

### 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

July 28, 2015

### WELL WORK PERMIT

### Horizontal 6A Well

This permit, API Well Number: 47-5101840, 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.

James Martin

Chief

Operator's Well No: VAN ASTON MSH 201H

Farm Name: ASTON, VAN L.

API Well Number: 47-5101840

Permit Type: Horizontal 6A Well

Date Issued: 07/28/2015

API Number:	

### **PERMIT CONDITIONS**

4705101840

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**

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

WW-6B (10/14) API NO.475 69 1 0- 1 0 4 0

OPERATOR WELL NO. Van Aston MSH 201H

Well Pad Name: Van Aston MSH Pad

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

1) Well Operator: SWN Prod	duction Co., LLC	494512924	51-Marshall	1-Camer 370-Glen Ea	aston
Contract of the contract of th		Operator ID	County	District Quadrangle	
2) Operator's Well Number: V	an Aston MSH 2	01H Well F	ad Name: Van	Aston MSH Pad	
3) Farm Name/Surface Owner:	Van L. Aston	Public R	oad Access: Bru	ishy Ridge Road	
4) Elevation, current ground:	1152 E	levation, propose	ed post-construct	on: 1152	
5) Well Type (a) Gas x	Oil	Ur	derground Stora	ge	
Other					
(b)If Gas Sh	nallow x	Deep			
Н	orizontal 🗶		Me	3/11/15	
6) Existing Pad: Yes or No ye	es		_ ′	. /	
7) Proposed Target Formation(		The second secon			2727
Target Formation- Marcellus, Targ	et Top TVD- 6535', Tai	rget Base TVD- 6595	, Anticipated Thickn	ess- 59', Associated Pressure- 4	248
8) Proposed Total Vertical Dep	oth: 6572'				
9) Formation at Total Vertical	Depth: Marcellu	S			
10) Proposed Total Measured I	Depth: 14,100'				
11) Proposed Horizontal Leg L	Length: 6159'				
12) Approximate Fresh Water	Strata Depths:	ஊ 33℃	,		
13) Method to Determine Fresl	h Water Depths:	from log analys	is and nearby w	ater wells	
14) Approximate Saltwater De	pths: 1060'				
15) Approximate Coal Seam D	epths: 778'				
16) Approximate Depth to Pos	sible Void (coal m	ine, karst, other)	770' Active M	ine	
17) Does Proposed well location		ms Yes x	No		
(a) If Yes, provide Mine Info	: Name: McE	Iroy Mine		Received	
(a) a rest provide trime into	Depth: 770'			Office of Oil & Gas	
		burgh Seam		MAR 1 8 2015	
	Owner: McE	Iroy			

05101040

OPERATOR WELL NO. Van Aston MSH 201H

Well Pad Name: Van Aston MSH Pad

18)

### CASING AND TUBING PROGRAM

05101840

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#	±075 436°	## 436'	390 sx/CTS
Coal	9 5/8"	New	J-55	40#	2220'	-2220'2240'	850 sx/CTS
Intermediate	7"	New	P-110	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	P-110	20#	14,100'	14,100'	Lead 1160sx 1290 tall sx/100 inside rese
Tubing	2 3/8'	New	P-110	4.7#	Approx. 7369'	Approx. 7369'	
Liners							

TB

Ju 3/11/15

ТҮРЕ	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	0.020	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	0.020	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	0.020	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	0.020	Class A	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	0.020	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners							

### PACKERS

Kind:	10K Arrowset AS1-X	
Sizes:	5 1/2"	
Depths Set:		an and and

Office of Oil & Gas

MAR 1 8 2015

WW-6B (10/14)

OPERATOR WELL NO. Van Aston MSH 201H

Well Pad Name: Van Aston MSH Pad

0 5 1 0 1 8 4 0 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' 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 @ 80 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 9.50
- 22) Area to be disturbed for well pad only, less access road (acres): 5.48
- 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.

Office 1 8

\*Note: Attach additional sheets as needed.

## Not in undermined area

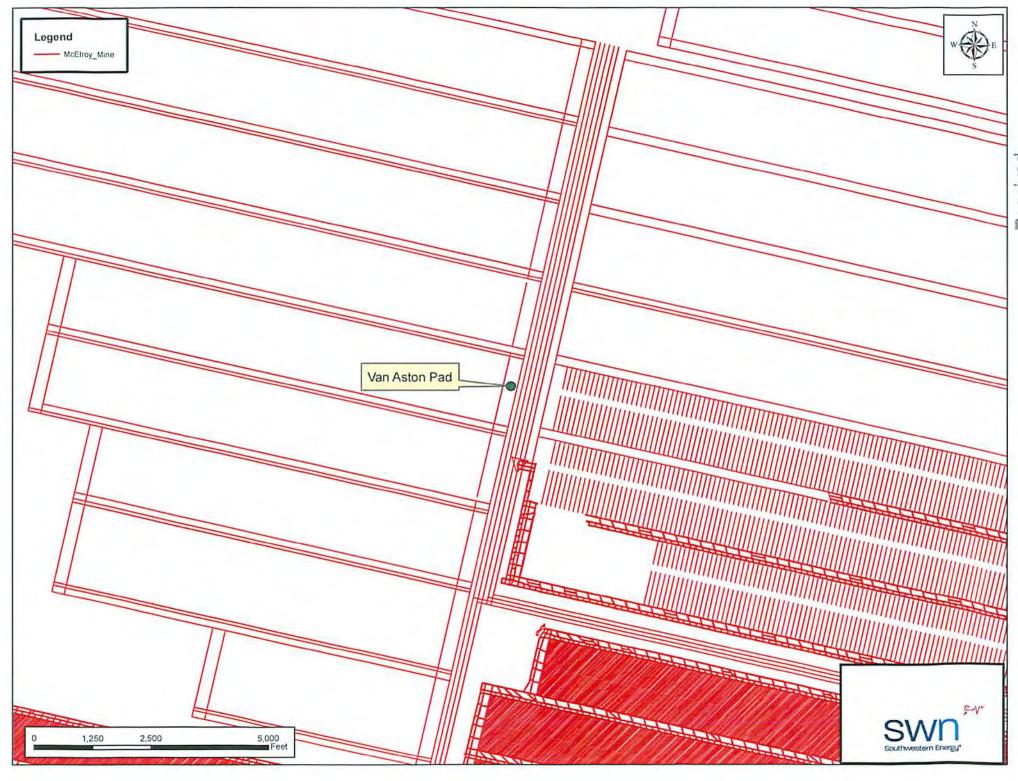


07/31/2015

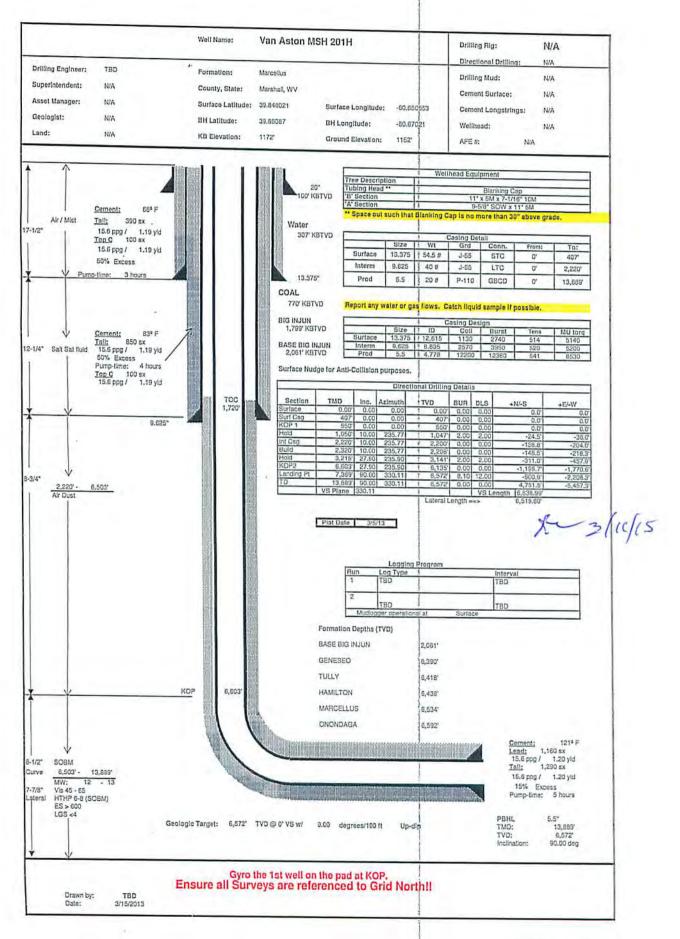
MAR 18 2013

D154	low-temperature extender	non-crystatline silica	7631-86-9
D400	EasyBLOK	boric acid	10043-35-3
8		Fuller's earth (attapulgite)	8031-18-3
의 D046	antifoam	Polypropylene glycol	25322-69-4
		chrystalline silica	14808-60-7
D201 D202	basic cements enabler	metal oxide	proprietary
ਰੂ <u> </u>	low-temperature solid	sulphonated synthetic polymer	proprietary
D202	dispersant	formaldehyde (impurity)	50-00-0
	.,,	Fuller's earth (attapulgite)	8031-18-3
D046	antifoam	Polypropylene glycol	25322-69-4
D167	UNIFLAC* S	aliphatic amide polymer	proprietary
D065	TIC* Dispersant	Sodium Polynaphthalene Sulfonate	9008-63-3
	,	Sodium Sulfate	7757-82-6
		chrystalline silica	14808-60-7
D201	basic cements enabler	metal oxide	proprietary
D153	Anti-Settling Agent	chrystalline silica	14808-60-7
SPACER			
B389	MUDPUSH* Express	Carbohydrate	proprietary
D206	Antifoaming Agent	Silica Organic Polymer	proprietary
D031	barite	barium sulfate	7727-43-7
		fatty acid amine	proprietary
		ethoxylated alcohol	proprietary
		glycerol	56-81-5
B220	surfactant	2.2'-!minodiethanol	111-42-2

# Received Office of Oil & Gas MAR 1 8 2015



Received
Office of Oil & Gas
MAR 1 8 2015



Receive 97/31/2015 Office of Oil & Gas MAR 1 8 2015 WW-9 (9/13)

API Number 47 -	en'		
Operator's	Well No.	Van Aston MSH 201H	

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

### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Watershed (HUC 10) Upper C	Ohio South Qu	adrangle 370- Glen Easton
		1 Comoron
Elevation 1152	County_51-Marshall	District 1- Cameron
Do you anticipate using more t	han 5,000 bbls of water to complete the p	proposed well work? Yes V No No
Will a pit be used? Yes	No 🗸	
If so, please describe a	anticipated pit waste: closed loop system	in place at this time-cuttings will be taken to a permitted landfill.
Will a synthetic liner l	be used in the pit? Yes No	If so, what ml.?
Proposed Disposal Me	ethod For Treated Pit Wastes:	
Land	d Application	
		2D0072539/ 2D0413175/ 2D0610306/ 2D0610317
	se (at API Number at next anticipated well, AF Site Disposal (Supply form WW-9 for d	Pl# will be included with the WR-34/DDMR &/or permit addendum.
		eel tanks and reused or taken to a permitted disposal facility.
Will closed loop system be use	d2 If so describerYes	
	7 301 2011 3	C. I Air and self-set gets mud
		, freshwater, oil based, etc. Air and salt saturate mud
-If oil based, what typ	e? Synthetic, petroleum, etc. Synthetic Oil E	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 nar Argen Langfill 10072, A	ne/permit number?madow SWF- 1032, 55 Grading SWF- 400 MERICAN UZ-12954, COUNTRY VV	22. Northwestern SWF-1025, Short Creek 1034/W/0109517/CID28726, Carbon Limissione 28726/CID28726  CIDE 3839U/CID3839U, PINE Grove 13688
on August 1, 2005, by the Office provisions of the permit are en law or regulation can lead to en I certify under penalt	ce of Oil and Gas of the West Virginia D forceable by law. Violations of any ter forcement action. y of law that I have personally examin	as of the GENERAL WATER POLLUTION PERMIT issue partment of Environmental Protection. I understand that m or condition of the general permit and/or other applicated and am familiar with the information submitted on the state of
		inquiry of those individuals immediately responsible urate, and complete. I am aware that there are signific
	formation, including the possibility of fi	ne or imprisonment. Received
Company Official Signature		Office of Oil & Gas
Company Official (Typed Nan	ne) Dee Southall	MAR 1 8 2015
	atory Supervisor	37 11010
sompany official Title		
Subscribed and sweet hefe	ashis 237d day of 40May	10014
Subscribed and sworn before m	this 2310 day of 100	UNIL OFFICIAL SEAL
Subscribed and sworn before m	this 23rd day of 4000	

Form WW-9

Proposed Revegetation Treatm	nent: Acres Disturbed 9	.50 Prevegetation pl	f
Lime as determined by pH test	Tons/acre or to corre	ct to pH 6.5	
Fertilizer type	)-20		
Fertilizer amount 60	00	lbs/acre	
Mulch_ Hay/Stra		_Tons/acre	
		Seed Mixtures	
Ten	nporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
White Grove	15	White Grove	15
Red Top	15	Red Top	15
Orchard Grass	20	Orchard Grass	20
Attach: Drawing(s) of road, location, provided)	pit and proposed area for	land application (unless engineered plans in	
Attach: Drawing(s) of road, location, provided) Photocopied section of involve	pit and proposed area for	land application (unless engineered plans in	
Attach: Drawing(s) of road, location, provided) Photocopied section of involve	pit and proposed area for ed 7.5' topographic sheet.	land application (unless engineered plans in	
Attach: Drawing(s) of road, location, provided) Photocopied section of involve	pit and proposed area for ed 7.5' topographic sheet.	land application (unless engineered plans in	cluding this info have be
Attach: Drawing(s) of road, location, porovided) Photocopied section of involved	pit and proposed area for ed 7.5' topographic sheet.	land application (unless engineered plans in	Received
Attach: Drawing(s) of road, location, provided) Photocopied section of involve	pit and proposed area for ed 7.5' topographic sheet.	land application (unless engineered plans in	

### Marcellus Well Drilling Procedures And Site Safety Plan

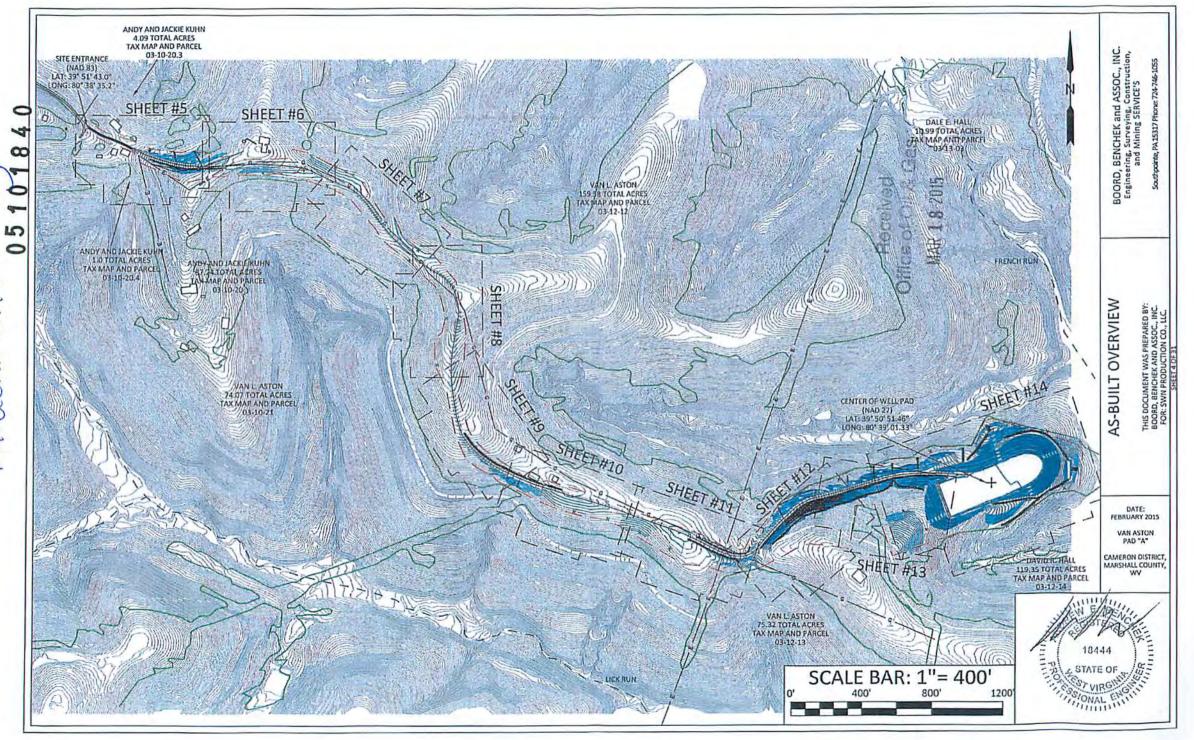
SWN Production Co., LLC

47 - 051 - 51840 Well name: Van Aston MSH 201H Glen Easton, Quad Cameron, District Marshall County, West Virginia

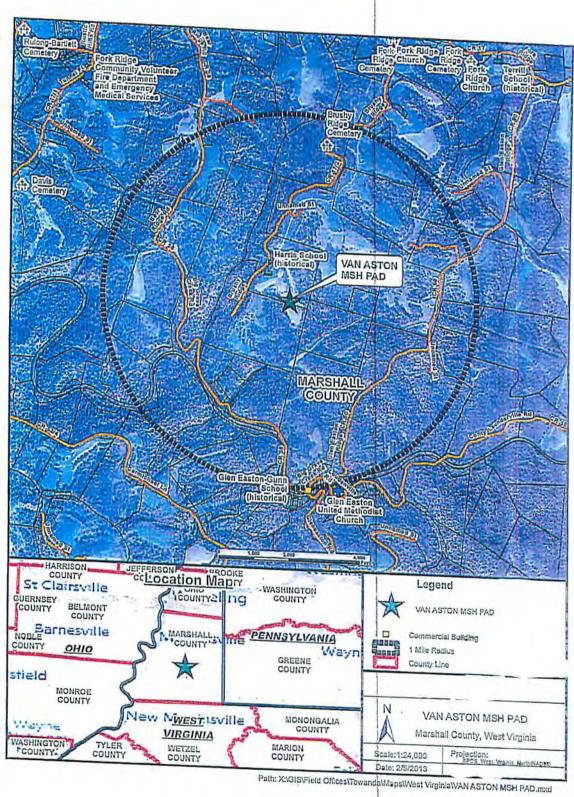
Submitted by: Danielle Southall	2/23/2015 Date:
Title Regulatory Supervisor	SWN Production Co., LLC
Approved by:  Title: Oil + Gas lust	Date: <u>\\\ \</u>
Approved by:	4
Title:  SWN Production Co., LLC – Confidential	Date:

Office of Oil & Gas

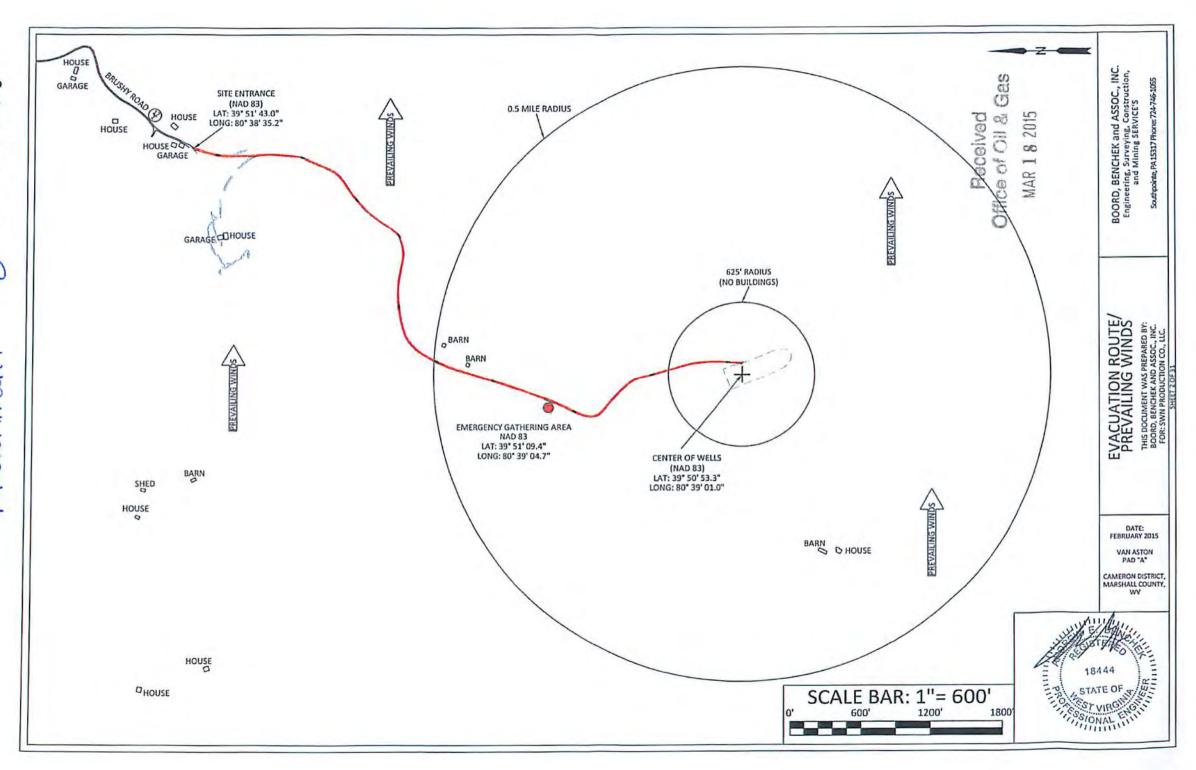
Attachmant #-3

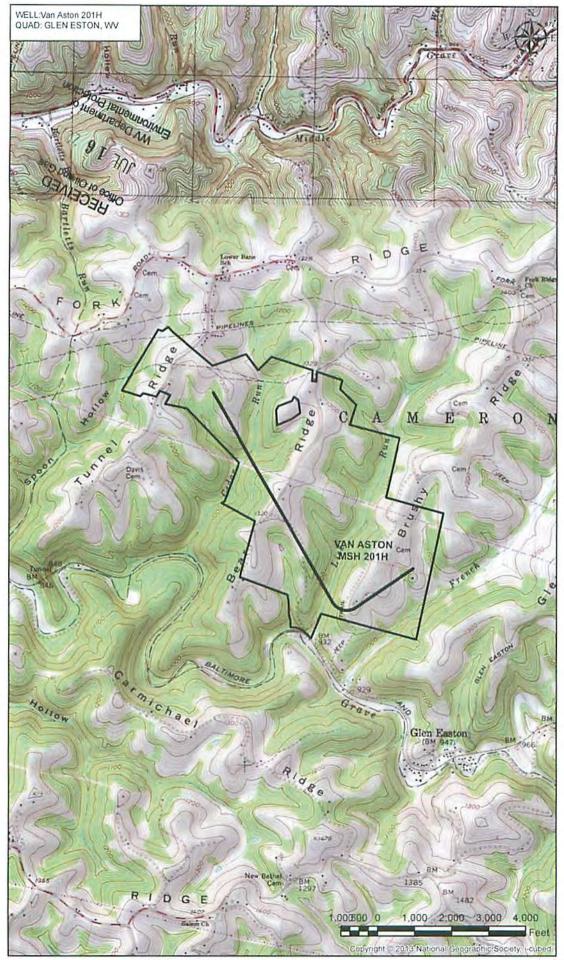


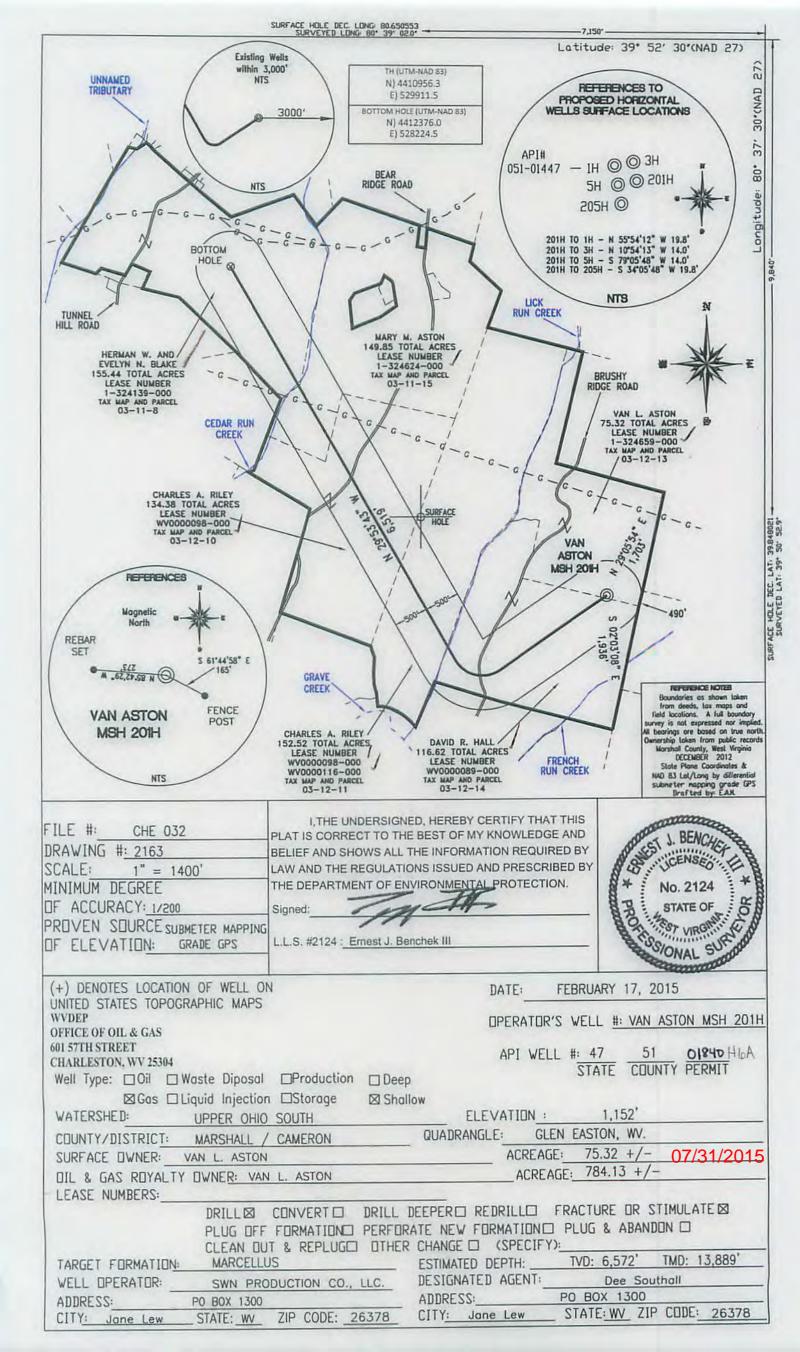
# Attachment #4 4



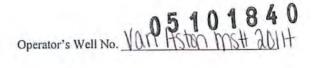
Received7/31/2015 Office of Oil & Gas MAD 1 8 2015







WW-6A1 (5/13)



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

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Exhibit "A"

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

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

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

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

Well Operator: SWN Production Company, LLC.

By:

Its:

Brandi Williams, Sr. Landman

Brad Willia

ffice of Oil & G

Page 7 of 1 8 2015

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, L.L.C., Operator

Van Aston 201H

Marshall County, West Virginia

#	TMP	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
1	03-12-14	WV-0000089-000	Karen S. Crow f/k/a Karen Meyers & Bernard S. Crow	Great Lakes Energy	15.00%	654/373
			Range Resources-Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.		23/368
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		33/110
2	03-12-13	1-324659-000	Van L. & Vicki L. Aston	Great Lakes Energy	12.50%	657/91
			Range Resources-Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.		23/368
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		33/110
3	03-11-15	1-324624-000	Mary Margaret Aston	Great Lakes Energy	12.50%	653/515
			Range Resources-Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.		23/368
		_	Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		33/110
4	03-11-08	1-324139-000	Herman W. & Evelyn N. Blake	Great Lakes Energy	12.50%	658/607
			Range Resources-Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.		23/368
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		33/110
5	03-12-11	WV-0000098-000	Charles A. & Linda Jean Riley	Great Lakes Energy	15.00%	652/36
			Range Resources-Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.		23/368
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		33/110
6	03-12-14	WV-0000116-000	Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	15.00%	731/180
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		33/110

Received Office of Oil & Gas MAR 1 8 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	Established Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
LLC   Limited Liability Company	9/24/1999		9/24/1999	Foreign	Profit		RECEIVED Office of Oil and Gas	

JUL 2 0 2015

Organization Info		WV Department of Environmental Protection		
Business Purpose	2111 - Mining, Quarrying, Oil & Gas Extraction - Oil and Gas Extraction - Crude Oil and Natural Gas Extraction	Capital Stock		
Charter County		Control Number	0	
Charter State	DE	Excess Acres		
At Will Term	A	Member Managed	MBR	

At Will Term Years	0	Par Value
Authorized Shares		

Addresses		
Гуре	Address	
Designated Office Address	209 WEST WASHINGTON STREET CHARLESTON, WV, 25302	
Mailing Address	380 SOUTHPOINTE BLVD, SUITE 300 CANNONSBURG, PA, 15317 USA	
Notice of Process Address	CORPORATION SERVICE COMPANY 209 WEST WASHINGTON STREET CHARLESTON, WV, 25302	
Principal Office Address	380 SOUTHPOINTE BLVD. SUITE 300 CANONSBURG, PA, 15317 USA	RECEIVED Office of Oil and Gas
Туре	Address	JUL <b>2 0</b> 2015
		WV Department of Environmental Protection

Officers

Type Name/Address

G LYNN BOGGS
4855 PEACHTREE INDUSTRIAL BOULEVARD
SUITE 245
NORCROSS, GA, 30092

Туре		Name/Address	
	Member	DAVID O'LEARY 4855 PEACHTREE INDUSTRIAL BOULEVARD SUITE 245 NORCROSS, GA, 30092	
	Member	DANIEL G OWENS 4855 PEACHTREE INDUSTRIAL BOULEVARD SUITE 245 NORCROSS, GA, 30092	

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

Date		Amendment
	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 SERVENCED
Date		Amendment Office of Oil and Gas

JUL 2 0 705

Annual Reports		WV Department of Environmental Protection
Date	Filed For	
6/17/2015	2015	
-		

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
4/11/2007	2007
4/10/2006	2006
4/12/2005	2005
3/17/2004	2004
4/8/2003	2003
5/6/2002	2002
4/4/2001	2001
4/20/2000	2000
Date	Filed For

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

Monday, July 20, 2015 — 11:34 AM

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RECEIVED
Office of Oil and Gas

JUL 2 0 7615

WV Department of Environmental Protection





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

March 11, 2015

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

RE: SWN's proposed Van Aston MSH 201H in Marshall County, West Virginia, Drilling under Bear Ridge Road and Brushy Ridge 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 Bear Ridge Road and Brushy Ridge 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,

Brandi Williams

Senior Landman

SWN Production Company, LLC

Brand Williams

PO Box 1300

Jane Lew, WV 26378

The Right People doing the Right Things,
wiscly Investing the cash flow from
current deriving Assets, will create Value+

MAR 1 8 2015

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

Date of Notic	ce Certification: 3/13/65	APIN	No. 47- 👊 -	
Date of Figure	37.31		itor's Well No. Van	Aston MSH 201H
			Pad Name: Van As	
Notice has l	been given:			
		§ 22-6A, the Operator has provided the	he required parties v	with the Notice Forms listed
below for the	tract of land as follows:			
State:	wv	UTM NAD 83 Eastin		
County:	51-Marshall	North	ing: 4410956.3	
District:	1- Cameron	Public Road Access:	Brushy Ridge Ro	pad
Quadrangle:	370- Glen Easton	Generally used farm nar	me: Van Aston	
Watershed:	Upper Ohio South			
information reof giving the requirements Virginia Code of this article	equired by subsections (b) and (c), so surface owner notice of entry to so of subsection (b), section sixteen of § 22-6A-11(b), the applicant shall have been completed by the applicant West Virginia Code § 22-6A, the Open	perator has attached proof to this Not	the requirement was stion ten of this art g by the surface over etary that the notice	deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West
The second second second	rator has properly served the require	d parties with the following:		OOG OFFICE USE
*PLEASE CHE	ECK ALL THAT APPLY			ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BESISMIC ACTIVITY WAS CON		RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or 🔳 NO PLAT SURVEY WA	AS CONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BE NOTICE OF ENTRY FOR PLATE WAS CONDUCTED OF		RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY SU (PLEASE ATTACH)	RFACE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED
■ 5. PUB	BLIC NOTICE			☐ RECEIVED
■ 6. NO	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 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\_\_\_\_\_\_\_, 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, includipg-the possibility of fine and imprisonment.

Well Operator: SWN Production Co., LLC

By: Dee Southall

Its: Regulatory Supervisor

Telephone: 832-796-1614

Address: P.O. Box 12359

Spring, TX 77391-4954

Facsimile: 92816182780@fax.com

Email: Dee\_Southall@swn.com

NOTARY 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 2310 day of

Notary Public

My Commission Expires\_\_\_\_

Oil and Gas Privacy Notice:

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

Received
Office of Oil & Gas
MAR 1 8 2015

WW-6A (9-13) API NO. 47
OPERATOR WELL NO. Van Aston MSH 201H
Well Pad Name: Van Aston MSH Pad

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

Not	ice Time Requirement: r	notice shall be provi	ided no later th	an, the filing date of permit application.	
	e of Notice: 2/3/5 Da	ate Permit Applica	tion Filed: 🧷	3/13/15	
<b>√</b>	PERMIT FOR ANY WELL WORK			PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	very method pursuant to	o West Virginia C	ode § 22-6A-1	0(b)	
	PERSONAL 🗸	REGISTERED	П метн	OD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL		IPT OR SIGNATURE CONFIRMATION	
oil a desc oper more well impo have prov prop subs reco prov Code wate	and gas leasehold being deveribed in the erosion and sect ator or lessee, in the event of coal seams; (4) The owner work, if the surface tract is bundment or pit as described a water well, spring or was ide water for consumption osed well work activity is the ection (b) of this section had soft the sheriff required to ision of this article to the coal of the section of the surface owner purveyor or surface owner purveyor or surface owner.	eloped by the proposition of the tract of land on wars of record of the subset of the period in section nine of the subset of the period in section nine of the supply source located by humans or domesto take place. (c)(1) I old interests in the late of the maintained purson trary, notice to a life in part, that the oper per subject to notice and	sed well work, is submitted pursury which the well purface tract or tralacement, constitution article; (5) cated within one stic animals; and f more than through, the application holder is no rator shall also purface water testing	ated; (2) The owners of record of the surface tr f the surface tract is to be used for roads or oth ant to subsection (c), section seven of this artic proposed to be drilled is located [sic] is known acts overlying the oil and gas leasehold being of ruction, enlargement, alteration, repair, removant Any surface owner or water purveyor who is known thousand five hundred feet of the center of the d (6) The operator of any natural gas storage fire the tenants in common or other co-owners of int not may serve the documents required upon the eight, article one, chapter eleven-a of this code to notice to a landowner, unless the lien holder is provide the Well Site Safety Plan ("WSSP") to as provided in section 15 of this rule.	er land disturbance as cle; (3) The coal owner, to be underlain by one or developed by the proposed all or abandonment of any nown to the applicant to e well pad which is used to eld within which the terests described in person described in the e. (2) Notwithstanding any s the landowner. W. Va. the surface owner and any
SU	JRFACE OWNER(s)			COAL OWNER OR LESSEE	
	ne: Van Aston		- /	Name: Consolidated Coal Company %Don Puglio	/
	ress: 763 Brushy Ridge Road		_	Address: 1000 Consol Energy Drive	
	Easton, WV 26039			Canonsburg, PA 15317	
	e: David R. Hall, ET UX		V	COAL OPERATOR	
	ress: 40 Friendly Road		-	Name:	
	Easton, WV 26039			Address:	
	JRFACE OWNER(s) (Ro	ad and/or Other Dis	sturbance)		
	ie:			SURFACE OWNER OF WATER WEL	L
Add	ress:		_	AND/OR WATER PURVEYOR(s)	
				Name: David Hall x5	
Van	e:			Name: David Hall x5 Address: 40 Friendly Road	
Add	ress:		_	Glen Easton, WV 26039	A FORMA TO PROTECT
				□ OPERATOR OF ANY NATURAL GAS	
_	JRFACE OWNER(s) (Im	poundments or Pits	)	Name:Address:	Deschard
Vam	e:	2 (21)		Address:	Heceived
Add	ress:		_		Office of Oil & Gas
				*Please attach additional forms if necessar	y
					MAR 1 8 2015

WW-6A (9-13) API NO. 47- 69 OPERATOR WELL NO. Van Aston MSH 201H
Well Pad Name: Van Aston MSH Pad

### 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 the	nan the filing date of permit application.
Date of Notice: Application Filed: 6	3/14/15
☑ PERMIT FOR ANY ☐ CERTIFICATE OF AFTER	PPROVAL FOR THE
	AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-1	10(b)
☐ PERSONAL ☐ REGISTERED ☐ MET	HOD OF DELIVERY THAT REQUIRES A
	EIPT OR SIGNATURE CONFIRMATION
sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be look be also be also being developed by the proposed well work, described in the erosion and sediment control plan submitted pursuapperator or lessee, in the event the tract of land on which the well more coal seams; (4) The owners of record of the surface tract or the well work, if the surface tract is to be used for the placement, consimpoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within on provide water for consumption by humans or domestic animals; are proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is not provised.	tor signature confirmation, copies of the application, the erosion and the well plat to each of the following persons: (1) The owners of record of cated; (2) The owners of record of the surface tract or tracts overlying the if the surface tract is to be used for roads or other land disturbance as uant to subsection (c), section seven of this article; (3) The coal owner, proposed to be drilled is located [sic] is known to be underlain by one or racts overlying the oil and gas leasehold being developed by the proposed struction, enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the applicant to e thousand five hundred feet of the center of the well pad which is used to ind (6) The operator of any natural gas storage field within which the ree tenants in common or other co-owners of interests described in the neight, article one, chapter eleven-a of this code. (2) Notwithstanding any of notice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any g as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice	e
SURFACE OWNER(s)	☐ COAL OWNER OR LESSEE
Name: Larry & Vicki Kuhn Address: 638 Brushy Ridge Road	Name:
Glen Easton, WV 26039	Address:
Name:	COAL OPERATOR
Address:	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
Name:	Name: Van Aston x8 Address: 763 Brushy Ridge Road
Address:	Glen Easton, WV 26039
	□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name: Received
Name:	Address: Office of Oil & Gas
Address:	*Discountry of the control of the co
	*Please attach additional forms if necessary MAR 1 8 2015

APIQ 547 169 1 8 4 0
OPERATOR WELL NO. Van Aston MSH 201H
Well Pad Name: Van Aston MSH Pad

### Notice is hereby given:

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

#### This Notice Shall Include:

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

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

Pursuant to W. Va. Code R. § 35-8-5,7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

### Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying 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 31,2912, 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

WW-6A (8-13) API NO. 47-69
OPERATOR WELL NO. Van Aston MSH 201H
Well Pad Name: Van Aston MSH Pad

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

### Water Well Testing:

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

### Water Testing Laboratories:

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

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

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

#### Written Comment:

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

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

Received
Office of Oil 8. Gas
MAR 1 8 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) API NO. 40 5 1.0 18 4 0
OPERATOR WELL NO. Van Aston MSH 201H
Well Pad Name: Van Aston MSH Pad

### Time Limits and Methods for Filing Comments.

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

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

### **Comment Requirements**

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

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

### Permit Denial or Condition

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

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

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

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

Office of Oil & Gas

101840

WW-6A (8-13)

API NO. 47-69

OPERATOR WELL NO. Van Aston MSH 201H Well Pad Name: Van Aston MSH 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 12359

Spring, TX 77391-4954

Facsimile: 92816182780@fax.com

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 310 day of My Commission Expires\_

> Received Office of Oil & Gas MAR 18 2015

05101840

### 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.

Delivery method pursuant to West Virginia Code § 22-6A-16(b)  HAND 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 a receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfied this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representations. Name: Larry & Vicki Kuthn  Name: Larry & Vicki Kuthn Address: Gian Easton, WV 26039  Notice is hereby given:  Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intersurface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:  Vest Virginia  UTM NAD 83  Northing:  Watershed: West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number and electronic mail address of the operator and the operator's authorized representative. Addressimile number and electronic mail address of the operator and the operator's authorized representative. Addressimile number and electronic mail address of the operator and the operator's authorized representative. Addressimile number and electronic mail address of the operator and the operator's authorized representative. Addressimile number and electronic mail address of the operator and the operator's authorized representative. Addressimile number and electronic mail address of the operator and the operator's authorized representative. Addressimile number and electronic mail address of the operator and the operator's authorized representative. Addressi	
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receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfied this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Address:  Notice is hereby provided to the SURFACE OWNER(s):  Name: Larry & Vicki Kuhn  Address: 638 Brushy Ridge Road  Glen Easton, WV 26039  Notice is hereby given:  Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intense surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:  State: West Virginia  County: Marshall  UTM NAD 83 Easting: 529911.5  County: Marshall  UTM NAD 83 Northing: 52991.5  Vorthing: 4410956.3  District: Cameron  Public Road Access: Brushy Ridge Road  Quadrangle: Glen Easton WV  Generally used farm name:  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 facsimile number and electronic mail address of the operator and the operator's authorized representative. Addrelated to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protections.	
Name: Larry & Vicki Kuhn Address: 638 Brushy Ridge Road Glen Easton, WV 26039  Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia County: Marshall District: Cameron Quadrangle: Glen Easton WV Generally used farm name: 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 facsimile number and electronic mail address of the operator and the operator's authorized representative. Addrelated to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Prote	nd for the purpose of fies the requirements requirements of this s, telephone number,
Address: 638 Brushy Ridge Road  Glen Easton, WV 26039  Notice is hereby given:  Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an inthe surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:  State: West Virginia  County: Marshall  District: Cameron  Quadrangle: Glen Easton WV  Generally used farm name:  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 facsimile number and electronic mail address of the operator and the operator's authorized representative. Addrelated to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Prote	
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District: Cameron Public Road Access: Brushy Ridge Road  Quadrangle: Glen Easton WV Generally used farm name:  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 facsimile number and electronic mail address of the operator and the operator's authorized representative. Addreded to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection.	
Quadrangle: Glen Easton WV Generally used farm name:  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 facsimile number and electronic mail address of the operator and the operator's authorized representative. Addrelated to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Proteins.	
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 facsimile number and electronic mail address of the operator and the operator's authorized representative. Addressed to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection.	
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	Iditional information tection headquarters,
Notice is hereby given by:	
Well Operator: SWN Production Company, LLC Authorized Representative: Danielle Southall	
Address: PO Box 1300 Address: PO Box 1300	
Jane Lew, WV 26378 Jane Lew, WV 26378	
Telephone: 304-884-1611 Telephone: 304-884-1614	
Email: micah_feather@swn.com Email: danielle_southall@swn.com Facsimile: Facsimile:	

### Oil and Gas Privacy Notice:

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

MAR 1 8 2015

WW-6A4 (1/12)

## 05101840

## 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.

Delivery met			1115
a property of the same	hod pursuant to West Virginia Code	§ 22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		EOLIESTED	
DELIVE	RETURN RECEIPT R	EQUESTED	
receipt request drilling a horion this subsection manager.	sted or hand delivery, give the surface of izontal well: <i>Provided</i> , That notice give tion as of the date the notice was provid by be waived in writing by the surface of	wner notice of its intent to enter upon the en pursuant to subsection (a), section tended to the surface owner: <i>Provided, how</i>	an operator shall, by certified mail return e surface owner's land for the purpose of n of this article satisfies the requirements ever, That the notice requirements of this ide the name, address, telephone number, r's authorized representative.
	reby provided to the SURFACE O		
Name: David R. Address: 40 Fr		Name:Address:	
Glen Easton, WV		Address:	
State: County:	West Virginia Marshall	— IIIM NAD X3	529911.5 4410956.3
State:	West Virginia		529911.5
District:	Cameron		Brushy Ridge Road
Jisti ict.	A STATE OF THE PARTY OF THE PAR		Erasily raage road
	Glen Faston WV	Generally used farm name:	
Quadrangle: Watershed:	Glen Easton WV Upper Ohio South	Generally used farm name:	
Quadrangle: Watershed:  This Notice Oursuant to Vacsimile nun related to hor	Upper Ohio South  Shall Include:  Vest Virginia Code § 22-6A-16(b), the ober and electronic mail address of the izontal drilling may be obtained from the ob	is notice shall include the name, address operator and the operator's authorize the Secretary, at the WV Department of	ess, telephone number, and if available, d representative. Additional information Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
Quadrangle: Watershed:  This Notice Pursuant to Vacsimile nun elated to hor ocated at 601  Notice is he	Shall Include: West Virginia Code § 22-6A-16(b), the observant delectronic mail address of the izontal drilling may be obtained from the 57 <sup>th</sup> Street, SE, Charleston, WV 25304 reby given by:	is notice shall include the name, address operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting www.de	d representative. Additional information Environmental Protection headquarters,
Quadrangle: Watershed:  This Notice Pursuant to Vacsimile nun elated to hor ocated at 601  Notice is he Well Operator	Shall Include: West Virginia Code § 22-6A-16(b), the observant delectronic mail address of the izontal drilling may be obtained from the 57 <sup>th</sup> Street, SE, Charleston, WV 25304 reby given by:	is notice shall include the name, address operator and the operator's authorize he Secretary, at the WV Department of (304-926-0450) or by visiting www.de	d representative. Additional information Environmental Protection headquarters,
Quadrangle: Watershed:  This Notice Pursuant to Viacsimile nun related to hor ocated at 601  Notice is he Well Operator	Shall Include: West Virginia Code § 22-6A-16(b), the observant delectronic mail address of the izontal drilling may be obtained from the 57 <sup>th</sup> Street, SE, Charleston, WV 25304 reby given by:	is notice shall include the name, address operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting www.de	d representative. Additional information Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
Quadrangle: Watershed:  This Notice Pursuant to Viacsimile nun related to hor ocated at 601  Notice is he Well Operator	Shall Include:  Vest Virginia Code § 22-6A-16(b), the ober and electronic mail address of the izontal drilling may be obtained from the 57 <sup>th</sup> Street, SE, Charleston, WV 25304  reby given by:  T: SWN Production Company, LLC	is notice shall include the name, address:	d representative. Additional information Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Danielle Southall
Quadrangle: Watershed:  This Notice Pursuant to Vacsimile nun related to hor ocated at 601  Notice is he Well Operato Address:	Shall Include:  Vest Virginia Code § 22-6A-16(b), the observation of the izontal drilling may be obtained from the street, SE, Charleston, WV 25304  reby given by:  SWN Production Company, LLC PO Box 1300	is notice shall include the name, address operator and the operator's authorize he Secretary, at the WV Department of (304-926-0450) or by visiting www.de	d representative. Additional information Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Danielle Southall PO Box 1300
Quadrangle: Watershed: Fhis Notice Pursuant to Vacsimile nun related to hor ocated at 601	Upper Ohio South  Shall Include:  Vest Virginia Code § 22-6A-16(b), the observant delectronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304  reby given by:  SWN Production Company, LLC PO Box 1300  Jane Lew, WV 26378	is notice shall include the name, address:	d representative. Additional information Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Danielle Southall PO Box 1300 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.

### 05101840

# 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.

Date of Notic		at least TEN (10) days prior to filing a ermit Application Filed:	permit application.
Delivery met	nod pursuant to West Virginia Code §	§ 22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		EQUESTED	
receipt reques drilling a hori of this subsect subsection ma and if available	ted or hand delivery, give the surface of zontal well: <i>Provided</i> , That notice give ion as of the date the notice was provid y be waived in writing by the surface of e, facsimile number and electronic mail	when notice of its intent to enter upon the pursuant to subsection (a), section te ed to the surface owner: <i>Provided, how</i> when. The notice, if required, shall included address of the operator and the operator	an operator shall, by certified mail return the surface owner's land for the purpose of this article satisfies the requirements ever, That the notice requirements of this add the name, address, telephone number, r's authorized representative.
Notice is her Name: Van L Ass	reby provided to the SURFACE O	WNER(s): Name:	
Address: 763 B		Address:	
Glen Easton, WV		Tidal Cool	
State: County:	West Virginia	Danthan	
District: Quadrangle:	Marshall Cameron Glen Easton WV Upper Ohio South	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	529911.5 4410956.3 Brushy Ridge Road
District: Quadrangle: Watershed: This Notice Pursuant to V facsimile num related to hori	Cameron Glen Easton WV Upper Ohio South  Shall Include: Vest Virginia Code § 22-6A-16(b), this ber and electronic mail address of the zontal drilling may be obtained from the	Public Road Access: Generally used farm name: is notice shall include the name, addresoperator and the operator's authorize the Secretary, at the WV Department of	4410956.3
District: Quadrangle: Watershed:  This Notice Pursuant to W facsimile num related to hori located at 601  Notice is her	Cameron Glen Easton WV Upper Ohio South  Shall Include: Vest Virginia Code § 22-6A-16(b), this ber and electronic mail address of the zontal drilling may be obtained from to 57 <sup>th</sup> Street, SE, Charleston, WV 25304  reby given by:	Public Road Access: Generally used farm name: is notice shall include the name, addresoperator and the operator's authorize the Secretary, at the WV Department of	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters,
District: Quadrangle: Watershed:  This Notice Pursuant to W facsimile num related to hori located at 601  Notice is her Well Operator	Cameron Glen Easton WV Upper Ohio South  Shall Include: Vest Virginia Code § 22-6A-16(b), this ober and electronic mail address of the zontal drilling may be obtained from the street, SE, Charleston, WV 25304	Public Road Access: Generally used farm name: is notice shall include the name, addresoperator and the operator's authorize the Secretary, at the WV Department of	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters,
District: Quadrangle: Watershed:  This Notice Pursuant to W facsimile num related to hori located at 601  Notice is her	Cameron Glen Easton WV Upper Ohio South  Shall Include: Vest Virginia Code § 22-6A-16(b), this ber and electronic mail address of the zontal drilling may be obtained from to 57 <sup>th</sup> Street, SE, Charleston, WV 25304  reby given by:	Public Road Access:  Generally used farm name:  is notice shall include the name, addre operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting www.de	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
District: Quadrangle: Watershed:  This Notice Pursuant to W facsimile num related to hori located at 601  Notice is her Well Operator Address:	Cameron Glen Easton WV Upper Ohio South  Shall Include: Vest Virginia Code § 22-6A-16(b), this ber and electronic mail address of the zontal drilling may be obtained from to 57th Street, SE, Charleston, WV 25304  Teby given by: SWN Production Company, LLC	Public Road Access: Generally used farm name:  is notice shall include the name, address operator and the operator's authorize he Secretary, at the WV Department of (304-926-0450) or by visiting www.de  Authorized Representative: Address:	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Danielle Southall
District: Quadrangle: Watershed:  This Notice Pursuant to W facsimile num related to hori located at 601  Notice is her Well Operator	Cameron Glen Easton WV Upper Ohio South  Shall Include: Vest Virginia Code § 22-6A-16(b), this ober and electronic mail address of the zontal drilling may be obtained from to 57th Street, SE, Charleston, WV 25304  reby given by: SWN Production Company, LLC PO Box 1300	Public Road Access: Generally used farm name: is notice shall include the name, addresoperator and the operator's authorize he Secretary, at the WV Department of (304-926-0450) or by visiting www.de	ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Danielle Southall PO Box 1300

#### Oil and Gas Privacy Notice:

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

MAR 1 8 2015

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

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

Notice Time Date of Notic	Requirement: Notice shall be provided at ee: 03/27/2015 Date Per	t least TEN (10) days prior to filing a rmit Application Filed:	permit application.
Delivery met	hod pursuant to West Virginia Code § 2	22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		QUESTED	
receipt request drilling a hore of this subsect subsection ma	V. Va. Code § 22-6A-16(b), at least ten day sted or hand delivery, give the surface own izontal well: <i>Provided</i> , That notice given tion as of the date the notice was provided by be waived in writing by the surface own le, facsimile number and electronic mail as	ner notice of its intent to enter upon the pursuant to subsection (a), section te I to the surface owner: <i>Provided, how</i> ner. The notice, if required, shall include	ne surface owner's land for the purpose of n of this article satisfies the requirements vever, That the notice requirements of this add the name, address, telephone number,
	reby provided to the SURFACE OW		
Name: Andy & .		Name:	
Address: 611	Brushy Ridge Road	Address:	
Notice is he Pursuant to V the surface ov	reby given: Vest Virginia Code § 22-6A-16(b), notice wner's land for the purpose of drilling a ho	rizontal well on the tract of land as fo	llows:
Notice is he Pursuant to V	reby given: Vest Virginia Code § 22-6A-16(b), notice		
Notice is he Pursuant to W the surface ov State:	reby given: Vest Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a ho West Virginia	rizontal well on the tract of land as fo	llows: 529911.5
Notice is he Pursuant to W the surface ov State: County:	reby given: Vest Virginia Code § 22-6A-16(b), notice wher's land for the purpose of drilling a ho West Virginia Marshall	rizontal well on the tract of land as fo  UTM NAD 83  Easting: Northing:	Hows: 529911.5 4410956.3
Notice is he Pursuant to W the surface ov State: County: District:	reby given: Vest Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a ho West Virginia Marshall Cameron	urizontal well on the tract of land as fo UTM NAD 83 Easting: Northing: Public Road Access:	llows: 529911.5
Notice is he Pursuant to W the surface ov State: County: District: Quadrangle:	reby given: Vest Virginia Code § 22-6A-16(b), notice wher's land for the purpose of drilling a ho West Virginia Marshall	rizontal well on the tract of land as fo  UTM NAD 83  Easting: Northing:	Hows: 529911.5 4410956.3
Notice is he Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile num related to hor	reby given: Vest Virginia Code § 22-6A-16(b), notice wher's land for the purpose of drilling a ho West Virginia  Marshall Cameron Glen Easton WV	rizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of	llows: 529911.5 4410956.3 Brushy Ridge Road  ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters,
Notice is he Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile nur related to hor located at 601	reby given: Vest Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a ho West Virginia  Marshall  Cameron  Glen Easton WV  Upper Ohio South  Shall Include: West Virginia Code § 22-6A-16(b), this nber and electronic mail address of the cizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (Creby given by:	rizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of	llows: 529911.5 4410956.3 Brushy Ridge Road  ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters,
Notice is he Pursuant to Whe surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Watershed to hor located at 601	reby given: Vest Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a ho West Virginia  Marshall  Cameron  Glen Easton WV  Upper Ohio South  Shall Include: West Virginia Code § 22-6A-16(b), this nber and electronic mail address of the orizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (25304)	rizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of	llows: 529911.5 4410956.3 Brushy Ridge Road  ess, telephone number, and if available, d representative. Additional information f Environmental Protection headquarters,
Notice is he Pursuant to Whe surface of State: County: District: Quadrangle: Watershed:  This Notice Pursuant to Watershiel number of the State of the Notice of the Notice of the Notice is he Well Operator	reby given: Vest Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a ho West Virginia  Marshall  Cameron  Glen Easton WV  Upper Ohio South  Shall Include: West Virginia Code § 22-6A-16(b), this nber and electronic mail address of the cizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (Creby given by:	rizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  notice shall include the name, addroperator and the operator's authorize as Secretary, at the WV Department of 304-926-0450) or by visiting www.de	llows: 529911.5 4410956.3 Brushy Ridge Road  ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he Pursuant to We the surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to We facsimile number related to hor located at 601 Notice is he Well Operato Address:	reby given: Vest Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a ho West Virginia Marshall Cameron Glen Easton WV Upper Ohio South  Shall Include: West Virginia Code § 22-6A-16(b), this nber and electronic mail address of the drizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (3) reby given by: r: SWN Production Company, LLC	rizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  notice shall include the name, address: Secretary, at the WV Department of 304-926-0450) or by visiting www.de  Authorized Representative: Address:	llows: 529911.5 4410956.3 Brushy Ridge Road  ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Danielle Southall
Notice is he Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile nur related to hor located at 601 Notice is he Well Operato Address: Telephone:	reby given: Vest Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a ho West Virginia  Marshall  Cameron  Glen Easton WV  Upper Ohio South  Shall Include: West Virginia Code § 22-6A-16(b), this nber and electronic mail address of the dizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (3)  reby given by: r: SWN Production Company, LLC PO Box 1300	rizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  notice shall include the name, addroperator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.de	llows: 529911.5 4410956.3 Brushy Ridge Road  ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Danielle Southall PO Box 1300
Notice is he Pursuant to W the surface ov State: County: District: Quadrangle: Watershed: This Notice Pursuant to W facsimile nur related to hor located at 601	reby given: Vest Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a ho West Virginia  Marshall  Cameron  Glen Easton WV  Upper Ohio South  Shall Include: West Virginia Code § 22-6A-16(b), this nber and electronic mail address of the dizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (Creby given by:  r: SWN Production Company, LLC  PO Box 1300  Jane Lew, WV 26378	rizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  notice shall include the name, address: Secretary, at the WV Department of 304-926-0450) or by visiting www.de  Authorized Representative: Address:	llows: 529911.5 4410956.3 Brushy Ridge Road  ess, telephone number, and if available, and representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.  Danielle Southall PO Box 1300 Jane Lew, WV 26378

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 Office of Oil and Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

MAR 3 1 2015

WW-6A5 (1/12) Operator Well No. Van Aston MSH 201H 0 5 1 0 1 8 4 0

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

	e Requirement: notice shall be provice: 02/24/2015 Date Per		o later than the filing	date of permit	application.
Delivery me	ethod pursuant to West Virginia C	ode § 2	22-6A-16(c)		
■ CERT	IFIED MAIL		HAND		
RETU	RN RECEIPT REQUESTED		DELIVERY		
return receip the planned required to b drilling of a damages to t	or requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A propose the surface affected by oil and gas of	this suntantent ten of	ace owner whose lan absection shall inclu- if this article to a surface use and compen- ace use and compen- ace to the extent the d	d will be used for de: (1) A copy ace owner whos sation agreemen amages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	reby provided to the SURFACE O				
Name: Larry &		at the t	Name:		
Address: 638	Brushy Ridge Road	. ,	Addres	s:	
Glen Easton, W	V 26039	-			
State: County: District:	Marshall Cameron		UTM NAD	Easting: Northing:	529911.5 4410956.3 Brushy Ridge Road
Quadrangle: Watershed:	Glen Easton WV Upper Ohio South		Generally us	ed farm name:	
Pursuant to to be provide horizontal wasurface affect information	ded by W. Va. Code § 22-6A-10(b) yell; and (3) A proposed surface use cted by oil and gas operations to the related to horizontal drilling may be, located at 601 57th Street, SE,	to a s and co e exten e obta	surface owner whos impensation agreement the damages are coined from the Secre-	e land will be u ent containing ar compensable und tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-double-number-10">www.dep.wv.gov/oil-and-double-number-10</a>
Well Operat	OF: SWN Production Company, LLC		Address:	PO Box 1300	
Telephone:	304-884-1611			Jane Lew, WV 2637	78
Email:	danielle_southall@swn.com		Facsimile:		
The Office of duties. Your	personal information may be discl	losed to	o other State agenci	es or third parti	telephone number, as part of our regulatory ies in the normal course of business or as aformation Act requests. Our office will

# STATE OF WEST VIRGINIA 05 101840 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

	ee: 03/27/2015 Date Permit A	Application Filed: 3/16/15	application.
Delivery met	hod pursuant to West Virginia Code §	22-6A-16(c)	
CERTI	FIED MAIL	HAND	
	RN RECEIPT REQUESTED	DELIVERY	
KETUI	IN RECEIPT REQUESTED	DELIVERI	
eturn receipt he planned of required to be drilling of a lamages to the d) The notice of notice.	requested or hand delivery, give the sur- operation. The notice required by this provided by subsection (b), section ten- norizontal well; and (3) A proposed sur- ne surface affected by oil and gas operation	face owner whose land will be used for subsection shall include: (1) A copy of this article to a surface owner whose face use and compensation agreement ons to the extent the damages are compensation to the surface owner at the address list	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information is land will be used in conjunction with the transition containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	s listed in the records of the sheriff at the		
Name: Andy & J		Name:	
Address: 611 E	Brushy Ridge Road	Address:	
Glen Easton, WV	26039		
Notice is her		is hereby given that the undersigned a	well operator has developed a planned
Notice is here Pursuant to W peration on state: County:	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Marshall Cameron	of drilling a horizontal well on the tra  UTM NAD 83 Easting: Northing: Public Road Access:	well operator has developed a planned ct of land as follows:  529911.5  4410956.3  Brushy Ridge Road
Notice is here Pursuant to W operation on State: County: District:	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia  Marshall	of drilling a horizontal well on the tra  UTM NAD 83 Easting: Northing:	ct of land as follows: 529911.5 4410956.3
Notice is here Pursuant to We operation on State: County: District: Quadrangle:	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia  Marshall  Cameron	of drilling a horizontal well on the tra  UTM NAD 83 Easting: Northing: Public Road Access:	ct of land as follows: 529911.5 4410956.3
Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to W o be provide norizontal we surface affect information r	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia  Marshall  Cameron  Glen Easton WV  Upper Ohio South  Shall Include: Vest Virginia Code § 22-6A-16(c), this med by W. Va. Code § 22-6A-10(b) to a sell; and (3) A proposed surface use and code do yoil and gas operations to the extreolated to horizontal drilling may be obtolocated at 601 57th Street, SE, Cha	of drilling a horizontal well on the tra  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  otice shall include: (1)A copy of this surface owner whose land will be tompensation agreement containing an ent the damages are compensable und tained from the Secretary, at the WV	code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
Notice is here Pursuant to We peration on State: County: District: Quadrangle: Watershed: Pursuant to We to be provided porizontal we purface affect information readquarters, gas/pages/def	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia  Marshall  Cameron  Glen Easton WV  Upper Ohio South  Shall Include: Vest Virginia Code § 22-6A-16(c), this med by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and cell; and (3) A proposed surface use and cell to horizontal drilling may be obtained at 601 57th Street, SE, Characteristics.	of drilling a horizontal well on the tra  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  otice shall include: (1)A copy of this surface owner whose land will be tompensation agreement containing an ent the damages are compensable und tained from the Secretary, at the WV	code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed:  Fhis Notice S Pursuant to W o be provide norizontal we ourface affect information r neadquarters,	Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia  Marshall  Cameron  Glen Easton WV  Upper Ohio South  Shall Include: Vest Virginia Code § 22-6A-16(c), this med by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and cell; and (3) A proposed surface use and cell to horizontal drilling may be obtained at 601 57th Street, SE, Characteristics.	of drilling a horizontal well on the tra  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  otice shall include: (1)A copy of this surface owner whose land will be a compensation agreement containing an ent the damages are compensable und tained from the Secretary, at the WV rleston, WV 25304 (304-926-0450)	code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting <a href="https://www.dep.wv.gov/oil-and-department">www.dep.wv.gov/oil-and-department</a>

Oil and Gas Privacy Notice:

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

RECEIVED
Office of Oil and Gas

MAR 3 1 2015

WV Department 21/2015
Environmental Protection

WW-6A5 (1/12)

# STATE OF WEST VIRGINIA 05101840 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

		equirement: notice shall be provid	ed no	o later than the filing pplication Filed:	date of permit	application.
Deliver	y metho	d pursuant to West Virginia Coo	de §	22-6A-16(c)		
■ CI	CDTICH	SDAMI		HAND		
		ED MAIL		HAND		
R	ETURN	RECEIPT REQUESTED		DELIVERY		
return re the plan required drilling damages	eceipt re ined ope I to be pr of a hor s to the s notices	quested or hand delivery, give the ration. The notice required by the rovided by subsection (b), section rizontal well; and (3) A proposed surface affected by oil and gas open	surfa his so ten o surfa ration	ace owner whose land absection shall incluse this article to a surface use and compens as to the extent the date	I will be used for de: (1) A copy ace owner whos sation agreemen amages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information the land will be used in conjunction with the section to the containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
		y provided to the SURFACE OV sted in the records of the sheriff at				
Name: V			the	/ Name:		
		thy Ridge Road	/	Addres	ç.	
	on, WV 260			ridares		
	t to Wes				l well on the tra	well operator has developed a planned ct of land as follows:  529911.5  4410956.3
District:		ameron		Public Road		Brushy Ridge Road
Quadran	_	len Easton WV			ed farm name:	alushy riuge roau
Watersh	_	pper Ohio South		Generally use	ed farm name.	
Pursuant to be pr horizont surface a informat	t to West rovided tal well; affected tion relaters, lo	by W. Va. Code § 22-6A-10(b) t and (3) A proposed surface use ar by oil and gas operations to the ated to horizontal drilling may be beated at 601 57 <sup>th</sup> Street, SE,	o a s nd co exter obta	surface owner whose impensation agreement the damages are co- lined from the Secret	e land will be unt containing an ompensable und tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting

### 0 5 1 0 1 8 4 0 Operator Well No. Van Aston MSH 201H

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

Pursua	y method pursuant to West Virginia ERTIFIED MAIL ETURN RECEIPT REQUESTED	
Pursua return		
Pursua return	ETURN RECEIPT REQUESTED	☐ HAND
return i		DELIVERY
require drilling damage (d) The of notice	eceipt requested or hand delivery, give aned operation. The notice required I to be provided by subsection (b), sec of a horizontal well; and (3) A prop s to the surface affected by oil and gas notices required by this section shall	later than the date for filing the permit application, an operator shall, by certified mail the surface owner whose land will be used for the drilling of a horizontal well notice of by this subsection shall include: (1) A copy of this code section; (2) The information attention ten of this article to a surface owner whose land will be used in conjunction with the osed surface use and compensation agreement containing an offer of compensation for a operations to the extent the damages are compensable under article six-b of this chapter, be given to the surface owner at the address listed in the records of the sheriff at the time
	is hereby provided to the SURFACE	
	David R. Hall ET UX	Name:
	40 Friendly Road	Address:
Glen Ea	ton, WV 26039	VOLUME -
operati State: County District Quadra	West Virginia Marshall Cameron	purpose of drilling a horizontal well on the tract of land as follows:  UTM NAD 83 Easting: 529911.5 Northing: 4410956.3 Public Road Access: Brushy Ridge Road Generally used farm name:
Waters	ned: Upper Ohio South	
Pursua		c), this notice shall include: (1)A copy of this code section; (2) The information required (b) to a surface owner whose land will be used in conjunction with the drilling of a
horizor surface inform headqu	tal well; and (3) A proposed surface taffected by oil and gas operations to tion related to horizontal drilling ma	is and compensation agreement containing an offer of compensation for damages to the the extent the damages are compensable under article six-b of this chapter. Additionally be obtained from the Secretary, at the WV Department of Environmental Protection C., Charleston, WV 25304 (304-926-0450) or by visiting <a href="www.dep.wv.gov/oil-and-damages">www.dep.wv.gov/oil-and-damages</a> to the
horizor surface inform headqu gas/pag	tal well; and (3) A proposed surface to affected by oil and gas operations to tion related to horizontal drilling materies, located at 601 57th Street, SEes/default.aspx.	the extent the damages are compensable under article six-b of this chapter. Additional by be obtained from the Secretary, at the WV Department of Environmental Protection C., Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-damages">www.dep.wv.gov/oil-and-damages</a> are compensable under article six-b of this chapter. Additional by be obtained from the Secretary, at the WV Department of Environmental Protection C., Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-damages">www.dep.wv.gov/oil-and-damages</a> .
horizor surface inform headqu gas/pag	tal well; and (3) A proposed surface to affected by oil and gas operations to tion related to horizontal drilling materies, located at 601 57th Street, SEes/default.aspx.	the extent the damages are compensable under article six-b of this chapter. Additional y be obtained from the Secretary, at the WV Department of Environmental Protection

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.

Office of Oil & Gas



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## Division of Highways 1900 Kanawha Boulevard East • Building Five • Room 110

Charleston, West Virginia 25305-0430 • (304) 558-3505

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

February 4, 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 Van Aston Pad MSH 201H Well Site, Marshall County

Dear Mr. Martin,

**Earl Ray Tomblin** 

Governor

The West Virginia Division of Highways has issued a Permit 06-2011-0205 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Marshall County Route 17/2 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

Regional Maintenance Engineer

Central Office Oil &Gas Coordinator

Cc: Brittany Woody

Southwestern Energy CH, OM, D-6

File

MAR 1 8 2015

Received

Office of Oil & Gas

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
	11/1/2017		Ammonium Persulfate	007727-54-0
	WBK-134	Breaker	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7
		Ole Ole billions	Proprietary Non Hazardous Salt	N/A-229
	WCS-631LC	Clay Stabilizer	Water	007732-18-5
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
WEATHERFORD		Buffer	Potassium Carbonate	000584-08-7
	WPB-584-L		Potassium Hydroxide	001310-58-3
	WXL-101LE	Corsslinker	No Hazardous Components	NONE
1	WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8
			Water	007732-18-5
			Ethylene Glycol	000107-21-1
	WXL-105L	Crosslinker	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		Diammonium Peroxidisulphate	7727-54-0
SCHLUMBERGER	EB-Clean* J475 Breaker	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	Neducei	Ammonium Sulfate	7783-20-2

Received Office of Oil & Gas MAR 1 8 2015

## 05101840

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
SCHLUMBERGER	Water Gelling Agent J580	Vater Gelling Agent J580 Gel		Proprietary
	Scale Inhibitor B317	Scale Inhibitor	Trisodium ortho phosphate Ethane-1, 2-diol	7601-54-9 107-21-1
	Borate Crosslinker J532	O	Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 1303 96-4
	Crosslinker J610	Crosslinker	Aliphatic polyol Potassium hydroxide	Proprietary 1310 58-3

Received Office of Oil & Gas MAR 1 8 2015

## 05101840

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
			Didecyl Dimethyl Ammonium Chloride	007173-51-1
			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
erası)	ENZYME G-NE	Breaker	No Hazardous Components	NONE
-	FRW-18	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8
		Gel	Petroleum Distillate Blend	N/A-014
	GW-3LDF		Polysaccharide Blend	N/A-021
		Scale Inhibitor	Diethylene Glycol	000111-46-6
	SCALETROL 720		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
SERVICES	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

Office of Oil & Gas MAR 1 8 2015

ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICE'S

SOUTHPOINTE, PA 15317 PHONE: 724-746-1055



### VAN ASTON PAD "A" AS-BUILT & RECLAMATION PLAN CAMERON DISTRICT, MARSHALL COUNTY, WV

PLANS PREPARED BY: **FEBRUARY 2015** BOORD BENCHEK & ASSOC., INC.

OWNER

Southwestern Energy'

SWN PRODUCTION CO., LLC. P.O. BOX 1300 JANE LEW, WV 26378 (832)-796-1610

WVDEP OOG ACCEPTED AS-BUILT

PROJECT LOCATION

Whl 7/28/2015

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TOTAL DISTRUBED AREA: 31.3 AC. ROAD DISTURBED AREA: 23.5 AC.

ACCESS ROAD AVG. WIDTH: 19' WELL PAD ELEVATION: 1152'

> WELL API'S 1H 051-01447 3H 051-01633 5H 051-01631 10H 051-01690 201H 051-01636 205H 051-01632 206H 051-01689

19. RECLAMATION PLAN OVERVIEW

WELL PAD DISTURBED AREA: 7.8 AC. ACCESS ROAD LENGTH: 6,483'

> COORDINATES SITE ENTRANCE (NAD 83)

LAT: 39° 51' 43.0" LONG: 80" 38' 35.2" (NAD 27) LAT: 39" 51" 42.7" LONG: 80° 38' 35.9"

CENTER OF WELLS (NAD 83) LAT: 39° 50' 53.3" LONG: 80° 39' 01.0' (NAD 27) LAT: 39° 50' 53.0" LONG: 80° 39' 01.7"





MERCER

TITLE SHEET

VAN ASTON PAD "A" CAMERON DISTRICT, MARSHALL COUNTY, WV SHEET OF 31

1"=2000

