, £, €,	12.304	772/521 786/406	
			Champenio Appalachia, L.L.C.		\$0 B. 497	0.00%
		END OF EX	3 % N Production Company, LLC		313:139	

Office of Oil and Gas

JUN 1 4 2023

JUN 1 1 Protection



May 23, 2023

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

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

**RE:** SWN's proposed New Well: Glenn Didriksen OHI 5H in Ohio County, West Virginia, Drilling under Oglebay Drive, Emsley Ave, Liberty Way, G C and P Road and Dement Road.

Dear Mr. Brewer:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Oglebay Drive, Emsley Ave, Liberty Way, G C and P Road and Dement Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Respectfully,

SWN Production Company, LLC

Gavin Nadeau, RPL Senior Landman

Office of Oll and Gas

ELMIOUN

Rt wV+

The Right People doing the Right Things, wisely investing the cash flow from our underlying Asia (1) State (1) (1)

### 4706900358

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION 110

Date of Notic	ce Certification: UJ3	A	API No. 47	- 069 -	
Dute of 1 total	et cortineaton. 4(1)			Well No. Glenn	n Didriksen OHI 5H
				ame: Glenn D	
Notice has	been given:			-	
	ne provisions in West Virginia Code	§ 22-6A, the Operator has provide	ded the req	uired parties v	vith the Notice Forms listed
	tract of land as follows:				
State:	West Virginia		Easting:	534,501.32	
County:	069- Ohio	r	Northing:	4,440,491.64	
District:	Liberty	Public Road Acces		CR-33	
Quadrangle:	Bethany/Valley Grove	Generally used farm	m name:	Glenn Didriksen	
Watershed:	Upper Ohio South	3			
t has provident information reof giving the requirements Virginia Code	the secretary, shall be verified and s ed the owners of the surface describ equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen o e § 22-6A-11(b), the applicant shall t have been completed by the applican	bed in subdivisions (1), (2) and ection sixteen of this article; (ii) ervey pursuant to subsection (a) of this article were waived in we ender proof of and certify to the	d (4), substhat the reconstruction to the control of the control o	ection (b), sec quirement was en of this artic the surface ow	etion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY		s Notice Co	ertification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS		A TO A SEA TO	☐ RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or NO PLAT SURVEY	Y WAS CO	ONDUCTED	RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PI WAS CONDUCTED or			RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY (PLEASE ATTACH)	Y SURFAC	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				RECEIVED
■ 5. PUE	BLIC NOTICE				RECEIVED
■ 6. NO	TICE OF APPLICATION				RECEIVED
					O 685

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 written 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 affidable personal service, the return receipt card or other postal receipt for certified mailing.

#### Certification of Notice is hereby given:

THEREFORE, I Brittany Woody , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: SWN Production Co., LLC

By: Brittany Woody

Its: Staff Regulatory

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

Morgantown, WV 26508

Facsimile: 304-884-1690

Email: Brittany\_Woody@swn.com

JUSTIN BOOTH Notary Public Official Seal State of West Virginia Comm. Expires Mar 10, 2027 Scenery Drive Morgantown WV 26505

Subscribed and sworn before me this 2st day of \_ with

Notary Public

My Commission Expires

#### Oil and Gas Privacy Notice:

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

WW-6A (9-13) 47069 90035 API NO. 47-069 - OPERATOR WELL NO. Glenn Didriksen OHI 5H Well Pad Name: Glenn Didriksen

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

Noti	ce Time Requireme	nt: notice shall be provide	ded no later than	the filing date of permit application.
	of Notice: US ce of:	Date Permit Applicat	ion Filed: 🕡	13
<b>√</b>	PERMIT FOR ANY WELL WORK			ROVAL FOR THE IN IMPOUNDMENT OR PIT
Deli	very method pursua	ant to West Virginia Co	de § 22-6A-10(	(b)
	PERSONAL SERVICE	☑ REGISTERED MAIL		DD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION
certification ce	ficate of approval for tered mail or by any rement control plan requerface of the tract on and gas leasehold being tibed in the erosion are ator or lessee, in the erosio seams; (4) The work, if the surface to the tract of the work, if the surface to the work, if the surface to the work, if the surface to the work water well, spring of the water for consumptions water well, spring of the water for consumptions with the work activities of the sheriff requision of this article to the R. § 35-8-5.7.a required.	the construction of an impose the construction of an impose the propose of the which the well is or is proposed sediment control plan sevent the tract of land on wowners of record of the surfact is to be used for the place of	poundment or pit quires a receipt of his article, and the posed to be local ed well work, if ubmitted pursual which the well pro- frace tract or trac- lacement, constru- his article; (5) A atted within one to the animals; and f more than three hids, the applican- quant to section e en holder is not atter shall also pri	of the application, the applicant for a permit for any well work or for a as required by this article shall deliver, by personal service or by a signature confirmation, copies of the application, the erosion and see well plat to each of the following persons: (1) The owners of record of ted; (2) The owners of record of the surface tract or tracts overlying the the surface tract is to be used for roads or other land disturbance as not to subsection (c), section seven of this article; (3) The coal owner, apposed to be drilled is located [sic] is known to be underlain by one or control of the original proposed determined by the proposed
☑ A	pplication Notice	☑ WSSP Notice ☑ E&	S Plan Notice	☑ Well Plat Notice is hereby provided to:
	JRFACE OWNER(s			COAL OWNER OR LESSEE
	e: Patricia Baker Didrikser	1	-:	Name: Alliance Resources GP, LLC Address: 184 Schoolhouse Lane
100000000000000000000000000000000000000	ress: 200 Didriksen Dr		-	Valley Grove, WV 26060
	elphia, WV 26059		-	COAL OPERATOR
Nam			-	Name:
Auu	1033.		-	Address: 60 Ga6
ПSI	IRFACE OWNER(s	(Road and/or Other Dis	sturbance)	CENVE and
		7.3		☑ SURFACE OWNER OF WATER WELL
Add	ress:			Address:  SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR SAInce Name: See Attachment 13A Address:  MANDION WATER PURVEYOR SAInce Name: See Attachment 13A Address:
				Name: See Attachment 13A
Nam	ne:		_	Address: Je garme Protein
Add	ress:		_	Name: See Attachment 13A  Address:
-0-	IDEACE OUNTED!	\//Immaumdmants on Pit-	<u> </u>	Name:
_		s) (Impoundments or Pits	)	Address:
Nan	rece:			Addition.
Add	1035.		_	*Please attach additional forms if necessary

### GLEN DIDRIKSEN PAD WATER SOURCES ATTACHMENT 13

	ADDRESS	CITY_STATE_ZIP	WATERSOURCES
03 L10004000000000 LASCH ROBT W & DONNA		TRIADELPHIA, WV 26059	

Office of Oil and Ges

JUN 142023

JUN 1622 A College of College o

#### 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### 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 sufficiency according to the surface of the surface o employed during well site construction, drilling and operations to protect the waters of the state of 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

APING 7-06-9-00358

OPERATOR WELL NO. Glenn Didriksen OHI 5H

Well Pad Name: Glenn Didriksen

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

#### Written Comment:

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

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

RECEIVED
Office of Oil and Gas

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.

Environmental Protection

JUN 142023

WW-6A (8-13) API No. 77- 09 6 9 0 0 3 5 8
OPERATOR WELL NO. Glenn Didriksen OHI 5H
Well Pad Name: Glenn Didriksen

#### 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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

JUN 1 4 2023

Vivi Department di Environmental Protection WW-6A (8-13)

OPERATOR WELL NO. Glenn Didriksen OHI 5H Well Pad Name: Glenn Didriksen

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1610 Email: Brittany\_Woody@swn.com Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

#### Oil and Gas Privacy Notice:

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

JUSTIN BOOTH Notary Public Official Seal State of West Virginia My Comm. Expires Mar 10, 2027 41 Scenery Drive Morgantown WV 26505

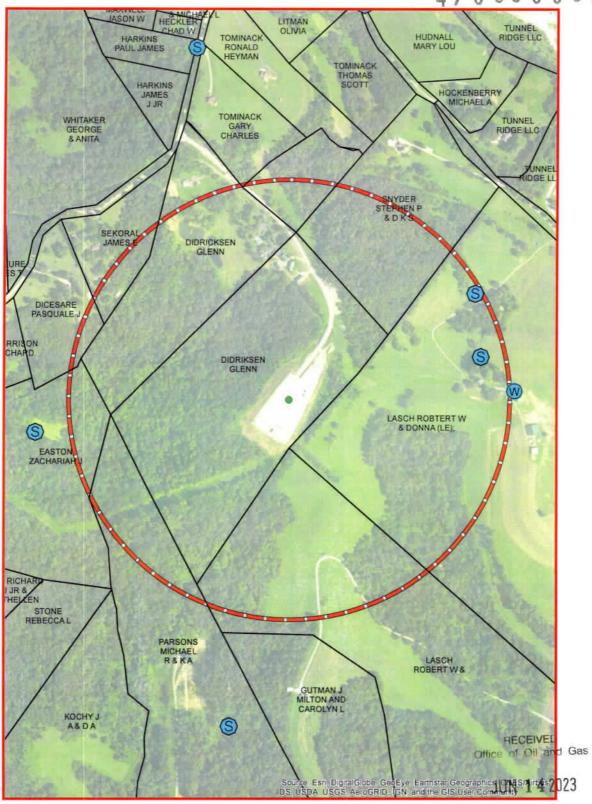
Subscribed and sworn before me this 4st day of June 2023

My Commission Expires

RECEIVED Office of Oil and Gas

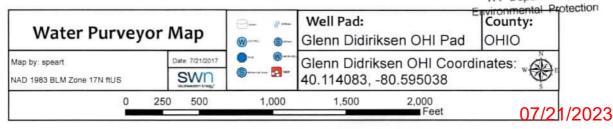
JUN 1 4 2023

WV Department of Environmental Protection



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

WV Department of



WW-6A3 (1/12)

# STATE OF WEST VIRGINIA 47 0 6 9 0 0 3 5 8 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

	equirement:	Notice shall be prov	ided at	least SEVEN (7)	day	s but no more than	FORTY-FIVE (45) days prior to		
entry  Date of Notice	- 5/18/2023	Date of Pla	nned E	ntry: 5/25/2023					
Date of Notice	• =====================================	Date of Fin	inca L						
Delivery meth	od pursuant	to West Virginia C	ode § 2	2-6A-10a					
☐ PERSON	AL I	REGISTERED		METHOD OF D	EL	IVERY THAT RE	QUIRES A		
SERVICE		MAIL		RECEIPT OR SI	GN	ATURE CONFIR	MATION		
on to the surface but no more that beneath such the owner of miner and Sediment C Secretary, whice enable the surface	te tract to cond an forty-five d act that has fil als underlying Control Manua th statement sl ace owner to co	duct any plat survey lays prior to such en led a declaration put g such tract in the co al and the statutes ar hall include contact obtain copies from the	s require try to: ( suant to ounty tand and rules information	red pursuant to this  1) The surface own  a section thirty-six  ax records. The no  related to oil and  ation, including the	ner , ar tice gas	ticle. Such notice s of such tract; (2) to ticle six, chapter to shall include a stall exploration and pr	shall provide notice of planned entry hall be provided at least seven days or any owner or lessee of coal seams wenty-two of this code; and (3) any attement that copies of the state Erosion roduction may be obtained from the ge on the Secretary's web site, to		
Notice is hereb	T	0:				OUR IER OR LEGE	COPP		
SURFACE						OWNER OR LES	SSEE		
Name: Patricia Ba			- 5		Name: Alliance Resources GP, LLC Address: 184 Schoolhouse Lane				
Address: 200 Did Triadelphia, WV 2605			-		Valley Grove, WV 26060				
			-		e) or Alin				
Address:			-	■ MI	NE	RAL OWNER(s)			
				Name:	Patr	icia Baker Didriksen			
* T-200 Santo						200 Didriksen Dr.			
Address:				Triadelhpi					
			-	*please a	ttaci	additional forms if nec	cessary		
a plat survey or State: County:	est Virginia Con the tract of l West Virginia Ohio	ode § 22-6A-10(a), and as follows:	notice i		atitu	ude & Longitude:	operator is planning entry to conduct  39.694557, -80.595000  CR-33  Upper Ohio South		
	Liberty			Generally used farm name:		d farm name:	Glenn Didriksen		
Copies of the s may be obtaine Charleston, W	ed from the Se V 25304 (304	cretary, at the WV I	Departr of suc	al and the statutes nent of Environme h documents or ad	and nta	d rules related to oi I Protection headquional information re	il and gas exploration and production parters, located at 601 57th Street, SE, elated to horizontal drilling may be		
Notice is her		y:		D # 755# J# 62×00×10					
Well Operator:		TION COMPANY, LLC		Address	:	1300 Fort Pierpont Dr.,			
Telephone:	304-884-1610					Morgantown, WV 26508	3		
Email:	Brittany_Woody	@swn.com		Facsimi	e:	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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

WW-6A3 (1/12)

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

Notic	ce Time F	Requirement:	Notice shall be provide	ded at	least SEVEN (7) day	s but no more than	FORTY-FIVE (45) days prior to	
entry Date		5/18/2023	Date of Plans	ned E	ntry: 5/25/2023			
Deliv	ery meth	od pursuant	to West Virginia Co	de § 2	2-6A-10a			
	PERSON SERVICE	77.47-20	REGISTERED MAIL		METHOD OF DELI RECEIPT OR SIGN			
on to but no benea owne and S Secre enabl	the surface o more that such the er of mine Sediment ( etary, which le the surf	ce tract to cond an forty-five d ract that has fil rals underlying Control Manua ch statement sl	duct any plat surveys ays prior to such entry led a declaration purse g such tract in the cou al and the statutes and hall include contact in obtain copies from the	requir y to: ( uant to nty ta: rules	ed pursuant to this art 1) The surface owner o section thirty-six, ar ox records. The notice related to oil and gas tion, including the ad	icle. Such notice s of such tract; (2) t ticle six, chapter to shall include a sta exploration and pr	shall provide notice of planned entry hall be provided at least seven days o any owner or lessee of coal seams wenty-two of this code; and (3) any tement that copies of the state Erosion roduction may be obtained from the ge on the Secretary's web site, to	
		E OWNER(s)			☐ COAL	OWNER OR LES	SSEE	
					Name:	Name:		
					Address:			
Name	e:				■ MINE	RAL OWNER(s)		
Addr	ess:							
Mam	0.1					D Fast Foods, Inc. 00 Didriksen Dr.		
Addr	ecc.				Triadelhpia, W			
ruui	C33.					additional forms if nec	cessary	
Pursu a plat State Coun Distr	uant to We t survey o : nty: rict:	on the tract of I West Virginia	ode § 22-6A-10(a), no and as follows:		Approx. Latitu Public Road A Watershed:	ide & Longitude:	operator is planning entry to conduct 39.694557, -80.595000 CR-33 Upper Ohio South	
Quad	frangle:	Valley Grove			Generally use	d farm name:	Glenn Didriksen	
may Char	be obtain leston, W	ed from the Se V 25304 (304	cretary, at the WV De	epartn of sucl	nent of Environmenta n documents or additi	l Protection headquoinal information r	il and gas exploration and production uarters, located at 601 57th Street, SE, elated to horizontal drilling may be	
Noti	ice is her	eby given by	y:					
	Operator	The second secon	TION COMPANY, LLC		Address:	1300 Fort Pierpont Dr.,	Suite 201	
Telep	phone:	304-884-1610				Morgantown, WV 26508	3	
Ema	il:	Brittany_Woody	@swn.com		Facsimile:	304-884-1690		

Oil and Gas Privacy Notice:

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WW-6A4 (1/12)

4706900358

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

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

Notice Time Date of Notic	Requirement: Notice shall be provided a ce: 05/31/2023 Date Per	t least TEN (10) days prior to filing a	permit application.
Delivery met	thod pursuant to West Virginia Code § 2	22-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE	ERY RETURN RECEIPT REC	QUESTED	
receipt reque drilling a hor of this subsec- subsection mand if availab	sted or hand delivery, give the surface own izontal well: <i>Provided</i> , That notice given tion as of the date the notice was provided	pursuant to subsection (a), section to to the surface owner: Provided, howner. The notice, if required, shall includers of the operator and the operator	an operator shall, by certified mail return the surface owner's land for the purpose of the notice satisfies the requirements wever, That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
Name: Patricia			
Address: 200	Didricksen Drive	Address:	
Triadel	bhia, WV 26059		
State: County:	wner's land for the purpose of drilling a ho	UTM NAD 83 Easting: Northing:	534501.32 44440491.64
District:	Liberty Constant	Public Road Access: Generally used farm name:	Battle Run Road Glenn Didricksen
Quadrangle: Watershed:	Bethany, Valley Grove Upper Ohio South	Generally used farm name:	Glerin Dionoxsen
Pursuant to 'facsimile nur related to hor	mber and electronic mail address of the	operator and the operator's authorize e Secretary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep. wv. gov/oil-and-gas/pages/default.aspx.
	reby given by. or: SWN Production Company, LLC	Authorized Representative:	Reid Croft
Address:	1300 Fort Pierpoint Drive, Suite 201	Address:	1300 Fort Pierpoint Drive, Suite 201
	Morgantown, WV 26508		Morgantown, WV 26508
Telephone:	304-231-8329	Telephone:	304-231-8329
Email:	reid_croft@swn.com	Email:	reid_croft@swn.com
Facsimile		Facsimile:	

#### Oil and Gas Privacy Notice:

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WW-6A5 (1/12)

# STATE OF WEST VIRGINIA 4706900358 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Delivery method pursuant to West Virginia Code § 22-6A-16(c)  CERTIFIED MAIL  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: 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:  W// UTM NAD 83 Northing:  State:  W// UTM NAD 83 Northing:  Same Benney, Valley Grow  Public Road Access:  Generally used farm name:  Generally used farm name:  Generally used farm name:  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 on the trace of the section of the surface affected by oil and gas operations to the extent t		e Time Re of Notice:	quirement: notice shall be prov 05/31/2023 Date Per	rmit Application		date of permit	application.
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 our operation 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: Parical Baker Dirinches Instantial Parical Baker Dirinches Instantial Parical Baker Dirinches Instantial B	Deliv	ery metho	d pursuant to West Virginia C	Code § 22-6A-16	6(c)	•	
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(at the address listed in the records of the sheriff at the time of notice):  Name: Patricia Baker Didricksen Drive Triadelphia, W7 26059  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 County: Ohio UTM NAD 83 Easting: Stating: Northing: District: Uberty Public Road Access: Battle Run Road District: Uberty Public Road Access: Battle Run Road Quadrangle: Bethany, Valley Grove Generally used farm name: Glenn Didricksen  Watershed: Upper Ohio South  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 www.dep.wv.gov/oil-and-gas/pages/default.aspx.  Well Operator: SWN Production Company, LLC. Address: 1300 Fort Pierpoint Drive, Suite 201  Telephone: 304-231-8329	return the pl requir drillin damas (d) Th	lanned ope red to be prong of a hor- ges to the some notices in	quested or hand delivery, give the ration. The notice required by rovided by subsection (b), section rizontal well; and (3) A proposi- surface affected by oil and gas of	this subsection on ten of this arti- ed surface use a perations to the	er whose land in shall inclu- icle to a surf- and compens extent the da	I will be used for de: (1) A copy ace owner whost sation agreement images are comp	or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter.
Address: 200 Didricksen Drive Triadelphia, WV 26059  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	(at the	e address li	sted in the records of the sheriff	OWNER(s) at the time of n			
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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 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a> .  Well Operator: <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">SWN Production Company, LLC</a> .  Address: <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">1300 Fort Pierpoint Drive, Suite 201</a> Morgantown, WV 26508		_					
Telephone: 304-231-8329 Morgantown, WV 26508	This Pursu to be horize surface inform heade	Notice Sha ant to Wes provided ontal well; ce affected mation rela	st Virginia Code § 22-6A-16(c), by W. Va. Code § 22-6A-10(b and (3) A proposed surface use by oil and gas operations to the atted to horizontal drilling may ocated at 601 57th Street, SE,	to a surface of and compensative extent the data be obtained from	owner whose tion agreeme mages are co m the Secre	e land will be un nt containing ar ompensable und tary, at the WV	used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection
The confined floor	Well	Operator:	SWN Production Company, LLC.		Address:	1300 Fort Pierpoint	Drive, Suite 201
Email: reid_croft@swn.com Facsimile:	Telep	hone:	304-231-8329			Morgantown, WV 26	6508
	Emai	1:	reid_croft@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 <a href="deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

### **Division of Highways**

1900 Kanawha Boulevard East • Building Five • Room 110

Gregory L. Bailey, P.E. Interim State Highway Engineer Charleston, West Virginia 25305-0430 • (304) 558-3505

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

May 26, 2023

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 Glen Didriksen Pad, Ohio County Glen Didriksen OHI 5H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0016 which has been issued to Southwestern Energy for access to the State Road for a well site located off Ohio County Route 33 SLS MP 2.13.

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,

Gary K. Clayton, P.E.

Dary K. Clayton

Regional Operations Engineer Central Office O&G Coordinator

Brittany Woody Cc: Southwestern Energy CH, OM, D-6

File

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			CAS Number
oduct Name	Michael Control of the Control of th	hemical Name thylene glycol	107-21 1
303 (U.S. Well Services)	Tributania -	Cinnamaldehyde	104-55 2
		sutyl cellosolve	111-76 2
		ormic acid	64-18 6
	F	Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
ONE (U.S. Well Services)	Breaker A	Ammonium persulfate	7727-54-0
tron K-139 (Champion Technologies)	Biocide	Siutaraldehyde	111-30-8
HOILE-Tas (Champian Lauring Bres)		and the second second of the second s	68424-85-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	64-17-5
		Methanol	67-56-1
tron K-219 (Champion Technologies)	piociae:	10000000	
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
boNRT		Ceramic Proppant	66402-68-4
6486A (Nalco Champion)		Amine Triphosphate	Proprietary
6486A (Naico Champion)		Ethylene Glycol	107-21-1
6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
by S4A (Citalipion (ecimologica)		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
ono-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
The second section is a second	- Communication of the second	Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2 50-00-0
		Formaldehyde	
opol-FEAC (SWN Well Services)	Hell celling.	Acetic Acid	64-19-7 77-92-9
		Citric Acid	7732-18-5
	The second secon	Water	Proprietary
P-S1176-15 (Halliburton)	Friction Reducer	Polyacylate Hudzetzeated light petroleum distillate	64742-47-8
		Hydrotreated light petroleum distillate	64674-47-8
OJET DR900 LPP (SWN Well Services)	(1.1) in a contract of the con	Distillates (petroleum) hydrotreated light	107-21-1
		Ethylene Glycol Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
The same and the same same same same same same same sam		Proprietary	Proprietary
OJET DRP 1130X (SWN Well Services)	Citization (See seaso)	Hydrotreated light petroleum distillate	64742-47-8
-76 (Halliburton)		Inorganic Salt	Proprietary
YPTRON T-390 (Champion Technologies)		Methanol	67-56-1
FFIRON 1-390 (Champion reciniologies)	Scare minores.	Nonylphenol Ethoxylate	Proprietary
Al-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
CL (SWN Well Services)		Hydrochloric Acid	7647-01-0
or loads men services)	11/4/4/10/10/10/10	Water	7732-18-5
-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
65 MC (Halliburton)	Scale IIIIIIIII	Ammonium Chloride	12125-02-9
PTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
exslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
EXSILEX 550		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4 12125-02-9
		Ammonium Chloride	
		Petroleum Distillate	64742-47-8
exslick 953	Friction Reducer		7647 44 5
exslick 953	Friction Reducer	Sodium Chloride	7647-14-5
exslick 953	Friction Reducer	Sodium Chloride Ammonium Chloride	12125-02-9
		Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide	12125-02-9 93-83-4
	Friction Reducer Friction Reducer	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate	12125-02-9 93-83-4 64742-47-8
		Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride	12125-02-9 93-83-4 64742-47-8 12125-02-9
		Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide	12125-02-9 93-83-4 64742-47-8
		Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4
lexslick 957	Friction Reducer	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2
lexslick 957		Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5
lexslick 957	Friction Reducer	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distiliate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distiliates (petroleum), hydotreated light	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5
Plexslick 957	Friction Reducer	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5
lexslick 957 lexslick V996	Friction Reducer no data available	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8
lexslick 957 lexslick V996	Friction Reducer no data available	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5
lexslick 957 lexslick V996 VFRA-2000 (U.S. Well Services)	Friction Reducer  no data available  Anionic Friction Reducer	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distiliate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distiliates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum)	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8
lexslick 957  lexslick V996  VFRA-2000 (U.S. Well Services)	Friction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distiliate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distiliates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distiliate (petroleum) Propenoic acid, polymer with propenamide	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4
lexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)	Friction Reducer  no data available  Anionic Friction Reducer	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8
Plexslick 957 Plexslick V996 WFRA-2000 (U.S. Well Services)	Friction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distiliate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distiliates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI)	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9
lexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)	Friction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor no data available	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Cleic Acid Diethnolamide	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4
exslick 957  lexslick V996  VFRA-2000 (U.S. Well Services)  lexslick 922	Friction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distiliate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distiliates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distiliate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distiliates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 
lexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)  Plexslick 922	Friction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor no data available	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Cleic Acid Diethnolamide	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1
lexslick 957  lexslick V996  VFRA-2000 (U.S. Well Services)  Vlexslick 922	Friction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor no data available	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distiliate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distiliates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distiliate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distiliates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5
lexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)  Plexslick 922  Folcide 4Frac	riction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor  no data available  Mixture	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distiliate Ammonium Chloride Oleic Acid Diethanolamide Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1
lexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)  Plexslick 922  Folcide 4Frac	Friction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor no data available	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8
Plexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)  Plexald 655 NM  Plexslick 922  Tolcide 4Frac	riction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor  no data available  Mixture	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distiliate Ammonium Chloride Oleic Acid Diethanolamide Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8
Plexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922  Tolcide 4Frac	riction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor no data available  Mixture  Biocidal product	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distiliate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distiliates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distiliate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distiliates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8 397256-50-7 64742-47-8
Plexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922  Tolcide 4Frac	riction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor  no data available  Mixture	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distiliate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distiliates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distiliate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distiliates (petroleum), hydotreated light Ammonium chloride ((NH4)Cl) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distiliate Ethoxylated alcohol	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55556-30-8 68424-85-1 64-17-5 55566-30-8 397256-50-7 64742-47-8 Proprietary
Plexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922  Tolcide 4Frac	riction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor no data available  Mixture  Biocidal product	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8 397256-50-7 64742-47-8 Proprietary 69011-36-5
Plexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922  Tolcide 4Frac  Tolcide PSSOA	riction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor no data available  Mixture  Blocidal product  Friction Reducer	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distiliate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distiliates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distiliate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distiliates (petroleum), hydotreated light Ammonium chloride ((NH4)Cl) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distiliate Ethoxylated alcohol	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8 397256-50-7 64742-47-8 Proprietary 69011-36-5 67-56-1
Plexslick 953  Plexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)  Plexslick 922  Tolcide 4Frac  Tolcide PS50A  LD-2950  Legend LD-7750W	riction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor no data available  Mixture  Biocidal product	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distiliate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distiliates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distiliate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distiliates (petroleum), hydotreated light Ammonium chloride ((NH4)Cl) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distiliate Ethoxylated alcohol Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8 397256-50-7 64742-47-8 Proprietary
Plexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)  Plexslick 922  Tolcide 4Frac  Tolcide PS50A  LD-2950  Legend LD-7750W	riction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor no data available  Mixture  Blocidal product  Friction Reducer	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)Cl) Cleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched Methanol	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55556-30-8 68424-85-1 64-17-5 55566-30-8 397256-50-7 64742-47-8 Proprietary 69011-36-5 67-56-1 Proprietary 7631-99-4
Plexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)  Plexslick 922  Tolcide 4Frac  Tolcide PS50A  LD-2950  Legend LD-7750W  MC MX 8-4743	riction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor no data available  Mixture  Blocidal product  Friction Reducer  Scale Control	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol Poly (oxy-1.2-ethanediyl) alpha-tridecylomegahydroxy-, branched Methanol Phosphonic Acid Salt	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06 9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 397256-50-7 64742-47-8 Proprietary 69011-36-5 67-56-1 Proprietary 7631-99-4 6381-77-7
Plexslick 957  Plexslick V996  WFRA-2000 (U.S. Well Services)  Plexaid 655 NM  Plexslick 922  Tolcide 4Frac  Tolcide PS50A  LD-2950  Legend LD-7750W	Friction Reducer  no data available  Anionic Friction Reducer  Scale Inhibitor no data available  Mixture  Biocidal product  Friction Reducer  Scale Control  Specialty Product	Sodium Chloride Ammonium Chloride N,N-bis (2-hydroxyethyl) oleamide Petroleum Distillate Ammonium Chloride Oleic Acid Diethanolamide Alcohols, C12-16, Exoxylated Water Copolymer of 2-Propeenamide Distillates (petroleum), hydotreated light Alcohol Ethoxylate Surfactant Hydrotreated light distillate (petroleum) Propenoic acid, polymer with propenamide Diethylenetriamine penta (methylene phosphonic acid) Copolymer of 2-propenaminde Distillates (petroleum), hydotreated light Ammonium chloride ((NH4)CI) Oleic Acid Diethnolamide Phosphonium, tetrakis (hydroxymethyl), Sulfate Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched Methanol Phosphonic Acid Salt Sodium Nitrate	12125-02-9 93-83-4 64742-47-8 12125-02-9 93-83-4 68551-12-2 7732-15-5 64742-47-8 9003-06-9 15827-30-8 69418-26-4 64742-47-8 12125-02-9 93-83-4 55566-30-8 68424-85-1 64-17-5 55566-30-8 397256-50-7 64742-47-8 Proprietary 69011-36-5 67-56-1 Proprietary 7631-99-4

As of 9/8/2022

OPERATOR:	SWN Production Co., LLC	WELL NO: Glenn Didriksen OHI 5H
PAD NAME:_	Glenn Didriksen	- 1.1
REVIEWED F	BY:	signature: Buttony Woody

### WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

Well Restri	# Pad Built 12/10/10
	At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
	DEP Waiver and Permit Conditions
	At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
	DEP Waiver and Permit Conditions
	At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
	DEP Waiver and Permit Conditions
$\checkmark$	At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions
	At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions
	At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
	Surface Owner Waiver and Recorded with County Clerk, OR
	DEP Variance and Permit Conditions

# 2000 3000

SCALE 1" =1000'

### **GLENN DIDRIKSEN PAD CONSTRUCTION AS-BUILT** LIBERTY DISTRICT, OHIO COUNTY, WV MAY 2017

COORDINATES: SITE ENTRANCE (NAD 83)

LAT: 40.119029 LONG: -80.597673

AT DIDRIKSEN PAD (NAD 83) LAT: 40.114523

LONG: -80.594813

CENTER OF PAD (NAD 83) LAT: 40.114097 LONG: -80.595004

**GATHERING AREA** (NAD 83)

LAT: 40.119078 LONG: -80.597596

DIDRIKSEN 1H 47-069-00123 (NAD 83) LAT: 40.114065 LONG: -80.595112 DIDRIKSEN 6H 47-069-00188 (NAD 83) LAT: 40.113938

LONG: -80.595043 DIDRIKSEN 8H 47-069-00064 (NAD 83) LAT: 40.114066 LONG: -80.595021 DIDRIKSEN 10H 47-069-00191 (NAD 83) LAT: 40.114040 LONG: -80.594955 DIDRIKSEN 205H

EXISTING WELLS:

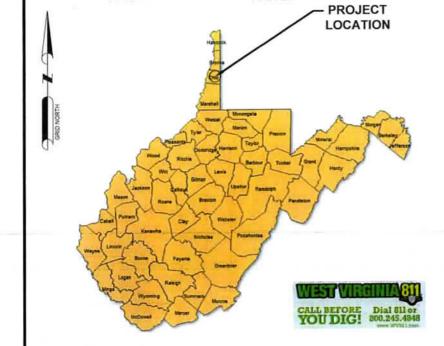
47-069-00189 (NAD 83) LAT: 40.113971 LONG: -80.595016 DIDRIKSEN 210H

47-069-00190 (NAD 83) LAT: 40.113907 LONG: -80.595071

C-001	COVER SHEET
C-101	<b>EVACUATION ROUTE / PREVAILING WINDS</b>
C-102	<b>EVACUATION ROUTE / PREVAILING WINDS</b>
C-201	AS-BUILT / CONSTRUCTION OVERVIEW
C-301	AS-BUILT / CONSTRUCTION PLAN
C-302	AS-BUILT / CONSTRUCTION PLAN
C-303	AS-BUILT / CONSTRUCTION PLAN
C-401	CONSTRUCTION AS-BUILT ACCESS ROAD PROFILE
R-501	RECLAMATION PLAN OVERVIEW
R-601	RECLAMATION PLAN
R-602	RECLAMATION PLAN
R-603	RECLAMATION PLAN
R-604	RECLAMATION DETAILS
R-605	RECLAMATION DETAILS
R-606	RECLAMATION DETAILS



	QUANTI	TIES TABLE		
PREDRILLING	QTY./SIZE	RECLAMATION	QTY./SIZE	
ROAD OVER BERM	48 CY of #57 STONE	DISCHARGE AREAS	AASHTO #3 = 18 CY	
CATCH BASINS	2 EA.	RIPRAP	RIPRAP D50 6" = 40 CY	
4" PVC DRAIN PIPES	111 LF	BREACH AREAS	3 EA.	
4" STEEL GATE VALVE	2 EA.	WELL CELLARS - 60" CMP	6 EA.	
ANTI-SEEP COLLARS	4 EA.			
	AASHTO #3 = 1.25 CY			
OUTLET PROTECTION	RIPRAP D50 6" = 3.75 CY			



LOD	
DESCRIPTION	ACRES
ROAD DISTURBED AREA	3.22
PAD DISTURBED AREA	5.79
TOTAL	9.01



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#### **GLENN DIDRIKSEN COVER SHEET C-001**

LIBERTY DISTRICT, OHIO COUNTY, WV.

	05-17-17	M22	05-17-17	JPD	05-17-17	JHA ENGINEERS ENVIRONMENTAL
на: -342	Didriksen As-B	uit Plans.dv	vg.			Conferency ICI2 MYESSED

