



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

May 21, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-9502243, issued to STATOIL USA ONSHORE PROPERTIES, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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

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

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



James Martin

Chief

Operator's Well No: PYLES 7H

Farm Name: PYLES, RICHARD D. & CATHY J.

API Well Number: 47-9502243

Permit Type: Horizontal 6A Well

Date Issued: 05/21/2015

Promoting a healthy environment.

05/22/2015

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



west virginia department of environmental protection

WVDEP Office of Oil and Gas
601 57th Street Southeast; Charleston, WV
(304) 926-0450

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
dep.wv.gov

May 20, 2015

Rodney and Candice Nash
236 Nash Run Rd.
Middlebourne, WV 26149
304-758-5171

Re: Permits for Stat Oil wells Pyles 7H and Pyles 8H
API numbers: 47-095-02243 and 47-095-02244

Mr. and Mrs. Nash:

The Office of Oil and Gas (OOG) has reviewed your comments concerning Stat Oil's permit applications for the above referenced wells. The comments were sent to the operator for its response. The operator has responded and the response is enclosed for your records.

After considering your comments, the applicant's response, and the inspector's findings, the OOG has determined that the application meets the requirements set forth in Article 6A Chapter 22 of the West Virginia Code and Legislative Rule Title 35 Series 8. Consequently, the OOG is issuing the permits today. For your information and convenience, I am including with this letter a copy of the permits as issued.

As you may know, surface owners are entitled to compensation for damages to their property resulting from oil and gas drilling activity. Absent an agreement by the parties, such damage compensation may be addressed pursuant to Article 7, Chapter 22 of the West Virginia Code.

Please contact me at (304) 926-0499, if you have any questions.

Sincerely,

Laura L. Adkins
WV DEP Office of Oil and Gas
Permitting Section



May 19, 2015

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 23504-2345
1-(304)-926-0499 (x1495)

Attention: Ms. Laura L. Adkins

Reference: Pyles #7H (API 47-95-02243) & Pyles #8H (API 47-95-02244)- Permit Application
Tyler County, West Virginia

Ms. Adkins:

On March 2nd, 2015 and March 3rd, 2015, Statoil USA Onshore Properties Inc. (Statoil) submitted full permit applications for the Pyles #7H and Pyles #8H respectively to the WV, DEP for their review and follow-on approval once the process was complete. During the review process, a surface owner, Rodney A. Nash and Candis L. Nash, filed a complaint against the two drilling permit applications referenced above in regards to surface encroachment by Statoil.

In this complaint, the following objections/points were raised:

1. "A concern with the access road entrance after leaving county road 34/3" – First sentence in the body of the complaint letter.
2. A concern that the provision stated as item number 32 would be breached by our operations – Line #7 in the body of the complaint letter.

This complaint was fully received, not only by the WV, DEP, but by Statoil Headquarters as well. Upon receipt of this complaint, all applicable responsible persons were mobilized and a field visit was conducted between Statoil and Mr. and Mrs. Nash to rectify the objection. As the complaint illustrated, one of our stakes for the limit of disturbance was on their property. With us not having a surface use agreement or our oil and gas lease allowing this, we gladly moved the limit of disturbance stake over off

05/22/2015



of Mr. and Mrs. Nash's property the two or three feet to accomplish same. This was certainly an unfortunate accident.

At this time, all complaints as per the Nash's Objection Letter Dated January 22nd, 2015 have been fully satisfied and no further issues or concerns exist.

If you have any questions or require additional information, please contact the undersigned at 713-485-2640 or at BEKW@statoil.com.

Sincerely,

A handwritten signature in black ink that reads "Bekki Winfree".

Bekki Winfree

Sr. Regulatory Advisor – Marcellus

05/22/2015

4709502243



March 24, 2015

Rodney A. Nash & Candis L. Nash
236 Nash Run Road
Middlebourne, WV 26149
1-(304)-758-5171

Reference: Pyles #7H & #8H Horizontal Well Permit Application
Tyler County, WV

Mr. & Mrs. Nash:

Per our discussion on March 23, 2015, the issues regarding the access road as described in your letter to the WV, DEP dated January 22, 2015 regarding Statoil's proposed Pyles 7H & 8H permit application have been fully resolved to your satisfaction.

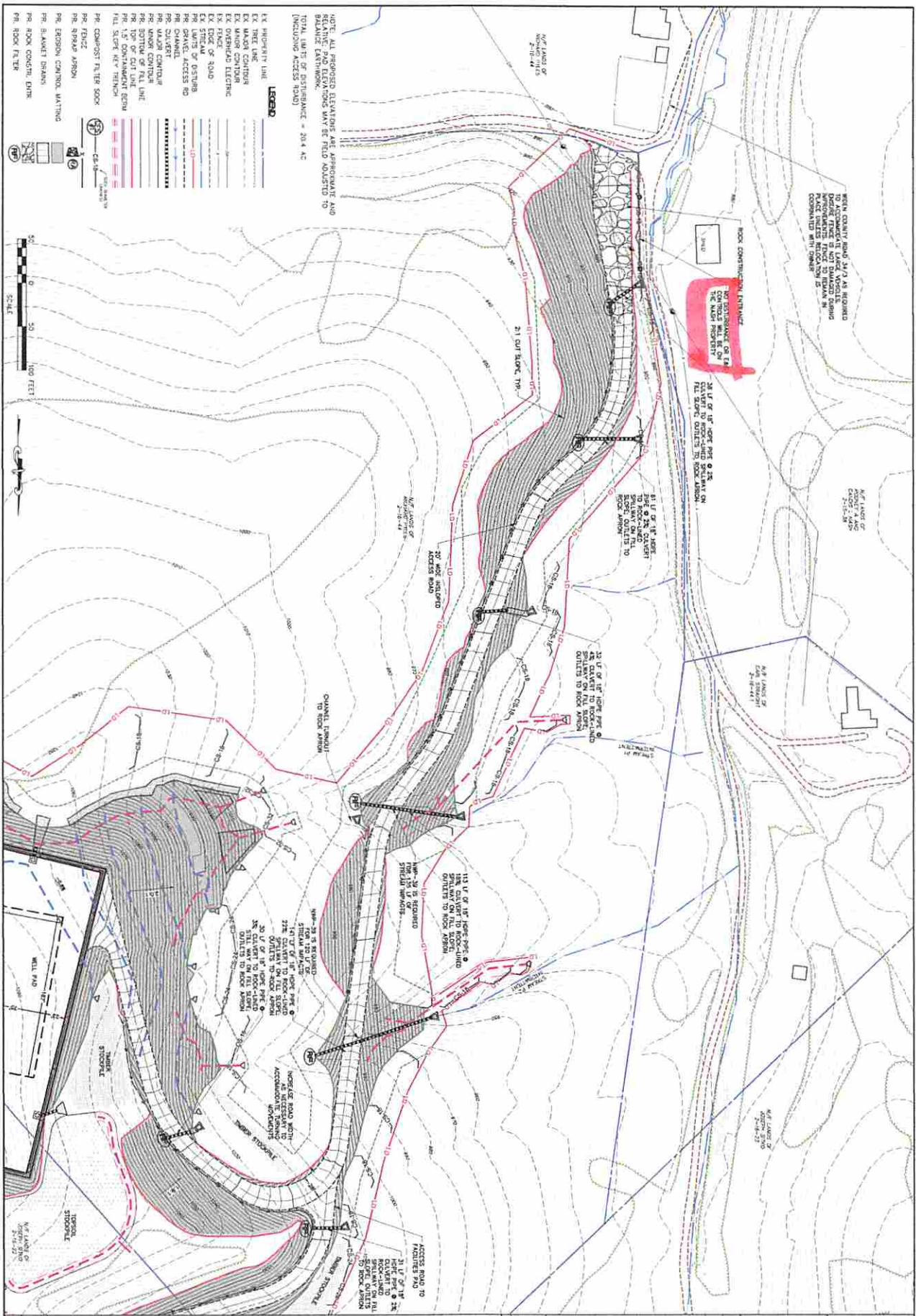
If you have any additional questions or concerns, please feel free to contact the undersigned at any time.

Sincerely,

Joshua S. Ozment
Senior Landman
MAR LAN OPR

Cc: West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 23504-2345
Attention: Ms. Melanie Hawkins

05/22/2015



EROSION & SEDIMENTATION CONTROL PLAN
WELLSITE (WV-5) WELL SITE
 BLYLE DISTRICT, TYLER COUNTY, WEST VIRGINIA

<p>STATOIL 2103 CITY WEST BLDG., SUITE 600 HOUSTON, TX 77042 PHONE 713.918.8200</p>	<p>Larson Design Group • Architects Engineers Surveyors 2505 Cranberry Square Morgantown, WV 26508 PHONE 304.777.2840 TOLL FREE 877.323.6603 FAX 304.777.9962 • www.larsondesigngroup.com</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>ISSUE / REVISIONS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>12/9/14</td> <td>REVISED STREAM IMPACT LINES</td> </tr> <tr> <td>2</td> <td>12/8/14</td> <td>WSEP PERMIT PLANS</td> </tr> <tr> <td>3</td> <td></td> <td>COMMENTS</td> </tr> <tr> <td>4</td> <td></td> <td>BY: [Signature]</td> </tr> </tbody> </table>	NO.	DATE	ISSUE / REVISIONS	1	12/9/14	REVISED STREAM IMPACT LINES	2	12/8/14	WSEP PERMIT PLANS	3		COMMENTS	4		BY: [Signature]	<p style="text-align: right;">05/22/2015</p> <p style="text-align: right;">Larson Design Group</p>
NO.	DATE	ISSUE / REVISIONS																
1	12/9/14	REVISED STREAM IMPACT LINES																
2	12/8/14	WSEP PERMIT PLANS																
3		COMMENTS																
4		BY: [Signature]																

SHEET NO. 6 OF 24
 PROJECT NO. 1350-003-02

LEGEND

- EX PROPERTY LINE
- EX TREE LINE
- EX MAJOR CONTROL
- EX MINOR CONTROL
- EX FENCE
- EX EDGE OF ROAD
- EX STREAM
- EX LIMIT OF CLEARING/CORRIDOR
- PR GRAVEL ACCESS RD
- PR CHANNEL
- PR MAJOR CONTROL
- PR MINOR CONTROL
- PR BOTTOM OF FILL LINE
- PR BENCH LOCATION
- PR BRIDGE APPROX
- PR EROSION CONTROL MATING
- PR ROCK CONSTR. EXIST

GENERAL NOTES

1. THE PROPOSED INFORMATION SHOWN HEREON IS BASED ON APRIL 8 2013 AERIAL PHOTOGRAPHY COMPILED BY BLUE MOUNTAIN AERIAL MAPPING SYSTEM, WEST VIRGINIA
2. THE PROPERTY LINES HEREON ARE SHOWN PARTLY FROM AVAILABLE RECORD INFORMATION AND PARTLY FROM FIELD SURVEY CONDUCTED BY LEO, INC. BUT THEY DO NOT REPRESENT A BOUNDARY SURVEY AS DEFINED IN WVD §14-2-1. ALL PROPOSED ELEVATIONS ARE APPROXIMATE AND RELATIVE. PVD ELEVATIONS MAY BE FIELD ADJUSTED TO BALANCE ELEVATIONS.

PARCEL DISTURBANCE

TOTAL LIMITS OF DISTURBANCE = 20.2 AC (INCLUDING ACCESS ROAD)

DISTURBANCE ON PROPERTY OF SCHMIDT WELLS (PARCELS 2-10-43) = 10.8 AC

DISTURBANCE ON PROPERTY OF CHARLES WELLS (PARCELS 2-10-42) = 4.2 AC

DISTURBANCE ON PROPERTY OF JOSEPH STROG (2-10-22) = 5.3 AC

ACCESS ROAD AND PAD DISTURBANCES

TOTAL LIMITS OF DISTURBANCE = 20.3 AC (INCLUDING ACCESS ROAD)

DRILL PAD DISTURBANCE = 8.6 AC

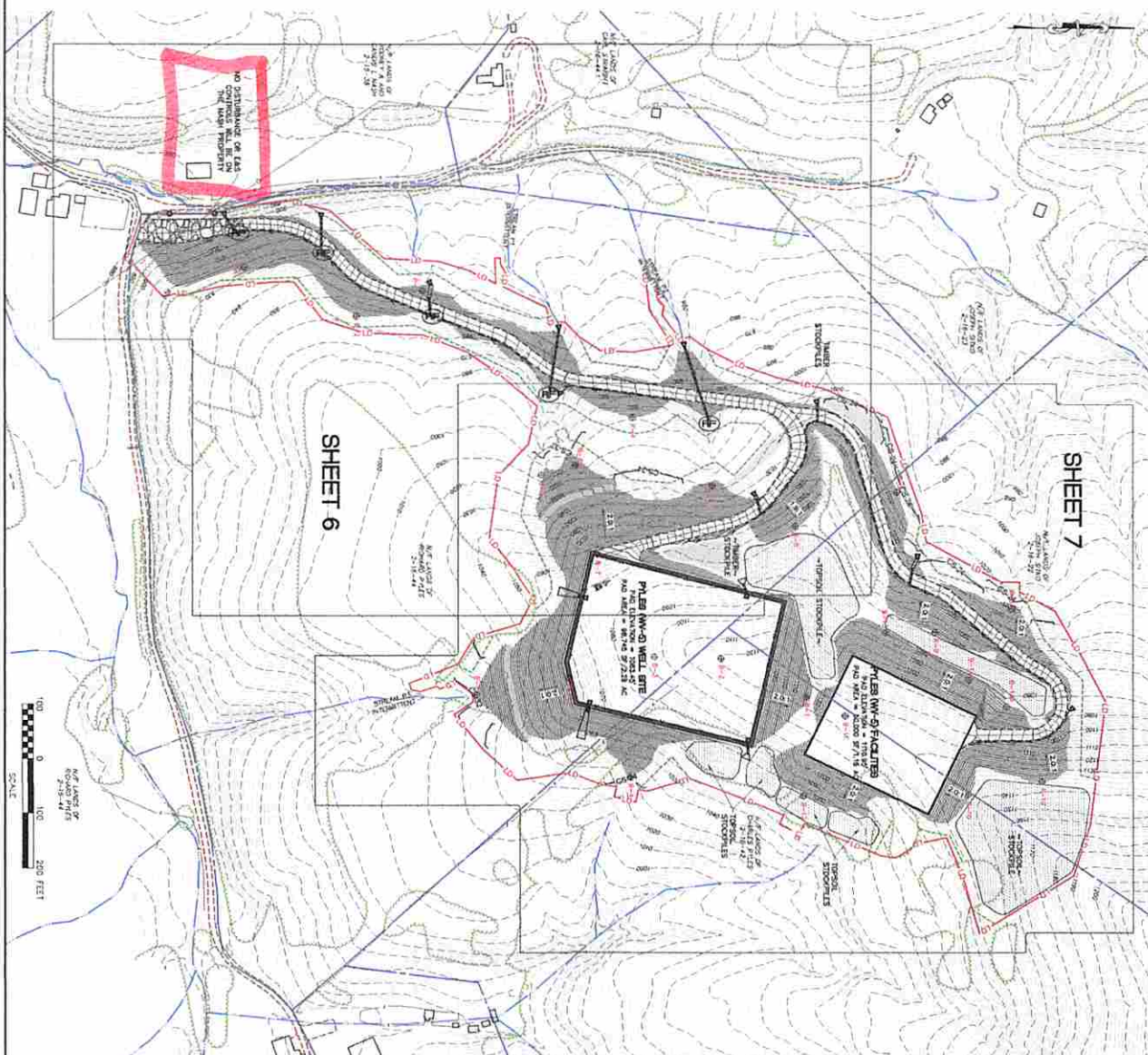
FACILITIES PAD DISTURBANCE = 4.0 AC

DRILL PAD ACCESS ROAD DISTURBANCE = 8.2 AC

FACILITIES PAD ACCESS ROAD DISTURBANCE = 2.6 AC

ADDITIONAL DESIGN CONCERNS

1. THE ACCESS ROAD ENTRANCE HAS BEEN DESIGNED TO AT A MINIMUM ACCOMMODATE A WB-67 USING AUTODRUM.
2. THERE ARE STREAM IMPACTS THAT WILL NEED TO BE REMEDIATED BY THE APPLICANT'S AGENCIES.



<p>OVERALL PLAN SHEET INDEX & VOLUMES</p> <p>WELLS (WV-5) WELL SITE</p> <p>BELLSWORTH DISTRICT, TYLER COUNTY, WEST VIRGINIA</p>		<p>Larson Design Group • Architects Engineers Surveyors</p> <p>2503 Cranberry Square</p> <p>Morgantown, WV 26508</p> <p>PHONE: 304.777.2940 TOLL FREE: 877.323.6603</p> <p>FAX: 570.323.9902 • www.larsondesigngroup.com</p>	<p>Statoll</p>	<p>STATOIL</p> <p>2103 CITY WEST BLVD., SUITE 600</p> <p>HOUSTON, TX 77042</p> <p>PHONE 713.918.8200</p>	<p>DATE: 5/12/15</p> <p>BY: [Signature]</p> <p>CHECKED: [Signature]</p> <p>DATE: 5/12/15</p> <p>BY: [Signature]</p> <p>CHECKED: [Signature]</p>	<p>ISSUE / REVISIONS</p>	<p>DATE</p> <p>BY</p> <p>DESCRIPTION</p>	<p>DATE</p> <p>BY</p> <p>DESCRIPTION</p>
<p>5 OF 24</p>								

05/22/2015

236 Nash Run Road
 Middlebourne, WV 26149
 (304) 758-5171

January 22, 2015

Chief, Office of Oil and Gas
 Department of Environmental Protection
 601 57th St. SE
 Charleston, WV 25304

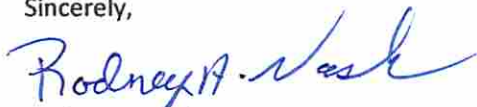
Dear Chief, Office of Oil and Gas

Comments to WW6A Notice of Application – Pyles 7H & Pyles 8H

Well Operator: StatOil USA Onshore
 Well Number: 47-095-
 Location: Latitude: 39.503607 Longitude: -80.837210
 District: Ellsworth
 County: Tyler

After review of WW6A Notice of Application – Pyles 7H & Pyles 8H there is concern with the access road entrance after leaving county road 34/3. The limit of disturbance which can be seen on pages 5,6,9, and 22 of PYLES (WV-5) WELL PAD SITE DESIGN AND CONSTRUCTION PLANS EROSION AND SEDIMENT CONTROL PLANS is on the property of Rodney A. & Candis L. Nash. The entrance seen on page 6 of aforementioned package shows the beginning of the access road on the property of Rodney A. & Candis L. Nash. The Oil & Gas Lease for the 85.48 acres (Tax Map & Parcel #: 2-15-38) (Deed Book 332 PG 124) which is being trespassed upon has an addendum (number 32) which states the following:
 “It is understood and agreed upon between Lessor and Lessee, that there will be no drilling or any other surface operations for oil and gas upon the above described land, without prior, expressed written consent of Lessor(s) herein. For, the purpose of this non-surface provision, “surface operations” shall include, but not be limited to, roads, pipelines, tanks, structures, electric lines, communication lines, ponds, data acquisition facilities, fluid removal systems, compression facilities, processing and extraction facilities, and collection systems.”

Sincerely,



Rodney A. Nash



Candis L. Nash

Received
 Office of Oil & Gas
 JAN 26 2015



















•Red straight lines show property boundary

•Red arrow shows LOD marker

Received
Office of Oil & Gas

JAN 26 2015

05/22/2015



Red arrow shows property marker

Received
Office of Oil & Gas
JAN 26 2015

05/22/2015



Detail of LOD marker on wrong side of property boundary

Received
Office of Oil & Gas
JAN 26 2015

05/22/2015



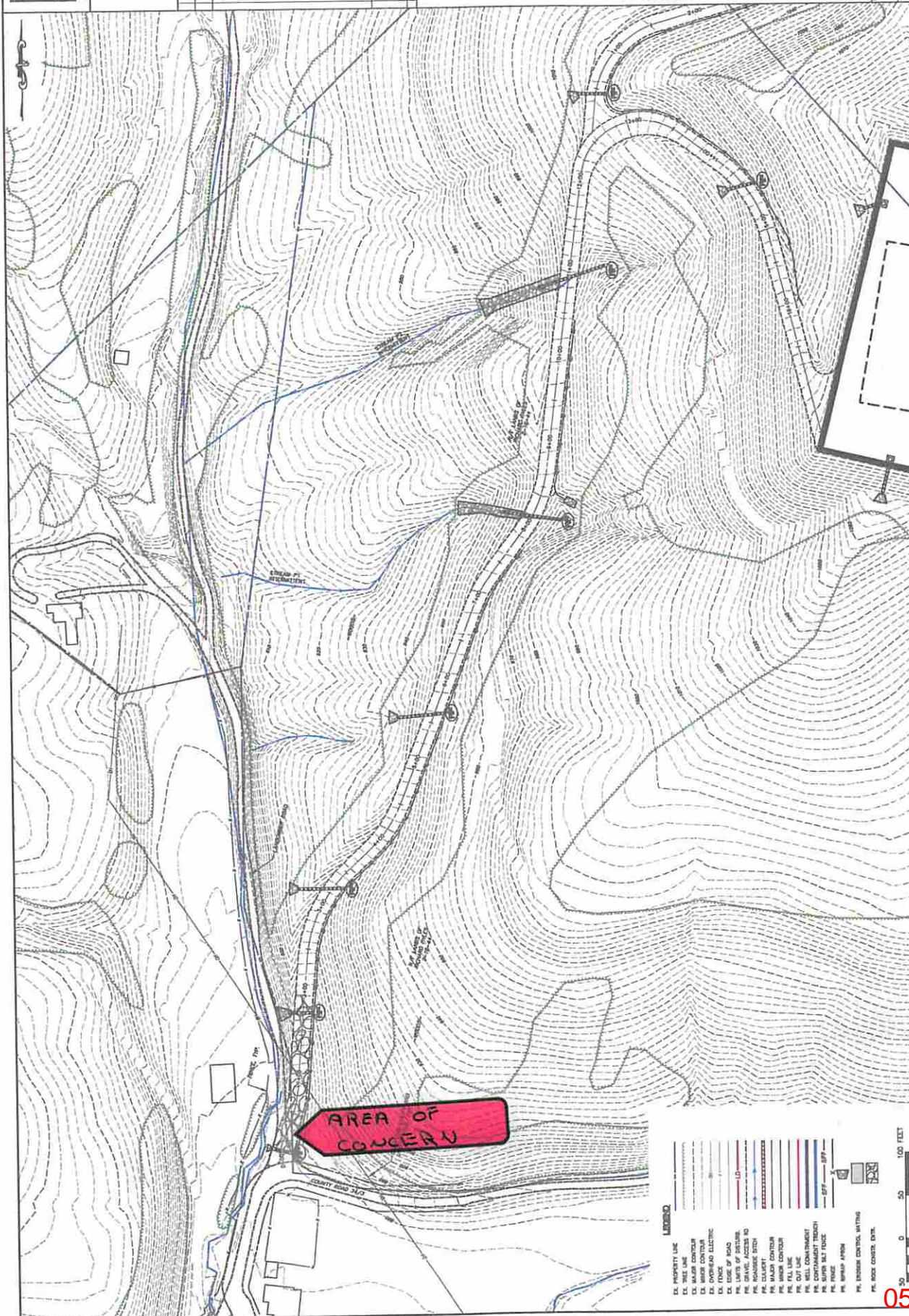
NO.	DATE	ISSUE / REVISIONS
0	12/14/11	WSPR PLANT PLAN COMMENTS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

STATION
 HOUSTON, TX 77042
 1203 CITY WEST BLVD., SUITE 200
 PHONE 713.918.8300

RECLAMATION PLAN
 PYLE8 (WV-5) WELL SITE
 LAMARCO COUNTY, TEXAS COUNTY, WEST VIRGINIA

Stabilo
 LARSON DESIGN GROUP - ARCHITECTS ENGINEERS SURVEYORS
 2505 COUNTRY SQUARE
 HOUSTON, TX 77058
 PHONE 304.777.2840 TOLL FREE 877.323.8803
 FAX 310.323.8802 • www.larsondesigngroup.com

22 OF 24
 PROJECT NO. 11790-003-05



Received
 Office of Oil & Gas
 JAN 26 2015

05/22/2015

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

2 554

1) Well Operator: Statoil USA Onshore Properties Inc. 494505083 Tyler Ellsworth Porters Falls-Sec 7
Operator ID County District Quadrangle

2) Operator's Well Number: Pyles 7H Well Pad Name: Pyles

3) Farm Name/Surface Owner: Pyles Farm/Richard D. & Cathy J. Pyles Public Road Access: County Road 34/3

4) Elevation, current ground: 1127' Elevation, proposed post-construction: 1084'

5) Well Type (a) Gas Oil Underground Storage

Other _____

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Marcellus, Formation Top 6567' TVD, 57' thick, 4282 psi, *Intermediate Casing MASP 2300 psi

Michael Hoff
1-8-15

8) Proposed Total Vertical Depth: 6627' TVD

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 15078' MD

11) Proposed Horizontal Leg Length: 7551'

12) Approximate Fresh Water Strata Depths: 270' TVD

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

14) Approximate Saltwater Depths: 540' TVD

15) Approximate Coal Seam Depths: 295', 300'

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

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

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

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WW-6B
(9/13)

18)

CASING AND TUBING PROGRAM

<u>TYPE</u>	<u>Size</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling</u>	<u>INTERVALS: Left in Well</u>	<u>CEMENT: Fill-up (Cu. Ft.)</u>
Conductor	20"	New	H-40	94#	100'	100'	Cmt to surface-150 cu ft
Fresh Water	13.375"	New	J-55	54.4#	375'	375'	Cmt to surface-405 cuft
Coal							
Intermediate	9.625"	New	J-55	36#	2317'	2317'	Cmt to surface-982cuft
Production	5.5"	New	P-110	20#	15078'	15078'	Cmt to 1317'-3511' cuft
Tubing							
Liners							

<u>TYPE</u>	<u>Size</u>	<u>Wellbore Diameter</u>	<u>Wall Thickness</u>	<u>Burst Pressure</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	20"	26"	.438"	1530 psi	Class A	1.3 cu ft/sk
Fresh Water	13.375"	17.5"	.380"	2730 psi	Class A	2.31 cu ft/sk
Coal						
Intermediate	9.625"	12.25"	.352"	*3520 psi	Class A	2.31 cu ft/sk
Production	5.5	8.5"	.361"	12640 psi	Class A	1.37 cu ft/sk
Tubing						
Liners						

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

See Attached

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well will fractured through the plug-n-perf method with +/- 25 fracturing stages per well. Each fracturing treatment will have 400,000 lbs of sand mixed in 7500 Bbls. of fresh water. The fracturing rate will be between 80 and 100 bpm at a pressure lower than a maximum pressure of 10,000 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 20.3 acres

22) Area to be disturbed for well pad only, less access road (acres): 2.6 acres drilling/1.15 acres facilities

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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*Note: Attach additional sheets as needed.

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

20" conductor will be pre-set prior to start of operations and cemented in place to surface at approximately 100ft. A 17 ½" surface hole will be drilled with fresh water to approximately 375' 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 Air misting with 5% KCL Polymer (WBM) and a conventional mud motor to approximately 2500' 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. The 8 ½" vertical hole section will be drilled to planned kick-off point using air misting with 5 %KCL 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 15,078'/6627' using SBM and conventional mud motors. A 5 ½" production casing will be installed and cemented so estimated top of cement is at least 300ft inside the previous casing shoe. The Drilling Rig will then be released to the next well.

23) Describe centralizer placement for each casing string:

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

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

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

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

Surface - Class A + 3% CaCl₂

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

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

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

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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 + misting 5% KCL Polymer Water Based Mud (WBM) to section total depth. At section total depth, pump 40bbl viscous pill and circulate hole clean displacing to 5%KCL.

Production - Drilled air with + misting 5% KCL Polymer Water Based Mud (WBM) to KOP the displaced with 12.5-13.0 ppg Synthetic Based Mud (SBM) to section total depth. At section total depth pump 2-3 20bbl heavy weighted pill sweeps to transport excess cutting from the hole until clean. Pump rates will be maintained in excess of 600 GPM, and rotation in excess of 100 RPM to assist cuttings transport. A 60 bbl tuned weighted spacer will be pumped ahead of the cement to assist in mud cake removal and water wet both casing and formation.

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Marcellus - Drilling Well Schematic

4709502243

Well Name: PYLES 7H
 Field Name: Marcellus
 County: Tyler Co, WV
 API #: 0

GLE (ft): 1,084
 DF(ft): 22
 BHL: X = 1687525.4 Y = 14336652.6
 SHL: X = 1686253.1 Y = 14345283.2

TVD(ft): 6,627
 TMD(ft): 15,078
 Profile: Horizontal
 AFE No.: PERMITTING

Formations & Csg Points	Depth, ft			Form. Temp. (F)	Pore Press. (EMW)	Frac Gradient (EMW)	Planned MW	Measure Depth (ft)	Program	Details
	MD	TVD	SS							
Conductor	100	100	1,006	-	-	-	-	100		20" Conductor
Washington Coal		295					8.6			17-1/2" Surface
Washington A Coal		300								
Approximate Fresh Water Strata ~270'										
Casing Point	375	375	731	65			8.6	375		Profile: Vertical Bit Type: 17-1/2" PDC BHA: Conventional Motor Mud: 8.6 ppg Fresh Water Surveys: n/a Logging: n/a Casing: 13.375 54.5 J-55 BTC at 375' MD/375' TVD Centralizers: 1 centralizer w/ stop collar 10 ft above float shoe. One Single Bow every joint to 100ft below surface. Cement: 15.8 ppg Tail slurry w/ TOC @ Surface Potential Drilling Problems: Stuck Pipe, Floating Collison,
Top Salt Water		540					NA			FIT/LOT: 14.0 ppg EMW 12-1/4" Intermediate
Big Injun		2,116								Profile: Vertical Bit Type: 12-1/4" TCI F47YA (IADC:627Y) BHA: 8in 7:8 Lobe 2.0 Stg 1.5 ABH (0.10 rpg/375 Diff) Mud: - Air + 5%KCL Surveys: Gyro SS, MWD - EM Pulse Logging: n/a Casing/Liner: 9.625 36 J-55 BTC at 'MD' TVD Csg Hanger: Mandrel Hanger Centralizers: 1 centek centralizer w/ stop collar 10 ft above float shoe. 1 centek centralizer w/ stop collar 10 ft above float collar. 1 centralizer every joint for the first 15 joints. One centralizer every 3 jnts to 100ft below surface. Cement: 15.8 ppg Tail slurry w/ TOC @ Surface Potential Drilling Problems: Hole Cleaning, Poor ROP, Buckling,
Base of Big Injun		2,217					9.1			
Casing Point	2,317	2,317	-1,211	82		>18.0		2,317		FIT/LOT: 15.8 ppg EMW 8-1/2" Production
Weir		2,401					SBM			Profile: 8-1/2" SMITH TCI F47YAPS (IADC: 617Y) - Vert Bit Type: 8-1/2" SMITH MDIS16 - C&L BHA: 6.75in 7:8 lobe 2.9 stg 1.5 ABH (0.17 rpg 560 DIFF) - Vert 6.75in 6:7 lobe 5.0 stg 1.95 FBH (0.29 rpg, 715 DIFF) - C&L Mud: - Air + 5%KCL Surveys: MWD - EM Pulse w/ 30ft surveys in curve, 100ft surveys in lateral Logging: GR Casing/Liner: 5.5 20 P110EC VAM TOP HT at ft MD/ ft TVD Csg Hanger: Mandrel Hanger Centralizers: 1 centek centralizer w/ stop collar 10ft above shoe. 1 centek centralizer 10ft above float collar. 1 centek centralizer every joint (floating) until KOP. 1 centek centralizer every 3 joints (floating) until 200ft inside intermediate shoe. 1 centek centralizer 50ft below mandrel hanger. Cement: 15 ppg Tail slurry w/ TOC @ 1317' MD Potential Drilling Problems: Bit Preservation, Hole Cleaning,
Berea		2,569					Air/Mist			
Gordon		2,791					Air/Mist			
Warren		3,513					Air/Mist			
Java		4,934					Air/Mist			
Benson		4,983					Air/Mist			
Undiff. Shales		5,025					Air/Mist			
KOP	5,652	5,613					12.0			
Sonyea		6,112					12.0			
Middlesex		6,424					12.0			
West River		6,451					12.0			
Genesee		6,521					12.0			
Tully		6,544					12.0			
Marcellus		6,590					12.0			
Landing point	7,534	6,606					12.0			TMD: 15,078 TVD: 6,627
CherryValley		6,619					12.0			
Onondaga		6,641					12.0			

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Cement Outside Casing

Last Revision Date: 5/18/2015
 Revised by: Ryan Cardenas

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

05/22/2015

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Statoil USA Onshore Properties Inc. OP Code 494505083

Watershed (HUC 10) Gorrell Run - Middle Island Creek Quadrangle Porters Falls - Sec 7

Elevation 1083' County Tyler District Ellsworth

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated ~~Pit~~ Wastes:

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

MDC
1-8-15

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

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

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

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MAR 3 2015


Subscribed and sworn before me this 15th day of December

Wally Anthony Stuka

WV Department of Environmental Protection

My commission expires April 16, 2017

Notary Public



WALLY ANTHONY STUKA
My Commission Expires
April 16, 2017
05/22/2015

4709502243

Form WW-9

Operator's Well No. Pyles 7H

Statoil USA Onshore Properties Inc.

Proposed Revegetation Treatment: Acres Disturbed 13.2 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 & Mulch any disturbed areas
Maintain & Upgrade E-n-s.

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MAR 3 2015

Title: Oil & Gas Inspector

Date: 1-8-2015
WV Department of

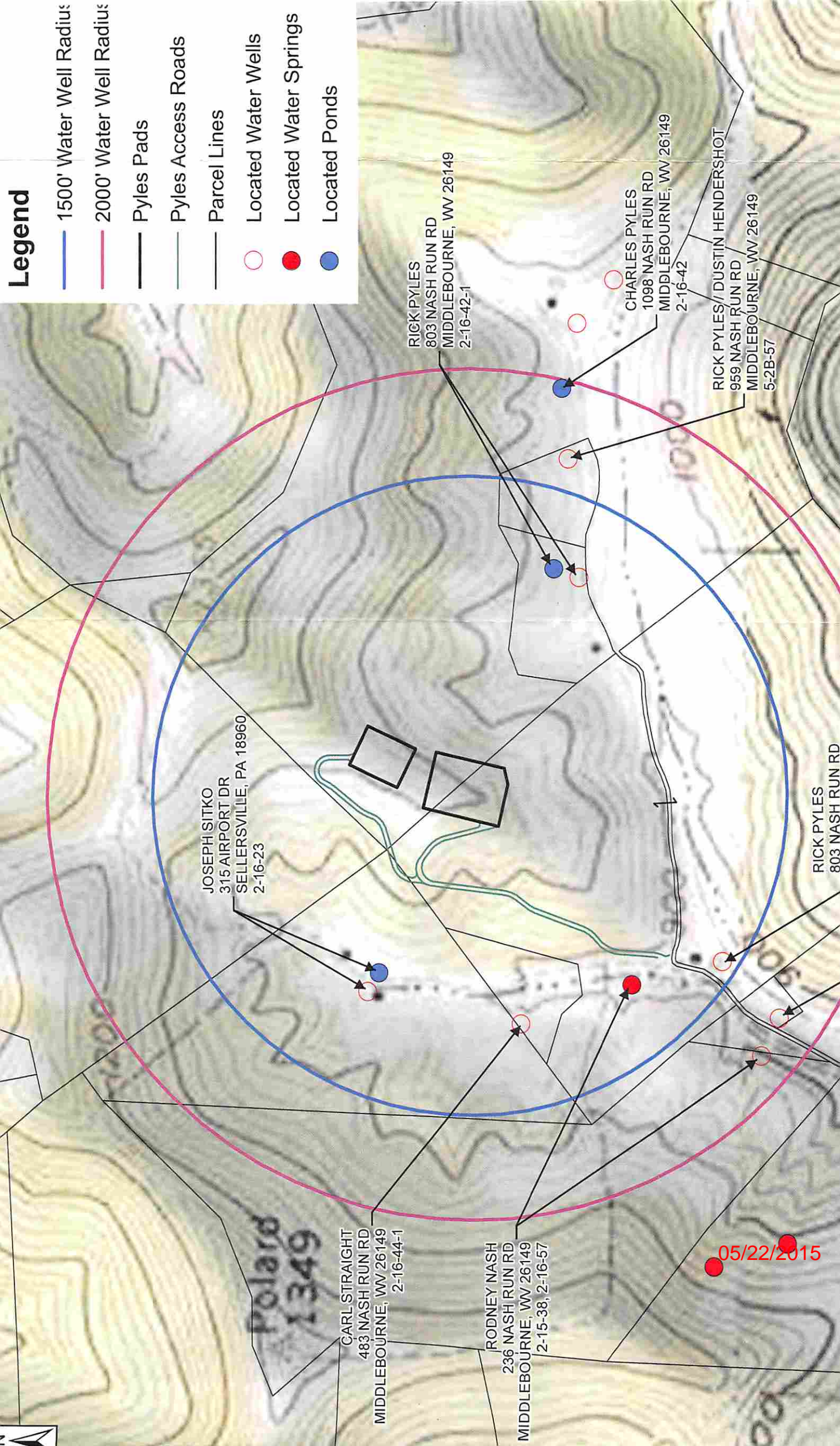
Field Reviewed? Yes No

Environmental Protection

05/22/2015

Legend

- 1500' Water Well Radius
- 2000' Water Well Radius
- Pyles Pads
- Pyles Access Roads
- Parcel Lines
- Located Water Wells
- Located Water Springs
- Located Ponds

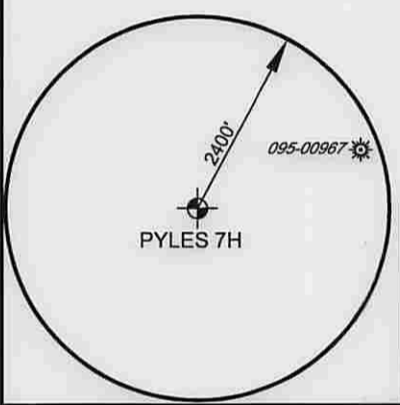
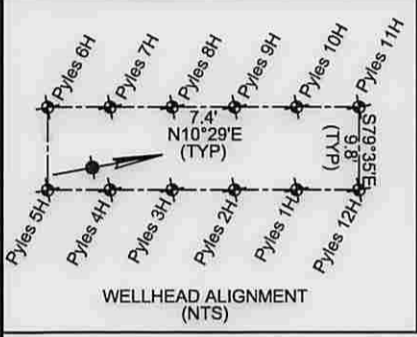
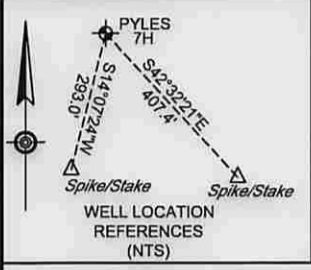
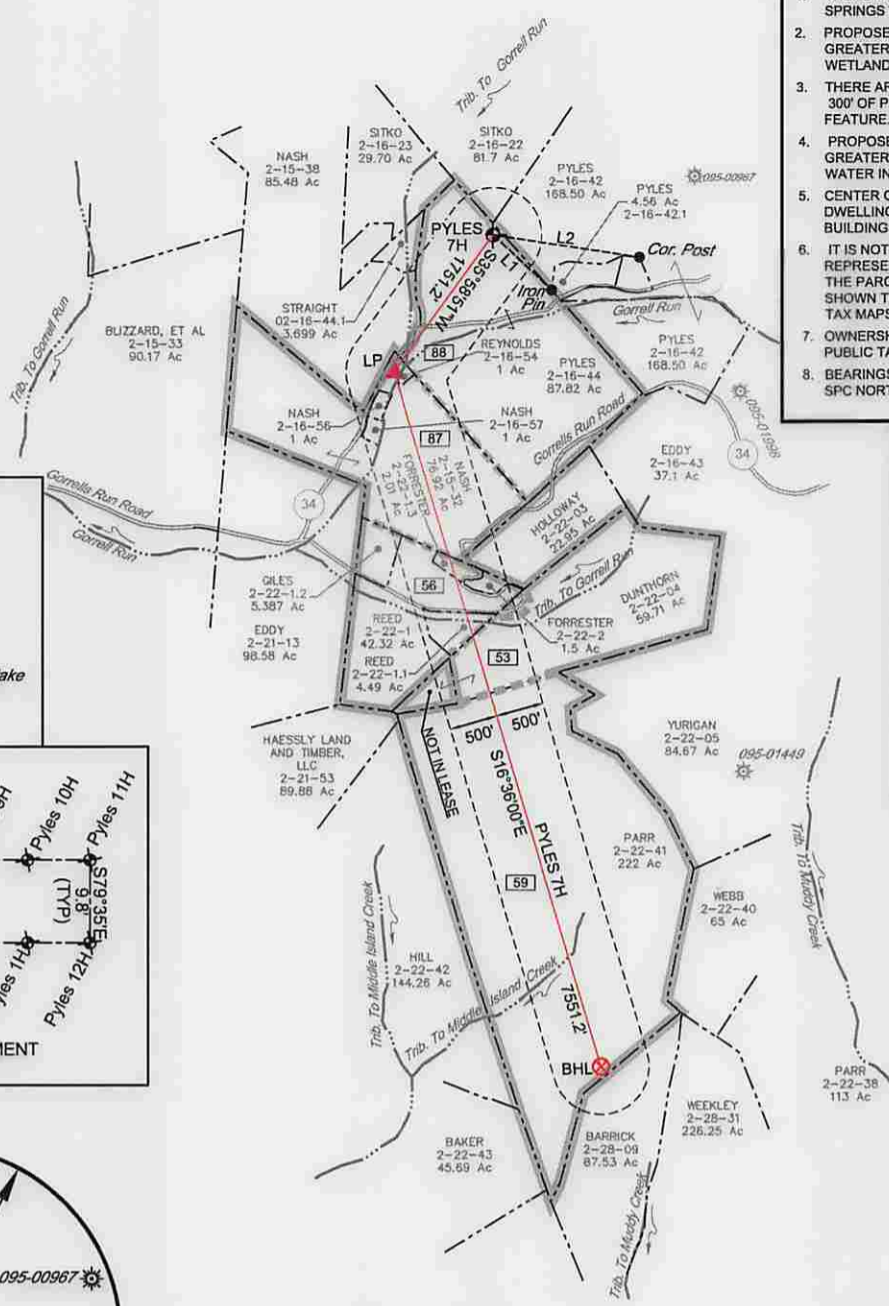


SURFACE HOLE LOCATION
UTM 17 - NAD 83 N - 4372668.87 E - 513985.43
WV SPC NORTH NAD83 N - 368322.11 E - 1591165.53
LANDING POINT LOCATION
UTM 17 - NAD 83 N - 4372231.90m E - 513679.19m
WV SPC NORTH NAD83 N - 366904.98 E - 590136.66
BOTTOM HOLE LOCATION
UTM 17 - NAD 83 N - 4370038.25m E - 514373.21m
WV SPC NORTH NAD83 N - 359668.49 E - 1592293.94

- NOTES**
1. THERE ARE NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' OF THE PROPOSED WELL.
 2. PROPOSED PAD, LOD, OR E&S CONTROL FEATURE IS GREATER THAN 100' FROM PERENNIAL STREAM, WETLAND, POND, RESERVOIR OR LAKE.
 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. BEARINGS 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



Pyles 7H Mineral Ownership

88	- Richard D. & Cathy J. Pyles, et al
87	- William S. & Opal M. Nash (Life Estate)
56	- Ridgetop Capital, LP, et al
53	- Myron Ferguson, et al
59	- Anthony B. Parr

PROPERTY TIES

L1	- S47°00'35"E	839.7'
L2	- S81°27'58"E	1543.0'

FILE NO. 8790-003-5

DRAWN BY DMS

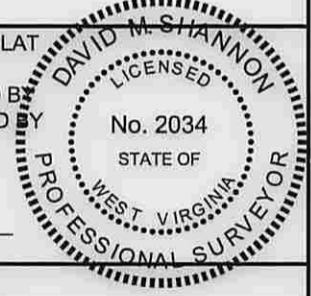
SCALE 1 INCH = 2000 FEET

MIN DEGREE OF ACCURACY 1 IN 2500

PROVEN SOURCE OF ELEVATION SURVEY GRADE GPS

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

David M. Shannon
P.S. #2034



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

LDG
Larson Design Group®

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL

IF "GAS", PRODUCTION STORAGE DEEP SHALLOW

LOCATION: WATERSHED GORRELL RUN - MIDDLE ISLAND CREEK

COUNTY/DISTRICT TYLER / ELLSWORTH

SURFACE OWNER RICHARD D. & CATHY J. PYLES

OIL & GAS ROYALTY OWNER SEE TABLE ABOVE

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

WELL OPERATOR: STATOIL USA ONSHORE PROPERTIES, INC.

ADDRESS 2103 CITYWEST BOULEVARD / SUITE 800
HOUSTON TX, 77042

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

DATE 2-26-2015

OPERATORS WELL NO. PYLES 7H

API WELL NO. 47 095 02243 H6A

STATE COUNTY PERMIT

ELEVATION 1084' Post 1127' Pre Construction

QUADRANGLE PORTERS FALLS - SEC 7

ACREAGE 87.82 05/22/2015

ACREAGE 505.16

ESTIMATED DEPTH 6627'

DESIGNATED AGENT RICHARD PYLES

ADDRESS 803 NASH ROAD
MIDDLEBOURNE, WV 26149

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

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

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

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

(Please see Attachment for Details)

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

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way 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: *Debra Womph*
 Its: Sr. Regulatory Advisor

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

Pyles 7H

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

TRACT #88

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115010-029	Richard D. & Cathy J. Pyles, Husband and wife	PetroEdge Energy, LLC	At least 1/8	411/508
000115010-011	Charles William Henderson, Jr. and Sandra R. Henderson, husband and wife	PetroEdge Energy, LLC	At least 1/8	409/377
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	436/1

TRACT #87

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115090-001	William S. & Opal M. Nash	Spartan West Virginia, LLC	At least 1/8	355/722
N/A	Spartan West Virginia, LLC	Acadian Energy Resources, LLC	Assignment	369/405
N/A	Acadian Energy Resources, LLC	Tenaska Resources, LLC	Assignment	370/809
N/A	Tenaska Resources, LLC	PetroEdge Energy, LLC	Assignment	390/122
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	406/147
000115090-002	Mary Maxine Welch	Decker Energy, LLC	At least 1/8	371/161
N/A	Decker Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	419/275

TRACT #56

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115566-010	Ridgetop Capital II, LP	Statoil USA Onshore Properties Inc.	At least 1/8	444/434
000115566-009	John H. Swords	Statoil USA Onshore Properties Inc.	At least 1/8	437/134

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TRACT #53

<u>Lease Name or Number</u>	<u>Grantor, Lessor</u>	<u>Grantee, Lessee</u>	<u>Royalty</u>	<u>Book / Page</u>
000115582-004	Myron C. Ferguson, Trustee for the Ferguson Family Revocable Living Trust, dated August 8, 1994	PetroEdge Energy, LLC	At least 1/8	389/39
000115582-001	Daniel Clair Asher, A single man	PetroEdge Energy, LLC	At least 1/8	388/356
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	406/147

TRACT #59

<u>Lease Name or Number</u>	<u>Grantor, Lessor</u>	<u>Grantee, Lessee</u>	<u>Royalty</u>	<u>Book / Page</u>
000083191-000	Anthony B. Parr and wife, Sandra Lee Parr	Chesapeake Appalachia, LLC	At least 1/8	367/774
N/A	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc.	Assignment	423/152

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MAR 06 2015

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PYLES 7H ROAD CROSSING LETTERS

TRACT 88

TRACT 87

TRACT 56

TRACT 53

TRACT 59

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05/22/2015

61 PPD

4709502243

BURNETT & THOMASON
ATTORNEYS & COUNSELORS AT LAW

OIL, GAS & MINERAL LAW

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

March 21, 2014

Tyler
88

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

Attention: Mr. Joshua S. Ozment

Re: Helen E. Boggs, et al 87.82 Acre Tract out of Ellsworth District in Tyler County,
West Virginia (Tax Parcel No. 2-16-44)

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tax Parcel No. 2-16-44, containing 87.82 acres, more or less, out of Ellsworth District in Tyler County, West Virginia, and being all of 110 acres, more or less, described as the Third Parcel in a Deed, dated May 12, 2006, from Robert A. Pyles and wife, Vickie L. Pyles, and Richard D. Pyles and wife, Cathy J. Pyles, to Richard D. Pyles and wife, Cathy J. Pyles, recorded in Book 350, Page 794, Office of the Clerk of the County Commission, Tyler County, West Virginia, SAVE AND EXCEPT two (2) tracts described as follows: (1) 3.699 acres, more or less, described in a Deed, dated April 4, 2002, from Robert A. Pyles and wife, Vickie L. Pyles, and Richard D. Pyles to Carl Straight, recorded in Book 335, Page 488, Office of the Clerk of the County Commission, Tyler County, West Virginia, and (2) an undetermined number of acres, being that portion of 85.48 acres, more or less, described in a Deed, dated May 11, 2006, from Robert A. Pyles and wife, Vickie L. Pyles, and Richard D. Pyles and wife, Cathy J. Pyles, to Robert A. Pyles and wife, Vickie L. Pyles, recorded in Book 350, Page 788, Office of the Clerk of the County Commission, Tyler County, West Virginia, that lies within the boundary of the 110 acres, more or less, leaving 87.82 acres, more or less, hereinafter referred to as the "Subject Lands." The Subject Lands are shown on the plat attached hereto as Exhibit "A"

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05/22/2015

OWNERSHIP

Based upon our examination of the materials referenced above, and subject to the comments, requirements, and limitations hereinafter set forth, we find title to the Subject Lands vests, as of December 21, 2013, as follows:

STATE OF WEST VIRGINIA OWNERSHIP UNDER PUBLIC ROADS

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

SURFACE OWNERSHIP

1. Richard D. Pyles and wife, Cathy J. Pyles (100%)	<u>1.00000000</u>
Total Surface Ownership:	1.00000000

OIL AND GAS EXECUTIVE RIGHTS

1. Helen E. Boggs (1/4)	0.25000000
2. Kathryn Henderson Smith (1/40)	0.02500000
3. Nancy J. Miller (1/40)	0.02500000
4. Stephen R. Henderson (1/40)	0.02500000
5. Charles William Henderson, Jr. (1/40)	0.02500000
6. Michael L. Lough (1/16)	0.06250000

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

October 8, 2014

TYLER
INDEX # 87

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

Attention: Mr. Joshua S. Ozment

Re: William S. Nash, et al 79.825 Acre Tract out of Ellsworth District in Tyler County, West Virginia (Tax Parcel Nos. 2-15-32, 2-16-54, 2-16-56 & 2-16-57)

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tax Parcel Nos. 2-15-32, 2-16-54, 2-16-56 & 2-16-57, containing 79.825 acres, more or less, out of Ellsworth District in Tyler County, West Virginia, described in four (4) separate tracts as follows:

Tax Parcel No. 2-15-32, containing 76.825 acres, more or less, out of Ellsworth District in Tyler County, West Virginia, and being all of 80.586 acres, more or less, described in a Deed, dated December 21, 2010, from William S. Nash and wife, Opal Marie Nash and Roger B. Nash, recorded in Book 378, Page 821, Office of the Clerk of the County Commission, Tyler County, West Virginia, SAVE AND EXCEPT three (3) tracts described as follows: (1) 1 acre, more or less, described in a Deed, dated October 18, 1983, from William S. Nash and wife, Opal M. Nash, to Randy E. Nash and wife, Diane D. Nash, recorded in Book 247, Page 73, Office of the Clerk of the County Commission, Tyler County, West Virginia, (2) 1 acre, more or less, described in a Deed, dated April 19, 1984, from William S. Nash and wife, Opal M. Nash, to Rodney A. Nash and wife, Candis L. Nash, recorded in Book 252, Page 446, Office of the Clerk of the County Commission, Tyler County, West Virginia, and (3) 1 acre, more or less, described in a Deed, dated March 17, 1997, from Roger Brian Nash and wife, Lesli Beth Nash, to Luke E. Reynolds and wife, Regina M. Reynolds, recorded in Book 319, Page 159, Office of the Clerk of the County Commission, Tyler County, West Virginia, leaving 76.825 acres, more or less.

Tax Parcel No. 2-16-54, containing 1 acre, more or less, out of Ellsworth District in Tyler County, West Virginia, and being the same land described in a Deed, dated March 17, 1997, from Roger Brian Nash and wife, Lesli Beth Nash, to Luke E. Reynolds and wife, Regina M.

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WV Department of Environmental Protection

- 8. Copy of a Tax Receipt, dated January 31, 2014, issued by Tyler County Sheriff's Tax Office, Tyler County, West Virginia, relative to the interest of KETELSEN MARY ANNE, covering PARCEL: 02-9999-00011640 for tax year 2013, as same pertains to the Subject Lands;
- 9. Copies of Tax Receipts, dated January 31, 2014, issued by Tyler County Sheriff's Tax Office, Tyler County, West Virginia, relative to the interest of WELCH MARY M., covering PARCEL: 02-9999-00011640 for tax years 2003 through 2012, as same pertain to the Subject Lands; and
- 10. Copies of various plats and deed plots provided by S. A. Property Research, L.L.C's field landman covering the Subject Lands.

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

OWNERSHIP

Based upon our examination of the materials referenced above, and subject to the comments, requirements, and limitations hereinafter set forth, we find title to the Subject Lands vests, as of January 6, 2014, 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 royalties and under any public roads located within the boundary of the Subject Lands.

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SURFACE OWNERSHIP

As to Tax Parcel No. 2-15-32:

- 1. William S. Nash and wife,
Opal M. Nash
(100% Life Estate) 1.00000000

4709502243

MILLER LAW OFFICES, PLLC

KENNETH R. MILLER
KENNETH ALEXANDER MILLER II*

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

October 14, 2014

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

Tyler # 5b

Re: Title of Ridgetop Capital, LP, et al.
to 36.616 acres oil and gas
waters of Gorrells Run, Ellsworth District
Tyler County, West Virginia
Tax Map #22, p/o parcel 1

Dear Mr. Ozment:

Pursuant to your request, I hereby certify I have made a personal examination of the records contained in the office of the Clerk of the County Commission and Sheriff's Office of Tyler County, West Virginia relative to the captioned tract, as of the 3th day of September, 2014. Said records were delivered to me by your agents and are subject to those disclosures and omissions in the indices and documents of record. Additionally, the opinions recited herein are based upon the assumption of the genuineness of the instruments examined, including signatures and notarial certificates.

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

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This certificate is subject to the following matters of record which are encumbrances upon the subject tract or defects in title.

- (a) There are easements and rights of way of record.

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(b) Rights of entry and development by the coal owners.

(c) Conveyances in the chain of title could have resulted in overlaps, discrepancies in acreage or other encroachments upon the subject tract which might affect the use or enjoyment thereof. To the extent possible these matters should be investigated through physical inspection and survey.

(d) The use of this tract by the surface owners is subject to the rights reserved by predecessors in title as to the minerals, subject to certain exceptions contained in the actual documents comprising the chain of title and applicable statutes enacted in this regard.

(e) This certificate is made subject to what would be shown by a complete physical inspection of the premises and an accurate survey and assumes proper access to said property.

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

No minerals appear to be owned by the State of West Virginia underlying any of the subject premises.

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

SCHEDULE A

1. The estate or interest in the land described or referred to in this document is: Fee Simple.

State of West Virginia Ownership of 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.

2. Title to the estate or interest is vested as follows:

(a) **SURFACE:**

50.00000% of the surface overlying the subject oil and gas is owned by Robert I. Reed pursuant to Deed Book No. 321, at page 763.

Address: 3628 Gorrells Run Road, Middlebourne, WV 26149

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September 26, 2014

Tyler # 53

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

Attention: Mr. Joshua S. Ozment

Re: Bounty Minerals, LLC, et al 69.50625 Acre Tract out of Ellsworth District in
Tyler County, West Virginia (Tax Parcel No. 2-22-4)

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tax Parcel No. 2-22-4, containing 69.50625 acres, more or less, out of Ellsworth District in Tyler County, West Virginia, and being the same land described in a Deed, dated May 4, 1978, from Ira E. Ruble Jr. and wife, Helen Marie Ruble, to Stephen H. Dunthorn and wife, Barbara J. Dunthorn, recorded in Book 216, Page 40, 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, prepared by S. A. Property Research, L.L.C. for Statoil North America, Inc., covering the Subject Lands for the period from August 26, 1856 through and including April 23, 2014 in Tyler County, West Virginia (the "Title Runsheet");
2. The public records of Tyler County, West Virginia (Records) for the period from August 26, 1856 through and including April 23, 2014, 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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12. Copy of an unrecorded Oil and Gas Lease, dated October 10, 2011, from Daniel Clair Asher to PetroEdge Energy LLC, a Memorandum of which is recorded in Book 388, Page 356, Office of the Clerk of the County Commission, Tyler County, West Virginia;
13. Copy of an unrecorded Oil and Gas Lease, dated October 21, 2011, from Myron C. Ferguson, acting as Trustee for the Ferguson Family Revocable Living Trust, dated August 8, 1994, to PetroEdge Energy LLC, a Memorandum of which is recorded in Book 389, Page 39, Office of the Clerk of the County Commission, Tyler County, West Virginia;
14. Copy of a Deed, dated December 17, 2012, from Ernest Glenn Logston and wife, Marjorie R. Asher Logston, to Bounty Minerals, LLC, recorded in Book 419, Page 40, Office of the Clerk of the County Commission, Tyler County, West Virginia; and
15. Copies of various plats and deed plots 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 April 23, 2014, 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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RADCLIFF PLLC

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

Patrickradcliff@hotmail.com
304-295-6027

Date: June 30, 2014

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

Tyler #59

RE: Anthony B. Parr
222 acres, Ellsworth District
Tyler County, WV
Index 59, Tax Map 22 Parcel 41

FINAL TITLE OPINION

Dear Statoil:

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

1. LEASEHOLD ESTATE

A. DESCRIPTION OF SUBJECT LEASES

BASE LEASE:

1. Paid-Up Oil and Gas Lease dated March 16, 2009, being of record in Deed Book 347 at page 774, by and between Anthony B. Parr, and wife, Sandra Lee Parr, Lessor, and Chesapeake Appalachia, L.L.C., an Oklahoma limited liability company, Lessee, upon a tract said to contain 222 acres, situate in Ellsworth District and described as being Tax Map 22 Parcel 41, and by Deed Description in Deed Book 347 at page 673, dated July 28, 2003:

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record in the Office of the County Commission on January 19, 1972, in Deed Book 191 at page 317; and further that this lease was released by an instrument of Release of Oil and Gas Lease, by Ashland Oil, Inc. (formerly Ashland Oil and Refining Company) organized under the laws of the Commonwealth of Kentucky to A. L. Gregg and J. Fay Gregg; Robert Roger Gregg, dated September 1, 1973, of record in the Office of the County Commission on October 4, 1973, in Release Docket 26 at page 471

7. Oil and gas lease dated December 13, 1980 being of record in the Office of the Clerk of the County Commission on December 19, 1980 in Deed Book 288 at page 70, by and between Robert R. and Karen C. Gregg, Lessors, and Sana Fe Drilling Corp., Lessee, upon a tract said to contain 222 acres, situate in Ellsworth District believed be the subject tract, for a primary term of 3 years; The abstractor has provided documents showing this lease was assigned by Santa Fe Drilling Corporation, to Ferrell Prior, described as Item (4) by instrument executed January 29, 1982 and of record in the Office of the County Commission on February 26, 1982, in Deed Book 237 at page 422.

8. Oil and gas lease dated June 1, 1990 being of record in the Office of the Clerk of the County Commission on January 22, 1991 in Deed Book 288 at page 416, by and between Robert R. and Karen C. Gregg, his wife, Lessors, and Stonewall Gas Company, a corporation, Lessee, upon a tract said to contain 222 acres, situate in Ellsworth District believed be the subject tract, for a primary term of 5 years; The abstractor has provided documents showing this lease was assigned by Stonewall Gas Company, to Gedco Oil and Gas, Inc. executed May 14, 1992 and of record in the Office of the County Commission on May 20, 1992, in Deed Book 295 at page 41.

E. LIENS AND ENCUMBRANCES

1. 2014 Real Property taxes are a lien upon the oil and gas real estate. The subject lease is subject to said lien which has priority over all other liens or transfers of or upon the oil and gas interest.

F. INTERESTS OF STATE OF WVA IN ROADS AND EASEMENTS

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.

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

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Date of Notice Certification: 01/16/2015

API No. 47- _____
Operator's Well No. Pyles 7H
Well Pad Name: Pyles

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>513985.43</u>
County: <u>Tyler</u>	Northing: <u>4372668.87</u>
District: <u>Eilsworth</u>	Public Road Access: <u>CR 34/3</u>
Quadrangle: <u>Porter Falls-Sec 7</u>	Generally used farm name: <u>Pyles Farm</u>
Watershed: <u>Gorrell Run - Middle Island Creek</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 checked="" 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 checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p><input 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 notified 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.

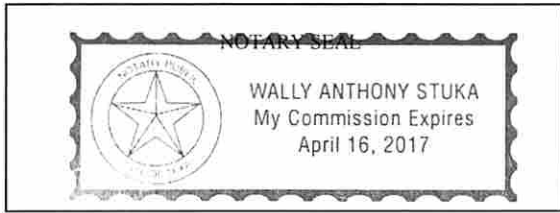
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Certification of Notice is hereby given:

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

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



Subscribed and sworn before me this 20 day of January 2015.
[Signature] Notary Public
 My Commission Expires April 16, 2017

Oil and Gas Privacy Notice:

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

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

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

Date of Notice: 12/30/2014 Date Permit Application Filed: 01/15/2015

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: Charles & Gay Pyles
Address: 1098 Nash Run Road
Middlebourne, WV 26149

Name: Richard D. & Cathy D. Pyles
Address: 803 Nash Run Road
Middlebourne, WV 26149

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

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

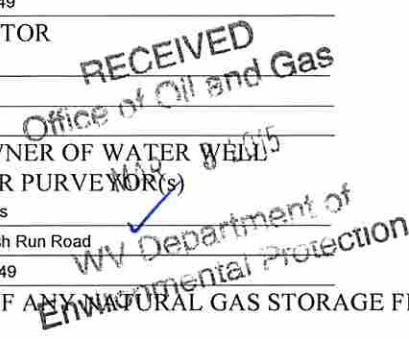
COAL OWNER OR LESSEE
Name: Richard "Rick" & Cathy Pyles
Address: 803 Nash Run Road
Middlebourne, WV 26149

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Charles Pyles
Address: 1098 Nash Run Road
Middlebourne, WV 26149

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary



Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

WW-6A
(8-13)

API NO. 47- -
OPERATOR WELL NO. Pyles 7H
Well Pad Name: PYLES

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

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WW-6A
(8-13)

4709502243
API NO. 47- -
OPERATOR WELL NO. Pyles 7H
Well Pad Name: PYLES

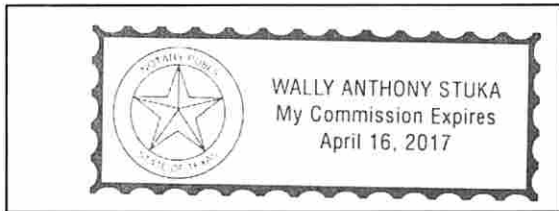
Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 13 day of January 2015.
Wally Anthony Stuka Notary Public
My Commission Expires April 16, 2017

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PYLES 7H & 8H WW6A – NOTICE OF APPLICATION OWNERSHIP ATTACHMENTSURFACE OWNERS

Charles & Gay Pyles
1098 Nash Run Road
Middlebourne, WV 26149

Richard "Rick" & Cathy Pyles
803 Nash Run Road
Middlebourne, WV 26149

COAL OWNERS

Richard "Rick" & Cathy D. Pyles
803 Nash Run Road
Middlebourne, WV 26149

Phillip E. Anderson (POA)
For Charles Ernests & Onelee Doris Anderson
516 Wick Road
Middlebourne, WV 26149

Rodney & Candis Nash
236 Nash Road
Middlebourne, WV 26149

Sandra Brightwell, subject to LE to Norma Bell
PO BOX 122
Pennsoboro, WV 26415

Connie Zimmerman
137 Central Avenue
New Martinsville, WV 26155

Michael Lough
105 N 1 Avenue
Paden City, WV 26159

Charles & Sandra Henderson
HC 69, Box 36A
Middlebourne, WV 26149

Sue Ann Walter
14 Asylum Street
Norwich, CT 06360

Kathryn H. Smith
111 Russell Street
Cabin Creek, WV 25035

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Nancy Miller
169 Oil Ridge Road
Sistersville, WV 26175 ✓

Stephen R. Henderson
Route 1, Box 507
Middlebourne, WV 26149 ✓

Eva Gene Taylor
2600 Killian Road
Uniontown, OH 44685 ✓

Juanita Noland
460 East Main Street
Barnesville, OH 43713 ✓

Ruth Ann Lucas
904 Kennebec Avenue
Akron, OH 44305 ✓

WATER WELL OWNERS

Carl Straight
483 Nash Run Road
Middlebourne, WV 26149 ✓

Rodney Nash
236 Nash Run Road
Middlebourne, WV 26149 ✓

Rick Pyles
803 Nash Run Road
Middlebourne, WV 26149 ✓

Luke Reynolds
386 Nash Run Road
Middlebourne, WV 26149 ✓

Rick Pyles/Dustin Hendershot
959 Nash Run Road
Middlebourne, WV 26149 ✓

Charles Pyles
1098 Nash Run Road
Middlebourne, WV 26149 ✓

Joseph Sitko
315 Airport Drive
Sellersville, PA 18960 ✓

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

Date of Notice: 3/17/2014 **Date of Planned Entry:** 3/24/2014

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)
 Name: Richard D. & Cathy J. Pyles
 Address: RR 2 Box 309 Middlebourne, WV 26149
 Name: Charles W. and Gay I. Pyles
 Address: RR 2 Box 309 Middlebourne, WV 26149
 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: Richard D. and Cathy J. Pyles
 Address: RR 2 Box 309 Middlebourne, WV 26149
 ** Additional Documents Attached
 MINERAL OWNER(s)
 Name: Richard D. and Cathy J. Pyles
 Address: RR 2 Box 309 Middlebourne, WV 26149
 ** Additional Documents Attached
 *please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>Lat 39.503499 Long -80.837241</u>
County: <u>Tyler County</u>	Public Road Access: <u>CR 34/3</u>
District: <u>Ellsworth District</u>	Watershed: <u>Middle Ohio North</u>
Quadrangle: <u>Porters Falls</u>	Generally used farm name: <u>Pyles Farm</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production 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). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: <u>STATOIL USA ONSHORE PROPERTIES INC.</u>	Address: <u>2103 CITYWEST BLVD. STE. 800 HOUSTON, TX 77042</u>
Telephone: <u>713-918-8200</u>	
Email: <u>BEKW@STATOIL.COM</u>	Facsimile: <u>713-918-8290</u>

Oil and Gas Privacy Notice:

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

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Pyles 7H

Additional Coal Owner(s):

Philip E. Anderson (POA) for
Charles Earnest and Onelee Doris Anderson
516 Wick Road ✓
Middlebourne, WV 26149

Rodney A. and Candis Nash ✓
236 Nash Run Road
Middlebourne, WV 26149

Sandra Brightwell ✓
Subject to LE to Norma Ball
PO Box 122
Pennsboro, WV 26415

Connie R. Zimmerman ✓
137 Central Avenue
New Martinsville, WV 26155

Michael Lough ✓
105 N. 1 Avenue
Paden City, WV 26159

Charles W. Henderson Jr. and Sandra R. Henderson ✓
HC 69, Box 36A
Middlebourne, WV 26149

Sue Ann Walter ✓
14 Asylym Street
Norwich, CT 06360

Kathryn Henderson Smith ✓
111 Russell Street
Cabin Creek, WV 25035

Nancy J. Miller ✓
169 Oil Ridge Road
Sistersville, WV 26175

Stephen R. Henderson ✓
Route 1, Box 507
Middlebourne, WV 26149

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Eva Gene Taylor ✓
2600 Killian Road
Uniontown, Ohio 44685

Juanita Noland ✓
460 East Main Street
Barnesville, Ohio 43713

Ruth Ann Lucas ✓
904 Kennebec Avenue
Akron, Ohio 44305

Additional Mineral Owner(s):

Helen Elizabeth Ferrel ✓
c/o Helen Boggs
RR 1, Box 189
Middlebourne, WV 26149

Norma Pauline Ball (Life Estate) ✓
Sandra Brightwell (Remainder Interest)
114 Market Street
P. O. Box 122
Pensboro, WV 26415

Charles Earnest and Onelee Doris Anderson ✓
Route 1, Box 150
Middlebourne, WV 26149

Rodney A. and Candis Nash ✓
236 Nash Run Road
Middlebourne, WV 26149

Sue Ann Walter ✓
14 Asylym Street
Norwich, CT 06360

Charles W. Henderson Jr. and Sandra R. Henderson ✓
HC 69, Box 36A
Middlebourne, WV 26149

Kathryn Henderson Smith ✓
111 Russell Street
Cabin Creek, WV 25035

Nancy J. Miller ✓
169 Oil Ridge Road
Sistersville, WV 26175

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Stephen R. Henderson
Route 1, Box 507
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Uniontown, Ohio 44685

Juanita Noland
460 East Main Street
Barnesville, Ohio 43713

Ruth Ann Lucas
904 Kennebec Avenue
Akron, Ohio 44305

Connie R. Zimmerman
137 Central Avenue
New Martinsville, WV 26155

Michael Lough
105 N. 1 Avenue
Paden City, WV 26159

Richard D. & Cathy J. Pyles
(Remainder Interest)
RR 2 Box 309
Middlebourne, WV 26149
Gay I. Pyles
(LE Interest)

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

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

Date of Notice: 12/30/2014 Date Permit Application Filed: 01/15/2015

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

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

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

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

Name: Charles & Gay Pyles
Address: 1098 Nash Run Road
Middlebourne, WV 26149

Name: Richard "Rick" & Cathy Pyles
Address: 803 Nash Run Road
Middlebourne, WV 26149

Notice is hereby given:

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

State:	West Virginia	UTM NAD 83 Easting:	-513985.43
County:	Tyler	UTM NAD 83 Northing:	-4372668.87
District:	Ellsworth	Public Road Access:	CR 34
Quadrangle:	Porters Falls Sec 7	Generally used farm name:	Pyles Farm
Watershed:	Gorrell Run - Middle Island Creek		

This Notice Shall Include:

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

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

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

Oil and Gas Privacy Notice:

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

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470950224

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

January 13, 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 Pyle Pad Tyler County
Pyle 7H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit # 06 -2014-0553 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 34/3 SLS.

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

Very Truly Yours,

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

Cc: Joshua Ozment
Statoil USA Onshore Properties Inc.
CH, OM, D-6
File

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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
---------------	-----------

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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05/22/2015

4709502243

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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