



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: 47-9502303, issued to STATOIL USA ONSHORE PROPERTIES, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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

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

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

James Martin


Operator's Well No: YURIGAN 3H
Farm Name: STATOIL USA ONSHORE PROPEI
API Well Number: 47-9502303
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
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Earl Ray Tomblin, Governor
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**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

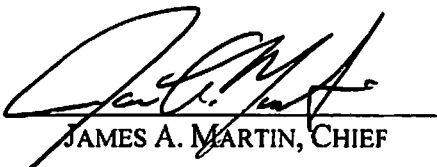
West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetland #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 Prop 494505083 Tyler Ellsworth Shirley - Sec. 3
Operator ID County District Quadrangle

2) Operator's Well Number: 3H 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, 4505 psi

8) Proposed Total Vertical Depth: 6930' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 17849'

11) Proposed Horizontal Leg Length: 10395'

12) Approximate Fresh Water Strata Depths: 313' TVD

13) Method to Determine Fresh Water Depths: 1980 study "Freshwater & Saline Groundwater Study of WV" 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

Received
Office of Oil & Gas
AUG 05 2015

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

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#	17849'	17849'	Cement to 1641'-4121 cuft
Tubing	2.375"	New	L-80	4.7#	---	---	---
Liners	NA	---	---	---	---	---	---

MAG
7/17/15

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	3774	---	---
Liners	NA	---	---	---	---	---	---

PACKERS

Kind:	HES Versa-Set Retrievable Packer		
Sizes:	2.375" x 5.5"		
Depths Set:	6500'		

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AUG 05 2015

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

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Office of Oil & Gas
AUG 05 2015

*Note: Attach additional sheets as needed.

WW-6B – Yurigan 3H

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 3H

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.

WW-9
(2/15)

09502303

API Number 47 - _____
Operator's Well No. Yurigan 3H

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 _____)

Michael Duff
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. Air/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.

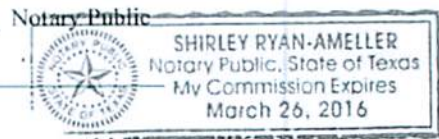
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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

Received
Office of Oil & Gas
AUG 05 2015

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

Shirley Ryan-Ameller
My commission expires 7-20-2016



10/30/2015

09502303

Operator's Well No. Yurigan 3H

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 Goff

Comments: Preseed and mulch any disturbed areas per WV DEP regulations. Maintain & Upgrade E-n-s as necessary.

Title: Oil & Gas Inspector

Date: 7/17/15

Field Reviewed? (X) Yes () No

Received Office of Oil & Gas AUG 05 2015

09502303



Michael Goff
7/17/15

Yurigan Pad 3H – Site Safety Plan

Statoil USA Onshore Properties, Inc.

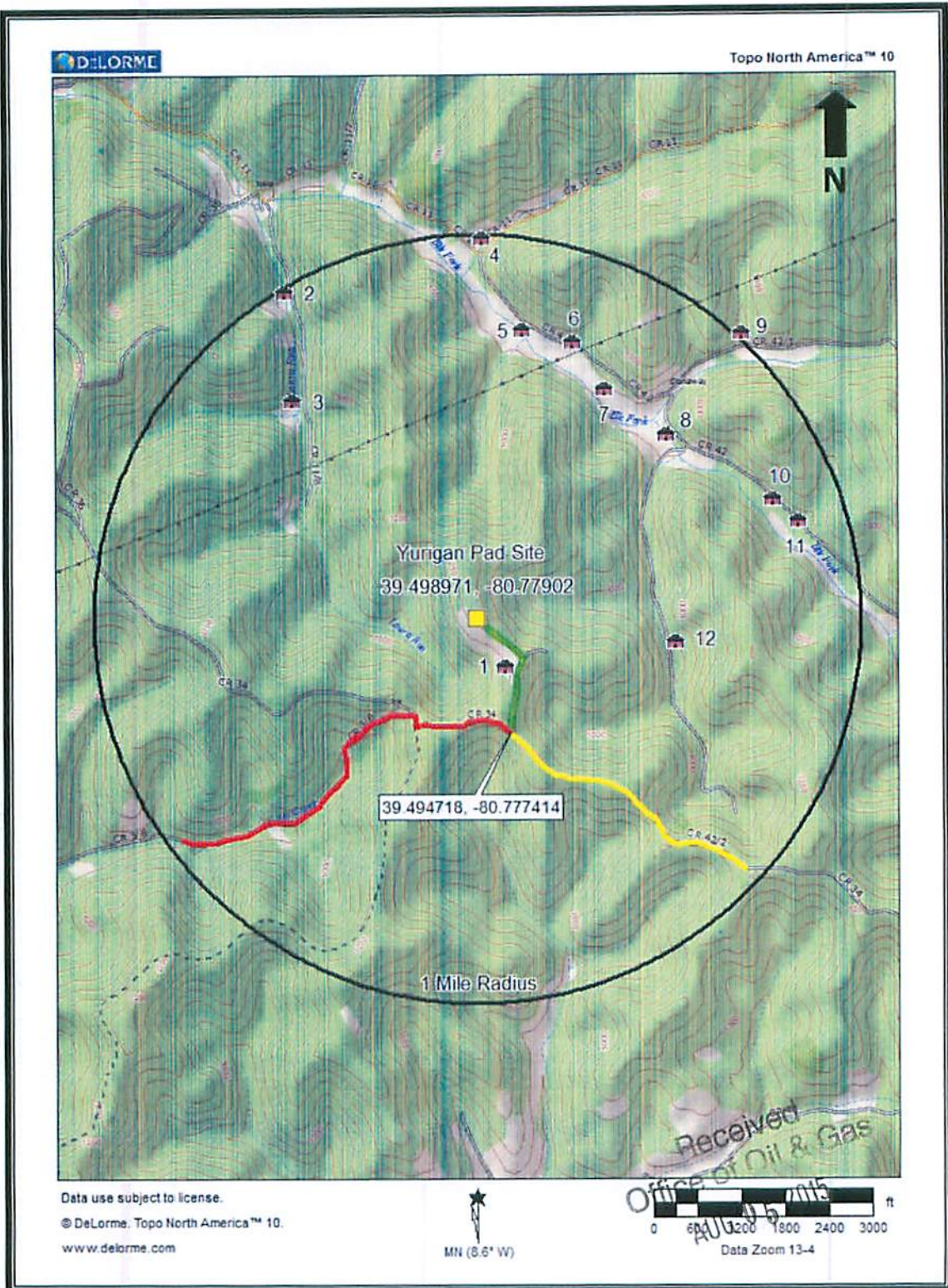
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Office of Oil & Gas
AUG 05 2015

10/30/2015

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7/17/15

09502303

C. Evacuation Plan



* Lease road is shown in Green

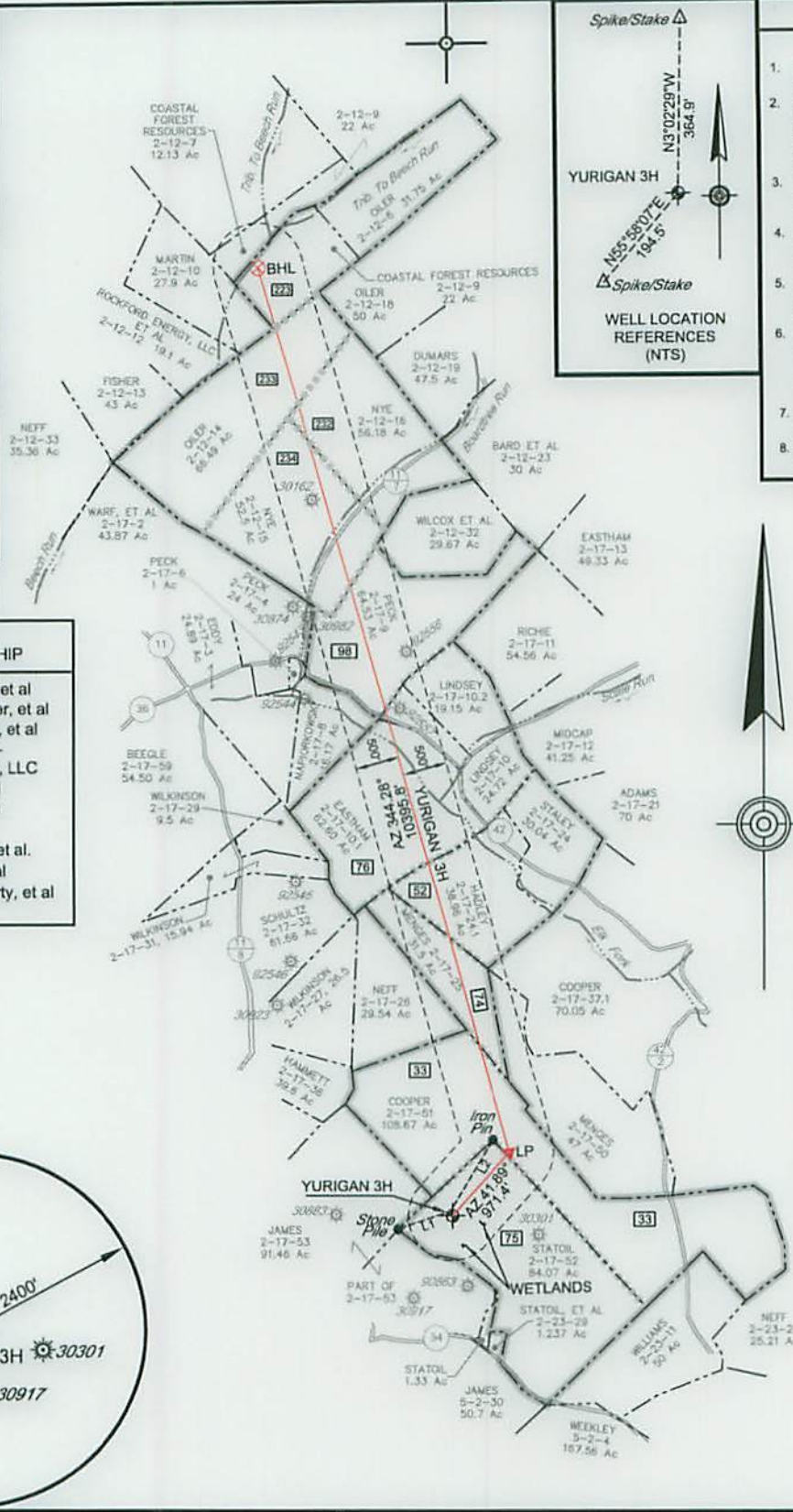
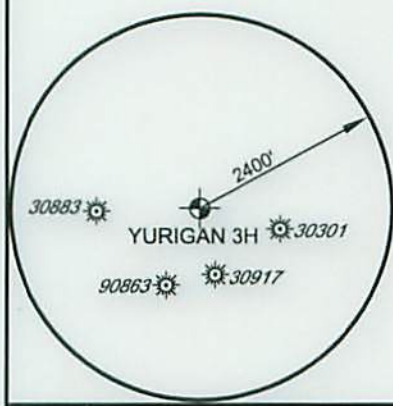
SURFACE HOLE LOCATION
 UTM 17 - NAD 83
 N - 4372156.96
 E - 519011.56
 WV SPC NORTH NAD83
 N - 366366.95
 E - 1607630.68

LANDING POINT LOCATION
 UTM 17 - NAD 83
 N - 4372380.58
 E - 519205.47
 WV SPC NORTH NAD83
 N - 367090.16
 E - 1608279.25

BOTTOM HOLE LOCATION
 UTM 17 - NAD 83
 N - 4375414.89
 E - 518296.30
 WV SPC NORTH NAD83
 N - 377096.98
 E - 1605462.04

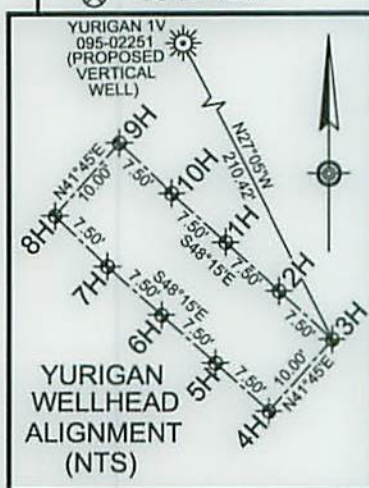
PROPERTY TIES
 L1 - S76°24'01"W 637.6'
 L2 - N27°55'13"E 978.9'

- YURIGAN 3H MINERAL OWNERSHIP**
- 75 - Almeda S. James, et al
 - 33 - Jonathan S. Cooper, et al
 - 74 - Emery Jay Minges, et al
 - 52 - American Energy - Marcellus Minerals, LLC
 - 76 - Cathy Jo Ash, et al
 - 98 - Daniel Ferrell, et al
 - 234 - Patricia A. Nye
 - 232 - Barbara Ann Mott et al.
 - 233 - Elaine L. Oiler, et al
 - 223 - Shirley B. Dougherty, et al



- 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
 - ⊙ - COUNTY ROADS
 - ⊙ - PUBLIC ROADS
 - BLUE-LINE STREAMS
 - ⊙ - MINERAL OWNER
 - ⊙ - PROPOSED WELL
 - ⊙ - EXISTING WELL
 - ⊙ - LANDING POINT
 - ⊙ - BOTTOM HOLE



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

W.V.D.E.P. OFFICE OF OIL AND GAS
 601 57TH STREET
 CHARLESTON, WV 25304

DATE 9-15-2015
 OPERATORS WELL NO. YURIGAN 3H
 API WELL NO. 47
 STATE COUNTY PERMIT 095 02303H6A

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 691.1

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 6930
 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

10/30/2015

09502303

WW-6A1
(5/13)

Operator's Well No. Yurigan 3H

**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)

Received
Office of Oil & Gas
AUG 05 2015
AUG 05 2015

**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: *[Signature]*
 Its: Sr. Regulatory Advisor

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

Yurigan 3H

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

TRACT #75

<u>Lease Name or Number</u>	<u>Grantor, Lessor</u>	<u>Grantee, Lessee</u>	<u>Royalty</u>	<u>Book / Page</u>
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

<u>Lease Name or Number</u>	<u>Grantor, Lessor</u>	<u>Grantee, Lessee</u>	<u>Royalty</u>	<u>Book / Page</u>
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 #74

<u>Lease Name or Number</u>	<u>Grantor, Lessor</u>	<u>Grantee, Lessee</u>	<u>Royalty</u>	<u>Book / Page</u>
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

TRACT #52

<u>Lease Name or Number</u>	<u>Grantor, Lessor</u>	<u>Grantee, Lessee</u>	<u>Royalty</u>	<u>Book / Page</u>
000168584-000	Mary Maxine Welch and Mary Anne Ketelsen/American Energy	JB Exploration I, LLC - Marcellus Minerals, LLC	At least 1/8	398/354
N/A	JB Exploration I, LLC/etc.	Statoil USA Onshore Properties Inc.	Assignment	469/419

Office of Oil & Gas
 11/10/2015
 Revised

09502303

TRACT #76

<u>Lease Name or Number</u>	<u>Grantor, Lessor</u>	<u>Grantee, Lessee</u>	<u>Royalty</u>	<u>Book / Page</u>
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 #98

<u>Lease Name or Number</u>	<u>Grantor, Lessor</u>	<u>Grantee, Lessee</u>	<u>Royalty</u>	<u>Book / Page</u>
000115097-004	Daniel Ferrell	PetroEdge Energy, LLC	At least 1/8	389/827
000115097-005	Sheldon Ferrell	PetroEdge Energy, LLC	At least 1/8	384/726
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	406/147

TRACT #234

<u>Lease Name or Number</u>	<u>Grantor, Lessor</u>	<u>Grantee, Lessee</u>	<u>Royalty</u>	<u>Book / Page</u>
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

TRACT #232

<u>Lease Name or Number</u>	<u>Grantor, Lessor</u>	<u>Grantee, Lessee</u>	<u>Royalty</u>	<u>Book / Page</u>
000115097-007	Barbara Ann Mott	PetroEdge Energy, LLC	At least 1/8	393/506
000115097-009	Joyce Wilcox	PetroEdge Energy, LLC	At least 1/8	393/509
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	406/147

TRACT #233

<u>Lease Name or Number</u>	<u>Grantor, Lessor</u>	<u>Grantee, Lessee</u>	<u>Royalty</u>	<u>Book / Page</u>
000143241-004	Elaine L. Oiler	PetroEdge Energy, LLC	At least 1/8	400/195
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	408/66
000143241-005	D. Kaminsky	PetroEdge Energy, LLC	At least 1/8	415/313
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	436/1

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TRACT #223

<u>Lease Name or Number</u>	<u>Grantor, Lessor</u>	<u>Grantee, Lessee</u>	<u>Royalty</u>	<u>Book / Page</u>
000164950-008	Shirley B. Dougherty	Statoil USA Onshore Properties Inc.	At least 1/8	462/75
000164950-001	Sallie Richardson	Statoil USA Onshore Properties Inc.	At least 1/8	460/509

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YURIGAN ROAD CROSSING LETTERS – 7.06.2015

YURIGAN 3H - 10
75
33
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52
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98
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232
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10/30/2015

162 PDP

09502303

MILLER LAW OFFICES, PLLC

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

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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 Only)
 RECORDED: Deed Book 380, at page 52 (Memorandum Only)
 LESSOR: John Wayne Weekley, a married man dealing in his sole and separate property

Received
 Office of Oil & Gas
 AUG 05 2015

09502303



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



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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09502303

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

09502303

MILLER LAW OFFICES, PLLC

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

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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 Gas, and a map depicting the approximate location of the Subject Lands is included in the Title Packet and titled "Tax Maps and Plats 2015"

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Office of Oil & Gas
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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 17, parcel 25, located in Ellsworth District, Tyler County, West Virginia

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 Office of Oil & Gas
 AUG 05 2015

31 pgs

RADCLIFF PLLC

09502303

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

Patrickradcliff@hotmail.com
304-295-6027

Date: May 20, 2015

Statoil USA Onshore Properties, Inc.
Central Accounts Payable
2103 City West Boulevard, Suite 800
Houston, TX 77042

ATTN: Jared Guynes
Senior Landman

RE: Tract Index No. 52
Tax parcel No. (2)-17/23, 17/24, 17/24.1
68 Acres
Ellsworth District
Tyler County, WV

ORIGINAL DRILL TITLE OPINION

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

DESCRIPTION OF LANDS

The subject leasehold tract consists of an original tract said to contain 68 acres, now comprising three (3) separate surface tracts. The metes and bounds description per Deed Book 141, at page 381 dated September 12, 1956 for said tract are as follows:

68 Acre Tract

Beginning at a stone corner to J. m. mayfield in a run and with two of his lines S. 23 ½ W. 26 poles to a stone; thence S. 35 W. 30 poles to a Sycamore near Elk Fork; thence S. 47 W. 69 poles to a stone pile in the old line; thence N. 51 W. 91 poles to a stone corner to Hoge; thence N. 60 W. 14 poles to a stone; thence N. 54 ¼ E. 37 ½ poles to a Bunch of Mulberry; thence N. 41 E. 52 poles to a stone; thence S. 45 E. 78 poles to the place of beginning, supposed to contain six (68) acres, more or less.

This description is subject to an accurate survey. See Exhibit B for Tax Map reference

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AUG 05 2015

LANDS DESCRIBED	The subject coal tract described as all of the coal, carbon or rock oil, salt or other minerals substances excavated, pumped, raised or manufactured from or upon premises described as a tract of 606 acres, by metes and bounds description, which included the subject tract.
INTEREST COVERED	100%
PRIMARY TERM	20 years
SECONDARY TERM	None
ASSIGNMENTS	None of record

Interests of State of State of WVA in Roads and Easements

There are no conveyances of record to the State of West Virginia for roads or other easements from the owners of the oil and gas during the period of this search and therefore, the State holds no interest in the oil and gas underlying the subject property which would affect the subject lease.

Encumbrances

Taxes

2015 taxes are a lien, although not yet due, ascertainable or payable.

2014 taxes are paid upon the following assessments appearing in the 2014 Land Book:

A. Oil and Gas

Oil and Gas

1. Wilcox, Phillip Ronald, David Mark, Ronald Wilcox, 1/4 MINERALS 68 AC. ELK FORK. 2-9999-00012010. 2014 taxes Paid. Tax ticket #7779; mailed to: 50 Farhatt Lane, Sistersville, West Virginia 26175.
2. Ketelsen, Mary Anne, 3/4 MINERALS 68 AC. ELK FORK. 2-9999-00011570. 2014 taxes Paid, Tax ticket #5759; mailed to: 2703 Beach Drive, Belpre, Ohio 45714-1827.

Surface

1. Staley, Robert E. & Marjorie J., LOT SIE 150X75X150X150 (.387), 1 A (2T) ELK FORK, Tax Map 17/23. 2014 taxes Paid. Tax ticket #7286; mailed to: 8748 Elk Fork Rd., Middlebourne, West Virginia 26149-9748.
2. Staley, Shawna Lea, 30.04 A, ELK FORK, Tax Map 17/24. 2014 taxes Paid. Tax ticket # 7288; mailed to: 581 Veterans Hwy., New Martinsville, West Virginia 26155-7457.
3. Hadley, Phillip M. & Dawn R., 36.96 AC & PLAT ELK FORK, Tax Map 17/24.1. 2014 taxes Paid. Tax ticket #5217; mailed to: 8628 Elk Fork Rd., Middlebourne, West Virginia 26149-7669.

Received
Office of Oil & Gas
AUG 05 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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Office of Oil & Gas

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Heirs or Deviseses of William Ralph Mayfield, deceased (0.1) [UNLEASED]	0.10000000	0.10000000
Heirs or Deviseses 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%

(34 pp)

MILLER LAW OFFICES, PLLC 09502303

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

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millerlawofficeswv.com

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

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

May 28, 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. 98
Title of Ann Francis Zinn, et al.
to 64.53125000 acres oil and gas
waters of Elk Fork, Ellsworth District,
Tyler County, West Virginia
Tax Map #2-17, parcel 9

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tract: Tax Map #2-17, parcel 9, containing 64.53125000 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 293, at page 622, 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:

FIRST TRACT: Contains 63 acres and 138 poles, more or less, and is bounded as follows: On the North by land of C. M. Wilcox; On the East by land of the heirs of J. J. Bennett, deceased; On the South by land of W. E. Mayfield, deceased; On the West by land of M. M. Baker (now C. M. Wilcox).

SECOND TRACT: Contains 107 poles, more or less, and adjoins the first above described tract of land.

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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.

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 9, 2011
 FILED: March 18, 2011 (Memorandum Only)
 RECORDED: Deed Book 380, at page 569 (Memorandum Only)
 LESSOR: Ann Francis Zinn, a married woman dealing in her sole and separate property
 LESSEE: PetroEdge Energy, LLC
 LANDS DESCRIBED: The Subject Lands, being Tax Map 17, parcel 9, located in Ellsworth District, Tyler County, West Virginia
 INTEREST COVERED: 1/10 oil and gas interest underlying the Subject Lands
 PRIMARY TERM: 5 years
 RENEWAL: Lessee has the option to extend the primary term of the Lease for one additional term of three (3) years from the expiration of the primary term
 ROYALTY: 12.5%
 POOLING: The Lease does not contain an option to extend the primary term an additional term
 NOTE: None.

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 Office of
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L2. OIL AND GAS LEASE

DATE: May 24, 2011
 FILED: July 1, 2011 (Memorandum Only)
 RECORDED: Deed Book 384, at page 726 (Memorandum Only)

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 18, 1985 to July 18, 2014, to vest as follows:

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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 A DETAILED REVIEW OF ACTUAL LEASE PROVISIONS.

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AUG 05 2015

MILLER LAW OFFICES, PLLC

09502303

KENNETH R. MILLER
KENNETH ALEXANDER MILLER II
CHARLES E. 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. 232
to 52 acres oil and gas
Ellsworth District, Tyler County, West Virginia
Tax Map #12, parcel 16

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
Received
Office of Oil & Gas

Alex Miller AUG 05 2015

10/30/2015

MILLER LAW OFFICES, PLLC 09502303

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 23, 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. 233
Title of Elaine L. Oiler, et al.
to 66.49375000 acres oil and gas
waters of Beech Run at Elk Fork Creek,
Ellsworth District, Tyler County, West Virginia
Tax Map #2-12, parcel 14

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tract: Tax Map #2-12, parcel 14, containing 66.49375000 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 327, at page 797, 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 stone on Beech Run a corner to lands conveyed by M.W. McKnight, Trustee; thence N 48 E 181 poles to a hickory; S 39 1/2 E 44 poles to a stone in line of lands conveyed by said McKnight to J.W. McBride; thence with said line N 34 W 10 poles to a stone corner to said tract of land; thence N 52 W 65 poles to the beginning containing as aforesaid 66 acres and 79 poles, more or less.

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Office of Oil & Gas
Mar 23 2015

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

09502303

M. Susan Hamilton (0.05000000 x 17%) [L11]	0.00000000	0.00850000
Linda Carter (0.00312500 x 17%) [L12]	0.00000000	0.00053125
Carole Ann Poole (0.10000000 x 17%) [L13]	0.00000000	0.01700000
Cynthia L. Ruda (0.00312500 x 17%) [L14]	0.00000000	0.00053125
Liese Zielasko Brefka [UNLEASED]	0.00208333	0.00208333
Linda Zielasko Killingsworth [UNLEASED]	0.00208333	0.00208333
Michael C. S. Robinson [Unleased]	0.00312500	0.00312500
Patrick J. Robinson [Unleased]	0.00312500	0.00312500
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:

June 15, 2012

FILED:

August 31, 2012 (Memorandum Only)

RECORDED:

Deed Book 400, at page 195 (Memorandum Only)

LESSOR:

Elaine L. Oiler, a widow

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MILLER LAW OFFICES, PLLC 09502303

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. 223
to 53.75 acres oil and gas
Ellsworth District, Tyler County, West Virginia
Tax Map #12, parcel 6, Tax Map #12, parcel 9

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
Office of Oil & Gas
Alex Miller AUG 05 2015

10/30/2015

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

09502303

Date of Notice Certification: 07/29/2015

API No. 47- _____
Operator's Well No. 3H
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>519011.56</u>
County: <u>Tyler</u>		Northing: <u>4372156.96</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 style="padding-left: 100px;"><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>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input 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.

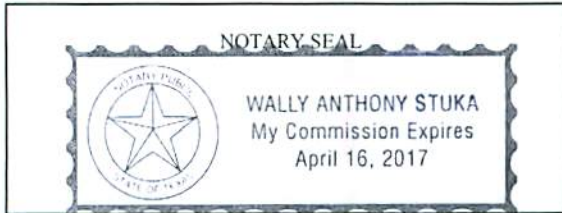
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Office of Oil & Gas
AUG 05 2015

09502303

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>Becki Winfree</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.

Wally Anthony Stuka 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 deprivacyofficer@wv.gov.

Received
Office of Oil & Gas
AUG 05 2015

WW-6A
(9-13)

API NO. 47-09502303
OPERATOR WELL NO. Yurigan 3H
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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Office of Oil & Gas

AUG 05 2015

10/30/2015

09502303

YURIGAN 3H – 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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Office of Oil & Gas
AUG 05 2015

10/30/2015

09502303

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. Fonnest ✓
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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AUG 05 2015

10/30/2015

09502303

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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AUG 05 2015

10/30/2015

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

09502303

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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Office of Oil & Gas
AUG 05 2015

10/30/2015

09502303

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

Water Well Owners -

10/30/2015

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

WAIVER

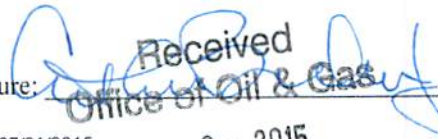
Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *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>519011.56</u>
County:	<u>Tyler</u>		Northing:	<u>4372156.96</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
Received
Office of Oil & Gas
AUG 05 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.

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.

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County:	<u>Tyler</u>		Northing:	<u>4372156.96</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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STATE OF WEST VIRGINIA **09502303**
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.

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State: West Virginia
County: Tyler
District: Ellsworth
Quadrangle: Shirley - Sec. 3
Watershed: Elk Fork

UTM NAD 83 Easting: 519011.56
Northing: 4372156.96
Public Road Access: CR 11 and 34/3
Generally used farm name: Yurigan Farm

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

Signature: 
Date: 07/21/2015

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Office of Oil & Gas
AUG 05 2015

WW-6A
(8-13)

API NO. 47- _____
OPERATOR WELL NO. Yurigan 3H
Well Pad Name: YURIGAN

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

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10/30/2015

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

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

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AUG 05 2015

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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Office of Oil & Gas
AUG 05 2015

WW-6A
(8-13)

API NO. 09502303
OPERATOR WELL NO. Yurigan 3H
Well Pad Name: YURIGAN

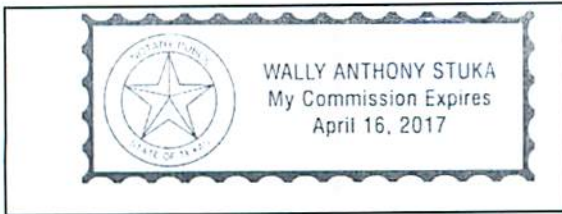
Notice is hereby given by:

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

09502303
Address: 2103 CityWest Blvd. Suite 800
Houston, TX 77042
Facsimile: 713-918-8290

Oil and Gas Privacy Notice:

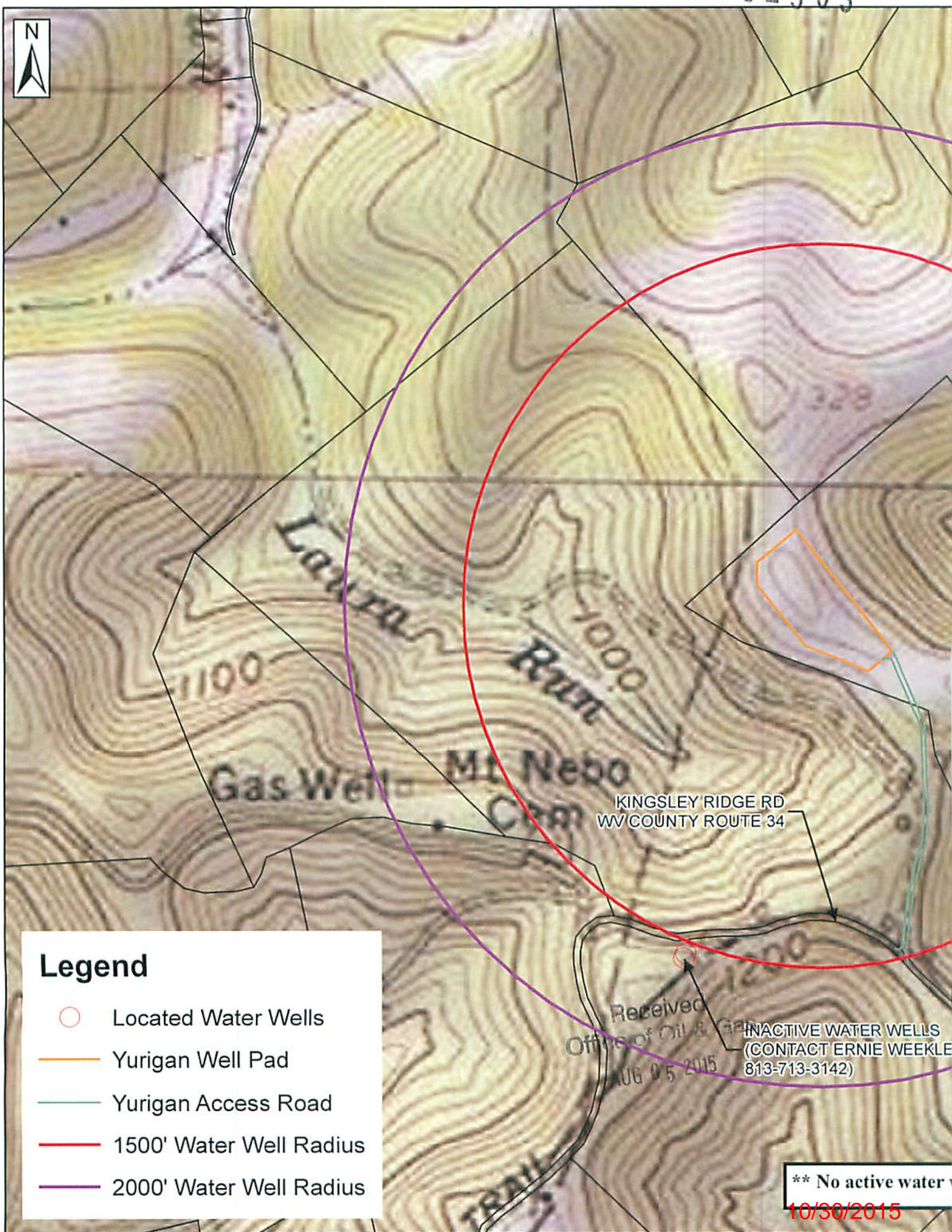
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Subscribed and sworn before me this 30 day of July, 2015.
Wally Anthony Stuka Notary Public
My Commission Expires April 16, 2017

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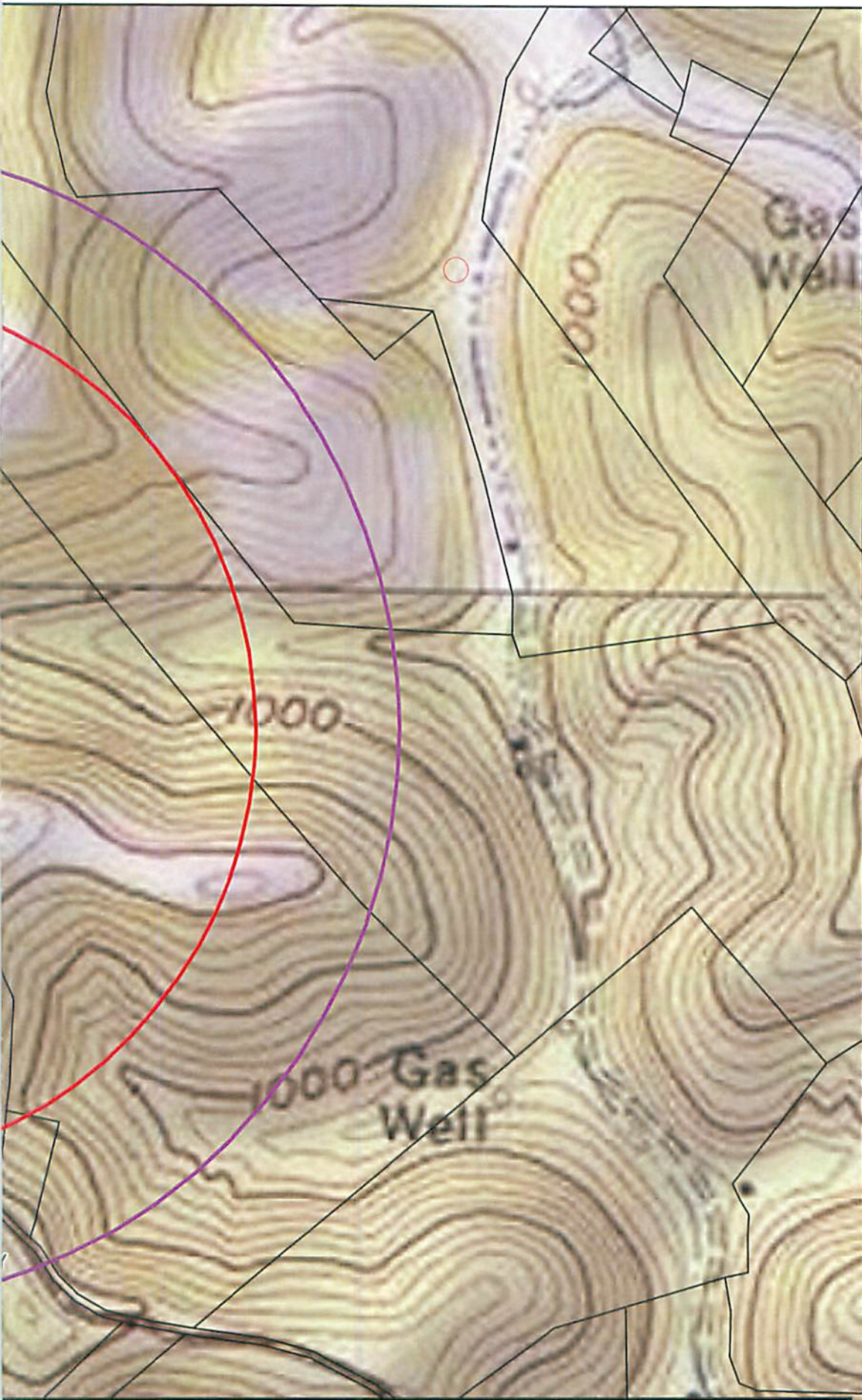
10/30/2015



Legend

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

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



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

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



10/30/2015

09502303



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 3H

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 well site located off of Tyler County Route 34 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Received
Very Truly Yours,
Office of Oil & Gas
AUG 05 2015
Gary K. Clayton

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

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

09502303

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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10/30/2015

FRICTION REDUCER

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

SAND

Crystalline Silica (quartz)	14808-60-7
Aluminum Oxide	1344-28-1
Iron Oxide	1309-37-1
Titanium Oxide	13463-67-7

GEL

Gelling Agent & Hydrocarbons	64742-96-7
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Office of Oil & Gas
AUG 05 2015

95-02303

APPROVED
WVDEP OOG

Weld 9/25/2015

YURIGAN (02-006) WELL PAD SITE

SITE DESIGN AND CONSTRUCTION PLANS EROSION AND SEDIMENT CONTROL PLANS

ELLSWORTH DISTRICT, TYLER COUNTY, WEST VIRGINIA
ELK FORK RUN WATERSHED

LOCATION COORDINATES
ACCESS ROAD ENTRANCE
LATITUDE: 36.494766 LONGITUDE: -80.777496 (NAD 83)
N 4371701.24 E 519132.13 (UTM ZONE 17 METERS NAD 83)

CENTER OF WELL PAD
LATITUDE: 36.498619 LONGITUDE: -80.778709 (NAD 83)
N 4372134.68 E 519025.82 (UTM ZONE 17 METERS NAD 83)

GENERAL DESCRIPTION
THE ACCESS ROADS AND COMBINED WELL AND FACILITIES PAD ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

MISS UTILITY STATEMENT
PROJECT DESIGN TICKET # 1412625097
IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT
WVDOH MM-109 PERMIT #5-2014-0554 ISSUED 09/23/2014 FOR WELL SITE ACCESS. EXPIRES 09/25/2015 UNLESS RENEWED.

ENVIRONMENTAL NOTES
WETLAND DELINEATIONS WERE PERFORMED BETWEEN APRIL 12 TO APRIL 16, 2014 BY LARSON DESIGN GROUP TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE YURIGAN (WV-8) JURISDICTIONAL STREAMS & WETLANDS MAPS WERE PREPARED BY LARSON DESIGN GROUP AND SUMMARIZE THE RESULTS OF THE FIELD DELINEATION. THE MAPS DO NOT IN ANY WAY REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USAGE OR THE WDEP. IT IS STRONGLY RECOMMENDED THAT THE AFORESAIDED AGENCIES BE CONSULTED IN AN EFFORT TO OBTAIN WRITTEN CONFIRMATION OF THE DELINEATION SHOWN ON THIS PERMIT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILL AND STREAM CROSSINGS.

GEOTECHNICAL WORK
A GEOTECHNICAL INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY LARSON DESIGN GROUP ON JUNE 9TH THROUGH JUNE 11TH, 2014. THE REPORT PREPARED BY LARSON DESIGN GROUP IN JULY, 2014 REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS WERE USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE PRELIMINARY GEOTECHNICAL INFORMATION BY LARSON DESIGN GROUP FOR ADDITIONAL INFORMATION, AS NEEDED.

PROJECT CONTACTS

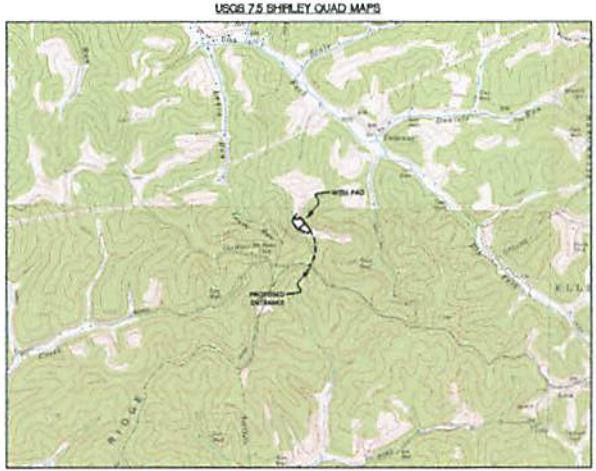
OPERATOR:
STATOL
2103 CITY WEST BLVD., SUITE 800
HOUSTON, TX 77042
PHONE: (713) 918-8200

CLIENT: LONG - MANAGER, CIVIL CONSTRUCTION
OFFICE: (713) 483-2617
CELL: (713) 261-8633

- RESTRICTIONS NOTES:**
1. THERE ARE NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LCO.
 2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LCO.
 3. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LCO.
 4. THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) BEING DRILLED.
 5. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.
 6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

PARCEL DISTURBANCE
TOTAL LIMITS OF DISTURBANCE = 13.3 AC
DISTURBANCE ON PROPERTY OF STATOL (PARCEL 2-17-52) = 12.0 AC
DISTURBANCE ON PROPERTY OF STATOL (PARCEL 0 UNASSIGNED) = 1.3 AC

ACCESS ROAD AND PAD DISTURBANCES
TOTAL LIMITS OF DISTURBANCE = 13.3 AC
WELL PAD DISTURBANCE = 8.3 AC
ACCESS ROAD DISTURBANCE = 5.0 AC



SHEET INDEX

1	COVER SHEET
2-3	CONSTRUCTION AND EAS CONTROL NOTES
4	EXISTING CONDITIONS
5	OVERALL PLAN SHEET INDEX & VOLUMES
6-7	EROSION & SEDIMENTATION CONTROL PLAN
8	WELL PAD GRADING PLAN AND CONTAINMENT PLAN
9	FACILITIES LAYOUT
10-12	ACCESS ROAD CROSS SECTIONS
13	WELL PAD CROSS SECTIONS
14	STOCKPILE PROFILES AND SECTIONS
15-17	CONSTRUCTION DETAILS
18-19	RECLAMATION PLAN

DESIGN CERTIFICATION
THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CSR 35-8.

MISS Utility of West Virginia
1-800-245-4848
West Virginia State Law
(Section XIV, Chapter 24-C)
Requires that you call two
business days before you dig in
the state of West Virginia.
IT'S THE LAW!

PROPOSED WELL NAME	WV NORTH HAD 27	WV NORTH HAD 83	UTM (US SHIRLEY FT.) HAD 27 - ZONE 17	UTM (METERS) HAD 83 - ZONE 17	NAD 83 LAT & LONG	EXISTING ELEVATION ELEVATION BY WELLSHAFT
1H	N 365341.44 E 1639060.66	N 365376.94 E 1637819.48	N 14343013.08 E 1702731.71	N 4372159.84 E 518038.10	LAT 39.498847 LONG -80.778925	1262.0'
2H	N 365336.44 E 1639066.26	N 365371.94 E 1637825.08	N 14343608.18 E 1702737.39	N 4372158.45 E 519209.85	LAT 39.498834 LONG -80.778905	1261.7'
3H	N 365331.45 E 1639071.86	N 365366.95 E 1637830.68	N 14343603.28 E 1702743.08	N 4372158.39 E 519211.58	LAT 39.498821 LONG -80.778885	1261.4'
4H	N 365323.98 E 1639065.20	N 365358.48 E 1637834.02	N 14343595.71 E 1702738.54	N 4372158.45 E 519209.57	LAT 39.498777 LONG -80.778908	1260.8'
5H	N 365328.99 E 1639059.60	N 365364.48 E 1637838.42	N 14343600.81 E 1702730.86	N 4372159.14 E 519207.84	LAT 39.498813 LONG -80.778929	1260.8'
6H	N 365333.97 E 1639053.99	N 365369.47 E 1637842.82	N 14343605.30 E 1702725.18	N 4372157.83 E 519205.10	LAT 39.498827 LONG -80.778949	1260.8'
7H	N 365329.97 E 1639046.41	N 365364.47 E 1637837.21	N 14343601.41 E 1702718.51	N 4372159.13 E 519204.38	LAT 39.498840 LONG -80.779009	1260.7'
8H	N 365343.98 E 1639042.81	N 365376.48 E 1637831.83	N 14343615.30 E 1702718.53	N 4372160.52 E 519202.64	LAT 39.498853 LONG -80.778989	1260.6'
9H	N 365351.43 E 1639049.47	N 365386.99 E 1637828.29	N 14343622.88 E 1702720.36	N 4372162.93 E 519204.64	LAT 39.498875 LONG -80.778966	1261.4'
10H	N 365346.43 E 1639055.07	N 365381.93 E 1637833.89	N 14343617.98 E 1702728.04	N 4372161.44 E 519206.37	LAT 39.498861 LONG -80.778946	1261.7'
WELL PAD ELEVATION						1240.80'

Larson Design Group
12500 City West Blvd., Suite 800
Houston, TX 77042
Phone: 281.777.7941 Toll Free: 877.33.0603
Fax: 281.353.9032 • www.larsondesigngroup.com

COVER SHEET

YURIGAN (02-006) WELL SITE

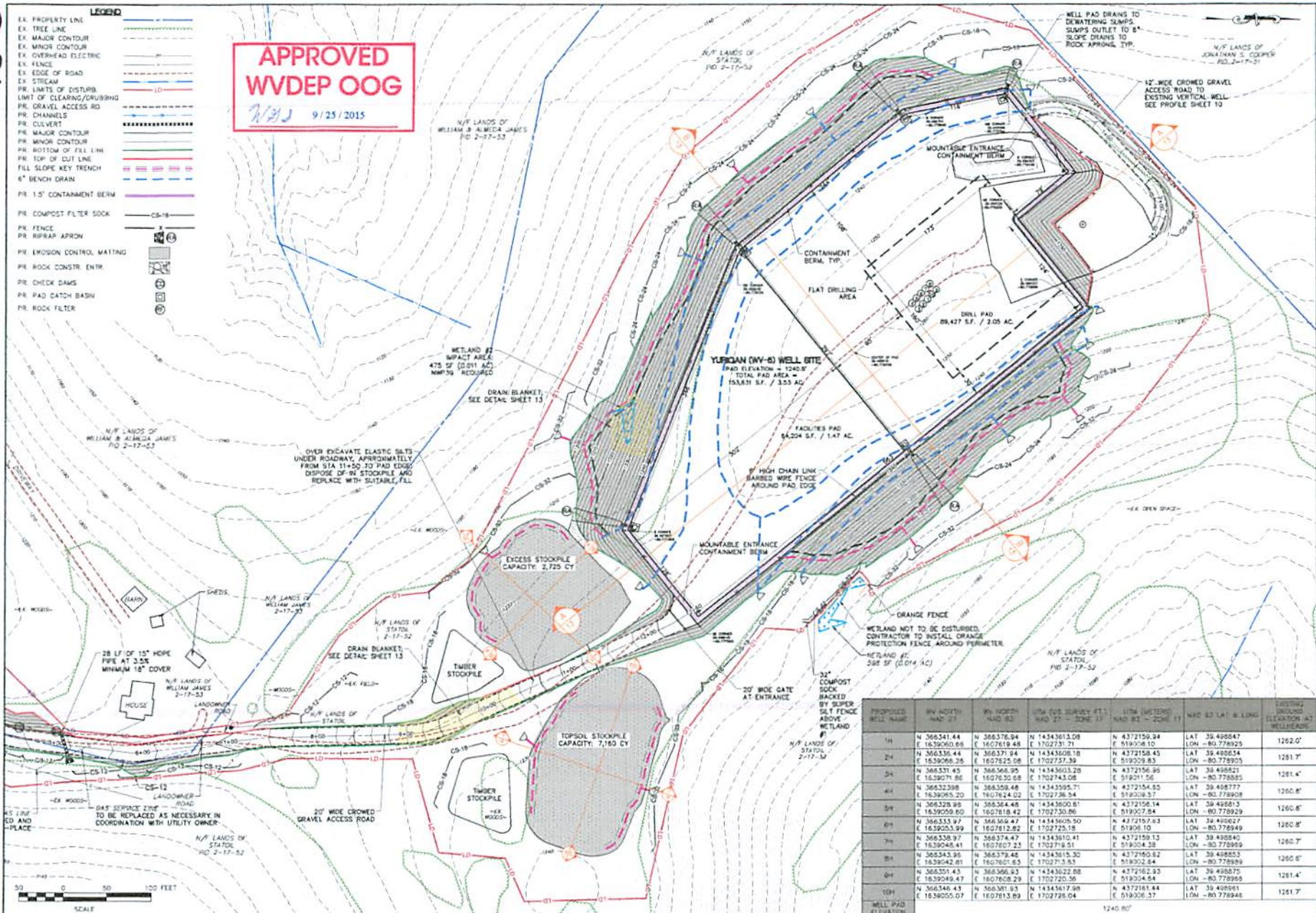
ELLSWORTH DISTRICT, TYLER COUNTY, WEST VIRGINIA

STATOL
2103 CITY WEST BLVD., SUITE 800
HOUSTON, TX 77042
PHONE: 281.777.7941 TOLL FREE: 877.33.0603
FAX: 281.353.9032 • www.larsondesigngroup.com

SHEET NO: **1 OF 19**

PROJECT NO: 8790-003-8

95-02303



APPROVED WVDEP OOG
WJS 9/25/2015

- LEGEND**
- EX. PROPERTY LINE
 - EX. TREE LINE
 - EX. MAJOR CONTOUR
 - EX. MINOR CONTOUR
 - EX. OVERHEAD ELECTRIC
 - EX. FENCE
 - EX. EDGE OF ROAD
 - EX. STREAM
 - PR. LIMITS OF DISTURB
 - PR. LIMIT OF CLEARING/GRUBBING
 - PR. GRAVEL ACCESS RD
 - PR. CHANNELS
 - PR. CULVERT
 - PR. MAJOR CONTOUR
 - PR. MINOR CONTOUR
 - PR. BOTTOM OF FILL 1:1H
 - PR. TOP OF CUT LINE
 - FILL SLOPE KEY TRENCH
 - 6" BENCH DRAIN
 - PR. 1.5' CONTAINMENT BERM
 - PR. COMPOST FILTER SOCK
 - PR. FENCE
 - PR. RIPRAP APRON
 - PR. EROSION CONTROL MATTING
 - PR. ROCK CONSTR. ENTR.
 - PR. CHECK DAMS
 - PR. PAD CATCH BASIN
 - PR. ROCK FILTER

2007 STATE OF WEST VIRGINIA
 PROFESSIONAL ENGINEER
 11/27/2015
 01/17/2015
 01/17/2015
 01/17/2015

EROSION & SEDIMENTATION CONTROL PLAN
 YURIGAN (02-006) WELL SITE

COUNTY OF PUTNAM
 PROJECT NO. 8750-003-8

STATION 2103

SHEET NO. 7 OF 19

CONTRACTOR: YURIGAN

PROJECT NO. 8750-003-8

DESIGNER: J. W. WALKER

PROJECT NO. 8750-003-8

CHECKER: J. W. WALKER

PROJECT NO. 8750-003-8

APPROVED: J. W. WALKER

PROJECT NO. 8750-003-8

DATE: 9/25/2015

PROJECT NO. 8750-003-8

SCALE: 1" = 100'

PROJECT NO. 8750-003-8

SHEET NO. 7 OF 19

PROJECT NO. 8750-003-8

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PROJECT NO. 8750-

YURIGAN (02-006)

SITE DESIGN AND CONSTRUCTION EROSION AND SEDIMENTATION CONTROL

ELLSWORTH DISTRICT, TYLER COUNTY
ELK FORK RUN WATERSHED

LOCATION COORDINATES

ACCESS ROAD ENTRANCE
LATITUDE: 39.494766 LONGITUDE: -80.777496 (NAD 83)
N 4371701.24 E 519132.13 (UTM ZONE 17 METERS NAD 83)

CENTER OF WELL PAD
LATITUDE: 39.498619 LONGITUDE: -80.778709 (NAD 83)
N 4372134.66 E 519026.82 (UTM ZONE 17 METERS NAD 83)

GENERAL DESCRIPTION

THE ACCESS ROAD(S) AND COMBINED WELL AND FACILITIES PAD ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF INDIVIDUAL MARCELLUS SHALE GAS WELLS.

MISS UTILITY STATEMENT

PROJECT DESIGN TICKET #: 1412625097.
IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT

WOODH MM-109 PERMIT #6-2014-0554 ISSUED 09/25/2014 FOR WELL SITE ACCESS. EXPIRES 09/25/2015 UNLESS RENEWED.

ENVIRONMENTAL NOTES

WETLAND DELINEATIONS WERE PERFORMED BETWEEN APRIL 12 TO APRIL 16, 2014 BY LARSON DESIGN GROUP TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE YURIGAN (WV-6) JURISDICTIONAL STREAMS & WETLANDS MAPS WERE PREPARED BY LARSON DESIGN GROUP AND SUMMARIZE THE RESULTS OF THE FIELD DELINEATION. THE MAPS DO NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION SHOWN ON THIS EXHIBIT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS.

GEOTECHNICAL NOTE

A GEOTECHNICAL INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY LARSON DESIGN GROUP ON JUNE 9TH THROUGH JUNE 11TH, 2014. THE REPORT PREPARED BY LARSON DESIGN GROUP IN JULY, 2014 REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS WERE USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE PRELIMINARY GEOTECHNICAL INFORMATION BY LARSON DESIGN GROUP FOR ADDITIONAL INFORMATION, AS NEEDED.

PROJECT CONTACTS

OPERATOR:

STATOIL
2103 CITY WEST BLVD., SUITE 800
HOUSTON, TX 77042
PHONE: (713) 918-8200

CLINT LONG - MANAGER, CIVIL CONSTRUCTION
OFFICE: (713) 485-2617
CELL: (713) 261-9633

RESTRICTIONS NOTES:

1. THERE ARE NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE WELL PAD AND LOD.
2. THERE ARE NO NATURALLY PRODUCING TROUT STREAMS WITHIN 300 FEET OF THE WELL PAD AND LOD.
3. THERE ARE NO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY FACILITIES WITHIN 1000 FEET OF THE WELL PAD AND LOD.
4. THERE ARE NO APPARENT EXISTING WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF THE WELL(S) BEING DRILLED.
5. THERE ARE NO OCCUPIED DWELLING STRUCTURES WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.
6. THERE ARE NO AGRICULTURAL BUILDINGS LARGER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF THE CENTER OF THE WELL PAD.

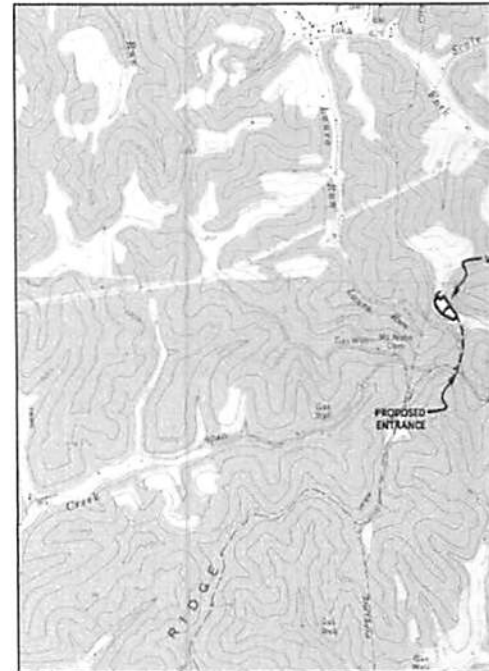
PARCEL DISTURBANCE

TOTAL LIMITS OF DISTURBANCE = 13.3 AC
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DISTURBANCE ON PROPERTY OF STATOIL (PARCEL ID UNASSIGNED) = 1.3 AC
DISTURBANCE ON PROPERTY OF WILLIAM & ALMEDA JAMES (PARCEL 5-2-30) = 0.01 AC

ACCESS ROAD AND PAD DISTURBANCES

TOTAL LIMITS OF DISTURBANCE = 13.3 AC
WELL PAD DISTURBANCE = 8.3 AC
ACCESS ROAD DISTURBANCE = 5.0 AC

USGS 7.5 SHIPLEY QUADRANGLE



2000 0
SCALE: 1"=2000'

SHEET INDEX

1	COVER SHEET
2-3	CONSTRUCTION AND E&S CONDITIONS
4	EXISTING CONDITIONS
5	OVERALL PLAN SHEET INDEX
6-7	EROSION & SEDIMENTATION CONTROL
8	WELL PAD GRADING PLAN AND FACILITIES LAYOUT
9	FACILITIES LAYOUT
10-12	ACCESS ROAD CROSS SECTIONS
13	WELL PAD CROSS SECTIONS
14-16	CONSTRUCTION DETAILS
17-18	RECLAMATION PLAN

DESIGN CERTIFICATION
THE DRAWINGS, CONSTRUCTION NOTES, AND SPECIFICATIONS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIRGINIA CODE OF STATE RULES, REGULATIONS, AND ORDINANCES, OFFICE OF OIL AND GAS COMMISSIONERS.

MISS Utility of West Virginia
1-800-245-4444
West Virginia State
(Section XIV: Chapter 20)
Requires that you
business days before
the state of West Virginia
IT'S THE LAW

10/30/2015

WELL PAD SITE

CONSTRUCTION PLANS CONTROLS PLANS

TYLER COUNTY, WEST VIRGINIA
WYOMING DISTRICT

Received
Office of Oil & Gas
AUG 05 2015



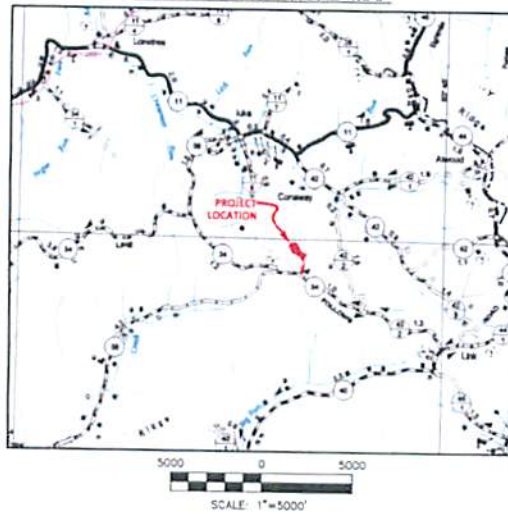
MAPS



WEST VIRGINIA COUNTY MAP



WYOMING COUNTY ROAD MAP



Michael J. Paul
7/17/15

CONTROL NOTES

& VOLUMES

CONTROL PLAN

CONTAINMENT PLAN

S

REFERENCE DIAGRAM
ACCORDANCE WITH THE
N. OF ENVIRONMENTAL
-B.

Virginia
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Law
24-C)
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ou dig in
Virginia.

PROPOSED WELL NAME	WV NORTH NAD 27	WV NORTH NAD 83	UTM (US SURVEY FT.) NAD 27 - ZONE 17	UTM (METERS) NAD 83 - ZONE 17	NAD 83 LAT & LONG	EXISTING GROUND ELEVATION AT WELLHEADS
1H	N 366341.44 E 1639060.66	N 366376.94 E 1607619.48	N 14343613.08 E 1702731.71	N 4372159.94 E 519008.10	LAT 39.498847 LON -80.778925	1262.0'
2H	N 366336.44 E 1639066.26	N 366371.94 E 1607625.08	N 14343608.18 E 1702737.39	N 4372158.45 E 519009.83	LAT 39.498834 LON -80.778905	1261.7'
3H	N 366331.45 E 1639071.86	N 366366.95 E 1607630.68	N 14343603.28 E 1702743.08	N 4372156.96 E 519011.56	LAT 39.498821 LON -80.778885	1261.4'
4H	N 366323.98 E 1639065.20	N 366359.48 E 1607624.02	N 14343595.71 E 1702736.54	N 4372154.65 E 519009.57	LAT 39.498777 LON -80.778908	1260.8'
5H	N 366328.98 E 1639059.60	N 366364.48 E 1607618.42	N 14343600.61 E 1702730.86	N 4372156.14 E 519007.84	LAT 39.498813 LON -80.778929	1260.8'
6H	N 366333.97 E 1639053.99	N 366369.47 E 1607612.82	N 14343605.50 E 1702725.18	N 4372157.63 E 519006.10	LAT 39.498827 LON -80.778949	1260.8'
7H	N 366338.97 E 1639048.41	N 366374.47 E 1607607.23	N 14343610.41 E 1702719.51	N 4372159.13 E 519004.38	LAT 39.498840 LON -80.778969	1260.7'
8H	N 366343.96 E 1639042.81	N 366379.46 E 1607601.63	N 14343615.30 E 1702713.83	N 4372160.62 E 519002.64	LAT 39.498853 LON -80.778989	1260.6'
9H	N 366351.43 E 1639049.47	N 366386.93 E 1607608.29	N 14343622.88 E 1702720.36	N 4372162.93 E 519004.64	LAT 39.498875 LON -80.778966	1261.4'
10H	N 366346.43 E 1639055.07	N 366381.93 E 1607613.89	N 14343617.98 E 1702728.04	N 4372161.44 E 519005.37	LAT 39.498961 LON -80.778946	1261.7'

WELL PAD ELEVATION

1240.80'

COVER SHEET

YURIGAN (02-006) WELL SITE
ELLSWORTH DISTRICT, TYLER COUNTY, WEST VIRGINIA

Larson Design Group - Architects Engineers Surveyors
2505 Cranberry Square
Morgantown, WV 26508
PHONE 304.777.2940 TOLL FREE 877.333.6603
FAX 570.323.9902 • www.larsondesigngroup.com



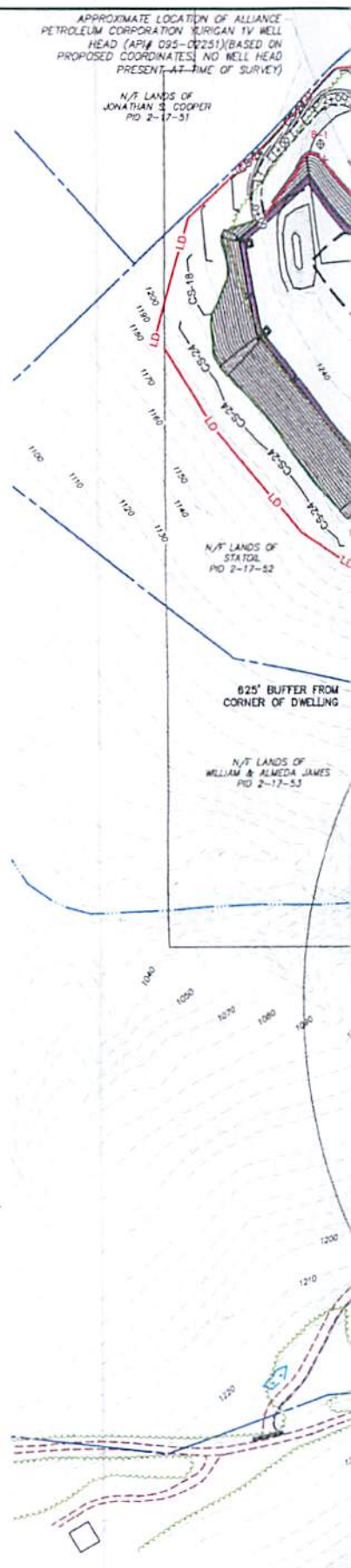
STATOIL
2103 CITY WEST BLVD., SUITE 800
HOUSTON, TX 77042
PHONE 713.918.6200

SHEET NO. 1 OF 18

PROJECT NO. 02-006-2015-01

10/30/2015

LEGEND	
EX. PROPERTY LINE	---
EX. TREE LINE	---
EX. MAJOR CONTOUR	---
EX. MINOR CONTOUR	---
EX. GASLINE	---
EX. OVERHEAD ELECTRIC	---
EX. FENCE	---
EX. EDGE OF ROAD	---
EX. VERTICAL WELL	⊙
EX. STREAM	---
EX. WETLAND	---
PR. LIMITS OF DISTURB.	LD
PR. GRAVEL ACCESS RD	---
PR. ROADSIDE DITCH	---
PR. CULVERT	---
PR. MAJOR CONTOUR	---
PR. MINOR CONTOUR	---
PR. FILL LINE	---
PR. CUT LINE	---
PR. 1.5' CONTAINMENT BERM	CS-18
PR. COMPOST FILTER SOCK	CS-18
PR. FENCE	X
PR. RIPRAP APRON	⊙
PR. EROSION CONTROL MATTING	⊙
PR. ROCK CONSTR. ENTR.	⊙
PR. PAD CATCH BASIN	⊙
BOREHOLES	⊙



GENERAL NOTES

1. THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON APRIL 6 2013 AERIAL PHOTOGRAPHY COMPILED BY BLUE MOUNTAIN AERIAL MAPPING, BURTON, WEST VIRGINIA.
2. THE PROPERTY LINES HEREON ARE SHOWN PARTLY FROM AVAILABLE RECORD INFORMATION AND PARTLY FROM FIELD EVIDENCE LOCATED BY LDG, INC., BUT THEY DO NOT REPRESENT A BOUNDARY SURVEY AS DEFINED IN WVC 30-13A-3.
3. ALL PROPOSED ELEVATIONS ARE APPROXIMATE AND RELATIVE; PAD ELEVATIONS MAY BE FIELD ADJUSTED TO BALANCE EARTHWORK.

PARCEL DISTURBANCE

TOTAL LIMITS OF DISTURBANCE = 13.3 AC (INCLUDING ACCESS ROAD)

DISTURBANCE ON PROPERTY OF STATOIL (PARCEL 2-17-52) = 12.0 AC

DISTURBANCE ON PROPERTY OF STATOIL (PARCEL ID UNASSIGNED) = 1.3 AC

DISTURBANCE ON PROPERTY OF WILLIAM & ALMEDA JAMES (PARCEL 5-2-30) = 0.01 AC

ACCESS ROAD AND PAD DISTURBANCES

TOTAL LIMITS OF DISTURBANCE = 13.3 AC (INCLUDING ACCESS ROAD)

WELL PAD DISTURBANCE = 8.3 AC

ACCESS ROAD DISTURBANCE = 5.0 AC

ADDITIONAL DESIGN CONCERNS:

1. THE ACCESS ROAD ENTRANCE HAS BEEN DESIGNED TO AT A MINIMUM ACCOMMODATE A STATOIL DRILL RIG USING AUTOTURN.
2. THERE ARE STREAM IMPACTS THAT WILL NEED TO BE PERMITTED BY THE APPROPRIATE AGENCIES.



DATE: 7/13/2015
BY: [Signature]

NO. 0
DATE: 7/13/2015

ISSUE / REVISIONS

W/OEP PERMIT PLANS
COMMENTS

Received
Office of Oil & Gas
AUG 20 2015

Overall Plan Sheet Index & Volumes
YURIGAN (02-006) WELL SITE
ELLSWORTH DISTRICT, TYLER COUNTY, WEST VIRGINIA

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SHEET NO.: 5 OF 18
PROJECT NO.: 8790-001-5

