



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

October 27, 2015

WELL WORK PERMIT
Horizontal 6A Well

This permit, API Well Number: 47-9502302, 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

Chief

Operator's Well No: YURIGAN 2H

Farm Name: STATOIL USA ONSHORE PROPEI

API Well Number: 47-9502302

Permit Type: Horizontal 6A Well

Date Issued: 10/27/2015

Promoting a healthy environment.

10/30/2015

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

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



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Charleston, WV 25304
(304) 926-0450 fax (304) 926-0452

Earl Ray Tomblin, Governor
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www.dep.wv.gov

**ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A**

TO: Statoil USA Onshore Properties, Inc.
2107 City West Boulevard, Suite 800
Houston TX, 77042

DATE: September 25, 2015
ORDER NO.: 2015-W-11

INTRODUCTION

This Order (hereinafter “Order”) is issued by the Office of Oil and Gas (hereinafter “OOG”), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to Statoil USA Onshore Properties, Inc. (hereinafter “Statoil” or “Operator”), collectively the “Parties.”

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. Statoil is a “person” as defined by W. Va. Code §22-6-1(n), with a corporate address as 2107 City West Boulevard, Suite 800, Houston, Texas.
3. On July 31, 2015, August 3, 2015 and August 5, 2015 Statoil submitted well work permit applications identified as API#s 47-095-02299, 47-095-02300, 47-095-02301, 47-095-02302 and 47-095-02303. The five proposed wells are to be located on the Yurigan Pad in Ellsworth District of Tyler County, West Virginia.
4. On July 31, 2015, Statoil requested a waiver for Wetland #1 as outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for well work permit applications identified as 47-095-02299, 47-095-02300, 47-095-02301, 47-095-02302 and 47-095-02303.

10/30/2015

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “[i]n addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to... (3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”

2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”

3. West Virginia Code §22-6A-12(b) requires, in part, that “[n]o 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 Office of Oil and Gas 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 Office of Oil and Gas 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.”

ORDER

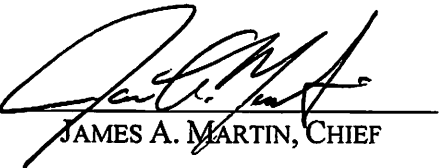
West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetland #1 from well location restriction requirements in W. Va. Code §22-6A-12(b) for well work permit applications identified as API#s 47-095-02299, 47-095-02300, 47-095-02301, 47-095-02302 and 47-095-02303. The Office of Oil and Gas hereby **ORDERS** that Statoil shall meet the following site construction and operational requirements for the Yurigan well pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least eighteen inches (18”) in height;
- b. Filter/silt socks shall be installed on all slopes and down gradient locations of the pad and topsoil pile areas as erosion and sediment controlling BMPs;
- c. Wetland #1 shall have a 32” compost filter sock backed by super silt fence installed adjacent to the wetland;
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½”) rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 25th day of September, 2015.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By: 
JAMES A. MARTIN, CHIEF

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

1) Well Operator: Statoil USA Onshore Properties 494505083 Tyler Ellsworth Shirley - Sec. 3
Operator ID County District Quadrangle

2) Operator's Well Number: 2H Well Pad Name: Yurigan

3) Farm Name/Surface Owner: Yurigan Farm/Joseph Yurigan, Jr. Public Road Access: CR 34

4) Elevation, current ground: 1260 Elevation, proposed post-construction: 1244

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other 1260

(b) If Gas Shallow Deep _____

Horizontal

Michael Goff
7/17/15

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Marcellus, Formation Top 6914' TVD, 51' thick, 4500 psi

8) Proposed Total Vertical Depth: 6923' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15147'

11) Proposed Horizontal Leg Length: 8019'

12) Approximate Fresh Water Strata Depths: 313' TVD

13) Method to Determine Fresh Water Depths: 1980 study "Freshwater & Saline Groundwater Study of WW" by James Foster

14) Approximate Saltwater Depths: 663' TVD

15) Approximate Coal Seam Depths: 438'

16) Approximate Depth to Possible Void (coal mine, karst, other): NA

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

Received
Office of Oil & Gas

AUG 05 2015

WW-6B
(10/14)

09502302
API NO. 47- _____
OPERATOR WELL NO. 2H _____
Well Pad Name: Yurigan _____

18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	Cement to Surface-150 cuft
Fresh Water	13.375"	New	J-55	54.4#	373'	373'	Cement to surface-339 cuft
Coal	NA	---	---	---	---	---	---
Intermediate	9.625"	New	J-55	36#	2641'	2641'	Cement to surface-1063 cuft
Production	5.5"	New	P-110	20#	15147'	15147'	Cement to 1641'-3440 cuft
Tubing	2.375"	New	L-80	4.7#	---	---	---
Liners	NA	---	---	---	---	---	---

MAG
2/17/15

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	26"	.438"	1530 psi	---	Class A	1.3 cuft/sk
Fresh Water	13.375"	17.5"	.380"	2730 psi	234	Class A	2.31 cuft/sk
Coal	NA	---	---	---	---	---	---
Intermediate	9.625"	12.25"	.352"	3520 psi	2016	Class A	2.31 cuft/sk
Production	5.5"	8.5"	.361	12640 psi	10000	Class A	1.29 cuft/sk
Tubing	2.375"	5.5"	.19"	11200 psi	3776	---	---
Liners	NA	---	---	---	---	---	---

PACKERS

Kind:	HES Versa-Set Retrievable Packer			
Sizes:	2.375" x 5.5"			
Depths Set:	6700'			

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Office of Oil & Gas

AUG 05 2015

WW-6B
(10/14)

09502302
API NO. 47-

OPERATOR WELL NO. 2H

Well Pad Name: Yurigan

MAC
7/17/15

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 be hydraulically fracture stimulated via the plug-n-perf method with +/- 35 stages per well. Each fracturing treatment will utilize approximately 390,000 lbs of sand and 7,500 bbls of fresh water. The fracturing rate will range between 75 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): 12.2 acres

22) Area to be disturbed for well pad only, less access road (acres): 3.58 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

Received
Office of Oil & Gas
AUG 05 2015

*Note: Attach additional sheets as needed.

WW-6B – Yurigan 2H

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 330' 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 ¼" intermediate hole section will be drilled with 5% KCL Polymer (WBM) and a conventional mud motor to approximately 2317' 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 15129' md/ 6,917' vd using SBM and conventional mud motors. A 5 ½" production casing will be installed and cemented so estimated top of cement is at least 300ft inside the previous casing shoe. The Drilling Rig will then be released to the next well.

23) Describe centralizer placement for each casing string:

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

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

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

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

Surface - Class A + 3% CaCl₂

Intermediate - Class A + 3% CaCl₂

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.

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 air/mist and to TD and filled with 5% KCL Polymer Water Based Mud (WBM) at section total depth. At section total depth, pump 40bbl viscous pill and circulate hole clean.

WW-6B – Yurigan 2H

Production - Drilled with 12.0-12.5 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.



Marcellus - Drilling Well Schematic

95-02307

Well Name: Yurigan 2H
 Field Name: Marcellus
 County: Tyler
 API #: 0

BHL: _____
 SHL: _____
 X = 1700284.2
 X = 1702737.4

GLE (ft): 1,241
 DF (ft): 22
 Y = 14351777.0
 Y = 14343608.2

TVD (ft): 6,923
 TMD (ft): 15,147
 Profile: Horizontal
 AFE No.: PERMITTING

Formations & Csg Points	Depth, ft			Form. Temp. (F)	Pore Press. (EMW)	Frac Gradient (EMW)	Planned MW	Measure Depth (ft)	Program	Details
	MD	TVD	SS							
<i>Conductor</i>	100	100	1,163	-	-	-	-	100		20" Conductor
							FW			17-1/2" Surface
							9.2			Profile: Vertical
							9.2			Bit Type: 17-1/2" PDC
										BHA: 9 5/8" 6/7 5.0 .13 RPG
										Mud: 9.2 ppg Fresh Water
										Surveys: n/a
										Logging: n/a
										Casing: 13.375 54.5 J-55 BTC at 373' MD/373' TVD
										Centralizers: 1 centralizer w/ stop collar 10 ft above float shoe. One Single Bow every joint to 100ft below surface.
										Cement: 15.8 ppg Tail slurry w/ TOC @ Surface
										Potential Drilling Problems: Stuck Pipe, Floating, Collision
Approximate Fresh Water Strata ~313'										
<i>Casing Point</i>	373	373	890	65	-	-	-	373		
Washington Coal		438					Air/Mist			FIT/LOT: 14.0 ppg EMW
1st Salt Sand		666								Profile: Nudge and hold for anticollision
										Bit Type: 12-1/4" Hughes VG-35ADX1 (IADC:547)
										BHA: Powerline 1.83; 7/8 lobe; 2.5stg; .07rpg
										Mud: - ppg Air/Mist
										Surveys: Gyro SS, MWD - EM Pulse
										Logging: n/a
										Casing/Liner: 9.625 36 J-55 BTC at 2641' MD/2641' TVD
										Csg Hanger: Fluted Mandrel Hanger
										Centralizers: 1 centek centralizer w/ stop collar 10 ft above float shoe. 1 centek centralizer w/ stop collar 10 ft above float collar. 1 centralizer every joint for the first 15 joints. One centralizer every 3 jnts to 100ft below surface.
										Cement: 15.8 ppg Tail slurry w/ TOC @ Surface
										Potential Drilling Problems: Hole Cleaning, Poor ROP, Connections, Bit Preservation
<i>Casing Point</i>	2,641	2,641	-1,378	82	-	>18.0	-	2,641		
Weir		2,725					Air/Mist			FIT: 15.8 ppg EMW
Berea Sand		2,893					Air/Mist			Profile: 8-3/4" Hughes VG-30ADX1 (IADC: 547) - Vert
Gordon Sand		3,115					Air/Mist			Bit Type: 8-3/4" SMITH SDI516 - C&L
Warren		3,697					Air/Mist			BHA: 6.75in 7-8 lobe 2.9 stg 1.5 ABH (0.17 rpg 560 DIFF) - Vert
Benson		5,308					Air/Mist			6.75in 4/5 lobe 7.0 stg 1.95 FBH (0.5 rpg, 1000 DIFF) - C&L
Undiff Shales		5,350					Air/Mist			Mud: Air in the Vertical & 12.7 ppg SBM in the Curve & Lateral
										Surveys: MWD - EM Pulse w/ 30ft surveys in curve, 100ft surveys in lateral
										Logging: GR
										Casing/Liner: 5.5 20 P110EC VAM TOP HT at 15188 ft MD/6958 ft TVD
										Csg Hanger: Fluted Mandrel Hanger
										Centralizers: 1 centek centralizer w/ stop collar 10ft above shoe. 1 centek centralizer 10ft above float collar. 1 centek centralizer every joint (floating) until KOP. 1 centek centralizer every 3 joints (floating) until 200ft inside intermediate shoe. 1 centek centralizer 50ft below mandrel hanger.
										Cement: 15 ppg Tail slurry w/ TOC @ 1641'vd
										Potential Drilling Problems: Bit Preservation, Hole Cleaning, Achieving DLS, Unfamiliarity w/ Tools
										Notes / Comments:
<i>Landing point</i>	7,256	6,923					12.0-12.5			TMD: 15,147
										TVD: 6,923
Cherry Valley		7,026					12.0-12.5			
Onondaga		7,051					12.0-12.5			

Last Revision Date: 9/16/2015
 Revised by: Ryan Cardenas

Note: Depths are referenced to RKB
 Note: Not Drawn to Scale

Cement Outside Casing

10/30/2015

Yurigan 2H Well Schematic

WW-9
(2/15)

API Number 47 - 09502302
Operator's Well No. Yurigan 2H

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) Elk Fork Quadrangle Shirley - Sec. 3

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

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 Green Hunter API 34-121-23195)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

*MDC
7/17/15*

Will closed loop system be used? If so, describe: Yes

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Oil/Fresh Water/vert sec./oil based mud for horiz sec

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? emulsifier, 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

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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 *Bekki Winfree*

Company Official (Typed Name) Bekki Winfree

Company Official Title Sr. Regulatory Advisor

Subscribed and sworn before me this 15 day of July, 2015

Shirley Ryan-Ameller

My commission expires 3-26-2016

Received
Office of Oil & Gas
AUG 05 2015
Notary Public
SHIRLEY RYAN-AMELLER
Notary Public, State of Texas
My Commission Expires
March 26, 2016

10/30/2015

09502302

Form WW-9

Operator's Well No. Yurigan 2H

Statoil USA Onshore Properties Inc.

Proposed Revegetation Treatment: Acres Disturbed 8.35 Prevegetation pH Unknown

Lime 3 Tons/acre or to correct to pH 6

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 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

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Michael Doff

Comments: Preseed & Mulch any disturbed areas per WVD&P regulations. Maintain & upgrade E-r-s as necessary.

Title: Oil & Gas Inspector

Date: 7/17/15

Field Reviewed? Yes No

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10/30/2015

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Michael Loff
7/17/15

Yurigan Pad 2H – Site Safety Plan

Statoil USA Onshore Properties, Inc.

Received
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AUG 05 2015

10/30/2015

09502302



Larson Design Group

Date 8/20/2014

Designer RTC

Project No. 8790-003-6

Scale 1 inch = 500 feet

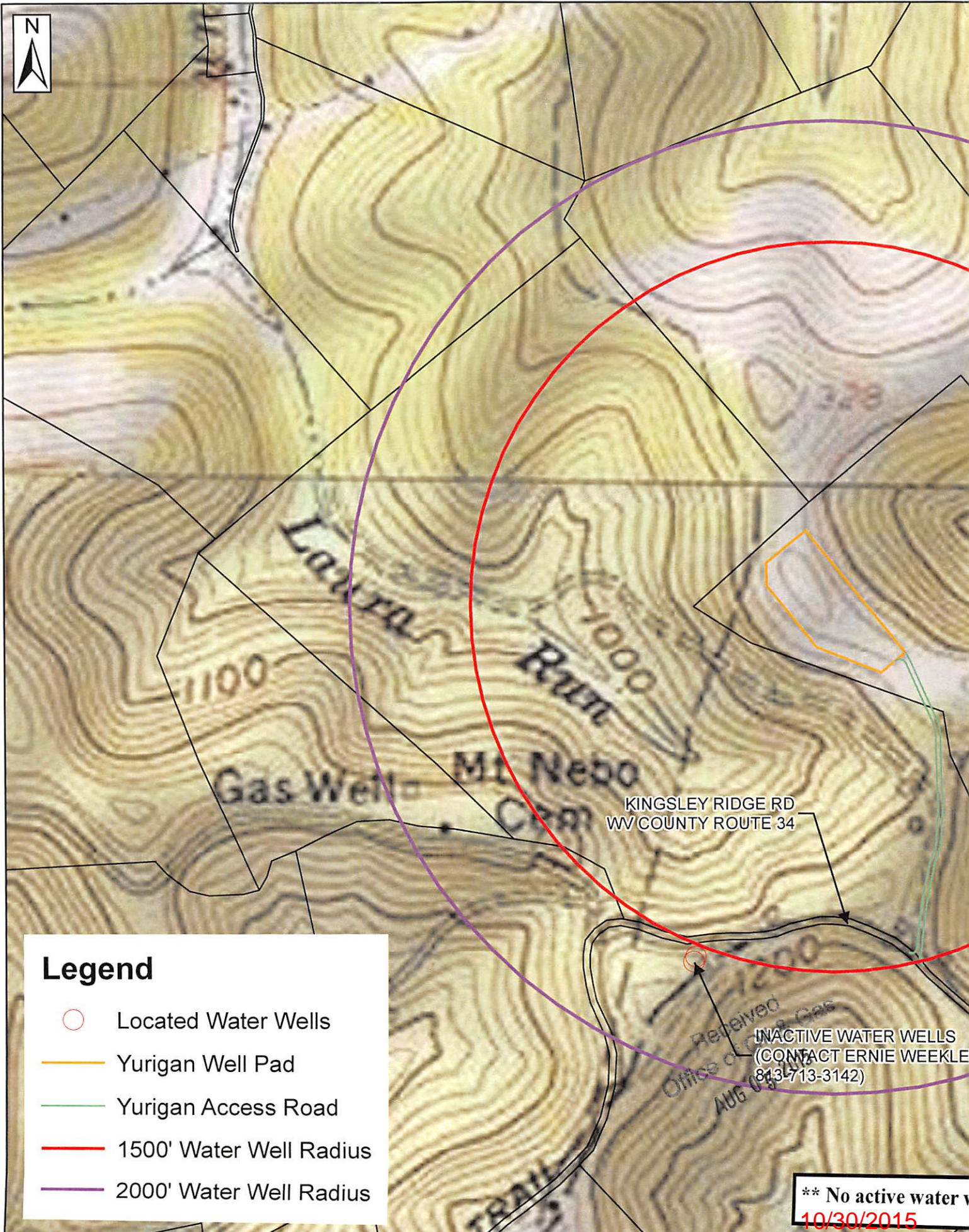
Yurigan Water Well Map

Ellsworth District, Tyler County, WV



10/30/2015

Wells or active springs are located within 2,000 foot radius of the proposed well site



Legend

- Located Water Wells
- Yurigan Well Pad
- Yurigan Access Road
- 1500' Water Well Radius
- 2000' Water Well Radius

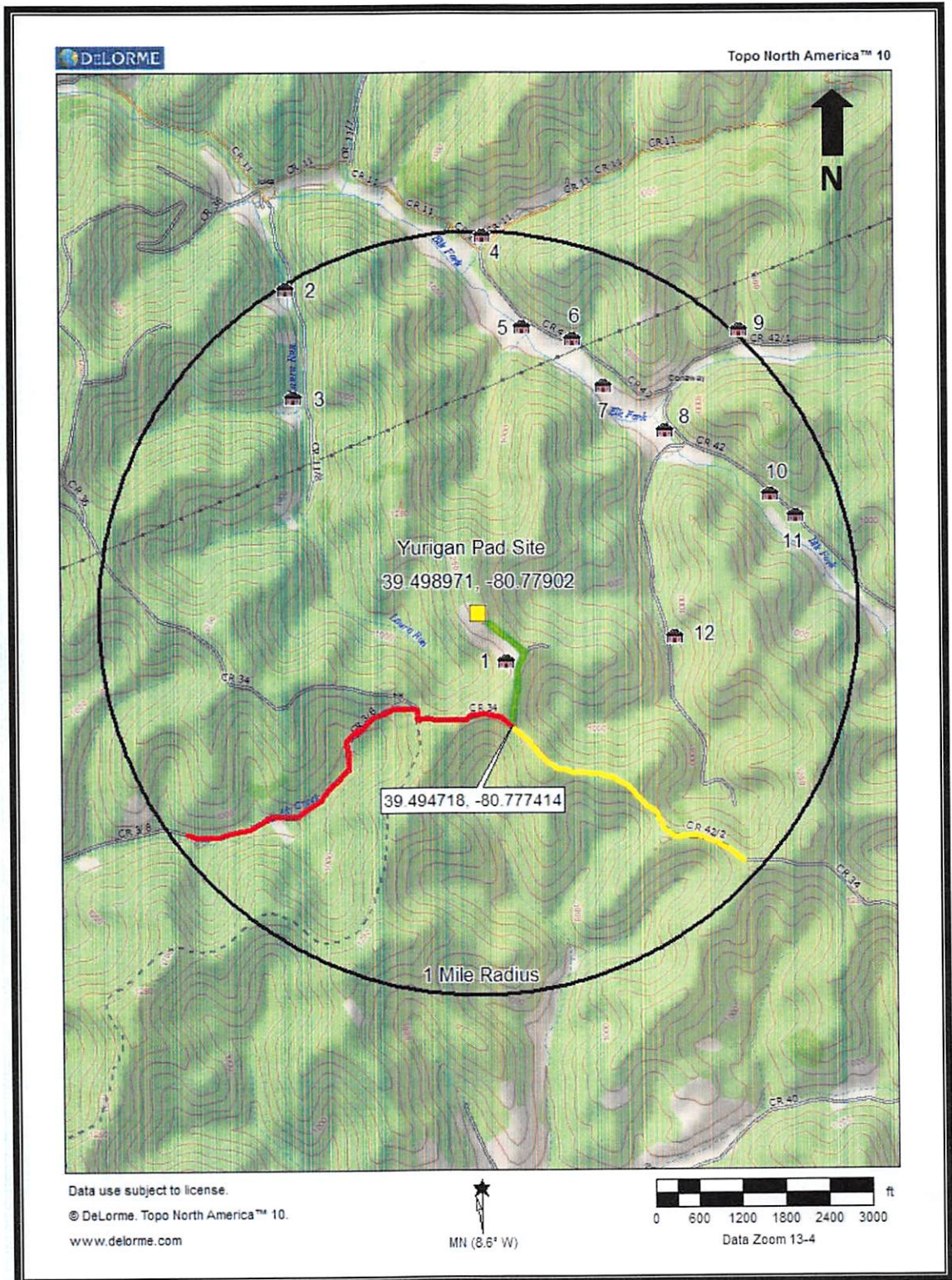
KINGSLEY RIDGE RD
WV COUNTY ROUTE 34

INACTIVE WATER WELLS
(CONTACT ERNIE WEEKLE
843-713-3142)

**** No active water v**
10/30/2015

MDC
2/17/15

C. Evacuation Plan



* Lease road is shown in Green

SURFACE HOLE LOCATION

UTM 17 - NAD 83
N - 4372158.45
E - 519009.83

WV SPC NORTH NAD83

N - 366371.94
E - 1607625.08

LANDING POINT LOCATION

UTM 17 - NAD 83
N - 4372308.74
E - 518967.06

WV SPC NORTH NAD83

N - 366867.46
E - 1607492.99

BOTTOM HOLE LOCATION

UTM 17 - NAD 83
N - 4374648.30
E - 518262.19

WV SPC NORTH NAD83

N - 374583.30
E - 1605308.11

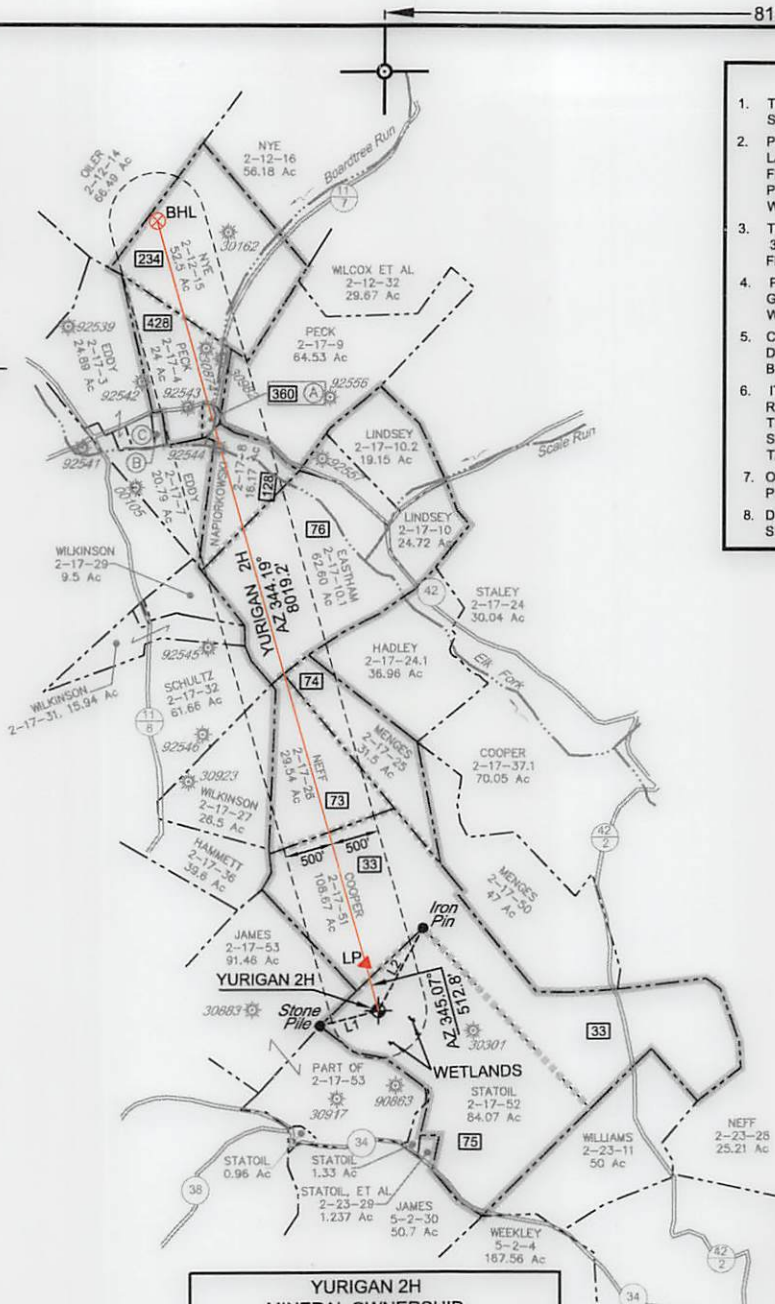
Spike/Stake



YURIGAN 2H

WELL LOCATION REFERENCES (NTS)

PROPERTY TIES
L1 - S75°50'31\"/>



- NOTES
1. THERE ARE NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' OF THE PROPOSED WELL.
 2. PERENNIAL STREAM, WETLAND, POND, RESERVOIR OR LAKE - THERE ARE WETLANDS LOCATED WITHIN 100 FEET OF THE PROPOSED PAD, LOD, OR E&S CONTROL. PLEASE SEE WETLAND WAIVER REQUEST ASSOCIATED WITH THIS PERMIT APPLICATION FOR MORE DETAIL.
 3. THERE ARE NO NATIVE TROUT STREAMS WITHIN 300' OF PROPOSED PAD, LOD, OR E&S CONTROL FEATURE.
 4. PROPOSED PAD, LOD, OR E&S CONTROL FEATURE IS GREATER THAN 1000' FROM SURFACE OR GROUND-WATER INTAKE OF PUBLIC WATER SUPPLY.
 5. CENTER OF PAD IS 625 FEET FROM OCCUPIED DWELLING STRUCTURE AND AGRICULTURAL BUILDINGS LARGER THAN 2500 SQUARE FEET.
 6. IT IS NOT THE INTENTION OF THIS PLAT TO REPRESENT A COMPLETE BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON. BOUNDARIES AS SHOWN TAKEN FROM RECORD DEED DESCRIPTIONS, TAX MAPS, AND SUPPLEMENTAL FIELD SURVEY.
 7. OWNERSHIP DATA GATHERED FROM COUNTY PUBLIC TAX AND DEED RECORDS.
 8. DIRECTIONS SHOWN ARE BASED ON WEST VIRGINIA SPC NORTH, NAD 83 DATUM

- LEGEND
- OUTER LEASE BOUNDARY.
 - INTERIOR LEASE BOUNDARY
 - SURFACE TRACT LINES
 - WELL REFERENCE LINES
 - (34/3) (11) - COUNTY ROADS
 - PUBLIC ROADS
 - BLUE-LINE STREAMS
 - # - MINERAL OWNER
 - ☉ - PROPOSED WELL
 - ☼ - EXISTING WELL
 - ▲ - LANDING POINT
 - ⊗ - BOTTOM HOLE

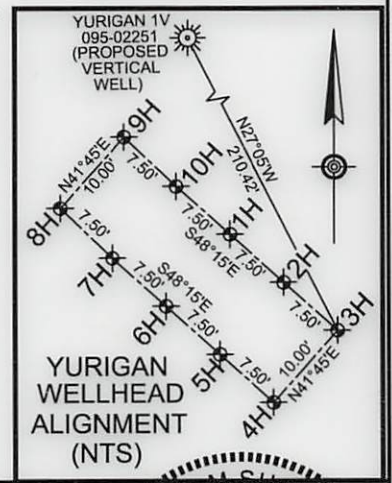


YURIGAN 2H MINERAL OWNERSHIP

75	- Almeda S. James, et al
33	- Jonathan S. Cooper, et al
73	- Ivadell Ferrell, et al
74	- Emery Jay Minges, et al
76	- Cathy Jo Ash, et al
128	- Barbara Ann Mott et al.
360	- Erwain E. & Carolyn S. Peck
428	- Charles Robert Selby et al.
234	- Patricia A. Nye

PROPERTY TABULATION

A - PECK	2-17-6	1.0 Ac
B - WILCOX	2-17-5	1.0 Ac
C - DAWSON	2-17-64	1.73 Ac



FILE NO. 8790-003-6

DRAWN BY DMS

SCALE 1 INCH = 2000 FEET

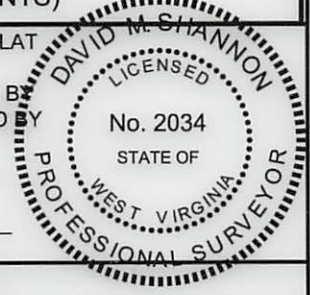
MIN DEGREE OF ACCURACY 1 IN 2500

PROVEN SOURCE OF ELEVATION SURVEY GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION

David M. Shannon

P.S. #2034



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

LDG Larson Design Group

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL

IF "GAS", PRODUCTION STORAGE DEEP SHALLOW

LOCATION: WATERSHED ELK FORK ELEVATION 1240.8

COUNTY/DISTRICT TYLER / ELLSWORTH QUADRANGLE SHIRLEY - SEC. 3

SURFACE OWNER STATOIL USA ONSHORE PROPERTIES, INC ACREAGE 84.07±

OIL & GAS ROYALTY OWNER SEE TABLE ABOVE ACREAGE 453.88±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE

PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON

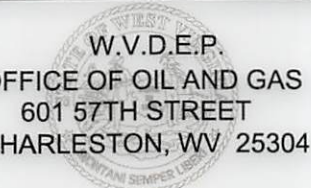
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH 6923

WELL OPERATOR: STATOIL USA ONSHORE PROPERTIES, INC. DESIGNATED AGENT RICHARD PYLES

ADDRESS 2107 CITYWEST BOULEVARD ADDRESS 803 NASH ROAD

HOUSTON TX, 77042 MIDDLEBOURNE, WV 26149



DATE 9-15-2015

OPERATORS WELL NO. YURIGAN 2H

API WELL NO. 47 STATE 095 COUNTY 02302 H6A PERMIT

10/30/2015

COUNTY NAME PERMIT

WW-6A1
(5/13)

Operator's Well No. Yurigan 2H

**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)

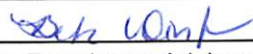
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**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

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: 
 Its: Sr. Regulatory Advisor

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

09502302

Yurigan 2H

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

TRACT #75

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115306-024	Almeda S. James	PetroEdge Energy, LLC	At least 1/8	384/79
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	406/147
000115306-047	Rhonda F. Bruich	Statoil USA Onshore Properties Inc.	At least 1/8	460/296

TRACT #33

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115485-002	Jonathan S. Cooper	PetroEdge Energy, LLC	At least 1/8	381/205
000115485-001	Richard Neff and Sharon Neff, Husband and wife	PetroEdge Energy, LLC	At least 1/8	392/443
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	406/147

TRACT #73

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115560-000	Ivadell Ferrell (Life Estate)	PetroEdge Energy, LLC	At least 1/8	383/166
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	406/147

TRACT #74

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115352-031	E. Jay Minges/Emery Jay Minges	PetroEdge Energy, LLC	At least 1/8	410/74
000115352-001	Ray W. Cooper	PetroEdge Energy, LLC	At least 1/8	409/85
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	436/1

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 Page 2 of 3

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TRACT #76

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115333-003	Cathy Jo Ash	PetroEdge Energy, LLC	At least 1/8	415/247
000115333-002	Patsy J. Heaster	PetroEdge Energy, LLC	At least 1/8	380/567
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	436/1

TRACT #128

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115097-012	Barbara Ann Mott	PetroEdge Energy, LLC	At least 1/8	392/196
000115097-015	Joyce Wilcox	PetroEdge Energy, LLC	At least 1/8	392/194
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	406/147

TRACT #360

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000168630-000	Erwain E. Peck and Carolyn S. Peck, husband and wife	Statoil USA Onshore Properties Inc.	At least 1/8	480/288

TRACT #428

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115097-037	Charles Robert Selby	PetroEdge Energy, LLC	At least 1/8	401/274
000115097-032	Michael Harold Selby	PetroEdge Energy, LLC	At least 1/8	400/166
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	408/66

TRACT #234

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000161523-000	Patricia Ann Walker Nye	PetroEdge Energy, LLC	At least 1/8	410/39
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	436/1

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YURIGAN ROAD CROSSING LETTERS – 7.06.2015

YURIGAN 2H - 9
75
33
73
74
76
128
360
428
234

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112 ppp

MILLER LAW OFFICES, PLLC

KENNETH R. MILLER
KENNETH ALEXANDER MILLER II*
CHARLES K. WADE **

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

* Also Admitted in Ohio
** Also Admitted in Illinois

March 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. 75
Title of John Wayne Weekley, et al.
to 84.069 acres oil and gas
Ellsworth District, Tyler County, West Virginia
Tax Map #2-17, parcel 52

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tract: Tax Map #2-17, parcel 52, containing 84.069 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 446, at page 233, in Tyler County, West Virginia.

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

BEGINNING at a point in the center of Route 34, in a line of a tract of C. Campbell and from which a 5/8" steel rod is North 14° 10' 43" East 14.00 feet, thence six calls with Route 34;

North 72° 12' 24" West, a distance of 127.53 feet; thence

North 49° 23' 08" West, a distance of 92.74 feet; thence

North 43° 06' 08" West, a distance of 118.08 feet; thence

North 32° 43' 53" West, a distance of 114.78 feet; thence

North 41° 13' 53" West, a distance of 101.74 feet; thence

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Joseph Vann Edwards [Unleased]	0.00151515	0.00151515
Vincent Mitchell Edwards [Unleased]	0.00151515	0.00151515
Carl F. Haught [Unleased]	0.00097403	0.00097403
Norman R. Haught [Unleased]	0.00097403	0.00097403
Ricky D. Haught [Unleased]	0.00097403	0.00097403
Louie W. Haught [Unleased]	0.00097403	0.00097403
Margaret L. Haught [Unleased]	0.00097403	0.00097403
Frances Joanne Kimble [Unleased]	0.00064935	0.00064935
TOTAL	1.00000000	1.00000000

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 rights, or royalty under any public roads located 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

DATE: March 15, 2011
 FILED: March 17, 2011 (Memorandum of Understanding Only)
 RECORDED: Deed Book 380, at page 552 (Memorandum of Understanding Only)
 LESSOR: John Wayne Weekley, a married man dealing in his sole and separate property

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09502302

0950



OIL, GAS & MINERAL LAW

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

August 29, 2012

PetroEdge Energy LLC
4477 Williamstown Pike
Williamstown, WV 26187

Tyler
#33

Attention: Mr. Joshua S. Ozment

Re: Jonathan S. Cooper, et al 108.67 Acre Tract out of Ellsworth District in Tyler County, West Virginia (Tax Parcel No. 2-17-51)

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tax Parcel No. 2-17-51, containing 108.67 acres, more or less, out of Ellsworth District in Tyler County, West Virginia, being the same land described in a Deed, dated June 24, 1996, from Chris Noll to Jonathan S. Cooper, recorded in Book 316, Page 397, Office of the Clerk of the County Commission, Tyler 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 February 12, 2012, prepared by S. A. Property Research, L.L.C. for PetroEdge Energy LLC covering the Subject Lands for the period from January 7, 1871 through and including February 12, 2012 in Tyler County, West Virginia (the "Title Runsheet");
2. The public records of Tyler County, West Virginia ("Records") for the period from January 7, 1871 through and including February 12, 2012, but only insofar as the same includes those documents set forth on the above described Title Runsheet as they pertain to the Subject Lands;

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3. Copies of Real Property Tax Statements, undated, issued by the Tyler County Sheriff's Office, Tyler County, West Virginia, relative to the interest of COOPER JONATHAN S, covering PARCEL: 2-17-51, for years 2003 through 2011, as same pertains to the Subject Lands;
4. Copies of Real Property Tax Statements, undated, issued by the Tyler County Sheriff's Office, Tyler County, West Virginia, relative to the interest of NEFF RICHARD & SHARON covering PARCEL: 02-9999-0000-7390, for years 2003 through 2011, as same pertains to the Subject Lands;
5. Copy of an unrecorded Oil and Gas Lease, dated March 15, 2011, from Jonathan S. Cooper to PetroEdge Energy LLC, a Memorandum of which is recorded in Book 381, Page 205, Office of the Clerk of the County Commission, Tyler County, West Virginia;
6. Copy of an unrecorded Oil and Gas Lease, dated February 5, 2012, from Richard Neff and wife, Sharon Neff, to PetroEdge Energy LLC, a Memorandum of which is recorded in Book 392, Page 443, Office of the Clerk of the County Commission, Tyler County, West Virginia; and
7. Copies of 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 February 12, 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.

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AUG 05 2015

10/30/2015

09502302

MILLER LAW OFFICES, PLLC

KENNETH R. MILLER
KENNETH ALEXANDER MILLER II'
CHARLES K. WADE'
JAMES T. BOGGS'

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

'Also Admitted in Ohio
'Also Admitted in Illinois
'Also Admitted in Pennsylvania

July 1, 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. 73
to 29.54 acres oil and gas
Ellsworth District, Tyler County, West Virginia
Tax Map #17, parcel 26

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.

State of West Virginia Ownership Under Public Roads

I, undersigned, have personally reviewed the records available within the Office of the Clerk of the County Commission of Tyler County, West Virginia, as well as those records available within the Office of the Circuit Clerk of Tyler County, West Virginia, and based upon the same, do hereby Certify that the State of West Virginia does not appear to own any interest in and to the Executive Mineral Fee Estate under the Subject Lands. Said Certification is made subject only to any rights owned under Ancient Turnpikes.

Respectfully submitted,



Alex Miller

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10/30/2015

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MILLER LAW OFFICES, PLLC

KENNETH R. MILLER
KENNETH ALEXANDER MILLER II*
CHARLES K. WADE **

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

* Also Admitted in Ohio
** Also Admitted in Illinois

May 7, 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. 74
Title of Eleanor Virginia Owens, et al.
to 31.500000 acres oil and gas
waters of Elk Fork Creek, Ellsworth District,
Tyler County, West Virginia
Tax Map #2-17, parcel 25

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tract: Tax Map #2-17, parcel 25, containing 31.500000 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 12, at page 159, in Tyler County, West Virginia.

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

BEGINNING at a White Oak a corner to 50 acres of land belonging to G. W. Stocking, thence N 51° W 104 poles to a Stone pile on original line of No. 19 of the Yankee Lands; thence with the same S 44° W 23 poles to two Chestnuts corner to the original surveys Nos. 14 & 15, 18 & 19; thence S 41° E 152 to a Stone & Maple on a point a corner to said G. W. Stocking's 50 acres; thence with his line N 9 1/2 W 61 poles to the beginning.

The above land is hereinafter referred to as the Subject Lands, and a map depicting the approximate location of the Subject Lands included in the Title Packet and titled "Tax Maps and Plats."

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Office of Oil & Gas
AUG 05 2015

10/30/2015

Betty Louise Forsythe [Unleased]	0.05000000	0.05000000
Lena Loretta Cochrun [Unleased]	0.02500000	0.02500000
Louann A. Lawson [Unleased]	0.02500000	0.02500000
Robert L. Hall [Unleased]	0.00111111	0.00111111
Joseph L. Collins [Unleased]	0.00092592	0.00092592
Clarence Ryan Collins [Unleased]	0.00030864	0.00030864
TOTAL	1.00000000	1.00000000

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 rights, or royalty under any public roads located 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

DATE: February 6, 2013
 FILED: February 27, 2013 (Memorandum Only)
 RECORDED: Deed Book 409, at page 79 (Memorandum Only)
 LESSOR: Eleanor Virginia Owens, a married woman
 dealing in her sole and separate property
 LESSEE: PetroEdge Energy, LLC
 LANDS DESCRIBED: The Subject Lands, being Tax Map 15 parcel
 25, located in Ellsworth District, Tyler
 County, West Virginia

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 AUG 5 2015

March 6, 2015

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

Attention: Joshua S. Ozment
Senior Landman

Re: Tract Index No. 76
Tax Parcel Nos. 2-17-10, 2-17-10.1 & 2-17-10.2
Cathy Jo Ash, et al 106.47 acres
Ellsworth District
Tyler County, West Virginia

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

106.47 acres, more or less, out of McElroy District in Tyler County, West Virginia, being more particularly described as follows:

Tax Parcel No. 2-17-10, containing 24.72 acres, more or less, out of Ellsworth District in Tyler County, West Virginia, and being the same land described as Tract I in a Deed, dated April 21, 2004, from Cathy June Eastham to Thomas Richard Lindsey, Sr., and Linda M. Matlock, recorded in Book 343, Page 252, Office of the Clerk of the County Commission, Tyler County, West Virginia.

Tax Parcel No. 2-17-10.1, containing 62.6 acres, more or less, out of Ellsworth District in Tyler County, West Virginia, and being the same land described in a Deed, dated December 19, 1980, from William I. Eastham to Charles Roy Eastham and wife, Clara Jean Eastham, recorded in Book 228, Page 99, Office of the Clerk of the County Commission, Tyler County, West Virginia.

Tax Parcel No. 2-17-10.2, containing 19.15 acres, more or less, out of Ellsworth District in Tyler County, West Virginia, and being the same land described as Tract II in a Deed, dated April 21, 2004, from Cathy June Eastham to Thomas Richard Lindsey, Sr., and Linda M. Matlock, recorded in Book 343, Page 252, Office of the Clerk of the County Commission, Tyler County, West Virginia.

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Heirs or devisees of William Ralph Mayfield, deceased (0.1) [UNLEASED]	0.10000000	0.10000000
Heirs or devisees of Earl LaSelle Mayfield, deceased (0.1) [UNLEASED]	0.10000000	0.10000000
TOTAL	1.00000000	1.00000000

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 Clerk of the County Commission of the county in which the Subject Lands are situated.

OIL AND GAS ESTATE:

OIL AND GAS LEASES

L1

OIL AND GAS LEASE

DATE: April 6, 2013
 EFFECTIVE DATE: March 9, 2014
 FILED: May 3, 2013 (Memorandum Only)
 RECORDED: Book 415, Page 247 (Memorandum Only)
 LESSOR: Cathy Jo Ash, a married woman dealing in her sole and separate property
 LESSEE: PetroEdge Energy LLC
 LANDS DESCRIBED: Tract One of the Subject Lands, being Tax Parcel Nos. 2-17-10, 2-17-10.2 and part of Tax Parcel No. 2-17-10.1, located in Ellsworth District, Tyler County, West Virginia
 INTEREST COVERED: 1/2 oil and gas interest underlying Tract One of the Subject Lands
 PRIMARY TERM: 5 years
 RENEWAL: None
 ROYALTY: 15%

09502302

MILLER LAW OFFICES, PLLC

KENNETH R. MILLER
KENNETH ALEXANDER MILLER II'
CHARLES K. WADE'
JAMES T. BOGGS'

'Also Admitted in Ohio
'Also Admitted in Illinois
'Also Admitted in Pennsylvania

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

July 1, 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. 128
Title of Philip Ronald Wilcox, et al.
to 16.17 acres oil and gas
Ellsworth District, Tyler County, West Virginia
Tax Map #17, parcel 8

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.

State of West Virginia Ownership Under Public Roads

I, undersigned, have personally reviewed the records available within the Office of the Clerk of the County Commission of Tyler County, West Virginia, as well as those records available within the Office of the Circuit Clerk of Tyler County, West Virginia, and based upon the same, do hereby Certify that the State of West Virginia does not appear to own any interest in and to the Executive Mineral Fee Estate under the Subject Lands. Said Certification is made subject only to any rights owned under Ancient Turnpikes.

Respectfully submitted,



Alex Miller

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AUG 05 2015

10/30/2015

May 1, 2015

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

Attention: Joshua S. Ozment
Senior Landman

Re: Tract Index No. 360
Tax Parcel No. 2-17-6
Erwain E. Peck, et ux 1 acre
Ellsworth District
Tyler County, West Virginia

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tax Parcel No. 2-17-6, containing 1 acre, more or less, out of Ellsworth District in Tyler County, West Virginia, and being the same land described as the Third Tract in a Deed, dated October 31, 1991, from Erwain E. Peck and wife, Carolyn S. Peck, to Erwain E. Peck and wife, Carolyn S. Peck, recorded in Book 293, Page 622, 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 October 13, 1835 to April 16, 2015, to vest as follows:

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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 Clerk of the County Commission of the county in which the Subject Lands are situated.

OIL AND GAS ESTATE:

OIL AND GAS LEASES

None in the Materials Examined.

ASSIGNMENTS OF OIL AND GAS LEASES

None in the Materials Examined.

NONPARTICIPATING OIL AND GAS ROYALTY INTERESTS

NPRI

NONPARTICIPATING ROYALTY INTEREST

DATE:	January 10, 1914
FILED:	April 1, 1914
RECORDED:	Book 75, Page 602
GRANTOR:	C. R. Wilcox and wife, Hattie B. Wilcox
GRANTEE:	Anna R. Weekley
LANDS DESCRIBED:	The Subject Lands and other lands not covered by this Opinion
INTEREST RESERVED:	An undivided nonparticipating 1/2 of oil and gas royalty interest in and to the Subject Lands
CURRENT OWNERS:	Philip Ronald Wilcox and David Mark Wilcox (Book 28, Page 40)
RATIFICATION:	None. See Objection and Requirement No. 4 below.

JOINT OPERATING AGREEMENT

None in the Materials Examined.

DECLARATION OF POOLED UNIT

None in the Materials Examined.

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OIL, GAS & MINERAL LAW

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

April 27, 2015

Statoil USA Onshore Properties Inc.
2103 CityWest Boulevard, Suite 800
Houston, TX 77042

Attention: Joshua S. Ozment
Senior Landman

Re: Tract Index No. 428
Tax Parcel No. 2-17-4
Joyce Wilcox, et al 24 acres
Ellsworth District
Tyler County, West Virginia

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tax Parcel No. 2-17-4, containing 24 acres, more or less, out of Ellsworth District in Tyler County, West Virginia, being the same land described in a Deed, dated February 26, 1966, from Blanche Wilcox to Erwin E. Peck and wife, Carolyn S. Peck, recorded in Book 171, Page 248, 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 January 1, 1830 to April 2, 2015, to vest as follows:

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10/30/2015

Statoil USA Onshore Properties Inc.
 April 27, 2015
 Page 5

Joyce Wilcox (15% x 1/18) [L1]	0.00000000	0.00833334
Carolyn Diane Myers and husband, Randy L. Myers (15% x 1/6) [L2]	0.00000000	0.02500000
Victor A. Conaway and wife, Trudi H. Conaway (15% x 1/6) [L3]	0.00000000	0.02500000
Allen Vincent Wilcox and wife, Carol Wilcox (15% x 1/18) [L4]	0.00000000	0.00833333
Barbara Ann Mott (15% x 1/18) [L5]	0.00000000	0.00833333
Michael Harold Selby (15% x 1/12) [L6]	0.00000000	0.01250000
Charles Robert Selby (15% x 1/12) [L7]	0.00000000	0.01250000
David Mark Wilcox (1/6) [UNLEASED]	0.16666667	0.16666667
Philip Ronald Wilcox (1/6) [UNLEASED]	0.16666666	0.16666666
TOTAL	1.00000000	1.00000000

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 Clerk of the County Commission of the county in which the Subject Lands are situated.

Received
 Office of Oil & Gas
 AUG 05 2015

March 3, 2015

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

Attention: Joshua S. Ozment
Senior Landman

Re: Tract Index No. 234
Tax Parcel No. 2-12-15
Patricia Ann Walker Nye 52.5 acres
Ellsworth District
Tyler County, West Virginia

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tax Parcel No. 2-12-15, containing 52.5 acres, more or less, out of Ellsworth District in Tyler County, West Virginia, and being the same land described in a Deed, dated October 31, 1983, from Robert L. Skinner to J. H. Stubler and wife, Lois B. Stubler, recorded in Book 247, Page 337, 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 October 13, 1835 to July 18, 2014, to vest as follows:

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10/30/2015

Patricia Ann Walker Nye (1.0 x 18%) [L1]	0.00000000	0.18000000
TOTAL	1.00000000	1.00000000

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 Clerk of the County Commission of the county in which the Subject Lands are situated.

OIL AND GAS ESTATE:

OIL AND GAS LEASES

L1

OIL AND GAS LEASE

DATE: January 29, 2013
FILED: March 12, 2013 (Memorandum Only)
RECORDED: Book 410, Page 39 (Memorandum Only)
LESSOR: Patricia Ann Walker Nye, a married woman dealing in her sole and separate property
LESSEE: PetroEdge Energy LLC
LANDS DESCRIBED: The Subject Lands, being Tax Parcel No. 2-12-15, located in Ellsworth District, Tyler County, West Virginia
INTEREST COVERED: 100% oil and gas interest underlying the Subject Lands
PRIMARY TERM: 5 years
RENEWAL: None
ROYALTY: 18%
EXAMINER'S NOTE: L1 is a printed form lease which contains additional provisions in an Addendum attached thereto.

THE FOREGOING SUMMARY OF THE SUBJECT LEASE(S) IS PROVIDED FOR CONVENIENCE ONLY, AND SHOULD NOT BE UTILIZED IN PLACE OF DETAILED REVIEW OF ACTUAL LEASE PROVISIONS.

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Office of Oil & Gas
AUG 05 2015

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

09502302

Date of Notice Certification: 07/29/2015

API No. 47- _____
Operator's Well No. 2H _____
Well Pad Name: Yurigan

Notice has been given:

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

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>519009.83</u>
County: <u>Tyler</u>	Northing: <u>4372158.45</u>
District: <u>Ellsworth</u>	Public Road Access: <u>CR 11 and 34/3</u>
Quadrangle: <u>Shirley - Sec. 3</u>	Generally used farm name: <u>Yurigan Farm</u>
Watershed: <u>Elk Fork</u>	

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p align="center"><input checked="" type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p align="center">OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Required Attachments:

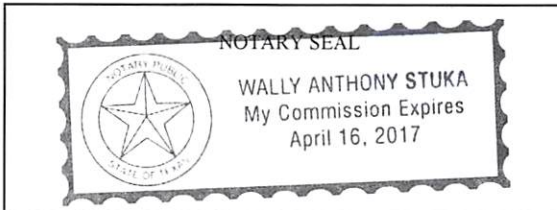
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

RECEIVED
Office of Oil & Gas
AUG 03 2015

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:	<u>Statoil USA Onshore Properties Inc.</u>	Address:	<u>2103 City West Boulevard, Suite 800</u>
By:	<u>Bekki Winfree <i>[Signature]</i></u>		<u>Houston, TX 77042</u>
Its:	<u>Sr. Regulatory Advisor</u>	Facsimile:	<u>713-918-8290</u>
Telephone:	<u>713-485-2640</u>	Email:	<u>BEKW@Statoil.com</u>



Subscribed and sworn before me this 29 day of July 2015.
[Signature] Notary Public
 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.

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Office of Oil & Gas
AUG 05 2015

WW-6A
(9-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. Yurigan 2H
Well Pad Name: YURIGAN

**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: 07/22/2015 **Date Permit Application Filed:** 8/3/15

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A 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)

Name: Statoil USA Onshore Properties Inc.
Address: 2103 CityWest Blvd. Suite 800
Houston, Texas 77042

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: See Attachment
Address: _____

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: None within 2,000 feet
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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AUG 05 2015

10/30/2015

YURIGAN 2H – OWNERS ATTACHMENT

Coal Owners – 62

John Wayne Weekley ✓
Route 1, Box 352
New Martinsville, WV 26155

Denver E. Haught ✓
112 Winters Drive
Ripley, WV 25271

Patricia Carol Fonner ✓
520 Ashwood Drive
Newport News, VA 23602

Linda Kathryn Lee ✓
1292 Edgefield Road
York, SC 29745

Norma Louise Franks ✓
4 West Askren Street
Uniontown, PA 15401

Carolyn Williams ✓
Route 1, Box 354
Middlebourne, WV 26149

Ernest E. Black ✓
Rural Route 3, Box 209
Wheeling, WV 26003

Jacqueline H. Posey ✓
44 Center Avenue
Wheeling, WV 26003

Robert E. Weekley ✓
3842 Quaker Ridge Street
Zephyr Hills, FL 33542

Almeda S. James ✓
1009 North Breens Bay Road
Oconomowoc, WI 53066

Duane Clark ✓
HC 69, Box 6
Alma, WV 26320

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09502302

Mark A. Schafer
8793 Stonehenge Circle ✓
Pickerington, OH 43147

Gail A. Mason ✓
41 Snowmass Court
O'Fallon, MO 63368

Cynthia M. Sax (Schafer) ✓
12029 Rutherglen Place
Bristow, VA 20136

David C. Schafer ✓
9393 Deer Ridge
Mentor, OH 44060

James F. Clark ✓
111 Shasta Cove
Georgetown, TX 78628

Sharon E. Fonest ✓
1543 North Main Street
Niles, OH 44446

Mark Fletcher ✓
501 4th Street
Middlebourne, WV 26149

Michael C. Fletcher ✓
344 Caines Boulevard
Winchester, KY 40391

Matthew C. Fletcher ✓
764 Virginia Road
Marion, NC 28752

Lewis A. Clark ✓
7115 Merrimac Drive
McLean, VA 22101

Mary Elizabeth Clark ✓
118 Rebrook Street
Clarksburg, WV 26301

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09502302

Karen Lynch ✓
667 Raymond Drive
Lewiston, NY 14092

Edward Lynch ✓
4561 Townline Road
Ransonville, NY 14131

Mary Jean Buddenhagen ✓
6824 Grauer Road
Niagara Falls, NY 14305

Thomas Lynch ✓
667 Raymond Drive
Lewiston, NY 14092

Michael Lynch ✓
816 22nd Street
Niagara Falls, NY 14301

Virginia Irene Patton ✓
10850 Green Mountain Circle, Unit 411
Columbia, MD 21044-2478

Deborah Mann ✓
4455 Taylor Drive
Niagara Falls, NY 14304

Holly Hill Campbell ✓
101 Tudor Drive
Williamsburg, VA 23188

Brown Memorial Park Avenue ✓
United Presbyterian Church
1316 Park Avenue
Baltimore, MD 21217

Helen Gaull Boyll ✓
50 Capron Street
Danielson, CT 06239

John J. Lynch ✓
602 78th Street
Niagara Falls, NY 14304

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10/30/2015

09502302

Douglas Morrison Padrutt ✓
4503 SAucon Valley Court
Alexandria, VA 22312

James Lynch ✓
2930 Ontario Avenue
Niagara Falls, NY 14305

Lura Padrutt Griffiths ✓
4515 SE 30th Avenue
Portland, OR 97202

Rhonda F. Bruich ✓
154 Owings Street
Weirton, WV 26062

Robert Alan Ross ✓
213 Louise Lane
Toano, VA 23168

Richard Harold Ross ✓
8810 Pocahontas Trail, Trailer 44
Williamsburg, VA 23185

Roger W. Ross ✓
364 Lynchburg Drive
Newport News, VA 23606

Ronald Paul Ross ✓
16852 Polish Town Road
Lanexa, VA 23089

James Madison University ✓
605 Port Republic Road
Harrisonburg, VA 22801

Christine Gay ✓
5010 Toucan Lane
Kernersville, NC 27284

Joseph Vann Edwards ✓
75 Salem Drive
Pinehurst, NC 28374

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10/30/2015

09502302

Clyde B. Ross, Jr. ✓
State Route 534, Box 134
Damascus, OH 44619

Randy Caplinger ✓
6204 Larkhall Drive
Madison, OH 44057

Sandra K. Haught Byham ✓
19643 Arthur Street #205C
Meadville, PA 16335

Nichole J. Tremblay ✓
1820 Mohawk Avenue
Warren, PA 16365

Kevin R. Kiser ✓
20790 Route 6
Warren, PA 16365

John R. Kiser ✓
96 Pleasant Drive
Warren, PA 16365

Kit A. Kiser ✓
303 Wilderness Trailer Park
Clarendon, PA 16313

Norman L. Kiser ✓
4603 Buffalo Road, Apartment 4
Erie, PA 16510

Jean Ann Gaul ✓
211 49th Avenue West
Bradenton, FL 34207

John Frederick Gaul ✓
211 49th Avenue West
Bradenton, FL 34207

Lisa Hare Cutchin ✓
6104 Spring Meadow Lane
Frederick, MD 21701

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10/30/2015

09502302

Vincent Mitchell Edwards ✓
416 Charleston Drive
Clayton, NC 27527

Carl F. Haught ✓
815 Mitchell Street
Calvert, TX 77837

Norman R. Haught ✓
14769 S. Norrisville Road
Meadville, PA 16335

Ricky D. Haught ✓
18337 Southwood Drive
Meadville, PA 16335

Louie W. Haught ✓
1045 Menis Road
Weimar, TX 78962

Margaret L. Haught ✓
17223 Kiowa River Lane
Houston, TX 77095

Frances Joanne Kimble ✓
103 Field Court
Harbinger, NC 27941

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AUG 05 2015

10/30/2015

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

WAIVER

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

Surface Owner Waiver:

I, Statoil USA Onshore Properties Inc., hereby state that I have read the notice provisions listed above and hereby waive the notice requirements under West Virginia Code § 22-6A-16(b) for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>519009.83</u>
County:	<u>Tyler</u>		Northing:	<u>4372158.45</u>
District:	<u>Ellsworth</u>	Public Road Access:	<u>CR 11 and 34/3</u>	
Quadrangle:	<u>Shirley - Sec. 3</u>	Generally used farm name:	<u>Yurigan Farm</u>	
Watershed:	<u>Elk Fork</u>			

Name: Statoil USA Onshore Properties Inc.
Address: 2103 CityWest Blvd. Suite 800
Houston, Texas 77042

Signature: 
Date: 07/21/2015

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.

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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

Received
Office of Oil & Gas
AUG 05 2015

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

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.

Received
Office of Oil & Gas
AUG 05 2015

WW-6A
(8-13)

API NO. 09502302
OPERATOR WELL NO. Yurigan 2H
Well Pad Name: YURIGAN

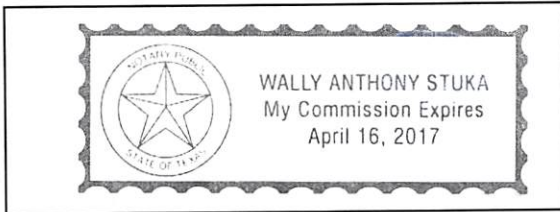
Notice is hereby given by:

Well Operator: STATOIL USA ONSHORE
Telephone: 713-918-8200
Email: BEKW@Statoil.com *Robert Winger*

Address: 2103 CityWest Blvd. Suite 800
Houston, TX 77042
Facsimile: 713-918-8290

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 30 day of July, 2015.
Wally Anthony Stuka Notary Public
My Commission Expires April 16, 2017

Received
Office of Oil & Gas
AUG 05 2015

10/30/2015

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

WAIVER

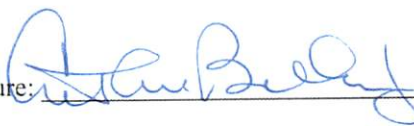
Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: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

Surface Owner Waiver:

I, Statoil USA Onshore Properties Inc., hereby state that I have read the notice provisions listed above and hereby waive the notice requirements under West Virginia Code § 22-6A-16(b) for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>519009.83</u>
County:	<u>Tyler</u>		Northing:	<u>4372158.45</u>
District:	<u>Ellsworth</u>	Public Road Access:		<u>CR 11 and 34/3</u>
Quadrangle:	<u>Shirley - Sec. 3</u>	Generally used farm name:		<u>Yurigan Farm</u>
Watershed:	<u>Elk Fork</u>			

Name: Statoil USA Onshore Properties Inc.
Address: 2103 CityWest Blvd. Suite 800
Houston, Texas 77042

Signature: 
Date: 07/21/2015

Oil and Gas Privacy Notice:

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Received
Office of Oil & Gas
AUG 05 2015

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

WAIVER

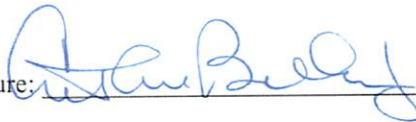
Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: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

Surface Owner Waiver:

I, Statoil USA Onshore Properties Inc., hereby state that I have read the notice provisions listed above and hereby waive the notice requirements under West Virginia Code § 22-6A-16(b) for the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>519009.83</u>
County:	<u>Tyler</u>		Northing:	<u>4372158.45</u>
District:	<u>Ellsworth</u>	Public Road Access:		<u>CR 11 and 34/3</u>
Quadrangle:	<u>Shirley - Sec. 3</u>	Generally used farm name:		<u>Yurigan Farm</u>
Watershed:	<u>Elk Fork</u>			

Name: Statoil USA Onshore Properties Inc.
Address: 2103 CityWest Blvd. Suite 800
Houston, Texas 77042

Signature: 
Date: 07/21/2015

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Received
Office of Oil & Gas
AUG 05 2015

WW-6A5
(1/12)

Operator Well No. Yurigan 2H

09502302

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

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

Date of Notice: 07/27/2015 **Date Permit Application Filed:** 8/3/15

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

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: <u>Statoil USA Onshore Properties Inc.</u>	Name: _____
Address: <u>2103 CityWest Blvd. Suite 800</u> <u>Houston, Texas 77042</u>	Address: _____

Notice is hereby given:

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

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>519009.83</u>
County: <u>Tyler</u>		Northing: <u>4372158.45</u>
District: <u>Ellsworth</u>	Public Road Access: <u>CR 11 and CR 34/3</u>	
Quadrangle: <u>Shirley - Sec. 3</u>	Generally used farm name: <u>Yurigan Farm</u>	
Watershed: <u>Elk Fork</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: <u>Statoil USA Onshore Properties Inc.</u>	Address: <u>2103 CityWest Blvd. Suite 800</u> <u>Houston, Texas 77042</u>
Telephone: <u>713-918-8200</u>	Facsimile: <u>713-918-8290</u>
Email: <u>bekw@statoil.com</u>	

Oil and Gas Privacy Notice:

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

Received
Office of Oil & Gas
AUG 05 2015

10/30/2015



09502302

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Earl Ray Tomblin
Governor

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

July 14, 2015

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

Subject: DOH Permit for the Yurigan Pad Tyler County
Yurigan 2H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit # 06 -2014-0554 for the subject site to Statoil USA Onshore Properties Inc. for access to the State Road for the site located off of Tyler County Route 34 SLS.

Received
Office of Oil & Gas
AUG 05 2015

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,

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

Cc: Courtney Battle
Statoil USA Onshore Properties Inc.
CH, OM, D-6
File

09502302

Frac Additives

BIO CLEAR 2000

Components	CAS#
Polyethylene Glycol	25322-68-3
2,2-dibromo-3-nitrilopropionamide	10222-01-2

BUFFER

Sulfamic Acid	5329-14-6
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ACID

Hydrochloric Acid	7647-01-0
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BREAKER

Sucrose	57-50-1
Ethylene Glycol	107-21-1

INHIBITOR

Ethoxylated Nonylphenol	68412-54-4
Dimethylcocoamine	68607-28-3
Ethylene Glycol	107-21-1
Glycol Ethers	111-76-2
Methanol	67-56-1
Propargyl Alcohol	107-19-7

SCALE INHIBITOR

Ethylene Glycol	107-21-1
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Received
Office of Oil & Gas
AUG 05 2015

10/30/2015

09502302

FRICITION REDUCER

Sodium Chloride	7647-14-5
Ammonium Chloride	12125-02-9
Petroleum Distillates	64742-47-8
Alcohols, C12-16, Ethoxylated	68551-12-2

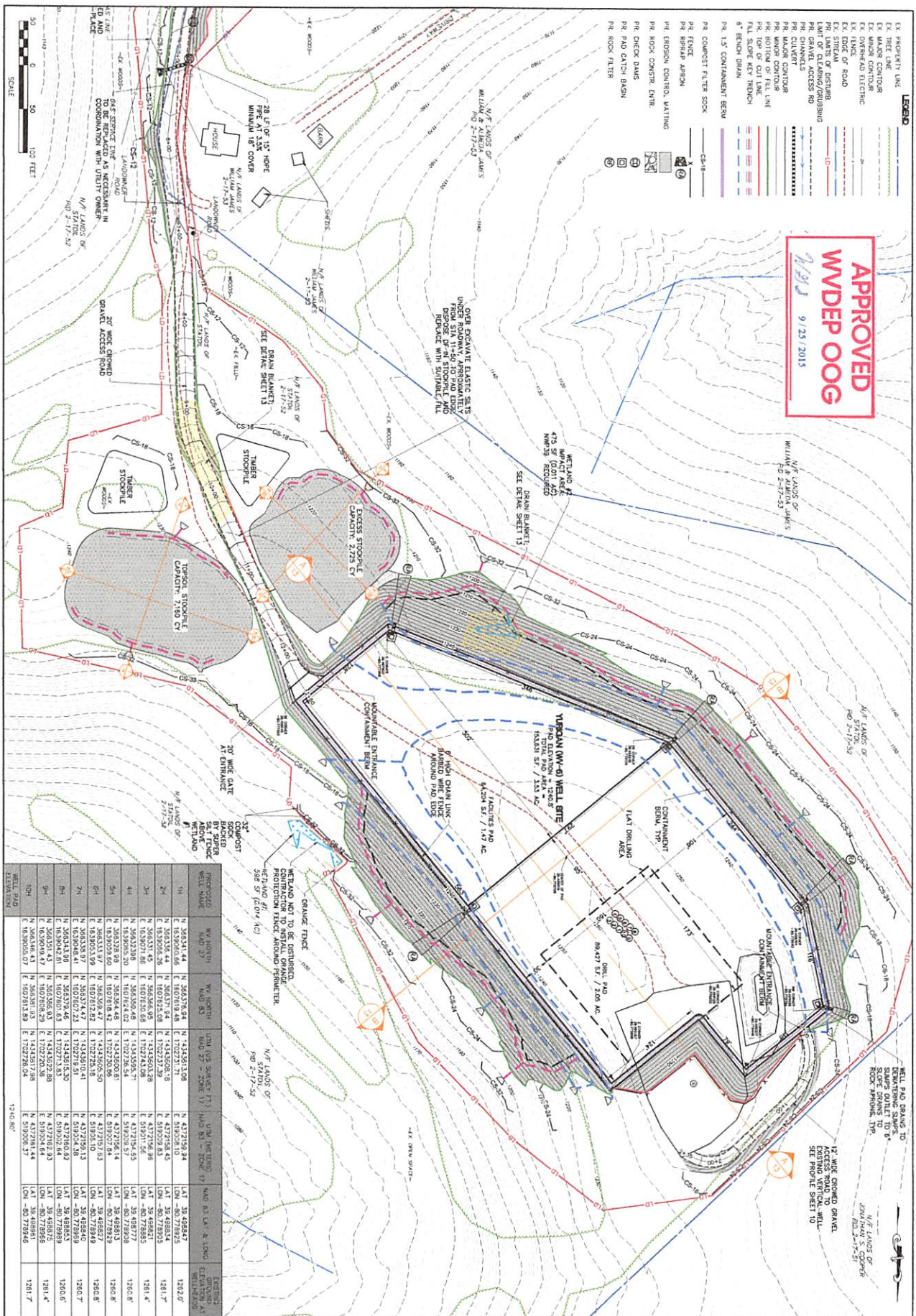
SAND

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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Received
Office of Oil & Gas
AUG 05 2015



APPROVED
WV DEP 006
 9/23/2015

PROPOSED WELL PAD	WV NORTH	WV NORTH	UNIT US SURVEY FT	UNIT METERS	WELL PAD AREA	EXISTING ELEVATION
1-1	N 36834.44	N 36837.54	N 43450.108	N 43129.924	LAT 38 48848.7	1282.0'
2-1	N 36833.44	N 36837.54	N 43450.108	N 43129.924	LAT 38 48834.4	1281.7'
3-1	N 36833.44	N 36837.54	N 43450.108	N 43129.924	LAT 38 48821.1	1281.4'
4-1	N 36833.44	N 36837.54	N 43450.108	N 43129.924	LAT 38 48807.8	1281.1'
5-1	N 36833.44	N 36837.54	N 43450.108	N 43129.924	LAT 38 48794.5	1280.8'
6-1	N 36833.44	N 36837.54	N 43450.108	N 43129.924	LAT 38 48781.2	1280.5'
7-1	N 36833.44	N 36837.54	N 43450.108	N 43129.924	LAT 38 48767.9	1280.2'
8-1	N 36833.44	N 36837.54	N 43450.108	N 43129.924	LAT 38 48754.6	1279.9'
9-1	N 36833.44	N 36837.54	N 43450.108	N 43129.924	LAT 38 48741.3	1279.6'
10-1	N 36833.44	N 36837.54	N 43450.108	N 43129.924	LAT 38 48728.0	1279.3'
11-1	N 36833.44	N 36837.54	N 43450.108	N 43129.924	LAT 38 48714.7	1279.0'
12-1	N 36833.44	N 36837.54	N 43450.108	N 43129.924	LAT 38 48701.4	1278.7'