

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

May 04, 2015

#### WELL WORK PERMIT

#### Horizontal 6A Well

This permit, API Well Number: 47-6900188, issued to SWN PRODUCTION COMPANY, LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

ames Martin

Chief

Operator's Well No: GLEN DIDRIKSEN OHI 6H

Farm Name: GLEN DIDRIKSEN

API Well Number: 47-6900188

Permit Type: Horizontal 6A Well

Date Issued: 05/04/2015

API Number: 69-00188

### **PERMIT CONDITIONS**

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

#### **CONDITIONS**

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) 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. 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.
- 8. 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.
- 9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of

Office of Oil and Gas

4706900188 #1,4,10

WW-6B (10/14) MAR 25 2015

#### WV Department of Environmental Protection

API NO. 47- 69 OPERATOR WELL NO. Glenn Didriksen OHI BH
Well Pad Name: Glenn Didriksen PAD

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

1) Well Operat	or: SWN F	Production	Co., LLC	494512924	69- Ohio	3- Libert	648- Valley Grove
			****	Operator ID	County	District	Quadrangle
2) Operator's V	Well Number	r: Glenn Di	driksen O	HI 6H Well Pad	Name: Glenr	n Didrikser	PAD
3) Farm Name/	Surface Ow	ner: Glenn	Didriksen	Public Road	d Access: Batt	tle Run Ro	ad
4) Elevation, co	urrent groun	d: 1382'	El	evation, proposed p	oost-construction	on: 1382'	
5) Well Type	(a) Gas	х	Oil	Unde	rground Storag	ge	A CONTRACTOR OF THE PARTY OF TH
	Other					***************************************	
	(b)If Gas	Shallow	x	Deep			
		Horizontal	X	***			$\bigcap$ $\alpha$
<ol><li>6) Existing Pac</li></ol>	l: Yes or No	yes	***************************************				710
				ipated Thickness ar get Base TVD- 6425', A			
	-	AND DESCRIPTION OF THE PARTY OF		get base 1 VD- 0425 , A	inacipated Triickne	SS- 60, ASSOC	lated Pressure- 4095
8) Proposed To		-			****		T 11 10 10 10 10 10 10 10 10 10 10 10 10
9) Formation a	t Total Verti	cal Depth:	Marcellus				
10) Proposed T	otal Measur	ed Depth:	13,900'			THE PARTY OF THE P	144 Secreta Michigan (Para Secretaria)
11) Proposed F	Iorizontal Le	eg Length:	6365'	Marie de la companya	15,000.0		terrore and a supplier of the
12) Approxima	ite Fresh Wa	iter Strata De	epths:	194'		100-01-00	eneman su
13) Method to	Determine F	resh Water	Depths: f	rom log analysis a	and nearby wa	ater wells	
14) Approxima	ite Saltwater	Depths: 7	81'				
15) Approxima	te Coal Sear	n Depths: _6	361'				
16) Approxima	te Depth to l	Possible Vo	id (coal mi	ne, karst, other): _6	361' abandone	ed mine	
17) Does Propo directly overlyi				Yes	No	x	
(a) If Yes, pro	ovide Mine I	nfo: Name	): 				
		Depth	1:		Water W. A.		
		Seam	:		w 44.500 Miles		
		Owne	 er:				

## RECEIVED Office of Oil and Gas

4706900188

WW-6B (10/14)

MAR 2 5 2015

API NO. 47- 69 OPERATOR WELL NO. Glenn Didriksen OHI 6H
Well Pad Name: Glenn Didriksen PAD

18)

# WV Department of Environmental Brotephogram

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	J-55	54.5#	736'	736'	637 sx/CTS
Coal	9 5/8"	New	J-55	40#	2300'	2300'	841 sx/CTS
Intermediate	7"	New	P-110	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	P-110	20#	13,900'	13,900'	Lead 938 ax 1688 tall sx/100° inside integral
Tubing	2 3/8'	New	P-110	4.7#	Approx. 6793'	Approx. 6793'	
Liners							L. D. W. C.

GC54/8/15

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	3250	Class A	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners					нь-х		

#### **PACKERS**

10K Arrowset AS1-X	
5 1/2"	

Page 2 of 3

## RECEIVED Office of Oil and Gas

4706900188

#7

WW-6B (10/14)

MAR 2 5 2015

API NO. 47- 69 OPERATOR WELL NO. Glenn Didriksen OHI 6H
Well Pad Name: Glenn Didriksen PAD

### WV Department of Environmental Protection

19) Describe proposed well work, including the drilling and plugging back of any pilot hole: Drill and stimulate any potential zones between and including the Benson to Marcellus. \*\*If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface. Run casing not less than 20' below void nor more than 50'-75' below void. (\*If freshwater is encountered deeper than anticipated it must be protected, set casing 50'-75' 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. The well is produced through surface facilities consisting of high pressure production unites, vertical separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 80 barrels a minute. 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 9.8 22) Area to be disturbed for well pad only, less access road (acres): 4.0 23) Describe centralizer placement for each casing string: All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing. 24) Describe all cement additives associated with each cement type: See Attachment \*\*\* 25) Proposed borehole conditioning procedures: All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

\*Note: Attach additional sheets as needed.

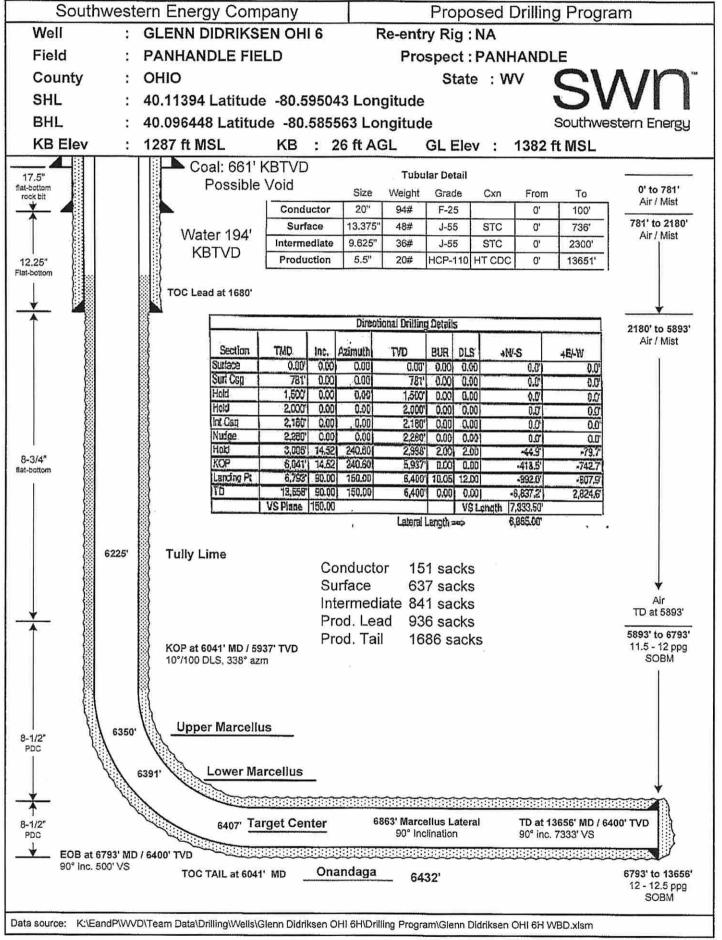
Page 3 of 3

GC84/8/15

# Office of Oil and Gas

### MAR 2 5 2015

### WV Department of Environmental Protection



Decider	7631-86-9	10043-35-3	0004 48 3	c-61-1000	25322-69-4	14808-60-7	proprietary	r	0-00-09	8031-18-3	25322-69-4	proprietary		7757-82-6	14808-60-7	proprietary	14808-60-7		and distance of the second	proprietary	proprietary	7727-43-7	proprietary	proprietary	56-81-5	
CER	The selling will be an in the selling of the sellin	HOI FO yeldillife ellica	boric acid	Fuller's earth (attapulgite)	Polypropylene glycol	chrystalline silica	metal oxide	sulphonated synthetic polymer	formaldehyde (impurity)	Fuller's earth (attabulgite)	Polypropylene alycol	laliphatic amide polymer	Sodium Polynaphthalene Sulf	Sodium Sulfate	chrystalline silica	metal oxide	christalline silica	oll ystannic smod		Carbohydrate	Silica Organic Polymer	harium sulfate	fatty acid amine	ethoxylated alcohol	divoerol	100
D154 D400 D046 D201 D202 D065 D065 D201 D201 D163 SPACER B389 D206 D031		low-temperature extender	EasyBLOK		antifoam		basic cements enabler	low temperature solid	Jow-temperature come	dispersant	antifoam	INIEI AC* S	TOTAL DISCOURT	TIC Dispersant		basic cements enabler	4.000	Anti-Settling Agent		MUDPUSH* Express	Antifoaming Agent	Authorito Paris	Daille			
		D154	D400		D046		D201		D202		D046	1076	U16/	5000		D201		D153	SPACER	B380	2000	UZO	D031			

47069 ^ ^ 4 28

% Concentration Used           0.2% BWOC           2% BWOC           2% BWOC           2% BWOC           1 Ib/bbi           20 Ib/bbi           0.12% BWOC           10.125 Ib/sk           10.15% BWOW           0.15% BWOC           20 Ib/bbi           1 Ib/bbi           1 Ib/bbi           0.05 gal/sk           0.02 gal/sk           0.02 gal/sk           0.02 gal/sk           0.02 gal/sk           0.04 gal/bbi           310 Ib/bbi           310 Ib/bbi           310 Ib/bbi		gal/bl	0.35% BWOC
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#### RECEIVED Office of Oil and Gas

4706900188 ±5+±6

WW-9 (9/13)

MAR 2 5 2015

API Number 47 - 69 - Operator's Well No. Glenn Didriksen OHI 8H

## WV Department of Environmental Protestate 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) Little Wheeling Creek Quadrangle 648- Valley Grove
Elevation 1382' County 69- Ohio District 3-Liberty
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used? Yes No V
If so, please describe anticipated pit waste: closed loop system in place at this time- cuttings will be taken to a permitted landfill.
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application Underground Injection (UIC Permit Number 2D0072539/ 2D0413175/ 2D0610306/ 2D0610317) Reuse (at API Number at next anticipated well, API# will be included with the WR-34/DDMR &/or permit addendum. Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain flow back fluids will be put in steel tanks and reused or taken to a permitted disposal facility.
Will closed loop system be used? If so, describe: Yes
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Alected to KOP, Pluls drill with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base
Additives to be used in drilling medium? see attached sheets
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? **SWT-1022, 53 Gradup SWT-1022, STORT COOK 1354-WATER POLLUTION PERMIT issued Argen Langfill 100/2, American U2-12954, Country Wide 38390/CID38390, Pine Grove 13688  I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature.
Company Official (Typed Name) Dee Southall
Company Official Title Regulatory Supervisor
Subscribed and sworn before me this 24/h  Subscribed and sworn before me this 24/h  Subscribed and sworn before me this 24/h  Notary Public, State of West Virginia  BRITTANY R WOODY  3302 Old Elkins Road  Buckhannon, WV 26201  My commission expires November 27, 2022

Glenn Didriksen OHI 6H Form WW-9 Operator's Well No. **SWN Production Co., LLC** Proposed Revegetation Treatment: Acres Disturbed 9.8 Prevegetation pH \_ as determined by pH test min. 2 Tons/acre or to correct to pH 6.5 10-20-20 Fertilizer type Fertilizer amount\_600 lbs/acre Mulch Hay/Straw 2.5 Tons/acre Seed Mixtures **Permanent Temporary** lbs/acre Seed Type lbs/acre Seed Type 15 White Grove White Grove Red Top Red Top 20 **Orchard Grass** 20 **Orchard Grass** Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by: with I which Comments: Received Office of Oil & Gas FEB 2 0 2015 Title: Oil and Gas Inspector Date: 1-28-15 ) No Field Reviewed?

#### Marcellus Well Drilling Procedures And Site Safety Plan

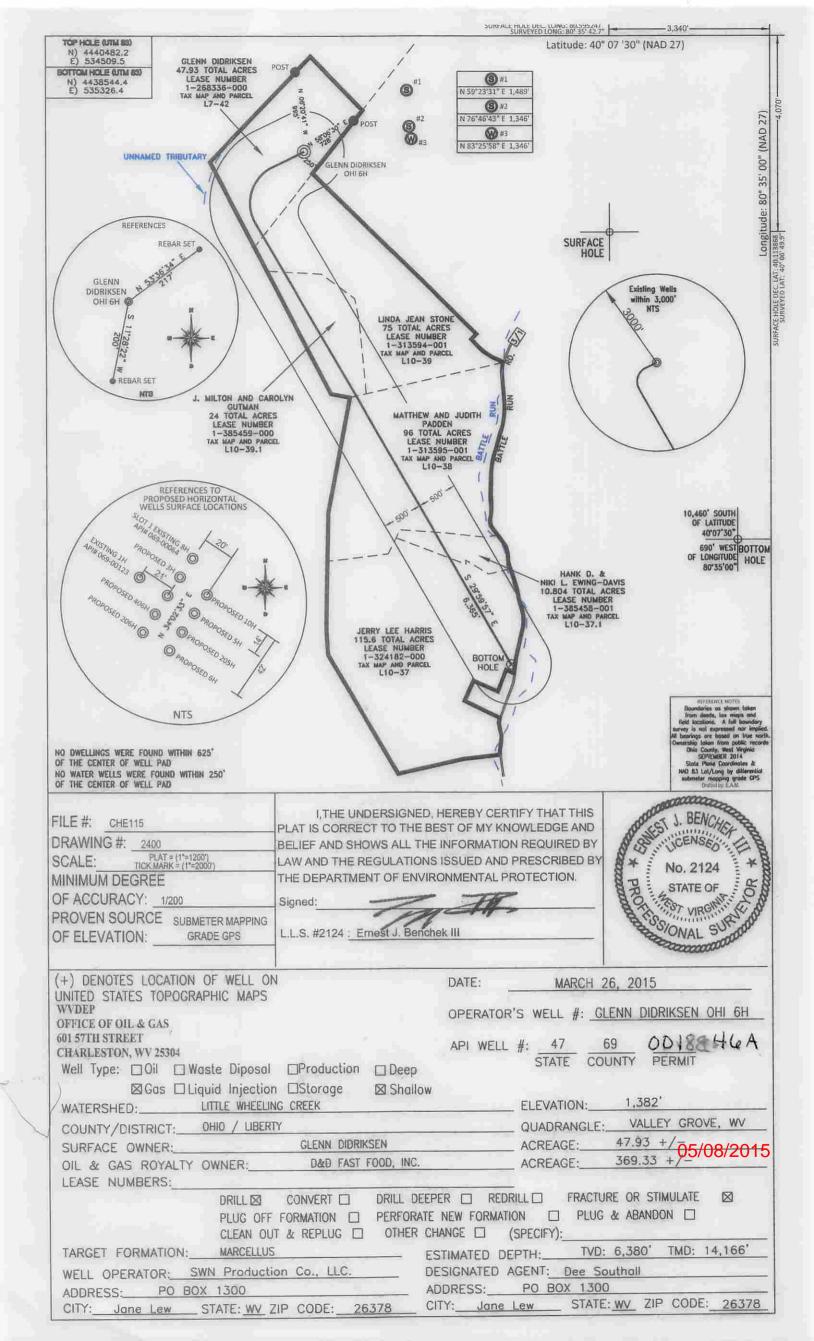
SWN Production Co., LLC

47 - 051 Well name: Glenn Didriksen OHI 6H
Valley Grove, Quad
Liberty, District
Ohio County, West Virginia

Ohi	o County, West Virginia
Submitted by:  Danielle Southall  Title Regulatory Supervisor	Wh H 1-29-15  Date:  SWN Production Co., LLC
Approved by:	
	Date:
Title:	_
Approved by:	
	Date:
Title:	3
SWN Production Co., LLC - Confidential	

Office of Oil & Gas FEB 2 0 2015

4706900188 WELL: GLENN DIDRIKSEN OHI 6H QUAD: VALLEY GROVE, WV 3 1018 BW C. Short GLENN DIDRIKSEN E Valley Grove Point Mills Creek Roneys Point Valley Camp 05/08/201 GRAPHIC SCALE



WW-6A1 (5/13) Operator's Well No. Didrikson OHI WH

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

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

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

Number Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty Book/F	Lease Name or	•			
	Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

See Exhibit "A"

Received
Office of OF \* Gas
FEB 2 0 2015

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

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

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

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

Well Operator:	SWN Production Company, LLC.
By:	Som Helphot
Its:	Sean McElwrath, Sr. Landman

Page 1 of

**EXHIBIT "A"**Attached to and made a part of the State of West Virginia Oli and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator
Glenn Didriksen OHI 6H
Ohio County, West Virginia

	5)	4	<u>(</u>	2)	±
	3-L10-37.1	3-L10-38	3-L10-39.1	3-L10-39	1) 3-17-42
1-385457-001	1-385458-001 1-385456-001	1-313595-001	1-385459-000	1-313594-001	1-268336-000
NPAR, LLC Chevron U.S.A. Inc. Chesapeake Appalachia, L.L.C. Larry Harris, II NPAR, LLC Chevron U.S.A. Inc. Chesapeake Appalachia, L.L.C.	Laura Hickman  NPAR, LLC  Chevron U.S.A. Inc.  Chesapeake Appalachia, L.L.C.  Don P. Harris	J. Matthew Padden & Judith M. Padden Great Lakes Energy Partners, L.L.C. Range Resources-Appalachia, LLC Range Resources-Appalachia, LLC Chesapeake Appalachia, L.L.C.	J. Milton Gutman and Carolyn L. Gutman NPAR, LLC Chevron U.S.A. Inc. Chesapeake Appalachia, L.L.C.	Robert Walter & Donna Jean Lasch, h/w Great Lakes Energy Partners, L.L.C. Range Resources-Appalachia, LLC Range Resources-Appalachia, LLC Chesapeake Appalachia, L.L.C.	D&D Fast Food, Inc. Chesapeake Appalachia, L.L.C.
Chevron U.S.A Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC NPAR, LLC Chevron U.S.A Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	NPAR, LLC Chevron U.S.A inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC NPAR, LLC	Great Lakes Energy Partners, L.L.C. Range Resources-Appalachia, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	NPAR, LLC Chevron U.S.A Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	Great Lakes Energy Partners, L.L.C. Range Resources-Appalachia, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC
·	18%	15.5%	18%	15.5%	12.5%
827/284 867/713 883/623 814/343 827/284 867/713 883/623	814/345 827/284 867/713 883/623 814/341	767/786 See Attachment 820/657 820/665 884/73	815/415 827/284 867/713 883/623	768/793 See Attachment 820/657 820/665 884/73	791/455 885/248

05/08/2015

**EXHIBIT "A"**Attached to and made a part of the State of West Virginia OII and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator
Glenn Didriksen OHI 6H
Ohio County, West Virginia

I						
ඉ	3-L10-37	1-324182-000	Jerry Lee Harris, single	Great Lakes Energy Partners, L.L.C.	12.5%	778/268
			Great Lakes Energy Partners, L.L.C.	Range Resources-Appalachia, LLC		See Attachment
			Range Resources-Appalachia, LLC	Chesapeake Appalachia, L.L.C.		808/391
			Range Resources-Appalachia, LLC	Chesapeake Appalachia, L.L.C.		808/507
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		883/515

05/08/2015

### West Virginia Secretary of State — Online Data Services

#### **Business and Licensing**

Online Data Services Help

#### **Business Organization Detail**

NOTICE: The West Virginia Secretary of State's Office makes every reasonable effort to ensure the accuracy of information. However, we make no representation or warranty as to the correctness or completeness of the information. If information is missing from this page, it is not in the The West Virginia Secretary of State's database.

#### RANGE RESOURCES - APPALACHIA, LLC

Organization Information							
Org Type	Effective Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
LLC   Limited Liability Company	9/24/1999	9/24/1999	Foreign	Profit	11000		

Business		Capital
Purpose		Stock
Charter County		Control Number
Charter State	DE	Excess Acres
At Will Term	Α	Member Managed MBR
At Will Term Years	0	Par Value
Authorized Shares		
Addresses		
уре	-	Address
Besignated Addres		209 WEST WASHINGTON STREET CHARLESTON, WV, 25302
Mailing Ad	dress	380 SOUTHPOINTE BLVD, SUITE 300 CANNONSBURG, PA, 15317 USA
Notice of Pr		CORPORATION SERVICE COMPANY 209 WEST WASHINGTON STREET CHARLESTON, WV, 25302

http://apps.sos.wv.gov/business/corporations/organization,aspx?org=187536

380 SOUTHPOINTE BLVD. SUITE 300 CANONSBURG, PA, 15317 USA

Туре Address

**Principal Office** Address

Officers					
Туре	Name/Address				
Member	JOHN H PINKERTON 380 SOUTHPOINTE BLVD, STE 300 CANONSBURG, PA, 15317				
Member	ROGER MANNY 380 SOUTHPOINTE BLVD, STE 300 CANONSBURG, PA, 15317	1300			
Member	JEFFREY L. VENTURA 380 SOUTHPOINTE BLVD, STE 300 CANONSBURG, PA, 15317				
Туре	Name/Address				

Name	Changes		
Date		Old Name	
	9/12/2007	GREAT LAKES ENERGY PARTNERS, L.L.C.	
Date		Old Name	

Φ		
<u> </u>	9/12/2007	NAME CHANGE: FROM GREAT LAKES ENERGY PARTNERS, L.L.C
	1/10/2000	MERGING RANGE OPERATING CO, QUAL OH, BUFFALOOILFIELD SERVICES INC, NON QUAL OH, J R OPERATING CO. INC, NON QUAL OH, MB OPERATING CO INC, NON QUAL OH INTO GREAT LAKES ENERGY PARTNERS, LLC, QUAL DE LLC THE SURVIVOR
Date		Amendment

Annual Reports		
Date	Filed For	
6/12/2014	2014	
6/29/2013	2013	
6/6/2012	2012	
6/8/2011	2011	
3/23/2010	2010	
4/1/2009	2009	
4/16/2008	2008	Come William Milliam William W

2007

4/11/2007

	4/20/2000	2000
	4/4/2001	2001
	5/6/2002	2002
	4/8/2003	2003
	3/17/2004	2004
	4/12/2005	2005
25/2015	4/10/2006	WV SOS - Business and Licensing - Corporations - Online Data Services 2006

For more information, please contact the Secretary of State's Office at 304-558-8000.

Wednesday, March 25, 2015 - 9:32 AM

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http://apps.scs.wv.gov/business/corporations/organization.aspx?org=187536



PO Box 1300 Jane Lew, WV 26378 PHONE: (832) 796-1610

January 9,2015

Ms. Laura Cooper WV DEP Office of Oil & Gas 601 57<sup>th</sup> St., SE Charleston, WV 25304

RE: SWN's proposed Glenn Didriksen OHI 6H and Glenn Didriksen OHI 10H in Ohio County, West Virginia, Drilling under Battle Run Road.

·Dear Ms. ·Cooper: ·

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 Battle Run Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

**Bob Laine** 

Land Field Supervisor

SWN Production Company, LLC

PO Box 1300

Jane Lew, WV 26378

Received
Office of Oil & Gas
FEB 2 0 2015

The Right People doing the Right Things, wisely Investing the cash flow from our underlying Assets, will create Valuet

WW-6AC (1/12)

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

Data af Natio	e Certification: <u>2   18   15   </u>	, ž	API No. 47	- 69 -	
Date of Notic	e Certification: A Ho HO	ć	Operator's	Well No. Glenn	Didriksen OHI 6H
			Well Pad N	ame: Glenn Did	Iriksen PAD
Notice has be Pursuant to th	e provisions in West Virginia Code §				
	tract of land as follows:	,	Easting:	534509.5	
State:	wv		Northing:	4440482.2	
County:	69- Ohio	Public Road Acces		Battle Run Road	
District:	3-Liberty	Generally used far		Glenn Didriksen	
Quadrangle:	648- Valley Grove	Generally used far	m name.	Cidili Didilibati	
Watershed:	Little Wheeling Creek	<del></del>			
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and shed the owners of the surface describe equired by subsections (b) and (c), sec surface owner notice of entry to sur of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall te have been completed by the applicant	ed in subdivisions (1), (2) are tion sixteen of this article; (ii) vey pursuant to subsection (a this article were waived in a nder proof of and certify to the	that the re a), section the section to the section	quirement was of ten of this artice the surface ow	deemed satisfied as a result ele six-a; or (iii) the notice ener; and Pursuant to West
Pursuant to that the Ope	West Virginia Code § 22-6A, the Operator has properly served the required	erator has attached proof to the parties with the following:	nis Notice C	Certification	OOG OFFICE USE
*PLEASE CH	ECK ALL THAT APPLY	- The state of the property	1007110		ONLY
□ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or 🔳 NO PLAT SURVE	EY WAS C	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIR NOTICE OF ENTRY FOR IT WAS CONDUCTED OF			RECEIVED/ NOT REQUIRED
	*	☐ WRITTEN WAIVER II (PLEASE ATTACH)		CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				☐ RECEIVED
■ 5. PU	BLIC NOTICE				☐ RECEIVED
■ 6. NC	TICE OF APPLICATION				☐ RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Oode & 2308 Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing. the return receipt card or other postal receipt for certified mailing.

#### Certification of Notice is hereby given:

above, to the re signature confirm in this Notice Containing the in-	at as required under West Virginia Cod quired parties through personal service mation. I certify under penalty of law th	le § 22-6A, I have e, by registered ma nat I have personall that based on my n is true, accurate a	d the notice requirements within West Virginia Code § 22- served the attached copies of the Notice Forms, identified il or by any method of delivery that requires a receipt or y examined and am familiar with the information submitted inquiry of those individuals immediately responsible for nd complete. I am aware that there are significant penalties sonment.
Well Operator:	SWN Production Co., LLC	Address:	P.O. Box 1300
By:	Dee Southall		Jane Lew, WV 26378
Its:	Regulatory Supervisor	Facsimile	• .
	832-796-1610	Email:	Dee_Southall@swn.com
Telephone:	NOTAR PRESIAL SEAL Notary Public, State of West Virginia BRITTANY R WOODY 3302 Old Elkins Road Buckhannon, WV 26201 My commission expires November 27, 2022	Subscribed and s  Button  My Commission	worn before me this day of Notary-Public Expires Notary-Public

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) 4706900188

OPERATOR WELL NO. Glenn Didriksen OHI 6H

Well Pad Name: Glenn Didriksen PAD

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

Noti	ce Time Requirement: notice shall be provided no later th	an the filing date of permit application.	
	ce of:	18/15	
<b>V</b>	PERMIT FOR ANY WELL WORK CONSTRUCTION OF	PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	very method pursuant to West Virginia Code § 22-6A-1	0(b)	
		HOD OF DELIVERY THAT REQUIRES A EIPT OR SIGNATURE CONFIRMATION	
regis sedii the sooil a descooper more well imperiore property substraction of the cooper well imperiore cooper well imperiore property substraction of the cooper water was a sedimental to the cooper was a sedimental t	ficate of approval for the construction of an impoundment or stered mail or by any method of delivery that requires a receip ment control plan required by section seven of this article, and surface of the tract on which the well is or is proposed to be loand gas leasehold being developed by the proposed well work, which is the erosion and sediment control plan submitted pursuator or lessee, in the event the tract of land on which the well ere coal seams; (4) The owners of record of the surface tract or lawork, if the surface tract is to be used for the placement, consoundment or pit as described in section nine of this article; (5) are a water well, spring or water supply source located within or wide water for consumption by humans or domestic animals; a posed well work activity is to take place. (c)(1) If more than the section (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section vision of this article to the contrary, notice to a lien holder is refer to the contrary in the tender of the sheriff requires, in part, that the operator shall also the purveyor or surface owner subject to notice and water testing the provision of the surface owner subject to notice and water testing the provision of the surface owner subject to notice and water testing the provision of the surface owner subject to notice and water testing the provision of the surface owner subject to notice and water testing the provision of the surface owner subject to notice and water testing the provision of the surface owner subject to notice and water testing the provision of the surface owner subject to notice and water testing the provision of the surface owner subject to notice and water testing the provision of the surface owner subject to notice and water testing the provision of the surface owner subject to notice and water testing the provision of the surface of	If the well plat to each of the following persons: (1) The owners of record of the surface tract or tract if the surface tract is to be used for roads or other land distruct to subsection (c), section seven of this article; (3) The proposed to be drilled is located [sic] is known to be undertracts overlying the oil and gas leasehold being developed struction, enlargement, alteration, repair, removal or aband Any surface owner or water purveyor who is known to the thousand five hundred feet of the center of the well padend (6) The operator of any natural gas storage field within the tenants in common or other co-owners of interests descent may serve the documents required upon the person dependent of the control of the well padent notice to a landowner, unless the lien holder is the land of provide the Well Site Safety Plan ("WSSP") to the surfacing as provided in section 15 of this rule.	rners of record of tts overlying the sturbance as e coal owner, rrlain by one or by the proposed donment of any e applicant to which is used to which the cribed in scribed in the vithstanding any owner. W. Va.
<b>2</b>	Application Notice  WSSP Notice  E&S Plan Noti		
ПS	SURFACE OWNER(s)	☑ COAL OWNER OR LESSEE	
Na	me: Glenn Didriksen	Name: Alliance Resource GP, LLC % Christine St. John	
Ad	dress: 2080 Dement Road	Address: 2596 Battle Run Road Triadelphia, WV 26059	
	Triadelphia, WV 26059	COAL OPERATOR	
	me:	Name:	
Ad	ldress:	Address:	
	The Colon Distruction of the Colon Distruction	Address.	
	SURFACE OWNER(s) (Road and/or Other Disturbance)	SURFACE OWNER OF WATER WELL	
Na	dress:	AND/OR WATER PURVEYOR(s)	
Ac	ldress:	Name: *** See Attachment #1	
_		Address:	
	ame:		
Ac	ldress:	☐ OPERATOR OF ANY NATURAL GAS STOR	AGE FIELD
_	Dita	Name:	
_	SURFACE OWNER(s) (Impoundments or Pits) ame:	Address:	
A	ddress:	*Please attach additional forms if necessary	e of Oil & Gas
_			EB <b>20</b> 2015
		F	ED & U LUIJ

					Owner	Owner	Owner Phone	n Water Source
		Common	Owner Address	Owner City	State	Zip	 	Present (Y/N)?
	Pad No. Pad Name	T I I I I I I I I I I I I I I I I I I I	1836 DEMENT RD	TRIADELPHIA	<b>M</b>	26003	(304)242-7935	>
RIKSEN OHI PAD	03- L7-0034-0001-0000	DICESARE PASCOALES	CANTE BATTIE RIIN RD	TRIADEL PHIA	3	26059	(304)547-0504	>-
DRIKSEN OHI PAD	03- L10-0040-0000-0000	CASCA ROBI W & DONA	DOID OVER DISTORY	TEIANEI PHIA	VW	26059	(304)547-1281	>-
DRIKSEN OHI PAD	912139 GLENN DIDRIKSEN OHI PAD 03- L10-0035-0003-0000	PARSONS MICHAEL	ALINOLE IS NIDGE				(304)242-3062 /	
DRIKSEN OHI PAD	9/23/2014 912139 GLENN DIDRIKSEN OHI PAD 03- L10-0034-0000-0000	SHAEFFER M DAVID	1648 DEMENT ROAD	TRIADELPHIA	×	26059	(304)232-4123	>

WW-6A (8-13)

4706900

API NO. 47-69

OPERATOR WELL NO. Glenn Didriksen OHI 6H

Well Pad Name: Glenn Didriksen PAD

Notice is hereby given:

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

#### This Notice Shall Include:

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

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

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

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

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

#### **Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water to the section prevents an operator from conducting the activities permitted or authorized by a Clean Water to the section prevents an operator from conducting the activities permitted or authorized by a Clean Water to the section prevents an operator from conducting the activities permitted or authorized by a Clean Water to the section prevents an operator from conducting the activities permitted or authorized by a Clean Water to the section prevents and the section prevents are section prevents an operator from conducting the activities permitted or authorized by a Clean Water to the section prevents are section to the section prevents and the se other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted area greenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well of 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 of 2013 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

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OPERATOR WELL NO. Glenn Didriksen OHI 6H

Well Pad Name: Glenn Didriksen PAD

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

#### Written Comment:

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

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

Received Office of Oil & Gas

FEB **20** 2015

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

WW-6A (8-13)

4706900188

OPERATOR WELL NO. Glenn Didriksen OHI 6H Well Pad Name: Glenn Didriksen PAD

#### Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

> Received Office of Cottle Gas FEB 20 2015

WW-6A (8-13)

OPERATOR WELL NO. Glenn Didriksen OHI UH Well Pad Name: Glenn Didriksen PAD

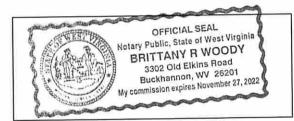
Notice is hereby given by:

Well Operator: SWN Production Co., LLC Telephone: 832-796-1000 Email: Dee\_Southall@swn.com

Address: P.O. Box 1300 Jane Lew, WV 26378 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 depprivacyofficer@wv.gov.



ay of January Subscribed and sworn before me this Notary Public My Commission Expires

> RECUIVED Office of Oil & Gas FEB 20 2015

WW-6A4 (1/12)

Operator Well No. Glenn Didriksen OHI 6H

## 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 I Date of Notice	Requirement: Notice shall be provided at least 7 e: 01/15/2015 Date Permit Ap	TEN (10) days prior to filing a pplication Filed:	permit application.
Delivery meth	nod pursuant to West Virginia Code § 22-6A-	16(b)	
☐ HAND DELIVE	CERTIFIED MAIL RY RETURN RECEIPT REQUEST	ED	
receipt request drilling a horiz of this subsect subsection may	. Va. Code § 22-6A-16(b), at least ten days prior ted or hand delivery, give the surface owner not zontal well: <i>Provided</i> , That notice given pursuation as of the date the notice was provided to the y be waived in writing by the surface owner. The, facsimile number and electronic mail address	ice of its intent to enter upon that to subsection (a), section te surface owner: <i>Provided, how</i> ne notice, if required, shall include	ne surface owner's land for the purpose of n of this article satisfies the requirements never, That the notice requirements of this add the name, address, telephone number,
Notice is her Name: GLENN D Address: 2080 I	DEMENT ROAD	(s):  Name: Address:	
the surface ow State: County: District: Quadrangle:	est Virginia Code § 22-6A-16(b), notice is here ner's land for the purpose of drilling a horizonta WEST VRIGINIA  OHIO  LIBERTY  VALLEY GROVE  UPPER OHIO SOUTH	UTM NAD 83  Public Road Access:	
This Notice S Pursuant to W facsimile num related to hori	Shall Include: /est Virginia Code § 22-6A-16(b), this notice ber and electronic mail address of the operato zontal drilling may be obtained from the Secre 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (304-92	or and the operator's authorize tary, at the WV Department of	d representative. Additional information f Environmental Protection headquarters,
	reby given by:  Southwestern energy production company, LLC PO BOX 1300 6378	Authorized Representative: Address: JANE LEW, WV 26378	STEVE PERKINS PO BOX 1300
Telephone: Email: Facsimile:	304-517-6603 steve_perkins@swn.com	Telephone: Email: Facsimile:	304-517-6603 steve_perkins@swn.com

#### Oil and Gas Privacy Notice:

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

FEB 2 0 2015

WW-6A5 (1/12)

4706900188 Operator Well No. Glenn Didriksen OHI 6H

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

Date of Notice	e: 01/15/2015 Date Permit Application			application.
Delivery met	hod pursuant to West Virginia Code § 22-6A-1	16(c)		
	FIED MAIL HAND RN RECEIPT REQUESTED DELI'	O VERY		
return receipt the planned of required to be drilling of a l damages to the	V. Va. Code § 22-6A-16(c), no later than the da requested or hand delivery, give the surface own operation. The notice required by this subsection provided by subsection (b), section ten of this are norizontal well; and (3) A proposed surface use surface affected by oil and gas operations to the ser required by this section shall be given to the surface.	er whose land on shall inclu- ticle to a surf and compen- e extent the da	I will be used for de: (1) A copy ace owner whos sation agreemen amages are comp	or the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter.
	DEMENT ROAD	notice): Name: Addres		
	Vest Virginia Code § 22-6A-16(c), notice is hereby the surface owner's land for the purpose of drilling	ng a horizonta	l well on the tra	
County:	OHIO	UTM NAD 8	Northing:	4440482.2
District:	LIBERTY	Public Road	Access:	DEMMENT ROAD
Quadrangle:	VALLEY GROVE	Generally us	ed farm name:	GLENN DIDRIKSEN
Watershed:	UPPER OHIO SOUTH			
Pursuant to W to be provide horizontal we surface affect information r	Shall Include:  Vest Virginia Code § 22-6A-16(c), this notice shad by W. Va. Code § 22-6A-10(b) to a surface all; and (3) A proposed surface use and compensated by oil and gas operations to the extent the delated to horizontal drilling may be obtained from located at 601 57th Street, SE, Charleston, Valult.aspx.	owner whose ation agreeme amages are co om the Secre	e land will be un nt containing an ompensable und tary, at the WV	ased in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection
Well Operato	SOUTHWESTERN ENERGY PRODUCTION COMPANY, LLC	Address:	PO BOX 1300	
Telephone:	304-517-6603		JANE LEW, WV 263	378
Email:	steve_perkins@swn.com	Facsimile:		**************************************
	Duiview Notice		*	

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:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

Office of Oil & Gas



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

### **Division of Highways**

1900 Kanawha Boulevard East . Building Five . Room 110 Earl Ray Tomblin Charleston, West Virginia 25305-0430 • (304) 558-3505 Governor

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

January 28, 2015

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 Well Sites, Ohio County

Glen Didriksen OHI 6H

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #06-2011-0016 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Ohio County Route 33 SLS.

The operator has signed an 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 January 3, 2012.

Very Truly Yours,

Gary K. Clayton P.E.

Regional Maintenance Engineer

Central Office Oil &Gas Coordinator

Cc: Brittany Woody

CH, OM, D-6

Southwestern Energy

File

Received Office of Oak Gas

FFB 2 U 2015

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
			Didecyl Dimethyl	007173-51-1
			Ammonium Chloride	
			Ethanol	000064-17-5
	ALPHA 1427	Biocide	Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium Compound	068424-85-1
			Water	007732-18-5
	BF-7L	Buffer	Potassium Carbonate	000584-08-7
-			Choline Chloride	000067-48-1
	ClayCare	Clay Stabilizer	Water	007732-18-5
BAKER HUGHES	Enzyme G-I	Breaker	No Hazardous Components	NONE
	ENZYME G-NE	Breaker	No Hazardous Components	NONE
\$ : :	FRW-18	Friction	Petroleum Distillate	064742-47-8
	FKVV-10	Reducer	Hydrotreated Light	
	OW 21 DE	-3LDF Gel	Petroleum Distillate Blend	N/A-014
	GW-3LDF		Polysaccharide Blend	N/A-021
		SCALETROL 720 Scale Inhibitor	Diethylene Glycol	000111-46-6
	SCALETROL 720	Scale Inhibitor	Ethylene Glycol	000107-21-1
			Boric Acid	010043-35-3
	XLW-32	Crosslinker	Methanol (Methyl Alcohol)	000067-56-1
	APB01 (AMMONIUM PERSUFATE BREAKER)	Breaker	Ammonium Persulfate	007727-54-0
	B05 (LOW PH BUFFER)	Buffer	Acetic acid	000064-19-7
	BXL03 Borate XL Delayed High Temp	Crosslinker	No Hazardous Components	NONE
FRAC TECH SERVICES	FRW-200	Friction Reducer	No Hazardous Components	NONE
	HVG01 (TURQUOISE-1 BULK)	Gelling Agent	Petroleum Distillate Hydrotreated Light	064742-47-8
	KCLS-4	Clay Stabilizer	No Hazardous Components	NONE
	LTB-1	Breaker	Ammonium Persulfate	N/A

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
			Ethanol	000064-17-5
NALCO	EC6110A	Biocide	Glutaraldehyde (Pentanediol)	000111-30-8
ONESOURCE			Quaternary Ammonium Compounds	N/A-063
	EC6629A	Biocide	No Hazardous Components	NONE
	WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-0
			Ammonium Persulfate	007727-54-0
	WBK-134	Breaker	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7
	WCS-631LC	Clay Stabilizer	Proprietary Non Hazardous Salt	N/A-229
	VVCS-631LC	Clay Stabilizer	Water	007732-18-5
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
an ar o	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
WEATHERFORD			Potassium Carbonate	000584-08-7
	WPB-584-L	Buffer	Potassium Hydroxide	001310-58-3
	WXL-101LE	Corsslinker	No Hazardous Components	NONE
Received Office of Oil & C FEB 20 2015	WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8
	as	Crosslinker	Water	007732-18-5
			Ethylene Glycol	000107-21-1
	WXL-105L		Boric Acid	010043-35-3
			Ethanolamine	000141-43-5
	B244 Green-Cide 25G	Biocide	Glutaraldehyde	111-30-8
	L071 Temporary Clay Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1
	Breaker J218	Breaker	Diammonium Peroxidisulphate	7727-54-0
SCHLUMBERGER	EB-Clean* J475 Breaker		Diammonium Peroxidisulphate	7727-54-0
	Friction Reducer B315	Friction Reducer	Distillates (petroleum), Hydrotreated light Aliphatic Alcohol Glycol Ether	64742-47-8 Proprietary
	Friction Reducer J609		Ammonium Sulfate	7783-20-2

Supplier Name	Product Name Water Gelling Agent J580	Product Use Gel	Chemical Name Carbohydrate Polymer	CAS Number Proprietary
no. Cos C. S.O. SO Management and the cost of the cost	Scale Inhibitor B317	Scale Inhibitor	Trisodium ortho phosphate Ethane-1, 2-diol	7601-54-9 107-21-1
SCHLUMBERGER	Borate Crosslinker J532	Crosslinkor	Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 1303- 96-4
	Crosslinker J610		Aliphatic polyol Potassium hydroxide	Proprietary 1310- 58-3

