

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: 47-3305864, 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

Chine

Operator's Well No: GOODWIN 1 - 2H Farm Name: HANNA, JOY LEE

API Well Number: 47-3305864

Permit Type: Horizontal 6A Well

Date Issued: 06/15/2015

PERMIT CONDITIONS

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

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than 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

	WELL WORK	PERMIT APPLICA	TION	7	596
1) Well Operator: Statoil US	A Onshore Properties In		Harrison	Sardis	Salem 7.5'
		Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Goodwin 1-2H	Well Pa	d Name: Good	dwin 1	
3) Farm Name/Surface Own	ner: Goodwin Farm/Joy I	Lee Hanna Public Ro	ad Access: Ro	ckcamp Run	5
4) Elevation, current ground	1390.80'	Elevation, proposed	post-construct	ion: 1362'	
5) Well Type (a) Gas	Oil	Unc	lerground Stora	ige	
Other					
(b)If Gas	Shallow _	Deep	:		Ch
	Horizontal _				MITIZOLL
6) Existing Pad: Yes or No	Yes		_		4117/2014
 Proposed Target Formation Marcellus, Formation Top 7 	1 1 1 1		-		:
8) Proposed Total Vertical I	Depth: 7651' TVD				
9) Formation at Total Vertic	al Depth: Marcellu	s Shale			
10) Proposed Total Measure	ed Depth: 14,200'	MD			
11) Proposed Horizontal Le	g Length: 6242'				
12) Approximate Fresh Wat	er Strata Depths:	732' TVD ** see no	ote on attached p	age	
13) Method to Determine Fr	resh Water Depths:	1980 study "Freshw	ater & Saline Gro	oundwater of \	MV" by James Foste
14) Approximate Saltwater	Depths: 424' TVD	** see note on attache	ed page		
15) Approximate Coal Seam	Depths: _558', 641	', 683', 822', 1079', 11	02'		
16) Approximate Depth to F	Possible Void (coal i	mine, karst, other):	NA		
17) Does Proposed well local directly overlying or adjacen		The state of the s	No		
(a) If Yes, provide Mine In	nfo: Name:				
	Depth:	DEC	ENED		
	Seam:	Office of	CH S L LYGG	,	
	Owner:	(191	16 60		
		Dis	166		
		Environt	60 to 10 to	430	

18)

CASING AND TUBING PROGRAM

TYPE	Size	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
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#	14200'	14200'	Cmt to 2000'-3247 cuft
Tubing							
Liners							

5DW 11/17/2014

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

Kind:	
Sizes:	RECEIVED GOS
Depths Set:	Office of Oil and Gas

WV Department of an Environmental Protection

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 7.91 acres
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7.91 perce
22) Area to be disturbed for well pad only, less access road (acres): 7.91 acres
23) Describe centralizer placement for each casing string:
See attached
24) Describe all cement additives associated with each cement type:
See attached
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DEC 1 0 2014
25) Proposed borehole conditioning procedures:

Surface – Drilled with fresh water to section total depth. Prior to tripping, holen with the control of cuttings and back-reamed if necessary.

Intermediate – Drilled with 9.0 ppg 5% KCL Polymer Water Based Mud (FBM) 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.

^{*}Note: Attach additional sheets as needed.

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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**12 & 14) NOTE FOR FRESH WATER-SALT WATER DEPTHS - 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 ½" 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 ½" 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 14,200' MD/7651' 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 ints 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 mandre collars of Oil and Gas

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

DEC 1 7 "

Surface - Class A + 3% CaCl2

Intermediate - Class A cmt, 0.05% Retarder, 0.25% Defoamer, 1% Accelerator, 0.25% Dispersant, on 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.

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Statoil					Ma	arcellu	s - Dri	lling	Well S	Sch	ematic			
Well Name: Field Name: County: API #:	Goodwin Marcellu Harrison 0	s			E0000200000	BHL: SHL:		355976.0 357986.6				1	TVD(n): 7,651 0 TMD(n): 14,200 Profile: Horizontal AFE No.: 0	0 4
Formations & Csg Points	MD	Depth, ft	ss	Torm.	Pore Press, EMW)	Frac Gradient (EMW)	Planned MW	M	leasure Depth (ft)		Program		Details	
Conductor	100	100	1,284	*	5.		Fresh Water		100					20" Conductor 17-1/2" Surface
Pittsburgh Coal		0					8.6	Ш			Profile: Bit Type: BHA:		al 2" PDC v Assembly	
Red Clay		0									Mud: Surveys: Logging:	8.6 pp n/a n/a	g Fresh Water	
10.0											Casing: Centralizers:	13.375 1 cent	5 54.5 J-55 BTC at 850' MD/850' TVE ralizer w/ stop collar 10 ft above flor joint to 100ft below surface.	
		Approxim	ate Fresh V	Vater Strata ~7	32'						Cement:	15.8 p	pg Tail slurry w/ TOC @ Surface	
							8.6				Potential Drilling Problems:	Stuck	Pipe, Floating, Collision,	
Casing Point	850	850	534	65	RIVE		5% KCI		850	1	FIT/LOT: 14.0 p	pg EMV Vertica		/4" Intermediate
							3,70 ACT				Bit Type:		4" Kymera	`
1st Salt Sand		0					9.1				вна:	Bin 6:7	7 Lobe 4.0 Stg 1.5 ABH (0.17 rpg/620	Diff)
2nd Salt Sand 3rd Salt Sand		0		1.0		4,5					Mud: Surveys:		g 5% KCl S, MWD - EM Pulse	
											Logging: Casing/Liner:	n/a	36 J-55 BTC at ' MD/' TVD	
43.6											Csg Hanger:	Mandr	rel Hanger	wa flast shoo 1 santak
Maxton Sand		0									Centralizers:	centra	ek centralizer w/ stop collar 10 ft ab lizer w/ stop collar 10 ft above float or the first 15 joints. One centralizer e.	collar. 1 centralizer every
Keener Sand		0							TOC @ 2000' MD		Cement:	15.8 p	opg Tail slurry w/ TOC @ Surface	
Big Lime		0						16			Potential			
Big Injun		2,404									Drilling Problems:	Hole @	leaning , Poor ROP, Buckling.	
Berea Sand		2,789					9.1				r robiems.			
Casing Point	2,900	2,900	-1,516	82	2018	>18.0	1130 mm		2,900	Ė	FIT/LOT: 15.8 p	pg EMV	V 8-1	/2" Production
Gordon Sand		3,174			0.10		SBM 8.6			100	Profile:	8-1/2"	*PDC	
Java		5,504					8.6 8.6	y.			Bit Type:	0 6.75in	6/7 lobe 5.0 stg 1.95 FBH .29 rpg 71	5 DIFF
		0					8.6 8.6				BHA: Mud:	0 12 ppg		
Angola Rhinestreet							8.6				Surveys:		- EM Pulse w/ 30ft surveys in curve,	100ft surveys in lateral
		0					8.6 8.6			8	Logging: Casing/Liner:		P110EC VAM TOP HT at ft MD/ ft TV	70
Cashaqua		0					8.6 8.6				Csg Hanger:		el Hanger	30000100000000000000000000000000000000
Middlesex		0					8.6				Centralizers:	centra (floatii 200ft i	ek centralizer w/ stop collar 10ft abo lizer 10ft above float collar. 1 centek ng) until KOP. 1 centek centralizer ev inside intermediate shoe. 1 centek ce rel hanger.	centralizer every joint very 3 joints (floating) until
КОР	7,086	7,078					12.0				Cement:		g Tail slurry w/ TOC @ 2000' MD'	
West River		7,384					\$35750				Potential Drilling	Bit Pre	eservation. Hole Bleaning	
Genesco		0			•	*	12.0	8			Problems:		ECEIVED	
Marcellus .		7,604									Notes / Of	fice	of Oil and Gas	
Cherry Valley		7,689			*		12.0				commens			
					*		12.0					- 0	EC 1 0 2014	
Landing point	7,987	7,651									٧	VV I	Department ob mental Protect	: 14,200 : 7,651
							12.0		A COUNTY		Env	ron	mental Protect	on \
Onondaga		7,700												
					٠	(4)								
Last Revision Date: Revised by:		10/28/20 TB Gilbert					No		is are reference Not Drawn to Sc		В		Cement Out	side Casing

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 Sheet					
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 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. Affiresh Water-vert sectoil 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 Bukh Winder RECEIVED					
Company Official (Typed Name) Bekki Winfree Office of Oil and Gas					
Company Official Title Sr. Regulatory Advisor DEC 1 0 2014					
Subscribed and sworn before me this 23 day of October Wy 7 partment of Envi Notary Jubic WALLY ANTHONY STUKA					
My commission expires April 16, 2017 WALLY ANTHONY STUKA My Completing 2018 April 16, 2017					

Form WW-9

Operator's Well No. Goodwin 1-2H

Proposed Revegetation Trea			
_	atment: Acres Disturbed 19.4	Prevegetation pH	
Lime 3	Tons/acre or to correct to pH	6.5	
Fertilizer type	20-10		
Fertilizer amount_	100	os/acre	
Mulch 2	Tons/a	acre	
	See	d Mixtures	
Т	emporary	Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
OATS	168	KY-31 TALL FESCUE	50
RYE	120		
notocopied section of invo	lved 7.5' topographic sheet.		
	Mulch all distur	bed areas as sources	
Comments: <u>Are-seace</u> Possible per i	Mulch all distur		reasonably
Comments: Re-sea	Mulch all distur	bed areas as sources le e EtS as needed par h	reasonably
Comments: <u>Are-seace</u> Possible per i	Mulch all distur	bed areas as sources of EtS as needed par h	reasonably UV DEP
Comments: <u>Are-seace</u> Possible per i	Mulch all distur	bed areas as sources le e EtS as needed par h	reasonably UV DEP IVED III and Gas
possible per i	Mulch all distur	RECE Office of O WV Dec	Pessonably UV DEP IVED III and Gas
Comments: <u>Are-seace</u> Possible per i	Mulsh all distur	bed areas as sources e Ets as needed par u RECE Office of O DEC 1	Neconably UN DEP IVED III and Gas

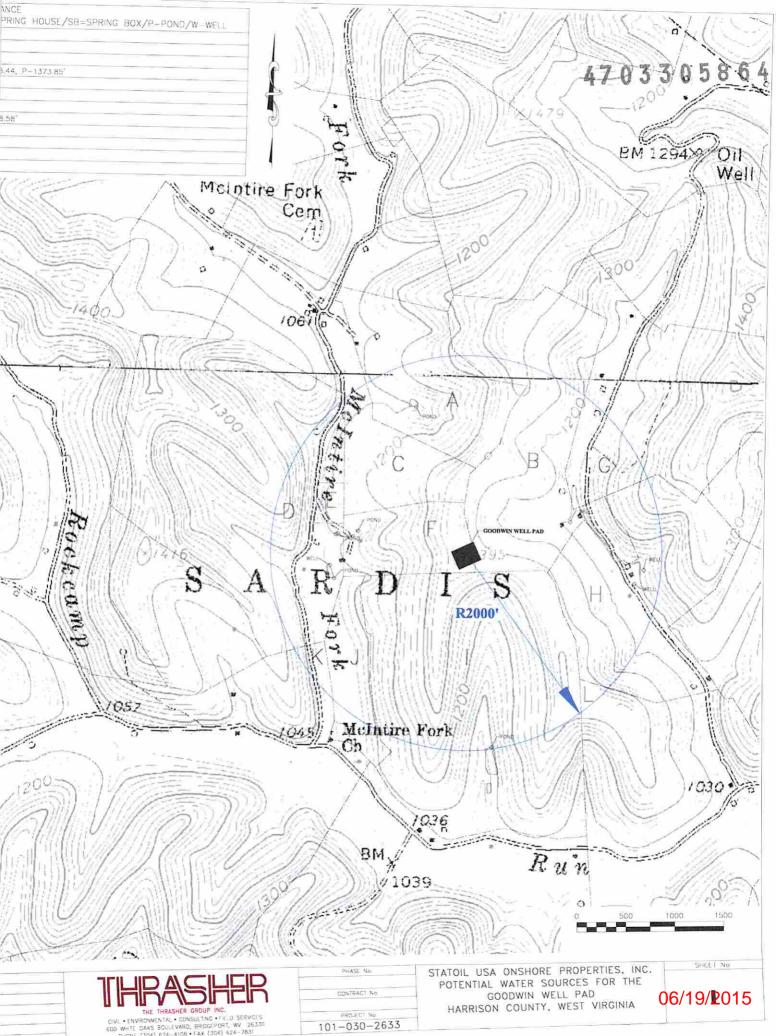


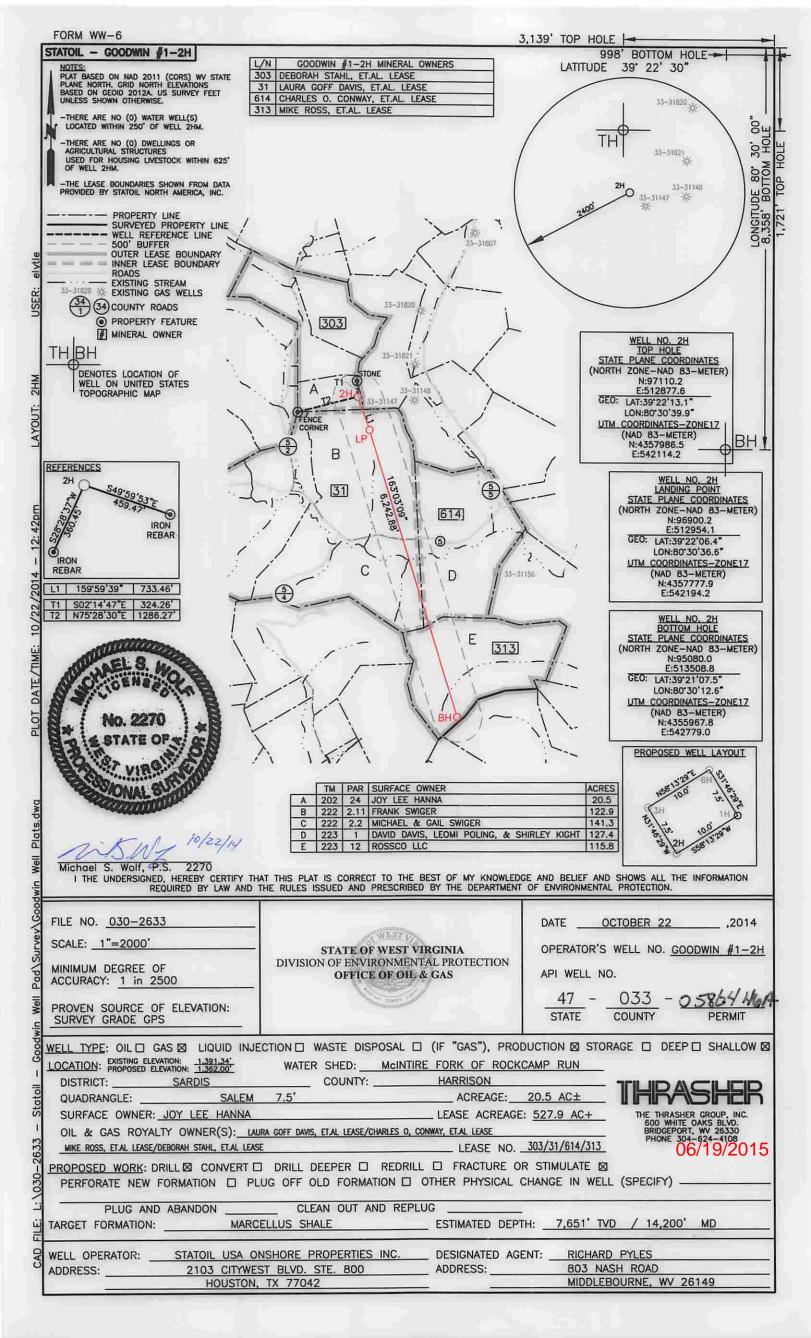
Goodwin 1 Site Safety Plan

Statoil USA Onshore Properties, Inc.

50W 11/19/2014







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 Attachment for Details)

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:	Statoil USA Onshore Properties Inc.
By:	Bekki Winfree abl Win
Its:	Sr. Regulatory Advisor

Page 1 of 3

Form WW-6A-1 - Preliminary Information: (Attachment)

Goodwin #1-2H

WOTE: All Mineral / Unit Tracts are identified on the Well Plat in Order from Top Hole to Bottom Hole.

TRACP#303

				2.
Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115945-072	Deborah Stahl, a married	PetroEdge Energy, LLC	At Least 1/8	1509/538
4	Woman dealing in her sole			
	and separate property			
000115945-001	John David Ritter, a married man dealing in his sole and	PetroEdge Energy, LLC	At Least 1/8	1484/603
	separate property			
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	1503/526
TRACT #31				
Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000103322-002	Wilma R. Goodwin	Devonian Gas Production, Inc.	At Least 1/8	1377/632
	By ner AIF, Konaid W. Goodwin			
000103322-003	Laura Goff Davis, single	Devonian Gas Production, Inc.	At Least 1/8	1377/627
N/A	Devonian Gas Production Inc.	Energy Production Inc.	Assignment	1397/1053
N/A	Energy Production Inc.	PetroEdge Energy, LLC	Assignment	35/94
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	1503/526

TRACT #614

WV Department of	DEC 11503/526	1512/13	Office of CATATH Gas	REGENVETage
-	Assignment	At Least 1/8	00	Royalty
Page 2 of 3	Statoil USA Onshore Properties, Inc.	PetroEdge Energy, LLC	PetroEdge Energy, LLC	Grantee, Lessee
	PetroEdge Energy, LLC	Charles O. Conaway	Margaret Conaway Torok	Grantor, Lessor
	N/A	000144944-002	000144944-001	Lease Name or Number

Environmental Protection

4703

N 000157937-002 Lease Name or Number TRACT #313

Grantor, Lessor

Mike Ross, Inc.

PetroEdge Energy, LLC

Statoil USA Onshore Properties, Inc.

Assignment At Least 1/8 Royalty

1525/1303 1516/1101

Book / Page

PetroEdge Energy, LLC Grantee, Lessee

Page 3 of 3

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Environmental Protection WV Department of DEC 1 0 2014

GOODWIN 1-2: Road Crossing Letters 0 3 3 0 5 8 6 4

TR 303 (pad site) - complete

TR 31 – complete

TR 614 – complete

TR 313 – complete

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Office of Oil and Gas

DEC 1 0 2014





4703305864

OIL, GAS & MINERAL LAW

6017 W MAIN STREET FRISCO, TEXAS 75034 TEL: 214 417 2880 FAX 972 418 931 www.btenergylaw.com

February 25, 2013

PetroEdge Energy LLC 4477 Williamstown Pike Williamstown, WV 26187 # 3Ø3

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.

Office of Oil and Gas

DEC 1 0 2014

PetroEdge Energy LLC February 25, 2013 Page 5

- 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

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

DEC 1 0 2014





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OIL, GAS & MINERAL LAW

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

September 18, 2012

PetroEdge Energy LLC 4477 Williamstown Pike Williamstown, WV 26187 Hauson chodix # 31

Attention:

Mr. Joshua S. Ozment

Re:

Wilma R. Goodwin, et al 229.25 Acre Tract out of Sardis District in Harrison County, West Virginia (Tax Parcel Nos. 14-222-2.2 and part of 14-222-2.11)

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

229.25 acres, more or less, out of Sardis District in Harrison County, West Virginia, and being the same land described as Tract No. 2 in a Deed, dated December 7, 1999, from Steven J. Stoeger-Moore and wife, Gail M. Moore, to Michael D. Swiger and wife, Gail M. Swiger, and Frank B. Swiger, recorded in Book 1316, Page 615, Office of the Clerk of the County Commission, Harrison County, West Virginia, and being more particularly described in two tracts as follows:

TRACT ONE: Tax Parcel No. 14-222-2.2, containing 141.32 acres, more or less, out of Sardis District in Harrison County, West Virginia, and being all of 229.25 acres, more or less, described as Tract No. 2 in a Deed, dated December 7, 1999, from Steven J. Stoeger-Moore and wife, Gail M. Moore, to Michael D. Swiger and wife, Gail M. Swiger, and Frank B. Swiger, recorded in Book 1316, Page 615, Office of the Clerk of the County Commission, Harrison County, West Virginia, SAVE AND EXCEPT that portion of 122.93 acres, more or less, out of Sardis District in Harrison County, West Virginia, described in a Deed, dated July 8, 2005, from Michael D. Swiger and Gail M. Swiger to Frank B. Swiger, recorded in Book 1377, Page 1146, Office of the Clerk of the County Commission, Harrison County, West Virginia, that lies within the boundary of Tract Two of the Subject Lands.

TRACT TWO: Part of Tax Parcel No. 14-222-2.11, containing 87.93 acres, more RESERVED Sardis District in Harrison County, West Virginia, and being that portion of Office acres more or less, out of Sardis District in Harrison County, West Virginia, described in a Deed, dated July 8, 2005, from Michael D. Swiger and Gail M. Swiger to Frank B. Swiger, recogned in Book

PetroEdge Energy LLC September 18, 2012 Page 6

- 36. Copy of an Amendment and Ratification of Oil and Gas Lease, dated July 19, 2010, from H. Dotson Cather, Trustee of the Diana Goff Cather "C" Trust, to Energy Production, Inc., recorded in Book 1456, Page 456, Office of the Clerk of the County Commission, Harrison County, West Virginia;
- 37. Copy of an Amendment and Ratification of Oil and Gas Lease, dated September 15, 2010, from JPMorgan Chase Bank, N.A., Trustee of the S. A. Smith and C. Burke Morris Trust, to Energy Production, Inc., recorded in Book 1456, Page 460, Office of the Clerk of the County Commission, Harrison County, West Virginia; and
- 38. 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 March 21, 2012, 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:

Michael D. Swiger (1/2)

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RADCLIFF PLLC

4703305864

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 / H-223-1, 11, 312

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;

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

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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.

Office of Oil and Gas

DEC 1 0 2014





FRISCO, TEXAS 75034
TEL: 214.417.2880
FAX: 972.418.1931

February 20, 2013

Harrison # 313)

PetroEdge Energy LLC 4477 Williamstown Pike Williamstown, WV 26187

Attention:

Mr. Joshua S. Ozment

Re:

Mike Ross, Inc. 115.75 Acre Tract out of Sardis District in Harrison County,

West Virginia (Tax Parcel No. 14-223-12)

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tax Parcel No. 14-223-12, containing 115.75 acres, more or less, out of Sardis District in Harrison County, West Virginia, and being the same lands described in a Deed, dated July 10, 1956, from D. Perry Moore and wife, Juanita Moore, to Stewart McReynolds, recorded in Book 780, Page 193, Office of the Clerk of the County Commission, Harrison County, West Virginia, hereinafter referred to as the "Subject Lands." The Subject Lands are shown on the plat attached hereto as Exhibit "A."

MATERIALS EXAMINED

1. Title Runsheet, dated December 14, 2012, prepared by S. A. Property Research, L.L.C. for PetroEdge Energy LLC covering the Subject Lands for the period from March 3, 1868 through and including December 14, 2012 in Harrison County, West Virginia (the "Title Runsheet");

The public records of Harrison, West Virginia ("Records") for the period Ging March 3, 1868 through and including December 14, 2012, but only insofar as the same includes those documents set forth on the above described Title Runsheet as they begain to the Subject Lands;

Environment of Protection

PetroEdge Energy LLC February 20, 2013 Page 2

- Copy of a Tax Ticket, undated, issued by the Harrison County Sheriff's Tax Office, Harrison County, West Virginia, relative to the interest of ROSSCO LIMITED LIABILITY COMPANY, covering PARCEL: 14-223-0012-0000-0000, as same pertains to the Subject Lands;
- Copy of an unrecorded Oil and Gas Lease, dated August 6, 2012, from John F. Dye, Jr. to PetroEdge Energy LLC, a Memorandum of which is recorded in Book 1499, Page 68, Office of the Clerk of the County Commission, Harrison County, West Virginia; and
- 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 December 14, 2012, 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

- Rossco Limited Liability Company (63/64)
- Heirs or Devisees of Christopher McClelland Keller, deceased (1/64)



06/19/2015

Date of Notice Certification: 12/02/2014

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

API No. 47-

			Operator's Well No. Goodwin 1-2H			
		1	Well Pad Name: Goodwin 1			
	oeen given: e provisions in West Virginia Code § tract of land as follows:	22-6A, the Operator has provi	ded the req	uired parties w	vith the Notice Forms listed	
State:	West Virginia	um avan a	Easting:	512877,6 m		
County:	Harrison		Northing:	97110.2 m		
District:	Sardis	Public Road Acces		Rockcamp Run 5		
Quadrangle:	Salem 7.5'	Generally used far	Generally used farm name:		Goodwin Farm	
Watershed:	McIntire Fork of Rockcamp Run					
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and sled the owners of the surface describe equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall to have been completed by the applicant	hall contain the following infor- bed in subdivisions (1), (2) and ction sixteen of this article; (ii) rvey pursuant to subsection (a f this article were waived in vender proof of and certify to the	mation: (14 d (4), subs that the red d), section the writing by	4) A certification (b), section (b), section (c), section (d), section	on from the operator that (i) tion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice vner; and Pursuant to West	
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require		is Notice C	ertification	OOG OFFICE USE	
*PLEASE CHE	ECK ALL THAT APPLY				ONLY	
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED	
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or NO PLAT SURVE	Y WAS CO	ONDUCTED	☑ RECEIVED	
□ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PEWAS CONDUCTED or			RECEIVED/ NOT REQUIRED	
		☐ WRITTEN WAIVER B (PLEASE ATTACH)	Y SURFA	CE OWNER		
■ 4. NO	TICE OF PLANNED OPERATION				RECEIVED	
■ 5. PUE	BLIC NOTICE				☑ RECEIVED	
■ 6. NO	FICE OF APPLICATION				RECEIVED	
Dequired A	ttachments:					

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to 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 to populate the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publications of Notice shall serve as proof that the required parties have been noticed as required untellivest Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person of Notice by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

DEC 1 2014

O6/19/201

Certification of Notice is hereby given:

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. Bekki Winfree/ 75 /21 By: Its:

Sr. Regulatory Advisor 713-485-2640

Telephone:

NOTARY SEAL

WALLY ANTHONY STUKA My Commission Expires April 16, 2017

Address: 2103 City West Boulevard, Suite 800

Houston, TX 77042

Facsimile: 713-918-8290 BEKW@Statoil.com Email:

Subscribed and sworn before me this 2 day of December

My Commission Expires April 16, 2017

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.

REGEIVED
Office of Oil and Gas
DEC 1 0 2014
WV Department of
Environmental Protection

WW-6A (9-13)

API NO. 47 OPERATOR WELL NO.	1-2H	=
Well Pad Name: Goodwin		-

STATE OF WEST VIRGINIA 4/030058 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later that	in the filing date of permit application.		
Date of Notice: 10/292014 Date Permit Application Filed: 11/0	7/2014		
Notice of:			
Notice of.			
✓ PERMIT FOR ANY ☐ CERTIFICATE OF API	PROVAL FOR THE		
	AN IMPOUNDMENT OR PIT		
WELL WORK CONSTRUCTION OF	AN INIT OCINDINENT ORTH		
Delivery method pursuant to West Virginia Code § 22-6A-10	0(b)		
☐ PERSONAL ☐ REGISTERED ☑ METH	OD OF DELIVERY THAT REQUIRES A		
	IPT OR SIGNATURE CONFIRMATION		
SERVICES MILES RESERVED	in I ok sidikil oka com hamilion		
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 located and gas leasehold being developed by the proposed well work, it described in the erosion and sediment control plan submitted pursual operator or lessee, in the event the tract of land on which the well perform the surface tract or the well work, if the surface tract is to be used for the placement, constitution which is a described in section nine of this article; (5) where a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; and proposed well work activity is to take place. (c)(1) If more than three subsection (b) of this section hold interests in the lands, the application provision of this article to the contrary, notice to a lien holder is not	the tenants in common or other co-owners of interests described in the man man serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. rovide the Well Site Safety Plan ("WSSP") to the surface owner and any		
☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice	☑ Well Plat Notice is hereby provided to:		
Z SURFACE OWNER(s)	COAL OWNER OR LESSEE		
Name: Joy Lee Hanna	Name: John Frederick Dye, Jr.		
Address: 6691 Rock Camp Road	Address: 61 Vista Montana Road		
Wallace, WV 26448-9722	Estancia, NM 87016		
Name: Frank "Bart" Swiger	☐ COAL OPERATOR		
Address: 6455 Rock Camp Road	Name:		
Wallace, WV 26448-8680	Address:		
☐ SURFACE OWNER(s) (Road and/or Other Disturbance)			
Name:	☑ SURFACE OWNER OF WATER WELL		
Address:	AND/OR WATER PURVEYOR(s)		
	Name: David & Regina Edgell		
Name:	Address: 796 McIntyre Fork Road		
Address:	Wallace, WV 26448		
To continue and some	OPERATOR OF ANY NATURAL GAS EFORAGE FIELD Name: RECEIVED Gas Address: Office of Oil and Gas		
SURFACE OWNER(s) (Impoundments or Pits)	Name: DECEIVED		
Name:	Address:		
Address:	Office of On		
, tudiousi	*Please attach additional forms if necessary 2014		
	*Please attach additional forms if necessary 2014		
	of of		

WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. 1-2H Well Pad Name: Goodwin

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean was a contained of the conducting the activities permitted or authorized by a Clean was a contained or other approval from the United States Army Corps of Engineers within any waters of the state or within the presence of the section. (d) The well location restrictions set forth in this section shall not apply to any was 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 3 1,72012, 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 secteary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require parameters the remaining of the section of the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require parameters are inadequate or otherwise require parameters.

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06/19/2015

WW-6A
(8-13)

API NO. 47	
OPERATOR WELL NO. 1-2H	
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.

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

WW-6A (8-13)

API NO. 47-___ OPERATOR WELL NO. 1-2H
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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WV Department of Environmental Protection

06/19/2015

WW-6A (8-13)

API NO. 47-___OPERATOR WELL NO. 1-2H
Well Pad Name: Goodwin

Notice is hereby given by:

Well Operator: Statoii USA Onshore Color Work
Telephone: 713-918-8200

Email: BEKW@Statoil.com

Address: 2103 CityWest Blvd., Building 4, Suite 800 3 0 5 8 6 4

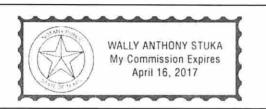
Houston, Texas 77042

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.

My Commission Expires



Subscribed and sworn before me this 10 day of November 2014.

July Huly Min

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DEC 1 0 2014



October 29, 2014

Re: WW6A - Notice of Application - Goodwin 1-1H, 1-2H, 1-3H and 1-6H wells

To Whom it May Concern:

Pursuant to West Virginia Code §22-6A-10(b), Statoil USA Onshore Properties Inc. hereby provides you with the Notices of Application (4 total). This notice is in reference to the wells on the Goodwin 1 well pad: 1-1H, 1-2H, 1-3H and 1-6H. The well site is located on your property in Harrison County, WV.

Included with this letter you will find:

- West Virginia DEP form WW-6A Notice of application
 - o Goodwin 1-1H
 - o Goodwin 1-2H
 - o Goodwin 1-3H
 - o Goodwin 1-6H
- A copy of Statoil's erosion and sediment control plan for the Goodwin 1 well pad
- A copy of Statoil's Goodwin 1 Site Safety Plan
- A copy of the Goodwin 1 Well Plats
 - o Goodwin 1-1H
 - o Goodwin 1-2H
 - o Goodwin 1-3H
 - o Goodwin 1-6H

Thank you,

Courtney Battle Landman

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ADDITIONAL SURFACE OWNER - Goodwin 1 4703305864

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 REGEIVED
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Frank Swiger 6455 Rock Camp Rd Wallace, WV 26448

4703305864

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

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WV Department of Environmental Prospertion 2015

4703305864 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

		Requirement	: Notice shall be pro	vided at least SE	VEN (7) day	ys but no more thar	n FORTY-FIVE (45) days prior to
entry Date		e: 07/03/2014	Date of Pla	nned Entry: 07/1	8/2014		
Deli	very meth	od pursuan	t to West Virginia (Code § 22-6A-10a	ı		
	PERSON	IAL [REGISTERED	■ METHO	DD OF DEL	IVERY THAT RE	QUIRES A
	SERVICE		MAIL			ATURE CONFIR	
on to but r bene own and s Secr enab	o the surfa no more the eath such the er of mine Sediment etary, while the surfa	ce tract to contain forty-five ract that has fortals underlying Control Manuch statement face owner to	nduct any plat survey days prior to such er filed a declaration pung such tract in the cual and the statutes a shall include contact obtain copies from t	ys required pursua ntry to: (1) The su resuant to section to ounty tax records and rules related to information, incl	int to this ar rface owner thirty-six, and The notice of oil and gas	ticle. Such notice s of such tract; (2) t ticle six, chapter to e shall include a sta exploration and pr	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 attement that copies of the state Erosion roduction may be obtained from the tage on the Secretary's web site, to
_		by provided					
		E OWNER(s)			LOWNER OR LES	SSEE
	e: Frank "Ba					n Frederick Dye, Jr.	
		Rock Camp Road			-	31 Vista Montana Road	
	ce, WV 26448			_	Estancia, NM	37016	
	ie: Joy Lee F				■ MINE	PAL OUNIED(-)	
		Rock Camp Road				ERAL OWNER(s)	
	ce, WV 26448	and Melvina J. Wi	lliame			ert Sterling Rogers	
		uddy's Hollow Roa		_		639 Adams Drive	
	ce, WV 26448			-	*please attacl	n additional forms if nec	cessary
Purs a pla	uant to W		Code § 22-6A-10(a), land as follows:				operator is planning entry to conduct
State		West Virginia			V.A.	ude & Longitude:	39'22'12.02"/80'30'40.78"
Cou		Harrison			blic Road A	Access:	CR 5
Dist		Sardis			atershed:	1 C	McIntire Fork of Rockcamp Run
Qua	drangle:	Salem 7.5'		G	enerally use	d farm name:	Goodwin Farm
may Cha	be obtainerleston, W	ed from the S V 25304 (30	Secretary, at the WV	Department of Er s of such docume	vironmenta nts or addit	l Protection headquoinal information re	il and gas exploration and production uarters, located at 601 57 th Street, SE, elated to horizontal drilling may be
Not	ice is her	eby given b	ov:				
	l Operator		-		Address:	2103 CITYWEST BLVD	SUITE 800 HOUSTON, TX 77042
	phone:	713-918-8200	- Allestator	8			RECEIVED
Ema	•	BEKW@Stato		_	Facsimile:	713-918-8290	
							office of Oil and Gas
Oil	and Gas	Privacy No	otice:				

The Office of Oil and Gas processes your personal information, such as name, address and telephone and ber that 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 Dept 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@wy.gov. DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A3 - GOODWIN 1-2H

Additional Coal Owners (3):

4703305864

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

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DEC 1 0 2014

WV Department of Environmental Protection 06/19/2015 WW-6A5 (1/12)

Operator Well No. Goodwin #1-2H

STATE OF WEST VIRGINIA 4703305864 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Date of Noti	ce: 03/10/2015 Date F	Permit Application Filed: 12/09/2014	
Delivery me	thod pursuant to West Virginia	Code § 22-6A-16(c)	
CERTI	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a damages to the	t requested or hand delivery, give operation. The notice required to e provided by subsection (b), sect horizontal well; and (3) A propo- the surface affected by oil and gas	the surface owner whose land will be used by this subsection shall include: (1) A coption ten of this article to a surface owner whosed surface use and compensation agreem operations to the extent the damages are co	oblication, an operator shall, by certified mail for the drilling of a horizontal well notice of by of this code section; (2) The information cose land will be used in conjunction with the ent containing an offer of compensation for mpensable under article six-b of this chapter. listed in the records of the sheriff at the time
	reby provided to the SURFACE as listed in the records of the sheri		
Name: Frank "E	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Name:	·
Name: Frank *E Address: 6455	5 Rock Camp Road	Name:Address:	
Name: Frank *E Address: 6455 Wallace, WV 264	5 Rock Camp Road 148-8680		
Name: Frank E Address: 6455 Wallace, WV 264 Notice is her Pursuant to V operation on State: County:	5 Rock Camp Rosd 148-8680 reby given: Vest Virginia Code § 22-6A-16(c	Address: Address: Address: On the purpose of drilling a horizontal well on the UTM NAD 83 Northing Public Road Access:	d well operator has developed a planned tract of land as follows: 512880.2 2: 97111.8 CR 5
Name: Frank E Address: 6455 Wallace, WV 264 Notice is her Pursuant to V	Feby given: Vest Virginia Code § 22-6A-16(c the surface owner's land for the West Virginia Harrison	Address: Address: Address: On the undersigne purpose of drilling a horizontal well on the Easting: OTM NAD 83 Northing	d well operator has developed a planned tract of land as follows: 512880.2 2: 97111.8 CR 5
Name: Frank E Address: 8455 Mallace, WV 264 Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice: Pursuant to V to be provide horizontal we surface affect information to headquarters. gas/pages/de	reby given: Vest Virginia Code § 22-6A-16(con the surface owner's land for the West Virginia Harrison Sardis Salem 7.5' McIntire Fork of Rockcamp Run Shall Include: West Virginia Code § 22-6A-16(con the West Virginia Code § 22-6A-16(con the West Virginia Code § 22-6A-16 (con the West Virginia Code § 23-6A-16 (con the West	Address: Address: Dy, notice is hereby given that the undersigne purpose of drilling a horizontal well on the UTM NAD 83 Public Road Access: Generally used farm name C), this notice shall include: (1)A copy of the (b) to a surface owner whose land will be use and compensation agreement containing the extent the damages are compensable up to obtained from the Secretary, at the William Charleston, WV 25304 (304-926-045)	d well operator has developed a planned tract of land as follows: 512880.2 2: 97111.8 CR 5
Name: Frank E Address: 6455 Wallace, WV 264 Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice: Pursuant to V to be provid horizontal we surface affect information the adquarters. gas/pages/de Well Operator	reby given: Vest Virginia Code § 22-6A-16(con the surface owner's land for the West Virginia Harrison Sardis Salem 7.5' McIntire Fork of Rockcamp Run Shall Include: West Virginia Code § 22-6A-16(con the West Virginia Code § 22-6A-16(con the West Virginia Code § 22-6A-16 (con the West Virginia Code § 23-6A-16 (con the West	Address: Address:	d well operator has developed a planned tract of land as follows: 512880.2 97111.8 CR 5 Goodwin Farm is code section; (2) The information required e used in conjunction with the drilling of a an offer of compensation for damages to the nder article six-b of this chapter. Additional /V Department of Environmental Protection (0) or by visiting www.dep.wv.gov/oil-and-
Name: Frank E Address: 8455 Mallace, WV 264 Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: This Notice: Pursuant to V to be provide horizontal we surface affect information to headquarters. gas/pages/de	reby given: Vest Virginia Code § 22-6A-16(con the surface owner's land for the West Virginia Harrison Sardis Salem 7.5' McIntire Fork of Rockcamp Run Shall Include: West Virginia Code § 22-6A-16(con the West Virginia Code § 22-6A-16(con the West Virginia Code § 22-6A-16 (con the West Virginia Code § 23-6A-16 (con the West	Address: Address:	d well operator has developed a planned tract of land as follows: 512880.2 g; 97111.8 CR 5 : Goodwin Farm is code section; (2) The information required e used in conjunction with the drilling of a an offer of compensation for damages to the inder article six-b of this chapter. Additional /V Department of Environmental Protection (0) or by visiting

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.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OLIANO GAS 8 6 4 NOTICE OF PLANNED OPERATION

Date of Notic	e: 10/29/2014 Date Permit Appli			application.
Delivery metl	nod pursuant to West Virginia Code § 22-6	A-16(c)		
		AND ELIVERY		
return receipt the planned o required to be drilling of a h damages to the	V. Va. Code § 22-6A-16(c), no later than the requested or hand delivery, give the surface of peration. The notice required by this subset provided by subsection (b), section ten of this orizontal well; and (3) A proposed surface a surface affected by oil and gas operations to see required by this section shall be given to the	owner whose land ection shall includes a sarticle to a surfa- use and compense to the extent the da	will be used for le: (1) A copy ace owner whos ation agreemen mages are comp	or the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter.
	by provided to the SURFACE OWNER(s)			
	listed in the records of the sheriff at the time			
Name: Frank "Ba			oy Lee Hanna : 6691 Rock Camp F	Pond
Address: 6455 Wallace, WV 2644			W 26448-9722	Koau
	AC 1965 W.			
	by given: est Virginia Code § 22-6A-16(c), notice is he the surface owner's land for the purpose of dr West Virginia	illing a horizontal	well on the tra	
County:	Harrison	UTM NAD 8:	Northing:	97111.8
District:	Sardis	Public Road A		CR 5
Quadrangle:	Salem 7.5'	Generally use	d farm name:	Goodwin Farm
Watershed:	McIntire Fork of Rockcamp Run			
to be provide horizontal we surface affect information re	est Virginia Code § 22-6A-16(c), this notice d by W. Va. Code § 22-6A-10(b) to a surfall; and (3) A proposed surface use and competed by oil and gas operations to the extent the lated to horizontal drilling may be obtained located at 601 57th Street, SE, Charlesto	ace owner whose ensation agreemer e damages are co I from the Secret	land will be un nt containing an empensable und ary, at the WV	sed in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection
Well Operator	: Statoil USA Onshore	Address:	2103 CityWest Blvd,	Suite 800
Telephone:	713-918-8200		Houston, Texas 770	42
Email:	BEKW@Statoil.com	Facsimile:	713-918-8290	
Oil and Carl	Duivage Notice	_		

Oil and Gas Privacy Notice:

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

Office of Oil and Gas

DEC 1 0 2014

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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WV Department of Environmental Protection 06/19/2015

WW-6AW (1-12)

OPERATOR WELL NO. Well Pad Name:

Goodwin

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS OLUNTARY 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

Alex O'Neill

consisting of pages one (1) through _

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

_, including the erosion and sediment control plan, if required, and the well plat, all for proposed

State:	West Virginia	West Virginia	East:	1,714,106.119 ft
County:	Harrison	North State Plane NAD 27	North:	318,565.089 ft
District:		Public Road Access:		
Quadrangle:	SALEM	Generally used farm	name:	
Watershed:	McIntire Fork of Rockcamp Run			
issued on those m NAD 27 coordin	I have no objection to the planned work described aterials, provided that Statoil USA Onshorates of North 318,565.089 ft, East 1,714,10 aincer Energy, Inc. and Statoil USA Onshorates	e Properties Inc. d 6.119 ft in accord:	Irills the we ince with th	ell on West Virginia North State Plane ne Agreement between
Please check the				BY A NATURAL PERSON
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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

4703305864

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 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

AMERICANMOUNTAINEER ENERGY, INC.

AMERICANMOUNTAINEER ENERGY, INC.

46226 National Road St. Clairsville, OH 43950

phone: 740.338.3100

fax: 740.338.3405

e-mail: AlexO'Neill@coolsource.com

ALEX O'NEILL

Coal, Oil and Gas Relations Manager

November 17, 2014

Mr. James Martin – Chief
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, West Virginia 25304

RE: Statoil USA Onshore Goodwin 1-1H, 1-2H, 1-3H and 1-6H wells

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.

Sincerely,

Alay O'Naill

Office of Oil & Gas



4703305864

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

November 6, 2014

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

RECEIVED
Office of Oil and Gas

DEC 1 0 2014

WV Department of Environmental Protection

Frac Additives

BIO CLEAR 2000

	Components	CAS#
	Polyethylene Glycol	25322-68-3
	2,2-dibromo-3-nitrilopropionamide	10222-01-2
BUFFE	R	
	Sulfamic Acid	5329-14-6
ACID		
	Hydrochloric Acid	7647-01-0
BREAK	ŒR	
	Sucrose	57-50-1
	Ethylene Glycol	107-21-1
INHIBI	TOR	
	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

Office of Oil and Gase
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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

Office of Oil and Gas

Office of Oil and Gas Environmental Protection



STATOIL USA ONSHORE PROPERTIES INC.

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

WVDEP OOG

APPROVED

SHEET INDEX

SARDIS DISTRICT, HARRISON COUNTY, WEST VIRGINIA

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

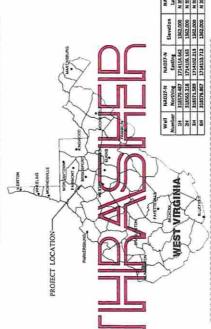
PROJECT LOCATION

HIGHWAY VICINITY MAP

200000

POLSON AND SALEN. WY QUAD MAP

110



Property Owner	Access Road	Wellpad	Total
(Tax Map / Parcel)	Disturbance	Disturbance	Disturbance
SOY LEE HANNA, TM 202 PAR 24	000	3.25	3.25
FFREY LAND MEVINA J WILLIAMS, TM 203 PAR 23	0.39	2.66	3.05
ICHAEL D AND GALL M. SWIGER, TM 222 PAR 2.2	10.41	332	13.73
MICHAEL D AND GAL M. SWIGER, TM 222 PAR 2	0.00	0.38	0.38
Total Disturbance	10.80	9.61	20.41

ONE CALL UTILITY SYSTEM CONTACT INFO

VICINITY MAP

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GOODWIN WELL PAD CENTER WV27-N Northing = 318490.3266 US Foot WV27-N Easting = 1714114.9829 US Foot

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DED DISTURBANCE PAD AND ACCESS OWNER.	ADDRESS DEP COMMENTS, AD SUMMARY TABLE FOR WELL ROAD PER SURFACE	03/09/2015	Ж.	in .	6
ATION AND	REVISED ENTRANCE LOCATION AND SOIL TOE KEY, MODIFIED LOG	02/20/2015	26	1-34, 36-38, 40	N
ENTS.	ADDRESS DEP COMMENTS. ACCORDING TO GEOTECH REPORT	12/03/2014	Ж	2,4-5, 8-34, 37	
	DESCHIPTION	DAIE	in a	SHEETS	NUMBER SHEETS

DATE: 02/23/2015 APPROVED FOR CONSTRUCTION DATE: APPROVED FOR BID ×

RW

06/19/2015

