

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

June 15, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-3305863, issued to STATOIL USA ONSHORE PROPERTIES, INC., 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

Operator's Well No: GOODWIN 1 - 1H

Farm Name: HANNA, JOY LEE

API Well Number: 47-3305863

Permit Type: Horizontal 6A Well

Date Issued: 06/15/2015

API Number:	3305863
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PERMIT CONDITIONS

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

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

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

	<u>w</u>	ELL WORK PE	RMII APPLICA	TION	7	596
1) Well Operator: S	tatoil USA Ons	hore Properties Inc.	494505083	Harrison	Sardis	Salem 7.5'
			Operator ID	County	District	Quadrangle
2) Operator's Well N	lumber: Goo	odwin 1-1H	Well Pad	Name: Goods	win 1	
3) Farm Name/Surfac	ce Owner: _	Goodwin Farm/Joy Lee	Hanna Public Roa	d Access: Roc	kcamp Run	5
4) Elevation, current	ground: 1	390.80' Ele	evation, proposed	post-construction	on: 1362'	
5) Well Type (a) G	Gas	Oil	Unde	erground Storag	ge	
Othe	er					
(b)If	Gas Shal	low _	Deep			50W
		zontal				11/17/2014
6) Existing Pad: Yes				£		
 Proposed Target F Marcellus, Formatio 						:
8) Proposed Total Ve	ertical Depth	: 7654' TVD				
9) Formation at Total	l Vertical De	epth: Marcellus S	hale			
10) Proposed Total N	Aeasured De	pth: 13,929' MD				
11) Proposed Horizo	ntal Leg Ler	igth: 5868'				
12) Approximate Fre	sh Water St	rata Depths:	732' TVD ** see not	te on attached pa	ige	
13) Method to Determ	mine Fresh V	Water Depths: 1	980 study "Freshwa	ter & Saline Grou	indwater of V	W" by James Foster
14) Approximate Sal	twater Deptl	ns: _424' TVD ** s	see note on attached	d page		
15) Approximate Coa	al Seam Dep	oths: _558', 641', 6	83', 822', 1079', 110	2'		
16) Approximate Dep	pth to Possib	ole Void (coal min	ne, karst, other):	NA		
17) Does Proposed w directly overlying or			Yes	No	√	
(a) If Yes, provide	Mine Info:	Name:				
		Depth:			DEC	
		Seam:		0	neul Piesoi (1	Nand Gas
		Owner:				and Ods
					DECI	0.2014

WV Department of Environmental Properties

18)

CASING AND TUBING PROGRAM

TYPE	Size		Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu.
		<u>Used</u>					<u>Ft.)</u>
Conductor	20"	New	H-40	94#	80'	80'	Cmt to surface-120 cu ft
Fresh Water	13.375"	New	J-55	54.4#	850'	850'	Cmt to surface-616 cuft
Coal							
Intermediate	9.625"	New	J-55	36#	2900'	2900'	Cmt to surface-950 cuft
Production	5.5"	New	P-110	20#	13929'	13929'	Cmt to 2000'-3174 cuft
Tubing							
Liners							

SDW

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	26"	.438"	1530 psi	Class A	1.3 cu ft/sk
Fresh Water	13.375"	17.5"	.380"	2730 psi	Class A	1.29 cu ft/sk
Coal						
Intermediate	9.625"	12.25"	.352"	*3520 psi	Class A	1.29 cu ft/sk
Production	5.5	8.5"	.361"	12640 psi	Class A	2.42 cu ft/sk
Tubing						
Liners						

PACKERS

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W/// Department of Environmental Processor

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:
See Attached
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:
Well will fractured through the plug-n-perf method with +/- 25 fracturing stages per well. Each fracturing treatment will have 400,000 lbs of sand mixed in 7500 Bbls. of fresh water. The fracturing rate will be between 80 and 100 bpm at a pressure lower than a maximum pressure of 10,000 psi.
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 19.4 acres
22) Area to be disturbed for well pad only, less access road (acres): 7.91 acres
22) Area to be disturbed for well pad only, less access road (acres).
23) Describe centralizer placement for each casing string:
See attached
24) Describe all cement additives associated with each cement type:
See attached
25) Proposed borehole conditioning procedures:
Surface – Drilled with fresh water to section total depth. Prior to tripping, hole will circulated clean of cuttings and back-reamed if necessary. Intermediate – Drilled with 9.0 ppg 5% KCL Polymer Water Based Mud (WBM) to section total depth. At section total depth, pump 40bbl viscous pill and circulate hole clean. Production - Drilled with 12.5-13.0 ppg Synthetic Based Mud (SBM) to section total depth. At section total depth pump 2-3 20bbl heavy weighted pill sweeps to transport excess cutting from the hole until clean. Pump rates will be maintained in excess of 600 GPM, and rotation in excess of 100 RPM to assist cuttings transport. A 60 bbl tuned weighted spacer will be pumped ahead of the cement to assist in mud cake removal and water wett both casing and formation.
To the control of the

*Note: Attach additional sheets as needed.

Environmental Procession

Open Mine Contingency Plan

The Goodwin 1-1H, 1-2H, 3H and 1-6H wells will be drilled at a ground elevation of 1362'. We do not anticipate a mine void in this area, but have planned to address the possibility of intersecting such a void through the following contingency plan.

Conductor: The conductor will remain the same diameter as our primary casing design, 20" (H-40, 94#), and cemented to surface. The surface hole section will be drilled utilizing a 17.5in bit size to the approved permitted depth.

Mine String: In the event an open mine is encountered, we will run 16" low clearance (H-40, 65#) as a mine string. The mine string will be set 30-50ft below the base of the open mine encountered. Every effort will be taken to cement the mine string to surface. In the event cement is not circulated to surface, a top job through a grout string will be performed down the backside.

Upon cementing the mine string in place, a 14.75in bit will be used to proceed and drill to the approved surface casing setting depth.

Surface Casing: A 13.375" low clearance (J/K55, 54.5#), fresh water string will be installed through all potential zones, and subsequently cemented to surface as per program.

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WV Department of Environmental Protection **12 & 14) <u>NOTE FOR FRESH WATER-SALT WATER DEPTHS</u> - The Goodwin 1 pad is located in an area of saltwater/freshwater mixing as mapped by the West Virginia Geological and Economic Survey in 1980 on their map called "Thickness of Zone Between Fresh and Saline Water". The freshwater and saltwater are in direct contact in this northwestern portion of Harrison County.

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

20" conductor will be pre-set prior to start of operations and cemented in place to surface at approximately 100ft. A 17 %" surface hole will be drilled with fresh water to approximately 850'md/tvd. 13 3/8" surface casing will be installed and cemented to surface in order to isolate fresh water zones and provide a competent shoe for well control while drilling deeper horizons. A 12 %" intermediate hole section will be drilled with 5% KCL Polymer (WBM) and a conventional mud motor to approximately 2900'md/tvd through the base of the Big Injun formation. 9 5/8" Intermediate casing will be installed and cemented to surface in order to isolate the Red Beds and Big Injun formation from lower hydrocarbon bearing zones while providing a competent shoe for well control. An 8 ½" vertical hole section will be to planned kick-off point using Synthetic Based Mud (SBM) and a conventional mud motor. The wellbore will be deviated from vertical and landed horizontally in the Marcellus Target horizon, and extended laterally to total depth of 13,929' MD/7654' VD using SBM and conventional mud motors. A 5 ½" production casing will be installed and cemented so estimated top of cement is at least 300ft inside the previous casing shoe. The Drilling Rig will then be released to the next well.

23) Describe centralizer placement for each casing string

Surface - 1 centralizer w/ stop collar 10 ft above float shoe. One Single Bow every joint to 100ft below surface.

Intermediate – 1 centralizer w/ stop collar 10 ft above float shoe. 1 centralizer w/ stop collar 10 ft above float collar. 1 centralizer every joint for the first 15 joints. One centralizer every 3 jnts to 100ft below surface.

Production - 1 centralizer w/ stop collar 10ft above shoe. 1 centralizer 10ft above float collar. 1 centralizer every joint (floating) until KOP. 1 centralizer every 3 joints (floating) until 200ft inside intermediate shoe. 1 centralizer 50ft below mandrel hanger.

24) Describe all cement additives associated with each cement type;

Surface - Class A + 3% CaCl2

Intermediate - Class A cmt, 0.05% Retarder, 0.25% Defoamer, 1% Acceleration, 0.25% Dispersant, 0.65% Retarder, 9.10 gal/sk Fresh Water.

Production - Class A cmt, 10% bwow Dispersent, 0.6% bwoc Fluid Loss, 0.4% bwoc Retarder,

0.1% bwoc Free water control agent, 0.25% bwoc Defoamer, 0.1% bwoc Fluid Loss, 6.32

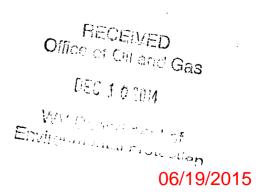
gal/sk Fresh Water.

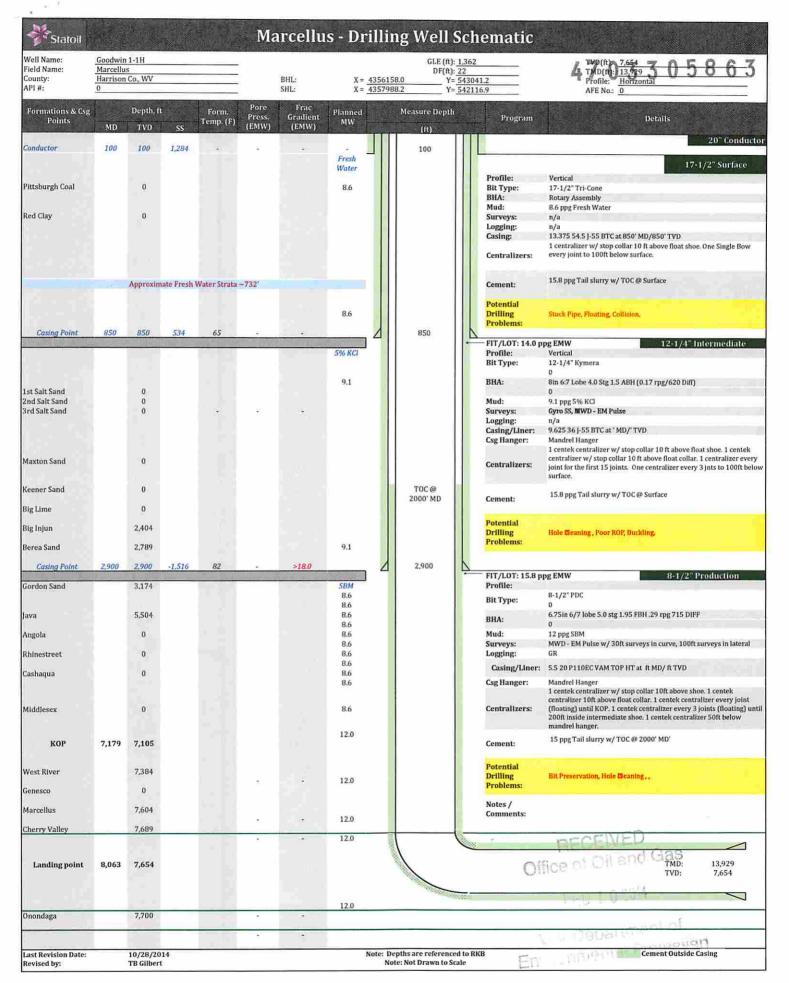
CEMENT ADDITIVES

Surface - Class A + 3% CaCl2

Intermediate - Class A cmt, 0.05% Retarder, 0.25% Defoamer, 1% Accelerator, 0.25% Dispersant, 0.65% Retarder, 9.10 gal/sk Fresh Water.

Production - Class A cmt, 10% bwow Dispersent, 0.6% bwoc Fluid Loss, 0.4% bwoc Retarder, 0.1% bwoc Free water control agent, 0.25% bwoc Defoamer, 0.1% bwoc Fluid Loss, 6.32 gal/sk Fresh Water.





API Number 47 -	142								
Operator's Well N	O. Goodwing 1-114	0	-	7	0	100	0	0	7
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STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Statoil USA Onshore Properties Inc. OP Code 494505083
Watershed (HUC 10) McIntire Fork of Rockcamp Run Quadrangle Salem 7.5'
Elevation 1362' County Harrison District Sardis
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No No
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes: Land Application N117/ 2014
Land Application Underground Injection (UIC Permit Number) Reuse (at API Number) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain)
Will closed loop system be used? If so, describe: Yes
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. All Fresh Water-vert, sec/foil based mud for horiz sec
-If oil based, what type? Synthetic, petroleum, etc.Synthetic
Additives to be used in drilling medium? emulisifier, food grade oil, barite, surfactant, calcium carbonate, gilsonite, lubricant, graphite, lime
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)_NA
-Landfill or offsite name/permit number?Wetzel County Landfill
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature Winfee
Company Official (Typed Name) Bekki Winfree
Company Official Title Sr. Regulatory Advisor
HEUEIVED
Subscribed and sworn before me this 23 day of October , 20 19 ffice of Oil and Gas
Wally Andrew Publicano Notary Publicano
My commission expires April 16, 2017 WALLY ANTHONY STUKA My Commission Expires 16, 2017

Form WW-9

Operator's Well No. Goodwin 1-1H

Statoil USA Onsho	ore Properties Inc.	
Proposed Revegetation Tre	eatment: Acres Disturbed 19.4	Prevegetation pH
Lime 3	Tons/acre or to correct to pH	6.5
Fertilizer type	0-20-10	
Fertilizer amount_	100 lbs/	acre
Mulch_2	Tons/ac	re
	Seed	Mixtures
า	Гетрогагу	Permanent
Seed Type	lbs/acre	Seed Type Ibs/acre
OATS	168	KY-31 TALL FESCUE 50
RYE	120	
Plan Approved by:	olved 7.5' topographic sheet.	
		ed areas as soon as reasonably
possible pern	egulation. Opgraci	le Ets as needed per WV DEP
EtSmanus	n/ c	
ride Oilt Gas	Inspector	Date: 11/17/2014 Office of Oil and
	(X) Yes () No DEC 1 0 2014



Goodwin 1 Site Safety Plan

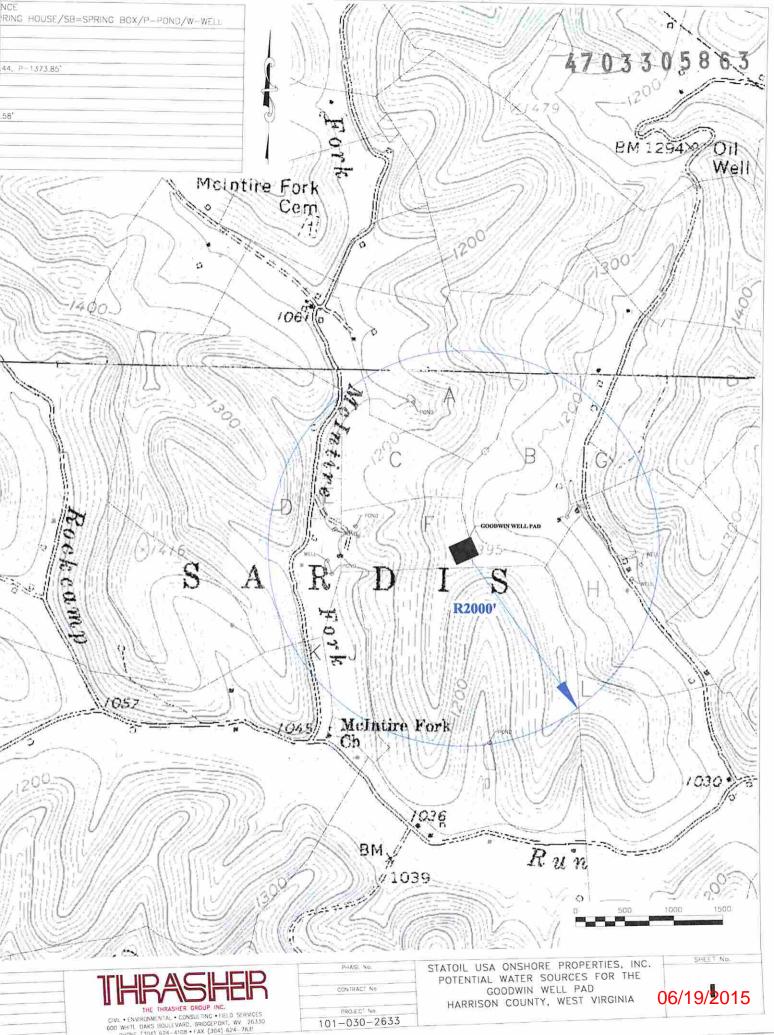
Statoil USA Onshore Properties, Inc.

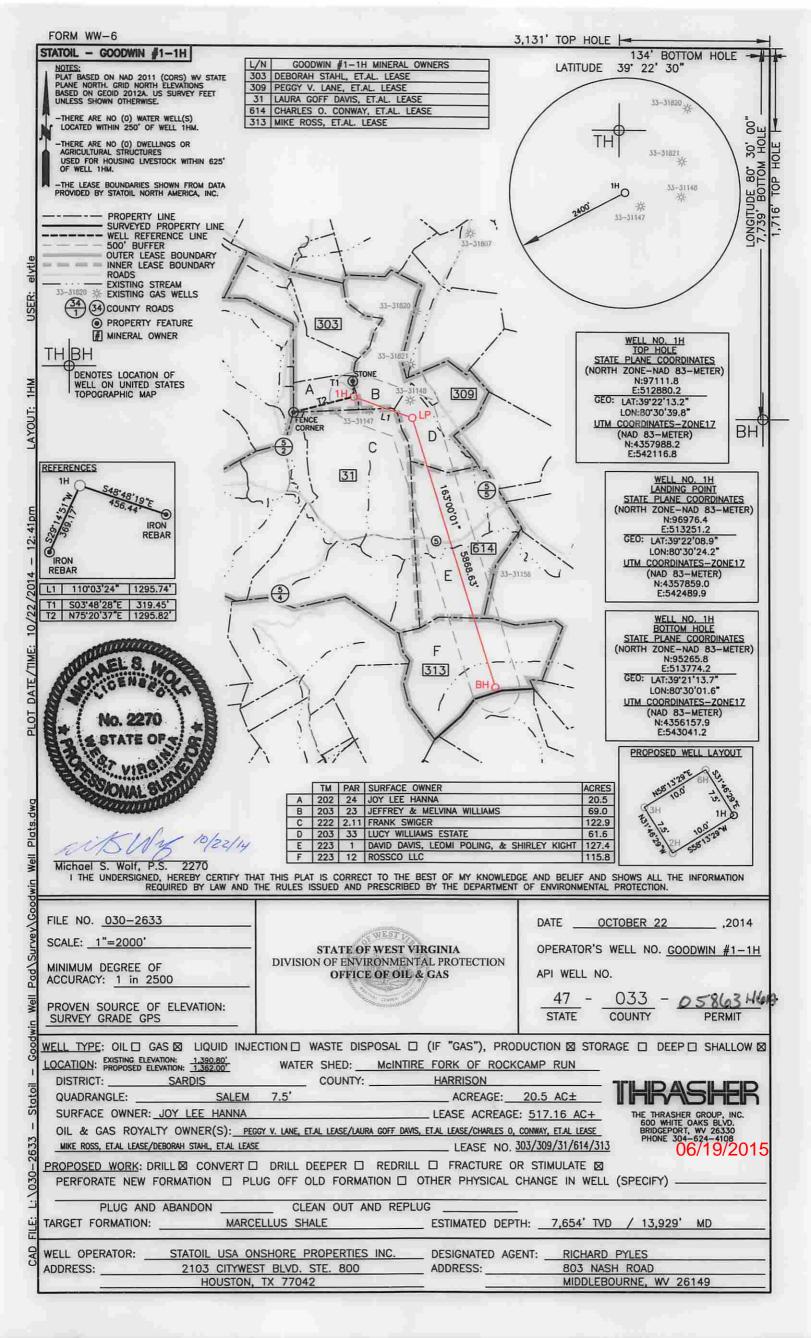
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WW-6A1 (5/13)

Operator's Well No. Goodwin #1-1H

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
	· · · · · · · · · · · · · · · · · · ·			

(Please See Attachment)

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, REGEIVED 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

Office of Oil and Gas

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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 forther permits/approvals. permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	Statoil USA Onshore Properties Inc.							
By:	Bekki Winfree abb Winj							
Its:	Sr. Regulatory Advisor							

Page 1 of 3

N/A	000116022-004 N/A N/A	000116022-003	Lease Name or Number	TRACT #309	N/A		000115945-001			000115945-072	Lease Name or Number	TRACT #303	NOTE: All Miner		Form WW-6A-1 -
PetroEdge Energy, LLC	Peggy V. Lane Bluestone Energy Partners Antero Resources Appalachian	John Papalia, CEO signing for Warren General Hospital	Grantor, Lessor		separate property PetroEdge Energy, LLC	man dealing in his sole and	John David Ritter, a married	and separate property	Woman dealing in her sole	Deborah Stahl, a married	Grantor, Lessor		al / Unit Tracts are identifi		Form WW-6A-1 - Preliminary Information: (Attachment)
Statoil USA Onshore Properties, Inc.	Bluestone Energy Partners Antero Resources Appalachian Corp. PetroEdge Energy, LLC	PetroEdge Energy, LLC	Grantee, Lessee		Statoil USA Onshore Properties Inc.		PetroEdge Energy, LLC		6	PetroEdge Energy, LLC	Grantee, Lessee		NOTE: All Mineral / Unit Tracts are identified on the Well Plat in Order fro	Goodwin #1-1H	
Assignment	At Least 1/8 Merger Assignment	At Least 1/8	Royalty		Assignment		At Least 1/8			At Least 1/8	Royalty	REGEN e of Oil DEC 1	m Top Hole to Bot	Gas nt of otecti	
1503/526	1447/1097 0035/1236 1476/0705	1491/261	Book / Page		1503/526		1484/603		E	1509/538	Book / Page	/ Depa	tom Hole.	nt of otecti	on

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000157937-002 N/A	TRACT #313	000144944-001 000144944-002 N/A	Lease Name or Number	TRACT #614	N/A	N/A	000103322-003	000103322-002	TRACT #31 Lease Name or Number
Mike Ross, Inc. PetroEdge Energy, LLC	Grantor, Lessor	Margaret Conaway Torok Charles O. Conaway PetroEdge Energy, LLC	Grantor, Lessor		Energy Production Inc. PetroEdge Energy, LLC	Devonian Gas Production Inc.	By her AIF, Ronald W. Goodwin Laura Goff Davis, single	Wilma R. Goodwin	Grantor, Lessor
PetroEdge Energy, LLC Statoil USA Onshore Properties, Inc.	Grantee, Lessee	PetroEdge Energy, LLC PetroEdge Energy, LLC Statoil USA Onshore Properties, Inc.	Grantee, Lessee		PetroEdge Energy, LLC Statoil USA Onshore Properties Inc.	Energy Production Inc.	n Devonian Gas Production, Inc.	Devonian Gas Production, Inc.	Grantee, Lessee
At Least 1/8 Assignment	Royalty	At Least 1/8 At Least 1/8 Assignment	Royalty	Offic	Assignment Assignment DEC	Assignment 0	1 and 0 201/	+	Royalty 35
1516/1101 1525/1303	Book / Page	1512/11 1512/13 1503/526	Book / Page	W Envir	35/94 1503/526	1397/1053	1377/627	1377/632	of Book / Page

GOODWIN 1-1 ROAD CROSSING LETTERS

TR 303

TR 309

TR 614

TR 313

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OIL, GAS & MINERAL LAW

G017 W MAIN STREET FRISCO, TEXAS 75034 TEL: 214 417 2980 FAX: 972 418 1931 www.blenergylaw.com

February 25, 2013

PetroEdge Energy LLC 4477 Williamstown Pike Williamstown, WV 26187 # 303

Attention:

Mr. Joshua S. Ozment

Re:

Robert Sterling Rogers, et al 87.276 Acre Tract out of Sardis District in Harrison County, West Virginia (Tax Parcel Nos. 14-202-16, 14-202-24 and part of 14-

202-15)

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tax Parcel Nos. 14-202-16, 14-202-24 and part of 14-202-15, containing 87.276 acres, more or less, out of Sardis District in Harrison County, West Virginia, described in three (3) tracts as follows:

TRACT ONE: Tax Parcel No. 14-202-16, containing 43.28 acres, more or less, out of Sardis District in Harrison County, West Virginia, and being all of 87.28 acres, more or less, described in a Deed, dated October 1, 1990, from Delbert R. Ash and wife, Ellen Lurae Ash, to David W. Edgell and wife, Regina L. Edgell, recorded in Book 1212, Page 744, Office of the Clerk of the County Commission, Harrison County, West Virginia SAVE AND EXCEPT (1) 20.476 acres, more or less, out of Sardis District in Harrison County, West Virginia, and being the same land described as the Third Tract in a Deed, dated October 2, 1997, from Steven Mark Amos to Joy Lee Hanna, recorded in Book 1298, Page 115, Office of the Clerk of the County Commission, Harrison County, West Virginia and (2) 23.52 acres, more or less, out of Sardis District in Harrison County, West Virginia, and being the same land described as Tract Nos 3 and Tract No. 4 in a Deed, dated July 12, 1989, from Bernard Layfield to Richard Eugene Davisson and wife, Carolyn Sue Davisson, recorded in Book 1196, Page 939, Office of the Clerk of the County Commission, Harrison County, West Virginia, leaving 43.28 acres, more or less, more or less, out of Sardis District in Wife, Carolyn Sue Davisson, recorded in Book 1196, Page 939, Office of the Clerk of the County Commission, Harrison County, West Virginia, leaving 43.28 acres, more or less, more or less, out of Sardis District in No. 4 in a Deed, dated July 12, 1989, from Bernard Layfield to Richard Eugene Davisson and Wife, Carolyn Sue Davisson, recorded in Book 1196, Page 939, Office of the Clerk of the County Commission, Harrison County, West Virginia, leaving 43.28 acres, more or less, out of Sardis District in No. 4 in a Deed, dated July 12, 1989, from Bernard Layfield to Richard Eugene Davisson and Wife, Carolyn Sue Davisson, recorded in Book 1196, Page 939, Office of the Clerk of the County County Commission, Harrison County, West Virginia, leaving 43.28 acres, more or less, out of Sardis Sardis Sardis Sardis Sardis Sa

- 25. Copy of an unrecorded Oil and Gas Lease, dated March 30, 2012, from Charlene I. Ritter to PetroEdge Energy LLC, a Memorandum of which is recorded in Book 1487, Page 242, Office of the Clerk of the County Commission, Harrison County, West Virginia;
- 26. Copy of an unrecorded Oil and Gas Lease, dated April 9, 2012, from Brenda Louise Hannah to PetroEdge Energy LLC, a Memorandum of which is recorded in Book 1489, Page 106, Office of the Clerk of the County Commission, Harrison County, West Virginia;
- 27. Copy of an unrecorded Oil and Gas Lease, dated April 13, 2012, from William K. Gifford and DonnaJean P. Gifford, trustees of Gifford Living Trust, dated March 10, 2009, to PetroEdge Energy LLC, a Memorandum of which is recorded in Book 1489, Page 969, Office of the Clerk of the County Commission, Harrison County, West Virginia;
- 28. Copy of an unrecorded Oil and Gas Lease, dated May 8, 2012, from Betty Ann Miller to PetroEdge Energy LLC, a Memorandum of which is recorded in Book 1493, Page 248, Office of the Clerk of the County Commission, Harrison County, West Virginia; and
- 29. Copies of various plats provided by S. A. Property Research, L.L.C.'s field landman covering the Subject Lands.

THE HEREINBELOW STATED OWNERSHIP INTERESTS AS SET FORTH IN THE OWNERSHIP SECTION HEREOF ARE EXPRESSLY SUBJECT TO THE COMMENTS, REQUIREMENTS AND LIMITATIONS SET FORTH HEREINBELOW. THIS OPINION IS RENDERED AS A COMPLETE DOCUMENT AND NO SEPARATE PART HEREOF SHOULD BE RELIED UPON TO THE EXCLUSION OF ANY OTHER PORTION HEREOF. THEREFORE, THIS OPINION SHOULD BE CONSIDERED IN ITS ENTIRETY.

OWNERSHIP

Based upon our examination of the materials referenced above, and subject to the comments, requirements, and limitations hereinafter set forth, we find title to the Subject Lands vests, as of January 10, 2013, as follows:

STATE OF WEST VIRGINIA OWNERSHIP UNDER PUBLIC ROADS ON GOO

Based on the Materials Examined, the State of West Virginia is not vested with any interest in the oil and gas executive rights and mineral fee and the oil and gas royalty in and under any public roads located within the boundary of the Subject Lands.



400 White Oaks Boulevard
Bridgeport, WV 26330
(304) 933-8000 (304) 933-8183 Fax
www.steptoe-johnson.com

Writer's Contact Information

(304) 933-8121 pat.deem@steptoe-johnson.com

December 2, 2014

West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

#309 Flowson

Property:

Peggie V. Lane, et. al.,

BEP #21656

Tax Map No. 203 designated as Parcel Nos. 24 and 33, containing 69.02

and 61.59 acres respectively

140 acres, more or less, Wolf Pen Run,

Sardis District, Harrison County, West Virginia

Effective Date of Title Examination: June 30, 2010

Ladies and Gentlemen:

We have examined title to the above captioned property as of the above stated Effective Date. Based upon our review of all relevant land title records, we are of the opinion that no basis exists of record for the West Virginia Department of Highways to own or to claim any ownership of the oil and/or gas within and underlying any roads which traverse or abound the above captioned property.

Sincerely yours,

Ratrick D. Deem, Member

/TK 925000.00002 RECEIVED
Office of Oil and Gas
DEC 1 0 2014

Wild Department of Profession

CL6755345

RADCLIFF PLLC

Patrick N. Radcliff Attorney at Law 1211 10th St. Vienna, WV 26105

Patrickradcliff@hotmail.com 304-295-6027

Date: July 17, 2013

PetroEdge Energy LLC c/o Josh Ozment 4477 Williamstown Pike Williamstown, WV 26187

RE: Arnold L. Schulberg, et al, leases

129.05 acres, Sardis District / 14-222-1, 11, 412

Harrison County, WV

TITLE OPINION

Dear Mr. PetroEdge:

I do hereby certify that I have made a personal examination of copies of records contained in the Office of the Clerk of the County Commission of Harrison County, West Virginia, and the Sheriff's Office of Harrison County, West Virginia, which records were delivered to me by your agents, and I have personally examined the indexes to such records maintained by said Clerk's Office and based upon such examination, assuming the accuracy of said copies and subject to the accuracy of the indexes to such records and further subject to the matters set forth herein and to any state of facts not appearing of record, I hereby certify that I have examined the title upon the above-referenced property and report the following state of title:

1. LEASEHOLD ESTATE

A. DESCRIPTION OF SUBJECT LEASES

1. Memorandum of Lease dated March 27, 2013, being of record May 7, 2013, in the Office of the Clerk of the County Commission in Deed Book 1511 at page 624 by and between Arnold L. Schulberg, Lessor, and Petroedge Energy, LLC, Lessee, giving notice of a lease dated March 27, 2013, upon a tract of 129.58 acres with a reference to Tax Map page 14 parcel 223-1 & 223-1.1, and reference to Deed Book 1293 Page 551, Francis Davis to David Lee Davis, situate in Sardis District, Harrison County, bounded as follows:

On the North by lands of West Edward Williams, Roger Quicklie, et al, Oil and Gas On the East by lands of Frank B. Swiger, Michael Swiger;

On the South by lands of Rossco LLC;

On the West by lands of Ronald Davisson, et al

DEC 1 0 2014

E. LIENS AND ENCUMBRANCES

2013 Real Property Taxes on the owners of the oil and gas as hereinafter described.

F. RIGHTS OF WAY AND EASEMENTS

- 1. Right of way dated June 27, 1911 of record in Deed Book 200 at page 435, made by Maggie McIntire to The Philadelphia Company for a 8 inch gas pipeline 1091 feet in distance entering from the north on a line of S. 50 E. to the line of Nathan B. Goff.
- 2. Right of way dated January 20, 1914, of record in Deed Book 228 at page 201, made by Maggie McIntire to The Eureka Pipeline Company for a oil pipeline.
- 3. Right of way dated January 20, 1914, of record in Deed Book 228 at page 228, made by Maggie McIntire to The Eureka Pipeline Company for a 4 inch oil pipeline.
- 4. Right of way dated January 28, 1914, of record in Deed Book 228 at page 229, made by Maggie McIntire to The Eureka Pipeline Company for a 3 inch oil pipeline.
- 5. Right of way dated March 18, 1914, of record in Deed Book 232 at page 56, made by Maggie McIntire to The Eureka Pipeline Company for a oil pipeline.

G. OWNERSHIP OF OIL AND GAS UNDERLYING STATE ROADS

No conveyances of the oil and/or gas to the State of West Virginia were found during the period of certification. Therefore, the State owns no interest in the oil and/or gas underlying any road that exists upon the subject tract.

H. OWNERSHIP OF SUBJECT LEASEHOLD ESTATE

Petroedge Energy, LLC owns 100% of the oil and gas leasehold estate created by the subject leases subject to the limitations and requirements set forth herein.

2. OIL AND GAS INTERESTS

A. DESCRIPTION OF REAL ESTATE

Please refer to the above real estate descriptions in Part 1. B.

RECEIVED
Office of Oil and Gas

DEC 10 2014

WV Department of
Environmental Projection





4703305863

OIL. GAS & MINERAL LAW

6017 W. MAIN STREET FRISCO, TEXAS 75034 TEL: 214.417.2880 FAX: 972.418.1931 www.btenergylaw.com

September 3, 2013

Statoil North America, Inc. 2103 CityWest Boulevard, Suite 800 Houston TX, 77042 #613 #613

Attention:

Mr. Joshua S. Ozment

Re:

Laura Goff Davis, et al 122.625 Acre Tract out of Sardis District in Harrison

County, West Virginia (Tax Parcel Nos. 14-202-13 & 14-203-1)

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tax Parcel Nos. 14-203-1 and 14-202-13, containing 122.625 acres, more or less, out of Sardis District in Harrison County, West Virginia, described in two (2) separate tracts as follows:

TRACT ONE: Tax Parcel No. 14-203-1, containing 80.625 acres, more or less, out of Sardis District in Harrison County, West Virginia, being the same land described as Parcel No. 2 in a Deed, dated July 15, 1991, from Joy Lee Hanna, Richa rd W. Williams and wife, Harriet A. Williams, Harold David Jones and wife, Janice Jones, Roy Smith and wife, Georgia L. Smith, Madelyne Williams, Howard Berg and wife, Virginia Williams Berg, and Maynard Lee Williams, Jr., and wife, Theresa Williams, to Sherry L. Starkey, Rebecca R. Knight and B. Rehe Knight, recorded in Book 1225, Page 327, Office of the Clerk of the County Commission, Cash Harrison County, West Virginia.

TRACT TWO: Tax Parcel No. 14-202-13, containing 42 acres, more or less, out of Sardis District in Harrison County, West Virginia, being the same land described as Parcel No. 3 in a Deed, dated July 15, 1991, from Joy Lee Hanna, Richard W. Williams and wife, Harriet Across Williams, Harold David Jones and wife, Janice Jones, Roy Smith and wife, Georgia L. Smith, Madelyne Williams, Howard Berg and wife, Virginia Williams Berg, and Maynard Lee Williams, Jr., and wife, Theresa Williams, to Sherry L. Starkey, Rebecca R. Knight and B. Rene Knight, recorded in Book 1225, Page 327, Office of the Clerk of the County Commission, Harrison County, West Virginia.

OWNERSHIP

Based upon our examination of the materials referenced above, and subject to the comments, requirements, and limitations hereinafter set forth, we find title to the Subject Lands vests, as of May 23, 2013, as follows:

STATE OF WEST VIRGINIA OWNERSHIP UNDER PUBLIC ROADS

Based on the Materials Examined, the State of West Virginia is not vested with any interest in the oil and gas executive rights and mineral fee and the oil and gas royalty in and under any public roads located within the boundary of the Subject Lands.

SURFACE OWNERSHIP

As to Tract One of the Subject Lands:

1. Rebecca R. Knight (11/27) 0.40740741

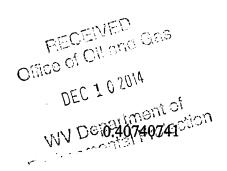
2. B. Rene Knight (8/27) 0.29629630

3. Sherry L. Starkey (8/27) 0.29629629

Total Surface Ownership as Tract One: 1.00000000

As to Tract Two of the Subject Lands SAVE AND EXCEPT 1.03125 acres, more or less, described in a Deed, dated January 17, 1906, from Nathan Goff and wife, Laura E. Goff, to Washington C. Kemper, George W. McIntire, John S. Gifford, Thomas C. Sturms and J. W. Edgell, Trustees, recorded in Book 160, Page 455, Office of the Clerk of the County Commission, Harrison County, West Virginia:

1. Rebecca R. Knight (11/27)



Date of Notice Contification, 12/02/2014

STATE OF WEST VIRGINIA 4703305863 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

ADIN - 47

Date of Noti	de Certification.	Al	-1 NO. 4/-	
	· · · · · · · · · · · · · · · · · · ·	Oi	perator's Well No.	oodwin 1-1H
			ell Pad Name: Good	
Notice has l	been given:			
	ne provisions in West Virginia Code §	22-6A, the Operator has provide	ed the required partie	s with the Notice Forms listed
below for the	tract of land as follows:	, , ,		
State:	West Virginia	UTM NAD 83	sting: 512880.2 m	
County:	Harrison	OTMINAD 83	orthing: 97111.8 m	
District:	Sardis	Public Road Access		ın 5
Quadrangle:	Salem 7.5'	Generally used farm	name: Goodwin Farr	n
Watershed:	McIntire Fork of Rockcamp Run		-	
nformation r of giving the equirements Virginia Cod	ed the owners of the surface described equired by subsections (b) and (c), see surface owner notice of entry to surface owner notice of entry to surface of subsection (b), section sixteen or estable 22-6A-11(b), the applicant shall the base been completed by the applicant	ction sixteen of this article; (ii) the rvey pursuant to subsection (a), f this article were waived in wrender proof of and certify to the	at the requirement was section ten of this a siting by the surface	ras deemed satisfied as a resultricle six-a; or (iii) the notic owner; and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require ECK ALL THAT APPLY		Notice Certification	OOG OFFICE USE
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO		RECEIVED/
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or NO PLAT SURVEY	WAS CONDUCTED	RECEIVED
☐ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLANAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY (PLEASE ATTACH)	SURFACE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			☑ RECEIVED
■ 5. PUI	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:

4703305863

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

Well Operator: Statoil USA Onshore Properties Inc. Address: 2103 City West Boulevard, Suite 800

By: Bekki Winfreel Sch Winfreel Bekki Winfreel Bekk

Telephone: 713-485-2640 Email: BEKW@Statoil.com

NOTARY SEAL

WALLY ANTHONY STUKA
My Commission Expires
April 16, 2017

Subscribed and sworn before me this 2 day of December

Wally Huly The 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 deprivacyofficer@wv.gov.

Office of Oil and Gas

DEC 1 0 2014

WV Department of
Environmental Protection

WW-6A (9-13)

API NO. 47OPERATOR WELL NO. 1-1H
Well Pad Name: Goodwin

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS 6 3 NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 10/282014 Date Permit Application Filed: 11/05/2014 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) REGISTERED PERSONAL ✓ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: COAL OWNER OR LESSEE ☑ SURFACE OWNER(s) Name: John Frederick Dye, Jr. Name: Joy Lee Hanna Address: 61 Vista Montana Road Address: 6691 Rock Camp Road Wallace, WV 26448-9722 Estancia, NM 87016 ☐ COAL OPERATOR Name: Frank "Bart" Swiger Address: 6455 Rock Camp Road Name: Wallace, WV 26448-8680 Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) SURFACE OWNER OF WATER WELL Name: Address: AND/OR WATER PURVEYOR(s) Name: David and Regina Edgell Address: 796 McIntyre Fork Road R Name: Wallace, WV 26448 Address: ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Address: Name: Address: *Please attach additional forms if necessary

WW-6A (8-13)

API NO. 47OPERATOR WELL NO. 1-1H
Well Pad Name: Goodwin
4703305863

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

API NO. 47
OPERATOR WELL NO. 1-1H
Well Pad Name: Goodwin

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. 4703305863

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: Office of Oil and Gas location or construction of the applicant's proposed well work to the Secretary at:

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

test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

DEC 1 0 2.014

MN Department of Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to WW-6A (8-13) API NO.777 3 3 0 5 8 6 3
OPERATOR WELL NO. 1-1H
Well Pad Name: Goodwin

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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Office of Oil and Gas
DEC 1 0 2014

WV Department of
Engineental Protection

WW-6A (8-13)

API NO. 47-	7 0 3 3 LL NO. 1-14	0	5	8	6	3
Well Pad Name:	Goodwin					

Notice is hereby give	en by:
-----------------------	--------

Well Operator: Statoil USA Onshore
Telephone: 713-918-8200
Email: BEKW@Statoil.com Bekwastatoil.com

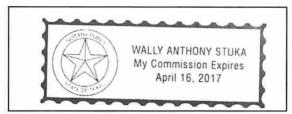
Address: 2103 CityWest Blvd., Building 4, Suite 800

Houston, Texas 77042

Facsimile: 913-918-8290

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 10 day of Movember, 2014.

Notary Public

My Commission Expires April 16, 2017

Office of Oil and Gas

DEC 1 0 2014

WV Department of Protection

ADDITIONAL SURFACE OWNER - Goodwin 7 0 3 3 0 5 8 6 3

Jeffrey L. and Melvina J. Williams 445 Buddy's Hollow Road Wallace, WV 26448-9725

ADDITIONAL COAL OWNERS - Goodwin 1

Guy Corporation c/o Tetrick Mineral Property 92, 16th Street Wheeling, WV 26003

American Mountaineer Energy, Inc. 46226 National Road St. Clairsville, OH 43950

Consol Energy, Inc. 1000 Consol Energy Drive Canonsburg, PA 15317-6506

ADDITIONAL WATER WELL OWNERS - Goodwin 1

Jeffrey L. and Melvina J. Williams 445 Buddy's Hollow Road Wallace, WV 26448-9725

Richard & Carolyn 17 Bear Run Road Wallace, WV 26448

Tina Moore Swiger 412 McIntyre Fork Road Wallace, WV 26448

Joy Lee Hanna 6691 Rock Camp Rd Wallace, WV 26448

Enoch & Gay McCoy 11465 Brosius Rd Garrettsville, OH 44231

Lucy Williams Estate 445 Buddy's Hollow Road Wallace, WV 26448 Office of Oil and Gas

DEC 10 2014

VVV Department of

4703305863

Frank Swiger 6455 Rock Camp Rd Wallace, WV 26448

Thomas & Vanessa Collins 6925 Rock Camp Rd Wallace, WV 26448

David Lee Davis, Leomi Jean Poling & Shirley Kight 6174 Rock Camp Rd Wallace, WV 26448

Office of Oil and Gas

DEC 1 0 2014

STATE OF WEST VIRGINIA 4703305863 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entry	Requirement:	Notice shall be provi	ded at least SE	VEN (7) day	s but no more tha	n FORTY-FIVE (45) days prior to
Date of Notic	e: 07/03/2014	Date of Plan	ned Entry: 07/1	8/2014		
Delivery met	hod pursuant	to West Virginia Co	de § 22-6A-10a	ı		
PERSON SERVICE		REGISTERED MAIL			IVERY THAT RE	- P
on to the surf but no more t beneath such owner of min and Sediment Secretary, wh enable the sur	ace tract to cond han forty-five d tract that has file erals underlying Control Manualich statement si	duct any plat surveys lays prior to such enti- led a declaration purs g such tract in the cou- al and the statutes and hall include contact in obtain copies from the	required pursuary to: (1) The sumant to section to inty tax records I rules related to information, incl	ant to this are reface owner thirty-six, are The notice of oil and gas	ticle. Such notice of such tract; (2) ticle six, chapter to shall include a state exploration and p	r shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any atement that copies of the state Erosion production may be obtained from the tage on the Secretary's web site, to
_	i ti set	0.		COAL	. OWNER OR LE	CCCE
	CE OWNER(s)			_ ~ ~ ~ ~ ~ ~ ~		SSEE
Name: Frank "E					n Frederick Dye, Jr.	
Wallace, WV 2644	Rock Camp Road	/	-:	Estancia, NM 8	31 Vista Montana Road	
Name: Joy Lee			6		77010	
	Rock Camp Road			■ MINE	RAL OWNER(s)	
Wallace, WV 2644		/			ert Sterling Rogers	
	and Melvina J. Willia	ams \			339 Adams Drive	
	Buddy's Hollow Road			Milford, Delawa		
Wallace, WV 2644			•		additional forms if ne	ecessary
	est Virginia Co	ode § 22-6A-10(a), no and as follows:	A ₁	pprox. Latitu	ude & Longitude:	l operator is planning entry to conduct
County:	Harrison			ıblic Road A	Access:	CR 5
District:	Sardis			atershed:		McIntire Fork of Rockcamp Run
Quadrangle:	Salem 7.5'		G	enerally use	d farm name:	Goodwin Farm
may be obtain Charleston, V	ned from the Se VV 25304 (304	cretary, at the WV D	epartment of Er of such docume	nvironmenta ents or additi	I Protection headq onal information i	oil and gas exploration and production quarters, located at 601 57 th Street, SE, related to horizontal drilling may be
	reby given by			Address:	2103 CITYWEST BI VI	D. SUITE 800 HOUSTON, TX 77042
Telephone:	713-918-8200					m reserved estructe B TV M TTTTT
Email:	-			Facsimile:	713-918-8290	
Eman.	BEKW@Statoil.	com		1 acomme,	. 10-010-0200	
Oil and Gas	s Privacy Not f Oil and Gas p	rice: rocesses your persona	al information, s	such as name	e, address and tele	phone 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.

WV Department of Environmental Pro 06/19/2015

WW-6A3 - GOODWIN 1-1H

Additional Coal Owners (3):

Guy Corporation c/o Tetrick Mineral Property 92, 16th Street Wheeling, WV 26003

American Mountaineer Energy, Inc. 46226 National Road
St. Clairsville, OH 43950

Consol Energy, Inc. 1000 Consol Energy Drive Canonsburg, PA 15317-6506

Additional Mineral Owners (5):

John David Ritter P.O. BOX 55 Phillipsburg, OH 45354

Paul Edward Ritter 321 Miles Avenue Tipp City, Ohio 45371

Richard Lee Ritter 321 Miles Avenue Tipp City, Ohio 45371

Deborah Stahl 533 Unger Avenue Englewood, Ohio 45222

Howard Glen Ritter (Deceased, Surviving Spouse: Charlene I. Ritter) 533 Unger Avenue Englewood, Ohio 45222

- RECEIVED
Office of Oil and Gas
DEC 1 0 2014
WV Department of

WV Departmental Protection
Environmental Protection
06/19/2015

WW-6A5 (1/12)

Operator Well No. Goodwin #1-1H

STATE OF WEST VIRGINIA 4703305863 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

	otice: 03/10/2015 Date P	ovided no later than the filin Permit Application Filed: 14		application.
Delivery 1	method pursuant to West Virginia	Code § 22-6A-16(c)		
■ CER	RTIFIED MAIL	☐ HAND		
RET	TURN RECEIPT REQUESTED	DELIVERY		
return rece the planne required to drilling of damages to	eipt requested or hand delivery, give ed operation. The notice required by the provided by subsection (b), section a horizontal well; and (3) A propose to the surface affected by oil and gas	the surface owner whose land by this subsection shall include ion ten of this article to a surface use and competed operations to the extent the contract of the surface.	nd will be used for ude: (1) A copy rface owner whose insation agreement damages are com	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
(at the add	nereby provided to the SURFACE ress listed in the records of the sheri k "Bart" Swiger		:	
Address: 6	3455 Rock Camp Road 26448-8680			
Pursuant to	on the surface owner's land for the p West Virginia Harrison Sardis e: Salem 7.5'	purpose of drilling a horizon UTM NAD Public Road	tal well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 512880.2 97111.8 CR 5 Goodwin Farm
Pursuant to to be prov horizontal surface aff informatio headquarte	vided by W. Va. Code § 22-6A-10(well; and (3) A proposed surface us fected by oil and gas operations to to n related to horizontal drilling may	b) to a surface owner who se and compensation agreem the extent the damages are be obtained from the Secr	se land will be uent containing are compensable under etary, 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 www.dep.wv.gov/oil-and-department
Well Oper	ator: Statoil USA Onshore	Address:	2103 CityWest Blvd	I, Suite 800
Telephone	713-918-8200		Houston, Texas 770	042
Email:	BEKW@Statoil.com	Facsimile	713-918-8290	

Oil and Gas Privacy Notice:

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

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION 4703305863

Date of Noti	ce: 10/29/2014 Date Permit	Application Filed: 11/0		application.
Delivery me	thod pursuant to West Virginia Code §	§ 22-6A-16(c)		
	FIED MAIL RN RECEIPT REQUESTED	HAND DELIVERY		
return receipt the planned required to be drilling of a damages to the	t requested or hand delivery, give the sur operation. The notice required by this e provided by subsection (b), section ten horizontal well; and (3) A proposed sur he surface affected by oil and gas operation	face owner whose land subsection shall include of this article to a surfa- rface use and compens ons to the extent the da	will be used for le: (1) A copy ace owner whos ation agreemen mages are com	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 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
(at the addres Name: Frank "E	5 Rock Camp Road	e time of notice): Name: - Address	oy Lee Hanna : 6691 Rock Camp F NV 26448-9722	Road
operation on State: County: District: Quadrangle:	reby given: Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Harrison Sardis Salem 7.5'	e is hereby given that the of drilling a horizonta UTM NAD 8 Public Road A	Well on the tra Easting: Northing: Access:	well operator has developed a planned ct of land as follows: 512880.2 97111.8 CR 5 Goodwin Farm
Pursuant to V to be provid horizontal we surface affect information	ed by W. Va. Code § 22-6A-10(b) to a ell; and (3) A proposed surface use and coted by oil and gas operations to the exterelated to horizontal drilling may be ob, located at 601 57th Street, SE, Cha	a surface owner whose compensation agreement ent the damages are contained from the Secret	land will be un at containing ar ampensable und ary, 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 ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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.

DEC 1 0 2014

Wy Department of Environmental Proto6/19/2015

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Office of Oil and Gas

4703305863

ADDITIONAL SURFACE OWNER – Goodwin 1-1H, 1-2H, 1-3H & 1-6H

Jeffrey L. and Melvina J. Williams 445 Buddy's Hollow Road Wallace, WV 26448-9725

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Office of Oil and Gas
DEC 1 0 2014
WV Department of Environment 06/19/2015

WW-6AW (1-12)

API NO. OPERATOR WELL NO. Well Pad Name:

33 - 05863 Goodwin 1-1H Goodwin

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments

_, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed

State:	West Virginia	West Virgi		East:	1,714,114.649 ft
County:	Harrison	North State NAD 27	Plane	North:	318,570.338 ft
District:	Sardis	Public Ros	d Access:	-	
Quadrangle:	SALEM	Generally	used farm na	me:	
Watershed:	McIntire Fork of Rockcomp Run	-		_	
AmericanMountai	neer Energy, Inc. and Statoil USA	Onshore Prope	rties Inc. d	ated 6/11/	2015.
*Please check the b	ox that applies		FOR EXE	CUTION	BY A NATURAL PERSON
					BY A NATURAL PERSON
SURFACE O		pance)	Signature Print Name	:	
SURFACE O	WNER WNER (Road and/or Other Disturb	pance)	Signature Print Name	:	
SURFACE OF	WNER	pance)	Signature Print Name Date	: :	
☐ SURFACE OF ☐ SURFACE OF ☐ SURFACE OW	WNER WNER (Road and/or Other Disturb /NER (Impoundments/Pits)	pance)	Signature Print Name Date	CUTION I	BY A CORPORATION, ETC.
☐ SURFACE OF ☐ SURFACE OF ☐ SURFACE OW	WNER WNER (Road and/or Other Disturb /NER (Impoundments/Pits)	pance)	Signature Print Name Date FOR EXE Company	CUTION I	BY A CORPORATION, ETC. American Mountaineer Energy, Inc. Alex O'Neill
□SURFACE OW	WNER (Road and/or Other Disturb /NER (Impoundments/Pits) R OR LESSEE	pance)	Signature Print Name Date FOR EXE Company By	CUTION I	BY A CORPORATION, ETC. American Mountaineer Energy, Inc.
☐ SURFACE OF ☐ SURFACE OF ☐ SURFACE OW ☐ SURFACE OW ☐ COAL OWNED ☐ COAL OPERA	WNER WNER (Road and/or Other Disturb /NER (Impoundments/Pits) R OR LESSEE TOR	pance)	Signature Print Name Date FOR EXE Company By Its	CUTION I	BY A CORPORATION, ETC. AmericanMountaineer Energy, Inc. Alex O'Neill Coal, Oil & Gas/Relations Manager
☐ SURFACE OF ☐ SURFACE OF ☐ SURFACE OW	WNER WNER (Road and/or Other Disturb /NER (Impoundments/Pits) R OR LESSEE TOR	pance)	Signature Print Name Date FOR EXE Company By Its	CUTION I	BY A CORPORATION, ETC. American Mountaineer Energy, Inc. Alex O'Neill Coal, Oil & Gas Relations Manager

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

4703305863

AmericanMountaineer Energy, Inc. 46226 National Road St. Clairsville, OH 43950

Phone: 740.338.3100 **Fax:** 740.338.3405

Fax Transmission

To: James Martin	Date: November 17, 2014
Fax #: 304-926-0452	Pages: 1 (Including Cover Sheet)
From: Alex O'Neill	
Subject: Statoil USA Onshore G	Goodwin 1-1H, 1-2H, 1-3H and 1-6H wells.

Message:

Dear Mr. Martin,

AmericanMountaineer Energy, Inc. objects to the drilling of the well represented by the above referenced well drilling application, at this time, pending an opportunity to discuss the well application in detail with Statoil USA Onshore to attempt to resolve all issues with the proposed well drilling and most importantly to protect the health and safety of the employees working in the coal mine. AmericanMountaineer Energy, Inc. has submitted an objection to the drilling of this well to Statoil USA Onshore by Certified Mail.

Thank you,

Alex O'Neill



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

November 6, 2014

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

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 Goodwin #1 Well Site, Harrison County

Goodwin#1-1H

Goodwin#1-2H

Goodwin#1-3H

Goodwin#1-6H

Dear Mr. Martin,

Earl Ray Tomblin

Governor

The West Virginia Division of Highways has transferred Permit # 04 -2013-0185 to Statoil USA Onshore Properties Inc. for access to the State Road for a well site located off of Harrison County Route 5 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,

Day K. Clayton

Gary K. Clayton, P.E. Regional Maintenance Engineer

Cc: Joshua Ozment

Statoil USA Onshore Properties Inc.

CH, OM, D-4

File

Office of Oil and Gas

WV Department of Environmental Projection

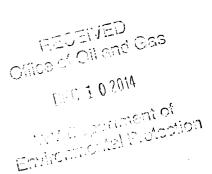
06/19/2015

4703305863

Frac Additives

BIO CLEAR 2000

Components	CAS#
Polyethylene Glycol	25322-68-3
2,2-dibromo-3-nitrilopropionan	nide 10222-01-2
BUFFER	
Sulfamic Acid	5329-14-6
ACID	
Hydrochloric Acid	7647-01-0
BREAKER	
Sucrose	57-50-1
Ethylene Glycol	107-21-1
INHIBITOR	
Ethoxylated Nonylphenol	68412-54-4
Dimethylcocoamine	68607-28-3
Ethylene Glycol	107-21-1
Glycol Ethers	111-76-2
Methanol	67-56-1
Propargyl Alcohol	107-19-7
SCALE INHIBITOR	
Ethylene Glycol	107-21-1



4703305863

FRICTION REDUCER

	Sodium Chloride	7647-14-5
	Ammonium Chloride	12125-02-9
	Petroleum Distillates	64742-47-8
	Alcohols, C12-16, Ethoxylated	68551-12-2
SAND		
	Crystalline Silica (quartz)	14808-60-7
	Aluminum Oxide	1344-28-1
	Iron Oxide	1309-37-1
	Titanium Oxide	13463-67-7
GEL		
	Gelling Agent & Hydrocarbons	64742-96-7







CONSTRUCTION AND EROSION & SEDIMENT CONTROL PLANS **GOODWIN WELL PAD**





SARDIS DISTRICT, HARRISON COUNTY, WEST VIRGINIA

PERMITTED: OCTOBER 2014 **MODIFIED: FEBRUARY 2015**

РКОЛЕСТ СОСАТІО

HIGHWAY VICINITY MAP

113



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11871.58 71402.31 1382.00 18.2700 18.2700 18.27000 18.27000 18.27000 18.27000 18.27000 18.27000 18.27000 18.27000 18.27000 18.27000 18.27000 18.27000 18.27000 18.27000 18.27000 18.27000 18.27000 1	0	Ā	318565.218	1714106.163	1362,000	N 29 3 70008	W 80.511
1857.0857 1954.000 N 80.7000 N 80.	ζ.	æ	\$18571.588	1714102 211	1362.000	N 29. 370007	WESS
		3	318576.867	1714110.712	1362.000	N 29.370007	W 80.511
d Total	-			-	0		
Well Pad Total	ANCE SUN	MARY		€	~~	22	REVISION
Disturbance Disturbance Disturbance	Access Road Disturbance	Well Pad Disturbance	Total				14

ву: вм	DATE: 11/20/2014	ERMITS	FORP	APPROVED FOR PERMITS	×
ADDED DISTURBANCE L PAD AND ACCESS CE OWNER.	ADDRESS DEP COMMENTS, ADDED DISTURBANG SUMMARY TABLE FOR WELL PAD AND ACCESS ROAD PER SURFACE OWNER.	03/08/2015	8	¥C.	n
ATION AND IED LOD	REVISED ENTRANCE LOCATION AND SOIL TOE KEY, MODIFIED LOD.	02/20/2018	8	1-34, 36-38, 40	2
WENTS. 24 REPORT.	ADDRESS DEP COMMENTS. ACCORDING TO GEOTECH REPORT.	12/03/2014	2	2, 4-5, 8-34, 37	-
	DESCRIPTION	DATE	94	NUMBER SHEETS	NUMBER

>	ć	1
<u>c</u>]	ALTROYED FOR BID	
-		
	APPROVED FOR CONSTRUCTION	DAT

ONE CALL UTILITY SYSTEM CONTACT INFO

BY: RM

BY:

E: 02/23/2015

(304) 624-7831

10V LEE MANNA, Th. 202 PAR 24
AND MENNAL JWILLIAMS, TM. 203 PAR 23
L D. AND GALL M. SWIGER, Th. 722 PAR 22
EL D. AND GALL M. SWIGER, TM. 722 PAR 2
Total Disturbance
Total Disturbance GOODWIN 1 DISTURBA

00000

GOODWIN WELL PAD CENTER WY27-N Northing = 318498.326 US Foot WY27-N Easting = 1714114.9829 US Foot WY27 Langitude = N 39° 22' 12.10. WY27 Langitude = W 80° 30' 40.46"

THE OFFICENCY IN WOLL OF WEATHER THE TRUE PROFEST OF THE THRASHER GROUP WE. ASPREDUCING OF THESE SOCIATIONS IN WOLL OF WEATH TAXABLE DRIVE WITH SERVICES IN STREETS WE COMMISSED IN STREETS WE SERVICED IN STREETS WITH THE THRASHER DRIVE IN STREETS WE SERVICED IN STREETS WERE THE STREETS WERE WERE THE STREETS WERE

06/19/2015

