

west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Friday, August 31, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

# Re: Permit approval for DALLAS HALL OHI 205H 47-069-00279-00-00

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

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

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

James A. Martin Chief

Operator's Well Number: Farm Name: U.S. WELL NUMBER: Horizontal 6A DALLAS HALL OHI 205H AGNES L. HALL 47-069-00279-00-00 New Drill Date Issued: 8/31/2018

Promoting a healthy environment.

API Number: 69-00279

# PERMIT CONDITIONS

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

# CONDITIONS

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

12:45

# **PERMIT CONDITIONS**

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, sending an email to DEPOOGNotify@wv.gov.

API NO. 47-069 - 00279 OPERATOR WELL NO. Dallas Hall OHI 205H

Well Pad Name: Dallas Hall OHI Pad

# 4706900279

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

1) Well Operator: SWN Pro	duction Co., LLC	494512924	069-Ohio	3-Liberty 247-Bethany
· · · · · · · · · · · · · · · · · · ·		Operator ID	County	District Quadrangle
2) Operator's Well Number:	Dallas Hall OHI 20	5H Well Pa	ad Name: Dalla	as Hall OHI Pad
3) Farm Name/Surface Owner	r: Agnes L. Hall	Public Ro	ad Access: G	C & P Road
4) Elevation, current ground:	1275' E	levation, proposed	l post-construct	tion: 1275'
5) Well Type (a) Gas X Other	Oil	Un4	derground Stora	age
(b)If Gas S	Shallow X	Deep		
H	Iorizontal X		2	320 4.1018
6) Existing Pad: Yes or No Y	'es		_ [ 1	Del 9.1012
7) Proposed Target Formation Target Formation- Marcellus, Up-Dip W				Pressure(s): ed Thickness- 51', Associated Pressure- 4019
8) Proposed Total Vertical De	pth: 6158'			
9) Formation at Total Vertical	l Depth: Marcellus	S		
10) Proposed Total Measured	Depth: 14788'			
11) Proposed Horizontal Leg	Length: 8118.42'			
12) Approximate Fresh Water	Strata Depths:	410'		
13) Method to Determine Free	sh Water Depths:	water well		0
14) Approximate Saltwater D	epths: 601' SWN s	salinity profile 🦟	SWN'S Ge	ologists affirm to-
15) Approximate Coal Seam I	Depths: 446'			0
16) Approximate Depth to Po	ssible Void (coal m	ine, karst, other):	Possible Void	d 446'.
17) Does Proposed well locati directly overlying or adjacent		ms Yes	N	o <u>x</u>
(a) If Yes, provide Mine Info	o: Name:			
and the second	Depth:			OFFICEIVED
	Seam:			Cince of Cil and Gas
	Owner:			APR 1 3 2018
				WV Department of Environmental Protection

WW-6B (04/15)

API NO. 47- 069 - 002-79 OPERATOR WELL NO. Dallas Hall CHI 205H

Well Pad Name: Dallas Hall OHI Pad

# 4706900279

ТҮРЕ	Size (in)	<u>New</u> or <u>Used</u>	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	520'	520'	496 sx/CTS
Coal		200					
Intermediate	9 5/8"	New	J-55	36#	1920'	1920'	732 sx/CTS
Production	5 1/2"	New	HCP-110	20#	14788'	14788'	Itad 837sx Tail 2023sx inside Intermedia
Tubing							
Liners				0			

CASING AND TUBING PROGRAM

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

# PACKERS

Kind:	
Sizes:	
Depths Set:	RECEIVED Office of Cil and

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WW-6B (04/15)

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

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

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. 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 @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 22.60

22) Area to be disturbed for well pad only, less access road (acres): 8.54

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.

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\*Note: Attach additional sheets as needed.

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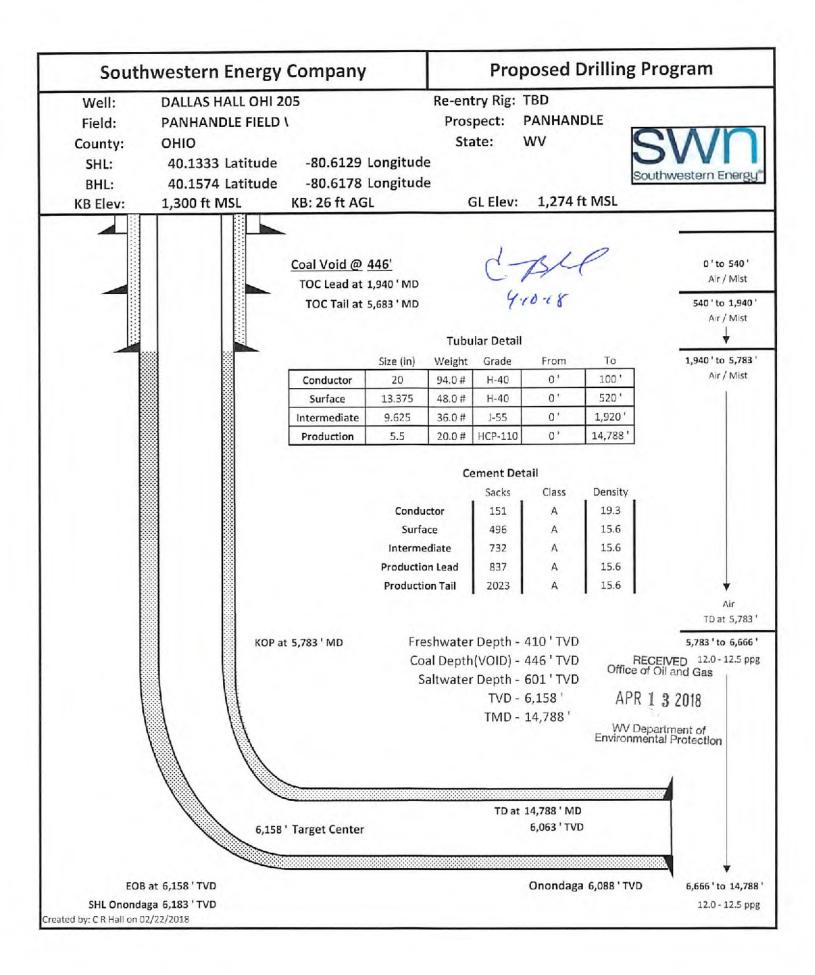
Schlumberger Cement Additives Product Name Product Use Chemical Name CAS Number ntermediate Surface S001 accelerator calcium chloride 10043-52-4 S001 accelerator calcium chloride 10043-52-4 D080 dispersant sodium polynaphthalene sulfonate 9008-63-3 Kick Off Plug D801 retarder aromatic polymer derivative propriatary D047 antifoam polypropylene glycol 25322-69-4 D167 fluid loss aliphatic amide polymer propriatary D154 non-crystalline silica extender 7631-86-9 D400 gas migration boric acid 10043-35-3 25322-69-4 polypropylene glycol D046 antifoam Production-Lead fullers earth (attapulgite) 8031-18-3 chrystalline silica 14808-60-7 D201 retarder metal oxide propriatary sulphonated synthetic polymer propriatary formaldehyde (impurity) D202 dispersant propriatary polypropylene glycol 25322-69-4 antifoam D046 fullers earth (attapulgite) 8031-18-3 D167 fluid loss aliphatic amide polymer propriatary sodium polynaphthalene sulfonate 9008-63-3 roduction-Tall D065 dispersant sodium sulfate 7757-82-6 chrystalline silica 14808-60-7 D201 retarder metal oxide propriatary D153 anti-settling chrystalline silica 14808-60-7

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69-00279 SWN Production Company, LLC 179 Innovation Drive Jane Lew, WV 26378 Tel: 304 884 1610 Fax: 304 471 2497 www.swn.com

February 23, 2018

Ms. Laura Adkins Office of Oil & Gas 601 57<sup>th</sup> Street Charleston, WV 25304

RE: Proposed New Well Dallas Hall OHI 205H

Dear Ms. Adkins

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the Hall's property, in Liberty District, Ohio County, West Virginia.

If you have any questions or desire additional information, please me at 304-884-1614

Thank you.

Sincerely

Dee Southall Senior Regulatory Analyst Southwestern Energy Production Company, LLC

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APR 1 3 2018

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

# 4706 800279

API Number 47 - 069

Operator's Well No. Dallas Hall OHI 205H

# 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
Do you anticipate using more than 5,000 bbls of water to con Will a pit be used? Yes No	nplete the proposed well work? Yes <u>No</u> 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	
	nit Number
Off Site Disposal (Supply form W	
Will closed loop system be used? If so, describe: Yes	
Drilling medium anticipated for this well (vertical and horizo	ntal)? Air, freshwater, oil based, etc. Air and salt saturate mud
-If oil based, what type? Synthetic, petroleum, etc.	Synthetic Oil Base
Additives to be used in drilling medium? Attachment 3A	
Drill cuttings disposal method? Leave in pit, landfill, remove	ed offsite, etc. landfill
-If left in pit and plan to solidify what medium will	be used? (cement, lime, sawdust)
Arden Landfill 10072, Apex Sanitary Landfill U Permittee shall provide written notice to the Office of Oil and	WF-1032, Short Creek SWF-1034,Carbon Limestone MSWL018781, Wetzel County 1021 10-U8438, BTOOKE CO SWF-1013, Valley 100280 I Gas of any load of drill cuttings or associated waste rejected at any ed 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 provisions of the permit are enforceable by law. Violations law or regulation can lead to enforcement action. I certify under penalty of law that I have persona application form and all attachments thereto and that, ba	BRITTANY R WOODY 302 Old Elkin, On RECEIVED Buckhannon, WV Dice of Ol and Gas My commission express Navember 27, 2022 APR 13 2018
	WV Department of Environmental Protection
Subscribed and sworn before me this 215t day of	
Brittany R Magdy	Notary Public
My commission expires 11 2012	

WW-9 (2/15)

# 69-00279

Form WW-9	9	)
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# Operator's Well No. Dallas Hall OHI 205H

oposed Revegetation Treatment: Acres Disturbed 22.60		Prevegetation ph	ł
Lime <u>as determined by pH test min. 2</u> Tons/acre or to			
	o correct to pH 0.04		
Fertilizer type 10-20-20			
Fertilizer amount 600	lbs/acre		
Mulch Hay/Straw 2.5	Tons/acre		
	Seed Mixtures		
Temporary		Perma	nent
Seed Type Ibs/acre		Seed Type	lbs/acre
Attachment 3B			
Attach: Drawing(s) of road, location, pit and proposed a provided) Photocopied section of involved 7.5' topographic		less engineered plans inc	cluding this info have be
Plan Approved by:	9.10.18		

<sub>Title:</sub> Oil and Ga	s Inspector	Date: 4.10.18	RECEIVED Office of Oil and Gas
	1	Date.	APR 1 3 2018
Field Reviewed?	( V Yes	() No	WAY Department of

WV Department of Environmental Protection

# **Attachment 3A**

# **Drilling Mediums**

Synthetic Oil Brine Barite Calcium Chloride Lime Organophilic Bentonite Primary and Secondary Emulsifiers Gilsonite Calcium Carbonate Friction Reducers

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Southwestern Energy*		WVD Seeding	Specification	Re>V
	eed contact Lyndsi Ec	dy Flippo office 570-996-4271 cell 501-26		LO days for delivery)
NON-ORGANIC PROPERTIES			ORGANIC PROPERTIES	
Seed Mixture: ROW Mix	SWI	N Supplied	Seed Mixture: SWN Production Organ	nic Mix SWN Supplied
Orchardgrass	40%		Organic Timothy	50%
Timothy	15%		Organic Red or White Clover	50%
Annual Ryegrass	15%		OR	
Brown Top Millet	5%		Organic Perennial Ryegrass	50%
Red Top	5%		Organic Red or White Clover	50%
Medium Red Clover	5%	All legumes are	Apply @ 100lbs per acre	Apply @ 200lbs per acre
White Clover	5%	innoculated at 5x normal	April 16th- Oct. 14th	Oct. 15th- April 15th
Birdsfoot Trefoil	5%	rate		and the second
Rough Bluegrass	5%		Organic Fertilizer @ 200lbs per Acre	Pelletized Lime @ 2 Tons per Acre
Apply @ 100lbs per acre April 16th- Oct. 14th		Apply @ 200lbs per acre Oct. 15th- April 15th PLUS bs per acre of Winter Wheat	WETLANDS (delineated as jurisd	ictional wetlands)
SOIL AMENDMENTS			Seed Mixture: Wetland Mix	SWN Supplied
10-20-20 Fertilizer		Apply @ 500lbs per Acre	VA Wild Ryegrass	20%
Pelletized Lime		Apply @ 2 Tons per Acre	Annual Ryegrass	20%
	*unless	otherwise dictated by soil test results	Fowl Bluegrass	20%
Seeding Calculation Information:			Cosmos 'Sensation'	10%
1452' of 30' ROW/LOD is One Acre			Redtop	5%
871' of 50' ROW/LOD is One Acre			Golden Tickseed	5%
622' of 70' ROW/LOD is One Acre			Maryland Senna	5%
			Showy Tickseed	5%
Synopsis:			Fox Sedge	2.5%
Every 622 linear feet in a 70' ROW/LOD,	you should be u	sing (2) 50lb bags of seed. (4) 50lb	Soft Rush	2.5%
bags of fertilizer and (80) 50lb bags of Li			Woolgrass	2.5%
Wheat/ac).			Swamp Verbena	2.5%
Special Considerations: Landowner Special Considerations including			Apply @ 25lbs per acre April 16th- Oct. 14th	Apply @ 50lbs per acre Oct. 15th- April 15th
guidance that is not given here. Discuss the beginning of the project to allow time for sp			fice	ME INSIDE WETLAND LIMITS
beginning of the project to allow time for s	pecial seed deliver	APR 1 3 2018 WV Department of ironmental Protection	EECEIVED Gas	

69-00-77

# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

SWN Production Company"	
SWN Production Company, LLC 179 Innovation Drive Jane Lew, West Virginia 26378	
API NO. 47-XXX-XXXXX WELL NAME: Dallas Hall OHI 205H Bethany QUAD Liberty DISTRICT Ohio COUNTY, WEST VIRGINIA	ĺ
Submitted by: Dee Southall Date: 2/21/2017 Senior Regulatory Title: Analyst SWN Production Co., LLC	
Approved by: C. J. Date: <u>Y.10.17</u> Title: <u>O.1 and his Zuputo</u> -	
Approved by: Date:	
Title:	RECEIVED Office of Oil and Gas
	APR 1 3 2018
	in of

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL

WV Department of Environmental Protection

69-00279

WW-6A1 (5/13) Operator's Well No. Dallas Hall OHI 205H

#### 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 -

 the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or

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

See Exhibit

#### 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.

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Office of Oil and Gas APR 1 3 2018 Environmental Protection

fine RECEIVED	PR 1 3 2018 Department of mental Protection
Exhibit "A" Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator Dallas Hall OHI 205H Ohio County, West Virginia	Enviro

#	TAX ID	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
1	03-L7-19	729152-000	Dallas J. Hall and Agnes L. Hall, husband and wife	Chesapeake Appalachia, L.L.C.	18.5%	811/34
				SWN Production Company, LLC		884/61
2	03-L4-13.1	731470-000	Catherine Evans and David Evans,	Chesapeake Appalachia, L.L.C.	18%	814/549
			husband and wife	SWN Production Company, LLC		883/587
3	03-L4-15	736025-000	Shirley M. Weaver and George S. Weaver,	Chesapeake Appalachia, L.L.C.	18%	823/165
			wife and husband	SWN Production Company, LLC		885/632
4	03-L4-13	736025-000	Shirley M. Weaver and George S. Weaver,	Chesapeake Appalachia, L.L.C.	18%	823/165
			wife and husband	SWN Production Company, LLC		885/632
5	03-L4-40	737492-000	The Arbenz Company	Chesapeake Appalachia, L.L.C.	18%	840/123
				SWN Production Company, LLC		885/740
6	03-L4-39	735834-000	Louis P. Shipley, a single man	Chesapeake Appalachia, L.L.C.	18%	822/425
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			SWN Production Company, LLC		885/608
7	03-L4-38	735834-000	Louis P. Shipley, a single man	Chesapeake Appalachia, L.L.C.	18%	822/425
				SWN Production Company, LLC		885/608
8	03-L4-36	731502-000	Paul L. Boron and Kathleen R. Boron,	Chesapeake Appalachia, L.L.C.	18%	815/670
			husband and wife	SWN Production Company, LLC		883/587
9	03-L4-10.1	731322-000	Paul M. McKay and Deborah A. McKay,	Chesapeake Appalachia, L.L.C.	18%	813/651
			husband and wife	SWN Production Company, LLC		883/587
10	03-L4-4	736558-000	Frank J. Harrar and Isabel W. Harrar,	Chesapeake Appalachia, L.L.C.	12.5%	829/182
			husband and wife	SWN Production Company, LLC		885/680
11	03-L4-1.5	730448-000	John A. Powell and Michelle L. Powell,	Chesapeake Appalachia, L.L.C.	18%	814/792
			husband and wife	SWN Production Company, LLC		883/551
12	03-L4-1.4	730319-000	Ross E. Carnahan and Cordelia G. Carnahan,	Chesapeake Appalachia, L.L.C.	18%	812/274
			husband and wife, and Karen Lee Anderson	SWN Production Company, LLC		883/551
			as Attorney-in-Fact for Ross E. Carnahan			

Exhibit "A"
Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator
Dallas Hall OHI 205H
Ohio County, West Virginia

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#	TAX ID	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
13	03-L4-1	730240-000	Douglas McKay, a widower,	Fortuna Energy Inc.	12.5%	772/521
			and Paul McKay and Deborah A. McKay,	Range Resources - Appalachia, LLC		786/406
			husband and wife	Chesapeake Appalachia, L.L.C.		808/493
				SWN Production Company, LLC		883/539
14	03-L4-1.6	730240-000	Douglas McKay, a widower,	Fortuna Energy Inc.	12.5%	772/521
			and Paul McKay and Deborah A. McKay,	Range Resources - Appalachia, LLC		786/406
			husband and wife	Chesapeake Appalachia, L.L.C.		808/493
				SWN Production Company, LLC		883/539
15	03-L1-42	730050-000	Janet L. Honecker, a widow, Life Estate, and Elizabeth H.	Great Lakes Energy Partners, L.L.C.	14%	779/138
			Hestick, a married woman dealing in her sole and	Chesapeake Appalachia, L.L.C.		808/391
			separate property, Remainderman	SWN Production Company, LLC		883/515

69-00229



SWN Production Company, LLC P O Box 12359 Spring, Texas 77391-2359 www.swn.com

March 21, 2018

Ms. Laura Adkins WV DEP Office of Oil & Gas 601 57th St., SE Charleston, WV 25304

RE: SWN's proposed New Well: Dallas Hall OHI 205H in Ohio County, West Virginia, Drilling under RT 88 Oglebay Road.

Dear Ms. Adkins:

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 RT 88 Oglebay 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,

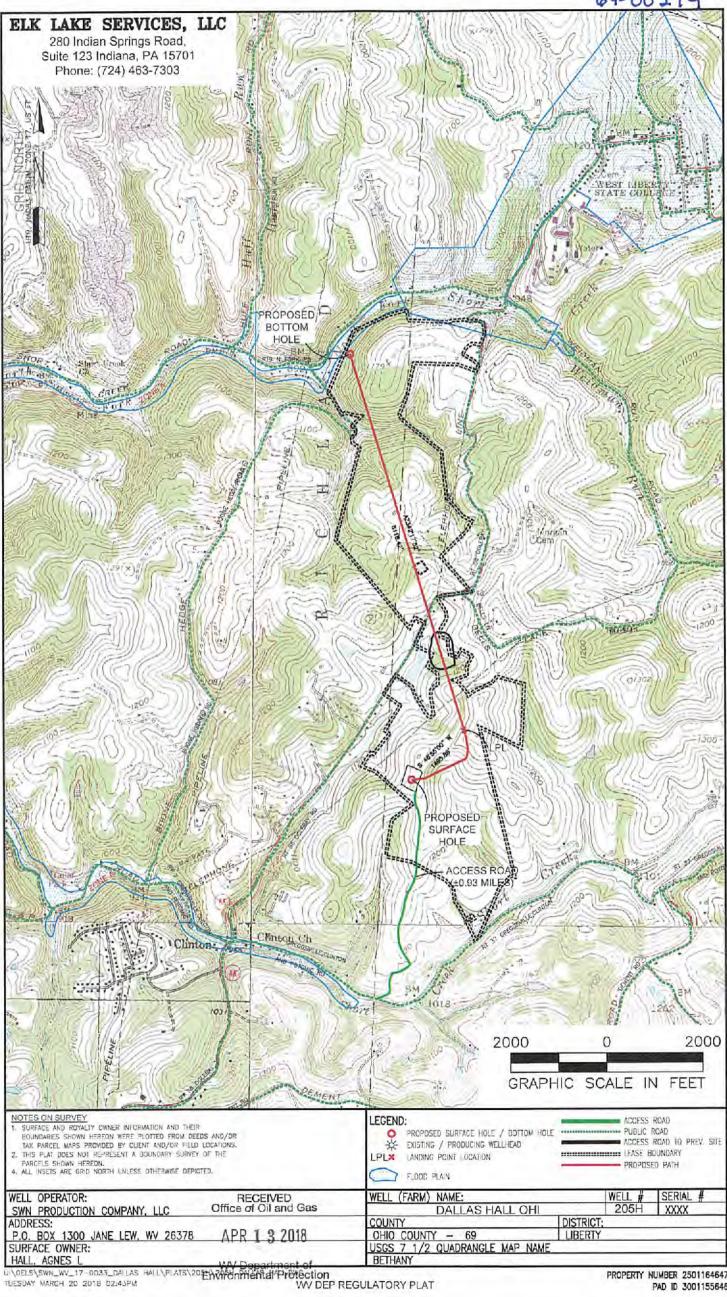
Bradley Wilson Landman SWN Production Company, LLC PO Box 12359 Spring, TX 77391-2359

V+

10000 Energy Drive Spring, TX 77389-4954 The Right People doing the Right Things, wisely investing the cash flow from our underlying Assets, will create Value+®

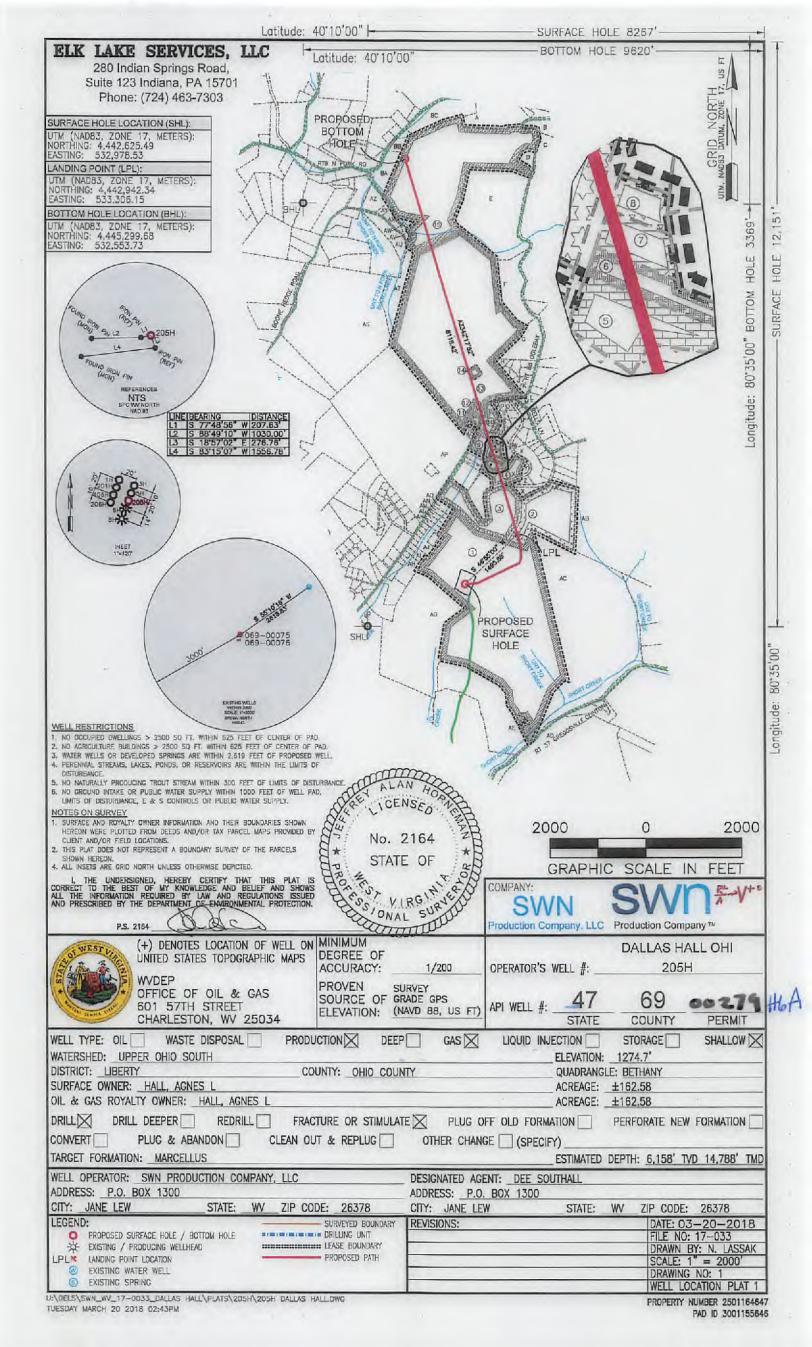
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69-0027 C



UI\OELS\SWN\_WV\_17-0033\_DAILAS TUESDAY MARCH 20 2018 02:43PM

PROPERTY NUMBER 2501164647 PAD ID 3001155646



ELK LAKE SERVICES, LLC

280 Indian Springs Road, Suite 123 Indiana, PA 15701 Phone: (724) 463-7303

-	WELL BORE TABLE FOR SURFACE / ROYALTY C	WNERS
TRACT	SURFACE OWNER / ROYALTY OWNER	TAX PARCEL
1	HALL, AGNES L	3-L7-19
TRACT	SURFACE OWNER	TAX PARCEL
2	EVANS, CATHERINE & DAVID	3-L4-13.1
3	WEAVER, DAVID M & BETH R	3-14-15
4	WEAVER, DAVID M & BETH R	3-L4-13
5	WEAVER, DAVID M & BETH R	3-L4-40
6	SHIPLEY, LOUIS P	3-14-39
7	SHIPLEY, LOUIS P	3-L4-38
8	BORON, PAUL L & KATHLEEN R	3-L4-36
9	MCKAY, PAUL M & DEBORAH A	3-L4-10.1
10	HARRAR, FRANK J & ISABEL W (LE)	3-14-4
11	POWELL, JOHN A & MICHELLE L	3-14-1.5
12	HARDMAN, THOMAS M & GOLD, KELSEY R	3-14-1.4
13	MCKAY, PAUL M & DEBORAH A	3-14-1
14	MCKAY, PAUL M	3-14-1.6
15	HONECKER, JANET L (LE), AND HESTICK, EUZABETH H (REMAINDER)	3-L1-42
-0017	ADJOINING OWNERS TABLE	
RACT	SURFACE OWNER	TAX PARCE
A	SAMPSON, DALE M	3-11-22
В	ENNIS, STEPHANIE A	9-WL10-8
C	HONECKER, JANET L	3-14-103
	D HUNT, LESUE A	
E	HONECKER, ELIZABETH R	3-14-124
F	MCKAY, PAUL M & DEBORAH A	3-14-123
G	SINCAVICH, RACHEL ANN	3-14-2
Н	FARMER, DOUGLAS E JR	3-14-2.1
1	FARMER, REGINA L & CLARENCE S JR	3-L4-2.7
1.1	COATEO DOMALD & LINEA	3.14.22

н	FARMER, DOUGLAS E JR	3-14-2.1
1	FARMER, REGINA L & CLARENCE S JR	3-14-2.7
J	FRAZIER, DONALD & LINDA	3-14-2.2
K	WILEY, THOMAS E & HOLLY J	3-14-2.4
L	MCCAROLE, DORA M	3-L4-105.13
M	MCCARDLE, ARLIE R JR AND BOND B	3-14-105.15
N	WINIESDORFFER, MICHAEL D & G L	3-L4-55
0	HOGAN, WILLIAM N JR & S C	3-14-28
P	CROW, RICHARD T & P K	3-14-27
0	CROW, RICHARD T & P K	3-L4-26
R	FLATLEY, TIMOTHY J & JULIANNE K	3-L4-29
5	CHASE, NATHANIEL 5	3-14-29.1
T	CHASE, NATHANIEL S & DONNA J	3-14-32
ù l	KLEMM, CLARENCE	3-14-34
v	BORON PAUL L & KATHLEEN R	3-14-33
W	SHIPLEY LOUIS P	3-14-37
x	WEAVER, DAVID M & BETH R	3-14-13
Y	WEAVER, DAVID M & BETH R	3-14-53
Z	WILLIAMS, GARY WAYNE	3-14-72
AA	KELLER, DAVID R & MARTIE A	3-14-13.2
AB	BELLE LANE LLC	3-L4-109
AC	CUSER, MARY HELEN: TR	
		3-17-2
AD	WHITAKER, GEORGE & ANITA	3-L7-27
AE	HALL, DALLAS J & AGNES L	3-L7-20
AF	HALL, DALLAS J & AGNES L	3-L7-1
AG	HALL, DALLAS J & AGNES L	3-L7-21.1
AH	PYLE, JOHN R SR & T A	4-R128-1.1
Al	KELLAS, STEVE	4-R128-1.5
AJ	GOSSETT, MATHEW H	4-R12B-1
AK	STROMATOS, GEORGE	3-14-24
AL	STROMATOS, GEORGE	3-L4-24.1
AM	STROMATOS, GEORGE	3-14-24.2
AN	RUTHERS, DAVID G & LINDA F	3-14-22
AO	OPIC CRYSTAL	3-14-20
AP	BROWN LILLIAN W TRUST	3-14-1.1
AQ	BLAKE, REBECCA L	3-1.4-1.7
AR	BLAKE, REBECCA L	3-14-1.2
AS	CAVENEY, CLAIRE M	4-R9-3
AT	MCKAY, PAUL M & DEBORAH A	4-R9-51
AU	RATCLIFFE, JOHN C	4-R9-22.21
AV	GRIFFITH, JOHN & MARK T	4-R9-24.1
AW	PATTERSON, FRANK W ET AL	4-R9-23.1
AX	GRIFFIN, MARK T	4-R9-24
AY	DIETRICH, CARLA	4-R9-21
AZ	DIETRICH, CARLA	4-R9-21.1
BA	SHUBA, ADAM J	4-R6-35
88	CALVARY BAPTIST CHURCH	4-R6-35.1
BC	TOWN OF WEST LIBERTY	9-WL9-1

47-069-00279

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COMPANY: R-W+0 **REVISIONS:** V Vr SWN Production Company, LLC Production Company™ DATE: 03-20-2018 FILE NO: 17-033 DRAWN BY: N. LASSAK SCALE: N/A DRAWING NO: 1 WELL LOCATION PLAT 1 OPERATOR'S DALLAS HALL WELL #: 205H DISTRICT: LIBERTY COUNTY: OHIO COUNTY STATE: WV PROPERTY NUMBER 2501164647 PAD ID 3001155646

U:\DELS\SWN\_WV\_17-D033\_DALLAS HALL\PLATS\205H\205H DALLAS HALLDWG TUESDAY MARCH 20 2018 02:43PM

WW-6AC (1/12)

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

Date of Notice Certification: 4

00279 API No. 47- 069 Operator's Well No. Dallas Hall OHI 205H Well Pad Name: Dallas Hall OHI Pad

### Notice has been given:

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

State:	West Virginia	Easti	ing:	532978.504	
County:	069-Ohio	UTM NAD 83 Nort	hing:	4442625.518	
District:	Liberty	Public Road Access:	Public Road Access:		
Quadrangle:	Bethany	Generally used farm name:		Dallas Hall	
Watershed:	Upper Ohio South				

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Op that the Operator has properly served the require	erator has attached proof to this Notice Certification d parties with the following:	OOG OFFICE USE
*PLEASE CHECK ALL THAT APPLY		ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/
2. NOTICE OF ENTRY FOR PLAT SURV	EY or D NO PLAT SURVEY WAS CONDUCTED	RECEIVED
3. NOTICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	□ RECEIVED/ NOT REQUIRED
	□ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
■ 4. NOTICE OF PLANNED OPERATION		RECEIVED
5. PUBLIC NOTICE		RECEIVED
■ 6. NOTICE OF APPLICATION		RECEIVED R 1 3 2018
Required Attachments:		Environmental Protection

#### **Required Attachments:**

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

### Certification of Notice is hereby given:

THEREFORE, I <u>Dee Southall</u>, 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	Address:	P.O. Box 1300	
By:	Dee Southall		Jane Lew, WV 26378	
Its:	Senior Regulatory Analyst	Facsimile:	304-884-1690	
Telephone:	304-884-1614	Email:	Dee_Southall@swn.com	
	NOTARY SEAL OFFICIAL SEAL Notary Public, State of West Virginia BRITTANY R WOODDY SOC Old Elkins Road Buckhannon, WV 26201 My commission expires November 27, 2022	Subscribed and swo Suttony My Commission E:	orn before me this <u>Jan</u> day o <u>KNOOUY</u> xpires <u>II Jan</u> da <u>y</u>	f <u>MOLOH</u> 2018 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 <u>depprivacyofficer@wv.gov</u>.

Office of Oil and Gas

APR 1 3 2018

WV Department of Environmental Protection WW-6A (9-13)

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

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

Date of Notice: U	A Date Permit Application Filed: 423
Notice of:	L. L.

$\checkmark$	PERMIT FOR ANY	
	WELL WORK	

CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

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

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams: (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Dallas J. Hall	Name: Alliance Resources, GP LLC. Attn: Evan Midler
Address: 1953 G C and P Road	Address: 2596 Battle Run Road
Triadelphia, WV 26059	Triadelphia, WV 26059
Name:	COAL OPERATOR
Address:	Name:
An and the second s	Address:
□ SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: None
Name:	Address:
Address:	Address:
	□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name: Office of CEIVED
Name:	Address:
Address:	APRID
	*Please attach additional forms if necessary  APR 1 3 2018  Environment of  Control of the contr
	Envir Departm
	the of

WW-6A (9-13)

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

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

Dat	e of Notice:	_ Date Per	mit Applica	ation Filed:
Not	ice of:			
	PERMIT FOR AN WELL WORK	Y C		ICATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT
Deli	ivery method pursu	ant to West	t Virginia Co	ode § 22-6A-10(b)
	PERSONAL SERVICE		STERED	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
certi regis	ficate of approval for stered mail or by any r	the construct nethod of de	tion of an impelivery that rec	an the filing date of the application, the applicant for a permit for any well work or for a poundment or pit as required by this article shall deliver, by personal service or by equires a receipt or signature confirmation, copies of the application, the erosion and this article, and the well plat to each of the following persons: (1) The owners of record

wners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams: (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

□ SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name:	Name: Windsor Coal Company
Address:	Address: 1000 Consol Energy Drive
	Canonsburg, PA 15317
Name:	COAL OPERATOR
Address:	Name:
	Address:
USURFACE OWNER(s) (Road and/or Other Disturbance	)
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name:
Name:	Address:
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FHELD
URFACE OWNER(s) (Impoundments or Pits)	OPERATOR OF ANY NATURAL GAS STORAGE FHELE IVED
Name:	Address:
Address:	Name:       Office of Oil and Gas         Address:       APR 1 3 2018
	*Please attach additional forms if necessary
	*Please attach additional forms if necessary Environmental Protection

API NO. 47- 069 OPERATOR WELL NO, Dallas Hall OH) 205H Well Pad Name: Dallas Hall OHI 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 non-Separate www.dep.wvgay/BBCEIVED Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wvgay/BBCEIVED and Gas. APR 1 3 2018

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

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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 57<sup>th</sup> St. SE Charleston, WV 25304 (304) 926-0450

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

APR **1 3 2018** 

WV Department of Environmental Protection

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### Time Limits and Methods for Filing Comments.

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

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

### **Comment Requirements**

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

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

#### Permit Denial or Condition

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

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

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

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

Office of Cil and Gas APR 1 3 2018 WV Department of Environmental Protection

WW-6A	API NO. 47-069 - 00279
(8-13)	OPERATOR WELL NO. Dallas Hall OHI 205H
	Well Pad Name: Dallas Hall OHI Pad
Notice is hereby given by:	
Well Operator: SWN Production Co., LLC	Address: P.O. Box 1300
Telephone: 304-884-1614	Jane Lew, WV 26378
Email: Dee_Southall@swn.com	Facsimile: 304-884-1690

# Oil and Gas Privacy Notice:

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

OFFICIAL SEAL Notary Public, State of West Virginia BRITTANY R WOODY 3302 Old Elkins Road Buckhannon, WV 26201 My commission expires November 27, 2022	Subscribed and sworn before me this <u>2187</u> day of <u>1000000000000000000000000000000000000</u>
	$t \cdot t$

RECEIVED Office of Oil and Gas APR 1 3 2018 WV Department of Environmental Protection

-00279

WW-6A (9-13) 4/13

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

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

	e of Notice:	Date Permit Application Fi	led:
PERMIT FOR ANY WELL WORK		CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT	
Deli	very method pursuar	nt to West Virginia Code § 2	2-6A-10(b)
	personal E service	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
Purs	uant to W. Va. Code §	22-6A-10(b) no later than the f	iling date of the application, the applicant for a permit fo

or any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

☑ SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Dallas J. Hali	Name: Alliance Resources, GP LLC. Alln: Evan Midler
Address: 1953 G C and P Road	Address: 2598 Battle Run Road
Triadelphia, WV 26059	Triadelphia, WV 26059
Name:	COAL OPERATOR
Address:	Name:
	Address:
USURFACE OWNER(s) (Road and/or Other Disturbance)	
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: See Attachment
Name:	Address:
Address:	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
	HECEIVED
Address:	*Please attach additional forms if necessary Office of Oil and Gas

APR 26 2018

69-00279



PARCEL_ID	OWNER	ADDRESS	CITY STATE ZIP	WATERSOURCES
03 L7001900000000	HALL DALLAS J & AGNES L	1953 G C AND P RD	TRIADELPHIA WV 26059	1
04 R12B000100010000	PYLE JOHN R SR & T A	4042 OGLEBAY DR	WHEELING WV 26003	1
03 L4002200000000	RUTHERS DAVID G & LINDA F	4196 OGLEBAY DR	WHEELING WV 26003	1
03 L4002000000000	OPIC CRYSTAL	112 AVALON EST	WHEELING WV 26003	1

RECEIVED Office of Oil and Gas

APR 26 2018

WV Department of Environmentel Protection

69-00279

WW-6A3 (1/12)

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry Date of Notice: 11/5/17 Date of Planned Entry: 11/13/2017

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

PERSONAL	2	REGISTERED	METHOD OF DELIVERY THAT REQUIRES A
SERVICE		MAIL	RECEIPT OR SIGNATURE CONFIRMATION

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

#### Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE	
Name: Dallas J. Hall & Agnes L. Hall	Name: Alliance Resources GP, LLC Attn: Evan Midler	
Address: 1953 G C and P Road	Address: 2596 Battle Run Road	
Triadelphia, WV 26059-1317	Triadelphia, WV 26059	
Name:		
Address:	MINERAL OWNER(s)	
	Name: Dallas J. Hall & Agnes L. Hall	
Name:	Address: 1953 G C and P Road	
Address:	Triadelphia, WV 26059-1317	
	"please attach additional forms if necessary	

#### Notice is hereby given:

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

State:	West Virginia	Approx. Latitude & Longitude:	40.133412, -80.612901	
County:	Ohio	Public Road Access:	Bethany Pike	
District:	Liberty	Watershed:	Short Creek	
Quadrangle:	Bethany	Generally used farm name:	Dallas Hall OHI Pad	

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

Notice is here	by given by:			APR 1 2 200	
Well Operator: SWN PRODUCTION COMPANY, LLC		Address:	PO BOX 1300	- 0 2018	
Telephone:	304-884-1610		JANE LEW, WV 26378	Environmepartment	
Email:	dee_southali@swn.com or brittany_woody@swn.com	Facsimile:		sinnental Protection	
		-			

### Oil and Gas Privacy Notice:

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

Operator Well No. Dallas Hall

69-0027

WW-6A3 (1/12)

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry Date of Notice: 11/5/2017 Date of Planned Entry: 11/13/2017

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

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

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

#### Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Dallas J. Hall & Agnes L. Hall	Name: Windsor Coal Company
Address: 1953 G C and P Road	Address: 1000 Consol Energy Drive
Triadelphia, WV 26059-1317	Canonsburg, PA 15317-6506
Name:	
Address:	MINERAL OWNER(s)
	Name: Dallas J. Hall & Agnes L. Hall
Name:	Address: 1953 G C and P Road
Address:	Triadelphia, WV 26059-1317
	*please attach additional forms if necessary

#### Notice is hereby given:

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

State:	West Virginia	Approx. Latitude & Longitude:	40.133412, -80.612901	
County:	Ohio	Public Road Access:	Bethany Pike	
District:	Liberty	Watershed:	Short Creek	
Quadrangle:	Bethany	Generally used farm name:	Dallas Hall OHI Pad	

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

Notice is here	by given by:			APR 1 3 2018
Well Operator:	SWN PRODUCTION COMPANY, LLC	Address:	PO BOX 1300	10010
Telephone:	304-884-1610		JANE LEW, WV 26378	Environment
Email:	dee_southall@swn.com or brittany_woody@swn.com	Facsimile:		Protection

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

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

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 02/21/2018 Date Permit Application Filed:

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

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

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

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

Name: Dallas J Hall	Name:
Address: 1953 G C and P Rd	Address:
Triadelphia, WV 26059	

### Notice is hereby given:

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

State:	West Virginia	UTMANAD 02	Easting:	532,978.504	
County:	Ohio	UTM NAD 83	Northing:	4,442,625.518	
District:	Liberty	Public Road Acc	cess:	G C and P Road	
Quadrangle:	Bethany	Generally used f	arm name:	Dallas Hall OHI	
Watershed:	Upper Ohio South				

#### This Notice Shall Include:

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

### Notice is hereby given by:

Well Operator:	SWN Production Company, LLC	Authorized Representative:	Randy Orsburn	
Address: PO Box 1300, 179 Innovation Drive	Address:	PO Box 1300, 179 Innovation Drive		
	Jane Lew, WV 26378		Jane Lew, WV 26378	Office RECEIVED
Telephone:	304-439-1532	Telephone:	304-439-1532	Office of Oil and Gas
Email:	Randy_Orsburn@swn.com	Email:	Randy_Orsburn@swn.com	APD 1 -
Facsimile:	304-884-1691	Facsimile:	304-884-1691	10 N 1 3 2018
Oil and Gas I	Privacy Notice:		En	WV Department of vironmental Protection

## **Oil and Gas Privacy Notice:**

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

WW-6A5 (1/12)

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 02/21/2018 4112/18 Date Permit Application Filed:

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

1	CERTIFIED MAIL	HAND
	RETURN RECEIPT REQUESTED	DELIVERY

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

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

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

Name: Dallas Hall	Name:
Address: 1953 G C and P Rd	Address:
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:	West Virginia		Easting:	532,978.504	
County:	Ohio	UTM NAD 83	Northing:	4,442,625.518	
District:	Liberty	Public Road Acc	cess:	G C and P Road	
Quadrangle:	Belhany	Generally used f	arm name:	Dallas Hall OHI	
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-andgas/pages/default.aspx. OF RECENT

SWN Production Company, LLC	Address:	PO Box 1300, 179 Innovation Drive	ADD
304-439-1532		Jane Lew, WV 26378	AFR 1 8 mg
Randy_Orsbum@swn.com	Facsimile:	304-884-1691	Fru J 1 Lans
Kandy_Disbuni@swi.com		5040041081	Environmental Froided
	304-439-1532	304-439-1532	304-439-1532 Jane Lew, WV 26378

### **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.



69-00229

# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

February 22, 2018

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

> Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the Dallas Hall Pad OHI 205H Well Site, Ohio County

Dear Mr. Martin,

The West Virginia Division of Highways has transferred #06-2011-0067 to the application for permit to Southwestern Energy for access to the State Road for the well site located off of Ohio County Route 37 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,

Dary K. Clayton

Gary K. Clayton Regional Maintenance Engineer Central Office Oil & Gas Otiordmatend Gas

APR 1 3 2018

WV Department of Environmental Protection

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

69-00229

	FRAC A	DDITIVES		
Product Name	Product Use	Chemical Name	CAS Number	
		Hydrogen Peroxide	7722-84-1	
EC6734A (Champion Technologies)	Biocide	Acetic Acid	64-19-7	
		Peroxyacetic Acid	79-21-0	
		Methanol	67-56-1	
PTRON T-390 (Champion Technologies)	Scale Inhibitor	Nonylphenol Ethoxylate	Proprietary	
		Glutaraldehyde	111-30-8	
		Quaternary Ammonium Compounds, Benzyl-C12-	111-50-6	
Bactron K-139 (Champion Technologies)	Biocide	16-Alkyldimethyl, Chlorides	68424-85-1	
		Ethanol	64-17-5	
	Diasida	Methanol	67-56-1	
Bactron K-219 (Champion Technologies)	Biocide	Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1	
	<b>A I I I I I I I I I I</b>	Amine Triphosphate	Proprietary	
EC6486A (Nalco Champion)	Scale Inhibitor	Ethylene Glycol	107-21-1	
		Hydrotreated light distillate (petroleum)	64742-47-8	
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Propenoic acid, polymer with propenamide	9003-06 9	
		Ethylene glycol	107-21 1	
		Cinnamaldehyde	104-55 2	
	Mixture	Butyl cellosolve	111-76 2	
AI-303 (U.S. Well Services)		Formic acid	64-18 6	
		Polyether	Proprietary	
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1	
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0	
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8	
·····	, , ,	Methanol	67-56-1	
		Oxyalkylated fatty acid	68951-67-7	
		Fatty acids	61790-12-3	
		Modified thiourea polymer	68527-49-1	
Econo-Cl200 (SWN Well Services)	Corrosion Inhibitor	Water	7732-18-5	
		Hydrochloric acid	7647-01-0	
		Potassium acetate	127-08-2	
		Formaldehyde	50-00-0	
		Acetic Acid	64-19-7	
Ecopol-FEAC (SWN Well Services)	Iron Control	Citric Acid	77-92-9	
		Water	7732-18-5	
		Hydrochloric Acid	7647-01-0	
HCL (SWN Well Services)	Hydrocholic Acid	Water	7732-18-5	
LOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary	
		Distillates (petroleum) hydrotreated light	64674-47-8	
		Ethylene Glycol		
LOJET DR900 LPP (SWN Well Services)	Friction Reducer	Alcohols, C12-16, Exoxylated propoxylated	68213-24-1	
	,	Fatty Alcohols ethoxylated	107-21-1 68213-24-1 Proprietary	
		Water	7732-18-5	
ED 7 <i>C</i>		Hydrotreated light petroleum distillate	64742-47-81	
FR-76 (Halliburton)	Friction Reducer	Inorganic Salt	64742-47-8 Proprietary	
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A	
EDD 01170 10		Polyacylate	Proprietary	
	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	
FDP-S1176-15 (Halliburton)	i netion Reducei	invalorieated light perioledin distillate	04742470	
		Organic phosphonate		
LP-65 MC (Halliburton)	Scale Inhibitor		Proprietary 12125-02-9	

