

west virginia department of environmental protection

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

May 18, 2015

WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-9502242, issued to STATOIL USA ONSHORE PROPERTIES, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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

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

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Operator's Well No: BLIZZARD 4H

Farm Name: BLIZZARDM ROGER D. & SPENC

API Well Number: 47-9502242

Permit Type: Horizontal 6A Well

Date Issued: 05/18/2015

API Number: <u>9502242</u>

PERMIT CONDITIONS

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

CONDITIONS

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

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

1) Well Operate	or: Statoil USA	Onshore Pro	perties Inc.	494505083	Tyler	Ellsworth	Shirley-Sec. 1
7.				Operator ID	County	District	Quadrangle
2) Operator's V	Vell Number:	Blizzard 4h	1	Well Pad	Name: Blizza	rd	
3) Farm Name/	Surface Owne	F: Blizzard FarmyRd	ger D. Blizzard & Ruth	Public Road	d Access: Gor	ells Run Ro	pad
4) Elevation, cu	irrent ground:	1008'	Ele	evation, proposed p	oost-construction	on: 1003'	
5) Well Type	(a) Gas		Oil	Unde	rground Storag	ge	
	Other _						
	(b)If Gas S	Shallow		Deep			
	F	Horizontal					
6) Existing Pad	: Yes or No	No					
*				pated Thickness at psi, *Intermediate C			
8) Proposed To	tal Vertical De	epth: 651	1' TVD				
9) Formation at	Total Vertica	l Depth:	Marcellus S	Shale			
10) Proposed T	otal Measured	Depth:	12,829' MD	0			
11) Proposed H	lorizontal Leg	Length:	6318'			1	
12) Approxima	te Fresh Wate	r Strata De	pths:	388' TVD		X-	
13) Method to			- T	ffset well data			105
14) Approxima	te Saltwater D	epths: 1	100' TVD			- 4	141
15) Approxima	te Coal Seam	Depths: 2	02', 232'				Y V.
16) Approxima	te Depth to Po	ssible Voi	d (coal mi	ne, karst, other):	NA		
17) Does Propo directly overlyi				ns Yes	No	✓	
(a) If Yes, pro	ovide Mine Inf	o: Name					
		Depth	:				
		Seam:		-			
		Owner	r:				

WW-6B (9/13)

18)

CASING AND TUBING PROGRAM

TYPE	Size	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	20"	New	H-40	94#	100'	100'	Cmt to surface-150 cu ft
Fresh Water	13.375"	New	J-55	54.4#	500'	500'	Cmt to surface-373 cuft
Coal							
Intermediate	9.625"	New	J-55	36#	2400'	2400'	Cmt to surface-815 cuft
Production	5.5"	New	P-110	20#	12829'	12829'	Cmt to 1400'-2670' cuft
Tubing							
Liners							

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

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:
See Attached
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:
Well will fractured through the plug-n-perf method with +/- 25 fracturing stages per well. Each fracturing treatment will have 400,000 lbs of sand mixed in 7500 Bbls. of fresh water. The fracturing rate will be between 80 and 100 bpm at a pressure lower than a maximum pressure of 10,000 psi.
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.8 acres
22) Area to be disturbed for well pad only, less access road (acres): 8.4 acres
23) Describe centralizer placement for each casing string:
See attached
24) Describe all cement additives associated with each cement type:
See attached
25) Proposed borehole conditioning procedures:
See attached

*Note: Attach additional sheets as needed.

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 500'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 2400'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 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 12829' md/6511 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 mandrel hanger.

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

Surface - Class A + 3% CaCl2

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

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

Pilot – Densified Cement Plug – Class A cmt, 0-1% bwoc dispersant, 0-1% bwoc defoamer, 0-1% bwoc retarder

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FEB 20 2015

25) Proposed borehole conditioning procedures:

- Surface Drilled with fresh water to section total depth. Prior to tripping, hole will circulated clean of cuttings and back-reamed if necessary.
- Intermediate Drilled with 9.0 ppg 5% KCL Polymer Water Based Mud (WBM) to section total depth. At section total depth, pump 40bbl viscous pill and circulate hole clean.
- Production Drilled with 12.5-13.0 ppg Synthetic Based Mud (SBM) to section total depth. At section total depth pump 2-3 20bbl heavy weighted pill sweeps to transport excess cutting from the hole until clean. Pump rates will be maintained in excess of 600 GPM, and rotation in excess of 100 RPM to assist cuttings transport. A 60 bbl tuned weighted spacer will be pumped ahead of the cement to assist in mud cake removal and water wett both casing and formation.
- Pilot Drilled with 8.6 12.0 ppg SBM to section total depth. The hole will be circulated, and 20 bbl high vis pills pumped as needed, until shakers run free of cuttings.

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CEMENT ADDITIVES

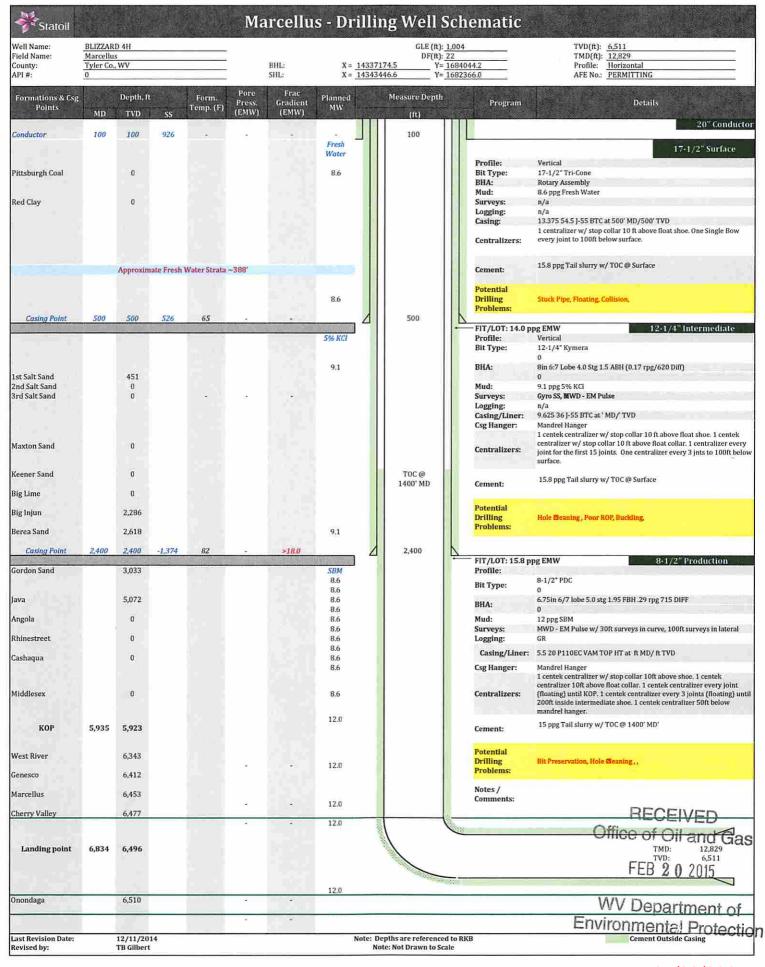
Surface - Class A + 3% CaCl2

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

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

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WW-9 (9/13)

API Number 47 -		
Operator's We	ell No. Blizzard 4H	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Statoil USA Onsho	re Properties Inc.	OP Code 494505083
Watershed (HUC 10) Gorrell Ru		Quadrangle Shirley - Sec. 1
Elevation 1008	County Tyler	District Ellsworth
Do you anticipate using more that Will a pit be used? Yes	n 5,000 bbls of water to complete	the proposed well work? Yes Vo No
If so, please describe an	icipated pit waste:	Design of the second se
Will a synthetic liner be	used in the pit? Yes N	o If so, what ml.?
Proposed Disposal Meth	od For Treated Pir Wastes:	o If so, what ml.?
V Under Reuse Off Si	Application ground Injection (UIC Permit No (at API Number_ te Disposal (Supply form WW-9 (Explain_	umber Green Hunter API 34-121-23195)
Will closed loop system be used?	If so, describe: Yes	
Drilling medium anticipated for t	his well (vertical and horizontal)?	Air, freshwater, oil based, etc. Anthresh water vertisee/oil based mud hour see
	Synthetic, petroleum, etc.Syntheti	
17.00	37.	surfactant, calcium carbonate, gifsonite, lubricant, graphite, lime
7		
	eave in pit, landfill, removed off	
	solidify what medium will be use	
-Landfill or offsite name	permit number? Wetzel County Lan	dfill.
on August 1, 2005, by the Office provisions of the permit are enfo law or regulation can lead to enfo I certify under penalty application form and all attach obtaining the information, I bel	of Oil and Gas of the West Virgin receable by law. Violations of an preement action. of law that I have personally ex- ments thereto and that, based of	ditions of the GENERAL WATER POLLUTION PERMIT issued nia Department of Environmental Protection. I understand that the system or condition of the general permit and/or other applicable samined and am familiar with the information submitted on this none inquiry of those individuals immediately responsible for accurate, and complete. I am aware that there are significant of fine or imprisonment.
Company Official Signature	Jack Museu	
Company Official (Typed Name	Bekki Winfree	
Company Official Title Sr. Reg	ulatory Advisor	
Subscribed and sworn before me	this // day of	Notary Public
1100	7	WARLY ANTHONY ! TUKA
My commission expires	pil 12 7217	My Commission Expires April 16, 2017

WW-9 (9/13)

API Number 47 -	≝ \
Operator's Well No.	Blizzard 4H

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) Gorrell Run - Middle Island Creek Quadrangle Shirley - Sec. 1	
Elevation 1008' County Tyler District Ellsworth	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used? Yes No V	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No If so, what ml.? Proposed Disposal Method For Treated Pit Wastes: Land Application	· ·
Proposed Disposal Method For Treated Pit Wastes:	.15
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. AirFresh water-vert sec/oil based mud horiz sec	
-If oil based, what type? Synthetic, petroleum, etc.Synthetic	
Additives to be used in drilling medium? emulisifier, food grade, 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 Sobi Windu	
Company Official (Typed Name) Bekki Winfree RECEIVED	
Company Official Title Sr. Regulatory Advisor Office of Oil and (3as
Subscribed and sworn before me this // day of December, 20 14 FEB 2 0 2015	
Wales And An An Notary Public - Wy Department	or 1
My commission expires April 16, 2017 Notary Public Environment of Proto My Commission expires April 16, 2017	etior 75

Form WW-9

Operator's Well No. Blizzard 4H

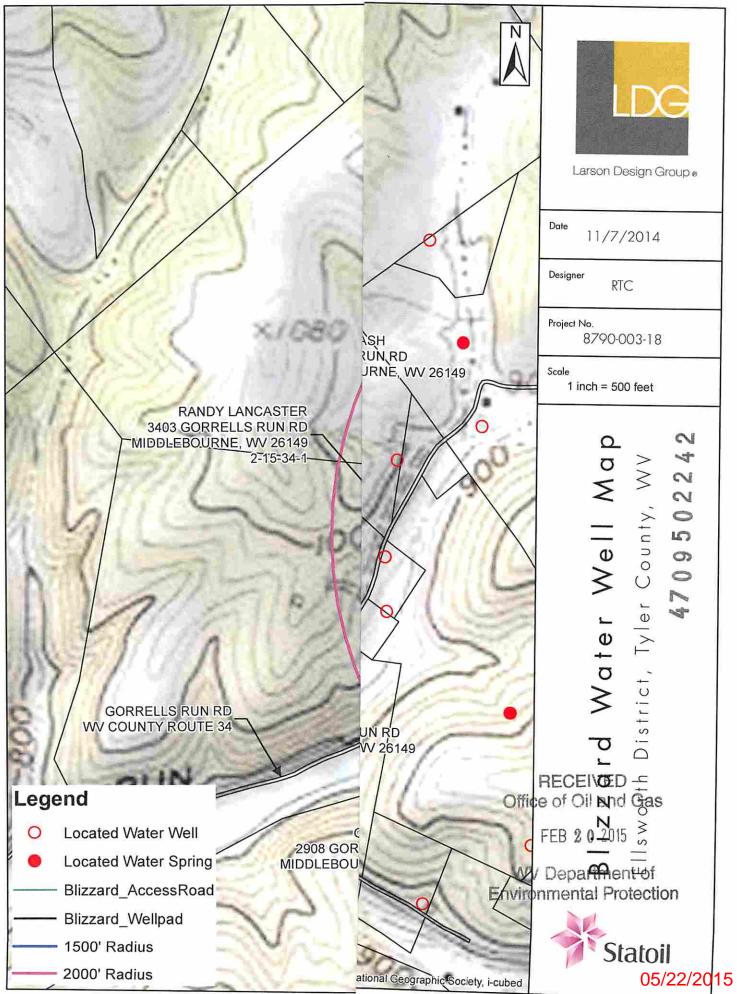
Statoil USA Onshore Properties Inc.	optimior of the first terms of t
Proposed Revegetation Treatment: Acres Disturbed 12	2.4 Prevegetation pH Unknown
Lime Tons/acre or to correct	0
Fertilizer type10-20-20	
Fertilizer amount 500	lbs/acre
2	Tons/acre
	Seed Mixtures
Temporary	Permanent
Seed Type lbs/acre	Seed Type lbs/acre
Winter Rye - 168 lbs/acre	Tall Fescue or Orchard Grass - 40 lbs/acre
Annual Ryegrass - 40 lbs/acre	Ladino Clover - 3 lbs/acre
	Redtop - 3 lbs/acre
Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Milael Doff Comments: Presend & Mulch any	y distorbed as eas per WVDSP
regulations. Maintain or upgrade	E-n-S as necessary
	RECEIVED Office of Oil and Gas
Title: Oil & Gas Inspector	Date: 1 - 8 - 15 FEB 2 0 2015
Field Reviewed? () Yes (WV Department of Environmental Protection 05/22/2015

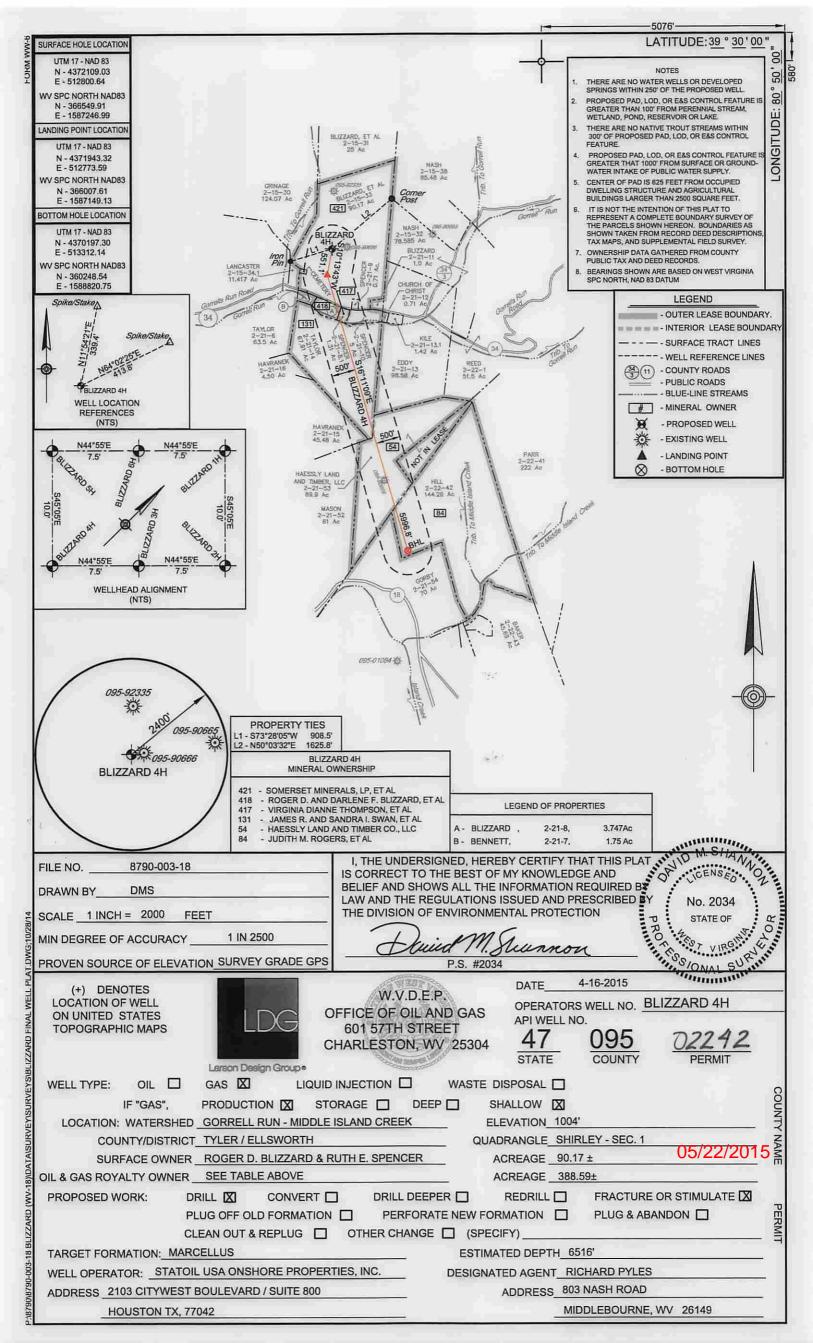


Blizzard Pad – Site Safety Plan

Statoil USA Onshore Properties, Inc.

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WW-6A1 (5/13)

Operator's Well No.	Blizzard 4H

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

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

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

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

(Please see Attachment 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

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The applicant further acknowledges that any Office of Oil and Gas permit in no way exemplation rullifies 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 Blow Windle
Its:	Prin Cons D&W Tech

Page 1 of 3

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

Blizzard #4H

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

TRACT #421

Book / Page	402/718	402/715	419/247	
Royalty	At least 1/8	At least 1/8	Assignment	
Grantee, Lessee	PetroEdge Energy, LLC	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	
Grantor, Lessor	Brenda Lea Yoho	William Baker	PetroEdge Energy, LLC	
Lease Name or Number	000161517-018	000161517-017	N/A	

TRACT #418

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000161517-003	Roger D. Blizzard and Darlene PetroEdge Energy, LLC	PetroEdge Energy, LLC	At least 1/8	399/242
	F. Blizzard, husband and wife			
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	406/147
000161517-001	Carol Craig Rich	PetroEdge Energy, LLC	At least 1/8	411/463
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	436/1

TRACT #417

Royalty Book / Page	At least 1/8 418/312	At least 1/8 411/463	Assignment 436/1
Grantee, Lessee	PetroEdge Energy, LLC △	PetroEdge Energy, LLC △	operties Inc.
Grantor, Lessor	Virginia Dianne Thompson	Carol Craig Rich	PetroEdge Energy, LLC
Lease Name or Number	000161517-010	000161517-001	N/A

TRACT #131

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115562-002	James R. and Sandra I. Swan,	ind Sandra I. Swan, PetroEdge Energy, LLC	At least 1/8	400/694
	Co-Trustees of the Swan Living Trust, dated May 10, 2004	Trust, dated May 10, 2004		
000115562-003	Nita Powell, a widow	PetroEdge Energy, LLC	At least 1/8	401/249
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	408/66

TRACT #54

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
	Haessly Land & Timber LLC	Statoil USA Onshore Properties, Inc. At least 1/8	At least 1/8	462/202
	(Lease dated 9/26/2014 – cui	ted 9/26/2014 – currently being filed of record – attached herein)	erein)	

TRACT #84

				1000
Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	BOOK / Page
000143450-005	Judith M. Rogers,	PetroEdge Energy, LLC	At least 1/8	423/53
	a widow			
000143450-009	Leslie C. Townsend,	PetroEdge Energy, LLC	At least 1/8	425/64
	a single woman			
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	436/1

MILLER LAW OFFICES, PLLC

KENNETH R. MILLER
KENNETH ALEXANDER MILLER II*

*Also Admitted in Ohio

ATTORNEYS AT LAW

936 EAST PARK AVENUE, SUITE 2
POST OFFICE BOX 2116

FAIRMONT, WEST VIRGINIA 26554
millerlawofficeswv@gmail.com
millerlawofficeswv.com

304-366-0822 FAX: 304-366-0825

January 14, 2015

Statoil USA Onshore Properties, Inc. Attn: Joshua S. Ozment, Senior Landman MAR LAN OPR 2103 City West Blvd, Suite 800 Houston, TX 77042

Re: Road Crossing Letters Requirement

Title Index No. 421

Title of Lawrence O. Price, et al.

to 95.88 acres oil and gas

waters of Elk Fork, Ellsworth District

Tyler County, West Virginia

Tax Map #15 parcel 33 and Tax Map #21 parcels 9 and 10

Dear Mr. Ozment:

Pursuant to your request, I hereby certify I have made a personal examination of the records contained in the office of the Clerk of the County Commission of Tyler County, West Virginia relative to the captioned tract, as of the 14th day of January, 2015.

State of West Virginia Ownership Under Public Roads

Based on the materials examined in the Clerk's office, the State of West Virginia is not vested with an interest in the subject oil and gas, executive right, or royalty under any public roads located within the boundary of the subject tract. I did not locate any conveyances of record to the State of West Virginia or the County Commission for roads from the owners of the oil and gas. However, the Department of Transportation might have a different opinion so it is likely wise to contact it prior to drilling under roads, if any, that overlie the subject oil and gas.

Respectfully submit Office of Oil and Gas

FEB 2 0 2015

Alex Miller

RADCLIFF PLLC

Patrick N. Radcliff Attorney at Law 1211 10th St. Vienna, WV 26105 Patrickradcliff@hotmail.com 304-295-6027

Date: February 19, 2015

Statoil North America, Inc. 2103 City West Boulevard/Suite 800 Houston, TX 77042 Attn: Joshua S. Ozment, Senior Landman MAR LAN OPR

RE: Index 418

3.747 acres, Tax Map No. 21 Parcel 8
Ellsworth District, Tyler County, WV

TITLE OPINION CONCERNING STATE ROADS

Dear Statoil:

This Title Opinion Concerning State Roads pertains to the title to the oil and gas within and under any road which is shown to traverse or border the above referenced 3.747 acre tract, Tax Map No. 21 Parcel 8. I do hereby certify that I have made a personal examination of the documents of record in the Office of the Clerk of the County Commission of Tyler County, WV, and based upon such examination I report the following state of title:

There are no documents of record containing a conveyance or transfer of the oil and gas within and underlying the subject tract to the State of West Virginia. Based solely upon the omission of any such conveyance, I conclude that the State of West Virginia has no title to the oil and gas within and under the subject tract.

This Title Opinion Concerning State Roads is limited to matters appearing of record from March 20, 1861 to February 1, 2015 and is further subject to such limitations, defects, comments and other matters which will be set forth the Original Drilling Title Opinion to be prepared by the undersigned.

RECEIVED
Office of Oil and Gas
Patrick N. Radcliff
FEB 2 0 2015

4709502242

MILLER LAW OFFICES, PLLC

KENNETH R. MILLER
KENNETH ALEXANDER MILLER II*

*Also Admitted in Ohio

ATTORNEYS AT LAW

936 EAST PARK AVENUE, SUITE 2

POST OFFICE BOX 2116

FAIRMONT, WEST VIRGINIA 26554

millerlawofficeswv@gmail.com

millerlawofficeswv.com

304-366-0822 FAX: 304-366-0825

January 30, 2015

Statoil USA Onshore Properties, Inc. Attn: Joshua S. Ozment, Senior Landman MAR LAN OPR 2103 City West Blvd, Suite 800 Houston, TX 77042

Re: Tract Index No. 417

Title of Charles M. Spencer, et al.

To 1.318 acres oil and gas

Waters of Gorrells Run, Ellsworth District

Tyler County, West Virginia

Tax Map #2-21, parcel 8.1

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

<u>Tract:</u> Tax Map #2-21, parcel 8.1, containing 1.318 acres, more or less, located in Ellsworth District, Tyler County, West Virginia, and being the same lands described in that certain Deed of record in Deed Book 397, at page 36, in Tyler County, West Virginia.

The land referred to in this document is situated on the waters of Gorrells Run, Ellsworth District, in the County of Tyler, State of West Virginia, and is described as follows:

BEGINNING at a point in the center of Gorrells Run Road and the point being the North East corner of the 3.747 acre field parcel, then with the center of Gorrells Run Road as shown on Drawing No. 2005-10806 which is made part of this description, S. 65 15 E. 43.96 feet to a point in the center of the above said road, then S. 68 52 feet to a point below the above said road, then with the said road, then with and binding on Blizzard's and Spencer's 5 acres for twe CEVED tes, S. 13 03 W. 99.00 feet to a point, then S. 25 42 W. 19 Mic 27 of Gettard Gas point on the North edge of Gorrells Run at the mouth of the North-South Run, then, with Gorrells Run, N. 62 29 W. 198.0 FEREST 2005 a point in Gorrells Run at the South East corner of the 3.747 acre field parcel, then, with and binding on the new division Windows There's of the

Environmental Protection

BP Mineral Holdings II	.00000000	01265420
LLC (.08436198 x .15)	.00000000	.01265430
1		
[L1] [L2] Waco Oil & Gas	.00000000	00117100
1	1.00000000	.00117188
Company, Inc.		
(.00781250 x .15) [L1]		
[L2]	0000000	
Ann L. Zirkle	.00000000	.01171875
(.07812500 x .15) [L7]		
Dianne S. Thompson and	.00000000	.01875000
Charles Wayne		
Thompson, as Trustees		
of the Virginia D.		
Thompson Living Trust		
(.12500000 x .15) [L6]		
Ernest M. Smith	.00000000	.00859375
$(.05729167 \times .15)$		
[L14]		
Donald A. Smith	.00000000	.00859375
$(.05729167 \times .15)$		
[L13]		
Christine E. Smith	.00000000	.00429687
$(.02864583 \times .15)$ [L4]		
Lisa Sparks Young	.00000000	.00429687
$(.02864583 \times .15)$ [L5]		
Robert C. Craig	00000000	.00531250
$(.03125000 \times .17)$ [L8]		
Carol Craig Rich	.00000000	.00531250
$(.03125000 \times .17)$ [L9]		
Flicky Homan	.00000000	.00354167
$(.02083333 \times .17)$		
[L10]		
William Thomas Harvey	.00000000	.00354167
$(.02083333 \times .17)$		
[L11]		
Pami Lynn Kranston	.00000000	.00354167
$(.02083333 \times .17)$		
[L12]		
TOTAL	1.000000	1.0000000
		RECEIVED

RECEIVED
Office of Oil and Gas

State of West Virginia Ownership Under Public Roads FEB 2 0 2015

Based on the materials examined in the Clerk's office, the State of West Virginia is not vested with an interest in the Department and gas, executive rights, or royalty under any publi Environmental Protection within the boundary of the subject tract. I arrived at this conclusion after reviewing the parcel on the tax map and noticing no county roads or turnpikes traversing it. Furthermore, there are no

conveyances of record to the State of West Virginia or the County Commission for roads from the owners of the oil and gas. However, the Department of Transportation might have a different opinion so it is likely wise to contact it prior to drilling under roads, if any, that overlie the subject oil and gas.

INSTRUMENTS AFFECTING THE MINERAL ESTATE

Unless otherwise noted, all references to Books, Pages and Instrument Numbers in this Opinion shall refer to those located in the office of the Clerk of the County Commission of Tyler County, West Virginia.

OIL AND GAS ESTATE:

OIL AND GAS LEASES

L1. OIL AND GAS LEASE

August 27, 2009 DATE:

September 1, 2009 (Memorandum Only) FILED:

RECORDED: Deed Book 369, at page 300 (Memorandum Only)

BRC Appalachian Minerals I LLC LESSOR:

BRC Working Interest Company, L.L.C. LESSEE:

The Subject Property, being part of 102 LANDS DESCRIBED:

acres, located in Ellsworth District, Tyler

County, West Virginia

25.00% oil and gas interest underlying the INTEREST COVERED:

Subject Lands

PRIMARY TERM: 6 years

The Lessee has the right to extend the RENEWAL:

primary term in accordance with the terms of

the lease

15.0% ROYALTY: POOLING: Yes

The tract is misidentified on the Exhibit as NOTE:

being located exclusively at Tax Map 15, p/o 31 and 33. In addition, the parties extended the primary term of the lease until October

16, 2015 in Deed Book 369, at page 648.

RECEIVED OIL AND GAS LEASE Office of Oil and Gas L2.

August 27, 2009 FEB 2 0 2015 DATE:

September 1, 2009 (Memorandum Only) FILED:

Deed Book 369, at page 648 WMemperarimentoly) RECORDED: BRC Appalachian Minerals LLC mental Protection BRC Working Interest Company, L.L.C. LESSOR:

LESSEE:

The Subject Property, being part of 102 LANDS DESCRIBED:

acres, located in Ellsworth District, Tyler

County, West Virginia



OIL, GAS & MINERAL LAW

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

December 15, 2014

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

Attention:

Joshua S. Ozment

Senior Landman

Re:

Tract Index No. 131 - Prospect No. 20140127.6

Blizzard #2 S Unit - Tax Parcel No. 2-21-14

Swan Living Trust, et al 67.91 acres

Ellsworth District

Tyler County, West Virginia

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tax Parcel No. 2-21-14, containing 67.91 acres, more or less, out of Ellsworth District in Tyler County, West Virginia, and being the same land described as the First Tract in a Deed, dated January 13, 2012, from Gregory F. Taylor, Mark E. Taylor, Carla M. Babe and Jack E. Taylor to Carl E. Taylor and wife, Elsie M. Taylor, recorded in Book 391, Page 181, Office of the Clerk of the County Commission, Tyler County, West Virginia.

The above lands are hereinafter referred to as the Subject Lands, and a map depicting the approximate location of the Subject Lands is attached to this Opinion as Exhibit "A."

OWNERSHIP

Based upon our examination of the materials referenced below in Exhibit "B," and subject to the comments, objections, requirements, and limitations hereinafter set forth, we find title to the Subject Lands, for the period of time from June 5, 1843 to October 8, 2014, to vest as follows:

Office of Oil and Gas

FEB 2 0 2015

Statoil North America, Inc. December 15, 2014 Page 4

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.

INSTRUMENTS AFFECTING THE MINERAL ESTATE

Unless otherwise noted, all references to Books, Pages and Instrument Numbers in this Opinion shall refer to the public records of the Office of the Recorder of the county in which the Subject Lands are situated.

OIL AND GAS ESTATE:

OIL AND GAS LEASES

<u>L1</u> OIL AND GAS LEASE

DATE: May 9, 2011

June 24, 2011 (Memorandum Only) FILED: Book 384, Page 462 (Memorandum Only) RECORDED:

Kathryn Martin Snodgrass and William Snodgrass, her husband LESSOR:

LESSEE: PetroEdge Energy LLC

The Subject Lands, being Tax Parcel No. 2-21-14, located in LANDS DESCRIBED:

Ellsworth District, Tyler County, West Virginia

None. See Objection and Requirement No. 5 below. **INTEREST COVERED:**

5 years PRIMARY TERM: RENEWAL: None

ROYALTY: One-eighth (1/8)

See Objection and Requirement No. 5 below. **EXAMINER'S NOTE:**

L2 OIL AND GAS LEASE

DATE: August 20, 2012

September 19, 2012 (Memorandum Only) FILED: RECORDED: Book 400, Page 694 (Memorandum Only)

James R. Swan and Sandra I. Swan, Co-Trustees of The Swan LESSOR:

Living Trust, dated May 10, 2004

PetroEdge Energy LLC LESSEE:

The Subject Lands, being Tax Parcel No. 2-21-14 located in Ellsworth District, Tyler County, West WHEN ELLS LANDS DESCRIBED:

13/16 oil and gas interest under Office the Cile 12 Gands INTEREST COVERED:

> INSOFAR ONLY as said lands cover and include all depths and formations from the stratigraphic February aler 15 of 250'

RADCLIFF PLLC

Patrick N. Radcliff Attorney at Law 1211 10th St. Vienna, WV 26105 patrickradcliff@hotmail.com 304-295-6027

Date: October 17, 2014

TYLER
INDEX # 54

Statoil North America, Inc. 2103 City West Boulevard/Suite 800 Houston, TX 77042 Attn: Joshua S. Ozment, Senior Landman MAR LAN OPR

> RE: Haessly Land and Timber, LLC 75.25 acres, Ellsworth District

> > Tyler County, WV

Index 54, p/o Tax Map 21 Parcel 53

FINAL TITLE OPINION

Dear Statoil:

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 Tyler County, West Virginia, and the Sheriff's Office of Tyler 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

 Unrecorded Memorandum of Oil and Gas Lease dated September 26, 2014, by and between Haessly Land and Timber, LLC, Lessor, and Statoil USA Onshore Properties, Inc, a corporation, Lessee, upon a tract said to contain 75.25 acres, situate in Ellsworth District and further described as being Map 21, part of Parcel 53 and further described as property conveyed to the lessor by Deed of record in Deed Book 3378 at page 101A.

Office of Oil and Gas

FEB 2 0 2015

E. LIENS AND ENCUMBRANCES

1. 2014 Real Property taxes are paid. 2015 Real property taxes are a lien upon the oil and gas although not yet due, ascertainable and payable. The subject lease is subject to said lien which has priority over all other liens or transfers of or upon the oil and gas interest.

F. INTERESTS OF STATE OF WVA IN ROADS AND EASEMENTS

- 1. According to the county tax maps, there appear to be no county roads or roads which could be identified as turnpikes traversing or bordering the subject tracts.
- 2. There are no conveyances of record to the State of West Virginia or the County Commission (formerly Court) for roads or other easements from the owners of the oil and gas during the period of this search.
- 3. Therefore, the State holds no interest in the oil and gas underlying the subject property which would affect the subject lease.

NOTE: However, the tax maps indicate that a road, identified as Route 18 lies close to and southwest of the subject tracts and is accessible by a private right of way. It is believed that this Route 18 was formerly known as the Sistersville to Salem Turnpike.

Upon consultation with legal staff of the West Virginia Department of Transportation, it appears that the position of the State of West Virginia is that any country road taken into the state highway system by the 1933 act of the legislature and subsequent acts to include 1963 or any road labeled by the Department as an "Ancient Turnpike", includes the minerals underlying said road. However, a final determination cannot be made until all necessary information is presented to it.

Accordingly, if Statoil intends to drill under said road, it is recommended that a request for determination be made to the West Virginia Department of Transportation by email addressed as follows: brenda.c.ellis @wv.gov cc containing relevant information such as road name and location. The contact person for the Department is Eric B. Hudnall, ph. 304-558-0444.

The identification of the ownership of the minerals, including the oil and gas, underlying said road is subject to the determination made by the West Virginia Department of Transportation or as ultimately determined by a court of law.

G. RIGHTS OF WAY

RECEIVED

The following rights of way were granted by owners of the surface but could affect oil Gas and gas operations: FEB **20** 2015

4

MILLER LAW OFFICES, PLLC

KENNETH R. MILLER
KENNETH ALEXANDER MILLER II*

*Also Admitted in Obio

ATTORNEYS AT LAW

936 EAST PARK AVENUE, SUITE 2
POST OFFICE BOX 2116

FAIRMONT, WEST VIRGINIA 26554
millerlawofficeswv@gmail.com
millerlawofficeswv.com

304-366-0822 FAX: 304-366-0825

November 14, 2014

Statoil Gulf Services, LLC Attn: Joshua S. Ozment, Senior Landman MAR LAN OPR 2103 City West Blvd, Suite 800 Houston, TX 77042

INDEX # 84

Re: Title of James H. Hill Residuary Trust, et al. to 144.2625 acres oil and gas waters of Elk Fork, Ellsworth District Tyler County, West Virginia

Tax Map #22, parcel 42

Dear Mr. Ozment:

Pursuant to your request, I hereby certify I have made a personal examination of the records contained in the office of the Clerk of the County Commission and Sheriff's Office of Tyler County, West Virginia relative to the captioned tract, as of the 1st day of May, 2014. Said records were delivered to me by your agents and are subject to those disclosures and omissions in the indices and documents of record. Additionally, the opinions recited herein are based upon the assumption of the genuineness of the instruments examined, including signatures and notarial certificates.

My examination includes an inquiry into the following matters of record affecting title to this tract, to wit: adverse conveyances, unreleased deeds of trust, judgment liens, executions, lis pendens, mechanics liens, delinquent taxes for the past five years, federal and state tax liens and any liens arising from levies by municipal, county or state governments which appear in the general lien index in said Clerk's office. Real property taxes for the current taxable year have also been subject to inquiry and are reported, subject to the accuracy of the information provided by the aforesaid ECONTYPO Sheriff's Office.

This certificate is subject to the following matter FEBT \$600 to which are encumbrances upon the subject tract or defects in title.

- (a) There are easements and rights of way of record.
- (b) Rights of entry and development by the coal owners.
- (c) Conveyances in the chain of title could have resulted in overlaps, discrepancies in acreage or other encroachments upon the subject tract which might affect the use or enjoyment thereof. To the extent possible these matters should be investigated through physical inspection and survey.
- (d) The use of this tract by the surface owners is subject to the rights reserved by predecessors in title as to the minerals, subject to certain exceptions contained in the actual documents comprising the chain of title and applicable statutes enacted in this regard.
- (e) This certificate is made subject to what would be shown by a complete physical inspection of the premises and an accurate survey and assumes proper access to said property.

All real estate taxes for the previous five years have been examined for delinquencies and the records of the lands sold for delinquent real estate taxes indicate no unredeemed sales of said property.

Subject to the foregoing, I hereby certify that I have examined the title upon the above-referenced property and report the following state of title:

SCHEDULE A

- 1. The estate or interest in the land described or referred to in this document is: Fee Simple.
 - 2. Title to the estate or interest is vested as follows:

State of West Virginia Ownership Under Public Roads

Based on the materials examined in the County Clerk's office, the State of West Virginia is not vested with an interest in the subject oil and gas, executive rights, or royalty under corollary contact of Oil and Gas

(a) SURFACE:

FEB 2 0 2015

22.2222% (2/9) of the surface overlying the 144.26 acre oil and gas tract is owned by Elsie Lorna McIntyre Hill, Trive epartment of Environmental Protection

API No. 47-____-

Date of Notice Certification: 10/21/2014

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

		-	erator's Well No. 4H	
N-4! 1 1	h	Wel	II Pad Name: Blizzard	
Notice has I		: 22.64 the Operator has provided	l the meassined mentice s	uith the Nietles Fermes listed
	ne provisions in West Virginia Code { tract of land as follows:	22-6A, the Operator has provided	i the required parties v	vith the Notice Forms listed
State:	West Virginia	Fac	ting: 512800.64 m	
County:	Tyler		thing: 4372109.03 m	
District:	Elisworth	Public Road Access:	Gorreils Run Roa	
Quadrangle:	Shirley - Sec. 1	Generally used farm r		
Watershed:	Gorrell Run - Middle Island Creek		idilio.	
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 sign the owners of the surface described 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 thave been completed by the applicant	hall contain the following informa- bed in subdivisions (1), (2) and (ction sixteen of this article; (ii) that rvey pursuant to subsection (a), so this article were waived in write ender proof of and certify to the se	tion: (14) A certification (4), subsection (b), see at the requirement was section ten of this articing by the surface ow	on from the operator that (intion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require ECK ALL THAT APPLY		lotice Certification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO		RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or 🔳 NO PLAT SURVEY V	WAS CONDUCTED	RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLAY WAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY S (PLEASE ATTACH)	SURFACE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			RECEIVED
■ 5. PUE	BLIC NOTICE			RECEIVED
■ 6. NO	TICE OF APPLICATION			RECEIVED
Required A	ttachments:			

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 fine Office Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under present to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

WV Department of

Environmental Protection

By:

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 Winfreel Webl Winf

Its: Sr. Regulatory Advisor

Telephone: 713-485-2640

Address: 2103 City West Boulevard, Suite 800

Houston, TX 77042

Facsimile: 713-918-8290

Email: BEKW@Statoil.com

NOTARY SEAL

WALLY ANTHONY STUKA
My Commission Expires
April 16, 2017

Subscribed and sworn before me this 5 day of January 2015.

ly Arty to No

My Commission Expires April (6, 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 deprivacyofficer@wv.gov.

RECEIVED
Office of Oil and Gas

FEB 2 0 2015

API NO. 47-	.	
OPERATOR WE	ELL NO.	
Well Pad Name:	Blizzard 4H	

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 12/15/2014 Date Permit Application Filed: 01/05/2015 Notice of: ✓ PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ REGISTERED ☐ PERSONAL ✓ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to: ☑ SURFACE OWNER(s) COAL OWNER OR LESSEE Name: Roger Dale Blizzard Name: Roger Dale Blizzard Address: 3135 Gorrells Run Road Address: 3135 Gorrells Run Road Middlebourne, WV 26149 Middlebourne, WV 26149 ☐ COAL OPERATOR Name: Ruth Spencer Address: 3085 Gorrells Run Road Name: Middlebourne, WV 26149 Address: ☐ SURFACE OWNER(s) (Road and/or Other Disturbance) SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) Address: Name: Randy Lancaster Address: 3403 Gorrells Run Road Name: Middlebourne, WV 26149 Address: OPERATOR OF ANY NATURAD GAS STORAGE SIELD ☐ SURFACE OWNER(s) (Impoundments or Pits) Name: Name: Address: FEB 2 0 2015 Address: *Please attach additional forms if necessary WV Department of

Environmental Protection

API NO. 47-	4 1
OPERATOR WE	ELL NO.
Well Pad Name:	Blizzard 4H

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

API NO. 47		
OPERATOR WELL NO.		
Well Pad Name: Blizz	ard 4H	

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

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

FEB 20 2015

WV Department of Such persons may request, at the time of submitting written comments, notice of the permit decision in the property of the permit decision in the permit decisio

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

API NO. 47-	*	
OPERATOR W	ELL NO.	_
Well Pad Name:	Blizzard 4H	

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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Office of Oil and Gas

FEB 2 0 2015

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API NO. 47-OPERATOR WELL NO. Well Pad Name: Blizzard 4H

Notice is hereby given by:

Well Operator: Statoil USA Onshore

Telephone: 713-918-8200 Email: BEKW@Statoil.com

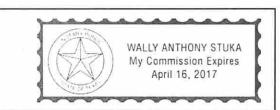
Address: 2103 CityWest Blvd., Building 4, Suite 800

Houston, Texas 77042

Facsimile: 913-918-8290

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this S day of January Zols.

Wally And Notary Public

My Commission Expires April 16, 2017

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Blizzard 4H WW-6A

Additional Coal Owner:

Ruth Spencer 3085 Gorrells Run Road Middlebourne, WV 26149

Additional Surface Owner of Water Well and/or Water Purveyor(s):

Gary Bennett 2908 Gorrells Run Road Middlebourne, WV 26149

Ruth Spencer 3085 Gorrells Run Road Middlebourne, WV 26149

Roger Blizzard 3135 Gorrells Run Road Middlebourne, WV 26149

Christy Kile 3226 Gorrells Run Road Middlebourne, WV 26149

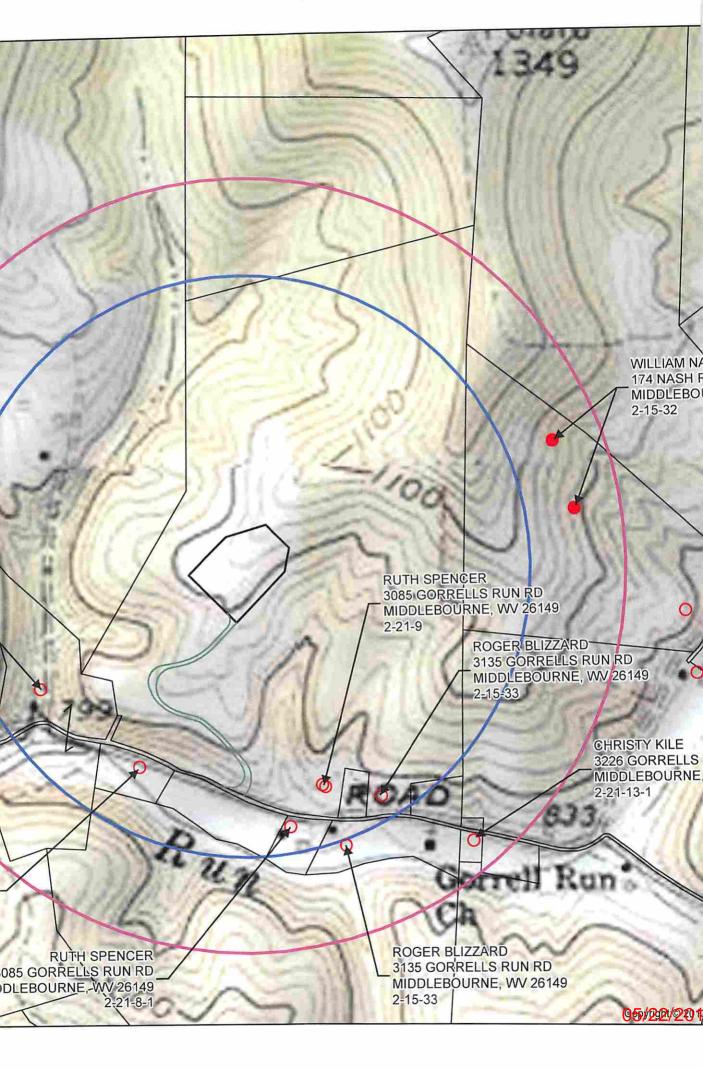
William Nash 174 Nash Run Road Middlebourne, WV 26149

Office of Oil and Gas

Office of Oil and Gas

FEB 20 2015

WV Department of Environmental Protection



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

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

0.1.10(11)		,
Notice Time Date of Notic		provided at least TEN (10) days prior to filing a permit application. Date Permit Application Filed: 01/05/2015
Delivery met	hod pursuant to West Virgini	a Code § 22-6A-16(b)
☐ HAND	■ CERTIFIED M	(AII.
DELIVE		CEIPT REQUESTED
receipt reques drilling a hori of this subsec subsection ma	sted or hand delivery, give the state of the state of the date the notice was be waived in writing by the state of the sta	east ten days prior to filing a permit application, an operator shall, by certified mail return surface owner notice of its intent to enter upon the surface owner's land for the purpose of otice given pursuant to subsection (a), section ten of this article satisfies the requirements as provided to the surface owner: <i>Provided, however</i> , That the notice requirements of this surface owner. The notice, if required, shall include the name, address, telephone number, onic mail address of the operator and the operator's authorized representative.
	reby provided to the SURF	
Name: Roger Da		Name: Ruth Spencer
***************************************	Gorrells Run Road	Address: 3085 Gorrells Run Road
Middleboume, W	V 26149	Middlebourne, WV 26149
State: County: District:	West Virginia Tyler Ellsworth	UTM NAD 83 Easting: -512800.64
Quadrangle: Watershed:	Shirley - Sec. 1 Gorrell Run - Middle Island Creek	Generally used farm name: Blizzard Farm
This Notice Pursuant to V facsimile nun related to hor	nber and electronic mail addressized and electronic mail addressized and electronic may be obtained.	16(b), this notice shall include the name, address, telephone number, and if available, ass of the operator and the operator's authorized representative. Additional information and from the Secretary, at the WV Department of Environmental Protection headquarters, V 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx .
Notice is he	reby given by:	-10
Well Operato		Authorized Representative: Bekki Wightee GaS
Address:	2103 CityWest Blvd. Building 4, Sui	te 800 Address: 2,103 CityWest Blvd. Building 4, Suite 800
Houston, Texas 7	77042	Houston, TX 77042
Telephone:	713-918-8200	Telephone: 01/10 713-918-8200 2013
	BEKW@Statoil.com	Email: BEKW®Statoil.com
Facsimile:	713-918-8290	Facsimile: 713-918-8290 - 1007
Oil and Gas	s Privacy Notice:	Email: Facsimile: BETWO Statoil.com 713-918-8290 When the part of our regulatory

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 47 0 9 5 0 2 2 4 2

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time I Date of Notice	Requirement: notice shall be provided no later the: 12/15/2014 Date Permit Application			application.
Delivery meth	nod pursuant to West Virginia Code § 22-6A-1	6(c)		
	IED MAIL HAND N RECEIPT REQUESTED DELIV			
return receipt of the planned of required to be drilling of a hand	Va. Code § 22-6A-16(c), no later than the dat requested or hand delivery, give the surface owner peration. The notice required by this subsection provided by subsection (b), section ten of this art orizontal well; and (3) A proposed surface use a surface affected by oil and gas operations to the surface that is required by this section shall be given to the surface.	er whose land n shall inclu- cicle to a surf- and compens extent the da	I will be used fo de: (1) A copy ace owner whose ation agreement amages are comp	r 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.
	Gorrells Run Road	Name: Address	Ruth E. Spencer 3: 3085 Gorrells Run I urne, WV 26149	Road
operation on t State:	est Virginia Code § 22-6A-16(c), notice is hereby he surface owner's land for the purpose of drillin		l well on the trac Easting:	ct of land as follows: -512800.64
County:	Tyler		Northing:	-4372109.03
District:	Selfico Associator	Public Road		County Road 34
Quadrangle: Watershed:	Shirley - Sec. 1 Gorrell Run - Middle Island Creek	Generally use	ed farm name:	Blizzard Farm
to be provided horizontal well surface affected information re	est Virginia Code § 22-6A-16(c), this notice shall describe by W. Va. Code § 22-6A-10(b) to a surface of l; and (3) A proposed surface use and compensate describe by oil and gas operations to the extent the date dated to horizontal drilling may be obtained fro located at 601 57 th Street, SE, Charleston, Vault.aspx.	owner whose tion agreeme mages are co im the Secret	e land will be unt containing an ompensable undurary, at the WV (304-926-0450)	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
Telephone:	713-918-8200		Houston, Texas 7704	42
Email:	BEKW@Statoil.com	Facsimile:	713-918-8290	
The Office of duties. Your preeded to con	Privacy Notice: Oil and Gas processes your personal information personal information may be disclosed to other mply with statutory or regulatory requirement secure your personal information. If you have an Privacy Officer at depprivacyofficer@wv.gov.	State agencies, including	es or third partic	es in the normal course of business or as formation Act, requests. Our office will
				05/00/004



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Earl Ray Tomblin Governor

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

October 30, 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 Blizzard Pad Tyler County Blizzard 4H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit # 06 -2014-0557 for the subject site to Statoil USA Onshore Properties Inc. for access to the State Road for the well site located off of Tyler County Route 34 SLS.

The operator has signed a STATEWIDE 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

Regional Maintenance Engineer Central Office Oil and Coordinator Office of Oil and

FEB 20 2015

WV Department of Environmental Protection

Cc: Jarad Guynes

Statoil USA Onshore Properties Inc.

CH, OM, D-6

File

Frac Additives

BIO CLEAR 2000

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

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FEB 20 2015
WV Department of
Environmental Protection

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

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Office of Oil and Gas

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PROJECT NO 8790-0 Ю

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ACCESS HOAD SECTIONS
WELL PAD SECTIONS AND GEOTEOMICAL DETAINS
CONSTRUCTION DETAILS

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WEST VIRGINIA COUNTY MAP

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CYCRALL PLAN SHEET HORY & VOLUMES EROSION & SEDMENTATION CONTROL PLAN CONSTRUCTION AND EAS CONTROL NOTES

EXSTING CONDITIONS COMP SHEET

WELL PAD GRADING PLAN AND FACILITY LAYOUT

BLIZZARD (WV-18) WELL PAD EROSION AND SEDIMENT CONTROL PLANS SITE DESIGN AND CONSTRUCTION PLANS





APPROVED

Electronic Version of These Plans May Be Viewed at: Q:\OIL GAS\SAY FILES\REVIEWS

ELLSWORTH DISTRICT, TYLER COUNTY, WEST VIRGINIA MIDDLE ISLAND CREEK WATERSHED

USGS 75 SHRLEY 4 PORTERS FALLS OUAD MAPS

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API#9502231 API#9502242 API#9502216

CONTROL OF WELL PAD

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CHARLOWAND AND MISS.

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AND CHARLOW CHARLOW AND CHARLOW CHARLOW AND CHARLOW A

DEERATOR. STATOR. 2103 CHY MEST REVO., SUITE BOD FROMS (713) 919–9200

CLINT LONG - MANAGON, GIVE, CONSTRUCTION DEFICE (713) 465-2817

CHGHCTP/SUBW.TOR.
CARSON DESCH GROUP, INC.
DHYAN W. PALLING - DELCT
OFF.CE. (\$10) 323-6603

(570) 220-7482 CELL

PONDS, OR RESERVORS WITHIN 100 FEET OF MESTRECTURE HOTES.

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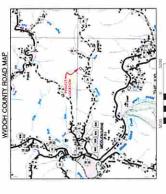
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05/22/2015

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MISS Utility of West Virginio 1-1800-255-4888 West Virginio State Law (Section NY Chapter 24-C) Recurres that you call two business days before you dig in the state of West Virginia ITS THE LAW!

51-2 AUDIOUTION 51-34

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