



**west virginia** department of environmental protection

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

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

June 30, 2015

**WELL WORK PERMIT**

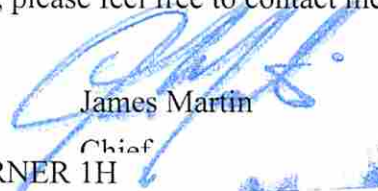
**Horizontal 6A Well**

This permit, API Well Number: 47-9502253, 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: MURNER 1H  
Farm Name: MURNER, JOSEPH & ROSELLA

**API Well Number: 47-9502253**

**Permit Type: Horizontal 6A Well**

Date Issued: 06/30/2015

## PERMIT CONDITIONS

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

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### CONDITIONS

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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](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.

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

4709502253

1) Well Operator: Statoil USA Onshore Properties 494505083 Tyler Ellsworth Porter Falls-Sec 8  
Operator ID County District Quadrangle

2) Operator's Well Number: 1H Well Pad Name: Murner

3) Farm Name/Surface Owner: Murner/Joseph Murner & Rosella Murner Public Road Access: CR 34

4) Elevation, current ground: 1279' Elevation, proposed post-construction: 1266'

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other \_\_\_\_\_

(b) If Gas Shallow  Deep \_\_\_\_\_  
Horizontal  \_\_\_\_\_

*Michael Doff*  
*3/30/15*

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):  
Marcellus, Formation Top 6721' TVD, 52' thick, 4390 psi

8) Proposed Total Vertical Depth: 6753'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 13,760'

11) Proposed Horizontal Leg Length: 6811'

12) Approximate Fresh Water Strata Depths: 348' TVD

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

14) Approximate Saltwater Depths: 708' TVD

15) Approximate Coal Seam Depths: 461', 501'

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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18)

**CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	120'	120'	Cement to Surface-150 cuft
Fresh Water	13.375"	New	J-55	54.4#	400'	400'	Cement to surface-404 cuft
Coal	NA	---	---	---	---	---	---
Intermediate	9.625"	New	J-55	36#	2361'	2361'	Cement to surface- 967 cuft
Production	5.5"	New	P-110	20#	13760'	13760'	Cement to 1361'-3167 cuft
Tubing	2.375"	New	L-80	4.7#	---	---	---
Liners	NA	---	---	---	---	---	---

MDC  
3/30/15

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	26"	.438"	1530 psi	---	Class A	1.3 cuft/sk
Fresh Water	13.375"	17.5"	.380"	2730 psi	291	Class A	2.31 cuft/sk
Coal	NA	---	---	---	---	---	---
Intermediate	9.625"	12.25"	.352"	3520 psi	1899	Class A	2.31 cuft/sk
Production	5.5"	8.5"	.361	12640 psi	10000	Class A	1.37 cuft/sk
Tubing	2.375"	5.5"	.19"	11200 psi	3325	---	---
Liners	NA	---	---	---	---	---	---

**PACKERS**

Kind:	HES Versa-Set Retrievable Packer		
Sizes:	2.375" x 5.5"		
Depths Set:	5700'		

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4700502253

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): 15.1 acres

22) Area to be disturbed for well pad only, less access road (acres): 2.01 acres & .90 acres

23) Describe centralizer placement for each casing string:

See Attached

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

See Attached

25) Proposed borehole conditioning procedures:

See Attached

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\*Note: Attach additional sheets as needed.

WW-6B – Murner 1H

JUN 24

19) Describe proposed well work, including the drilling and plugging back

20" conductor will be pre-set prior to start of operations and cemented in place to surface at approximately 120ft. A 17 1/2" surface hole will be drilled with fresh water to approximately 400' 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 1/4" intermediate hole section will be drilled with 5% KCL Polymer (WBM) and a conventional mud motor to approximately 2361' 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. A 9 1/2" vertical hole section will be to planned kick-off point using Synthetic Based Mud (SBM) and a conventional mud motor. The wellbore will be deviated from vertical and landed horizontally in the Marcellus Target horizon, and extended laterally to total depth of 13,760' md/ 6,753' vd using SBM and conventional mud motors. A 5 1/2" 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.

25) Proposed borehole conditioning procedures:

Surface – Drilled with fresh water to section total depth. Prior to tripping, hole will circulated clean of cuttings and back-reamed if necessary.

Intermediate – Drilled with 9.0 ppg 5% KCL Polymer Water Based Mud (WBM) to section total depth. At section total depth, pump 40bbl viscous pill and circulate hole clean.

WW-6B – Murner 1H

4700000003

Production - Drilled with 12.0-12.5 ppg Synthetic Based Mud (SBM) to section total depth. At section total depth pump 2-3 20bbl heavy weighted pill sweeps to transport excess cutting from the hole until clean. Pump rates will be maintained in excess of 600 GPM, and rotation in excess of 100 RPM to assist cuttings transport. A 60 bbl tuned weighted spacer will be pumped ahead of the cement to assist in mud cake removal and water wett both casing and formation.

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**CEMENT ADDITIVES**

4709502251

Surface - Class A + 3% CaCl<sub>2</sub>

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

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# Marcellus - Drilling Well Schematic

00502253

Well Name: Murner 1H  
 Field Name: Marcellus  
 County: Tyler, WV  
 API #: 0

BHL: X = 1688717.90 Y = 14351619.55  
 SHL: X = 1691059.33 Y = 14344589.75

GLE (ft): 1,266  
 DF (ft): 22  
 TVD (ft): 6,753  
 TMD (ft): 13,760  
 Profile: Horizontal  
 AFE No.: n/a

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	120	120	1,168	-	-	-	-	120		20" Conductor 17 1/2" Surface
Casing Point	400	400	888	65	-	-	Water	400		Profile: Vertical Bit Type: 17-1/2" SMITH MS1716 BHA: 9.5/8" Motor with Shocksab Mud: Water Surveys: n/a Logging: n/a Casing: 13.375in 54.5 # J-55 BTC set @ ~ 400 MD/400 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 BondCem gas tight single slurry tail design to surface Potential Drilling Problems:
Approximate fresh water strata ~348'										
Washington Coal	461	461	827	-	-	-		TOC 1,361		FIT/LOT: 14.0 ppg EMW Profile: Nudge and hold for anticollision Bit Type: 12-1/4" SMITH TCI F37YACPS (IADC:547Y) BHA: 8" Directional Assy 7:8 Lobe 2.0 Stg .07 rpg 1.83ABH (0.10 rpg/375 Diff) Mud: Air/Mist Surveys: Gyro MS, MWD EM Pulse Logging: n/a Casing/Liner: 9.625in 36# J55 BTC set at 2361MD/ 2361TVD. Liner Hanger: n/a 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 BondCem gas tight, single slurry tail design to surface Potential Drilling Problems: Slow ROP, DBR bit matrix
Waynesburg A Co	501	501	787	-	-	-				
Washington Coal	708	708	580	-	-	-	Air/Mist			
							Air/Mist			
Big Injun (Base)	2,261	2,261	-973							
Casing Point	2,361	2,361	-1,073	82	-	>18.0	Air/Mist			FIT/LOT: 16.6 ppg EMW Profile: KO from Vertical, Land HZ Bit Type: 8-1/2" SMITH TCI F47YAPS (IADC: 617Y) - Vert 8 1/2" Smith SDA1513 (curve & lateral) BHA: Directional Assembly (Steerable Motor) + EM w/ GR 6.75in 7:8 Lobe, 2.9 Stg (0.17rpg, 560 Diff) - Vert 6.75in 6:7 Lobe, 5.0 Stg (1.95 deg Fixed, 0.29 rpg, 715 Diff) - HZ Mud: Air/Mist down to KOP and SBM C&L. Surveys: MWD EM Pulse Logging: n/a Casing/Liner: 5.5in 20# P110EC Vam Top HT to 0' to TD @ 13760 ft MD Csg Hanger: Fluted mandrel hanger Centralizers: 1 centek centralizer w/ stop collar 10ft above shoe. 1 centek centralizer 10ft above float collar. 1 centek centralizer every joint (floating) until KOP. 1 centek centralizer every 3 joints (floating) until 200ft inside intermediate shoe. 1 centek centralizer 50ft below mandrel hanger. Cement: 15.0 ppg BondCem gas tight single slurry tail design to 1361MD Potential Drilling Problems: Wellbore instability in lateral w/ MW < 11.5 ppg Notes / Comments:
Weir	2,443	2,443	-1,155				Air/Mist			8 1/2" Production
Berea	2,634	2,634	-1,346				Air/Mist			
Gordon Stray	2,857	2,857	-1,569				Air/Mist			
Gordon	2,889	2,889	-1,601				Air/Mist			
Fourth Sand	2,919	2,919	-1,631				Air/Mist			
Warren	3,555	3,555	-2,267				Air/Mist			
Java	4,814	4,814	-3,526				Air/Mist			
Undiff. Shales	4,846	4,846	-3,558				Air/Mist			
KOP1	6,174	6,167	-5,030				12.0 - 12.5			
Middlesex	6,540	6,540	-5,252				12.0 - 12.5			
West River	6,570	6,570	-5,282				12.0 - 12.5			
Genesee	6,639	6,639	-5,351				12.0 - 12.5			
Tully	6,669	6,669	-5,381				12.0 - 12.5			
Hamilton	6,679	6,679	-5,391				12.0 - 12.5			
Marcellus	6,721	6,721	-5,433	150						
CherryValley	6,749	6,749	-5,461	150			12.0 - 12.5			
Tgt Landing Point	7,101	6,753	-5,465	150			12.0 - 12.5			
Onondaga	6,773	6,773	-5,485							TMD: 13,760 TVD: 6,753

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

4709502253

Operator Name Statoil USA Onshore Properties Inc. OP Code 494505083

Watershed (HUC 10) Elk Fork Quadrangle Porter Falls - Sec 8

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 \_\_\_\_\_)

MAG  
3/30/15

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

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

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

Additives to be used in drilling medium? emulsifier, food grade, barite, surfactant, calcium carbonate, gilsonite, lubricant, graphite, lime

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? Wetzel County Landfill

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Bekki Winfree

Company Official (Typed Name) Bekki Winfree

Company Official Title Sr. Regulatory Advisor

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Subscribed and sworn before me this 12 day of March, 20 15 APR 14 2015

Wally Anthony Stuka

My commission expires April 16, 2017

Notary Public  
WV Department of  
Environmental Protection  
WALLY ANTHONY STUKA  
My Commission Expires  
April 16, 2017  
07/03/2015



**Statoil USA Onshore Properties Inc.**

Proposed Revegetation Treatment: Acres Disturbed 11.57 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

4709502253

Seed Mixtures

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

Winter Rye - 168 lbs/acre

Tall Fescue or Orchard Grass - 40 lbs/acre

Annual Ryegrass - 40 lbs/acre

Ladino Clover - 3 lbs/acre

Redtop - 3 lbs/acre

**Attach:**

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Michael Doff

Comments: Proceed & Mulch any disturbed areas per WVDEP regulations. Maintain & upgrade E-n-s as necessary.

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Title: Oil & Gas Inspector

Date: 3/30/15

Field Reviewed?  Yes  No

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**Murner Pad – Site Safety Plan**

**Statoil USA Onshore Properties, Inc.**

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*Mud 5/10/2015*

07/03/2015



CHARLES PYLES  
2-16-42

PROPOSED MURNER  
FACILITIES PAD

PROPOSED MURNER  
WELL PAD

JOE MURNER  
5495 GORRELLS RUN RD  
MIDDLEBOURNE, WV 26149  
2-16-37

LEO WIKER  
231 S MAIN ST SUITE 205  
GREENSBURG, PA 15601  
2-16-39-1  
(ALSO USED BY  
CHESTER HAIR)

GORRELLS RUN RD  
WV COUNTY ROUTE 34

CHESTER HAIR  
5178 GORRELLS RUN RD  
MIDDLEBOURNE, WV 26149  
(WELL INACTIVE, DRY)  
2-16-27

07/03/2015



FORM WW-6

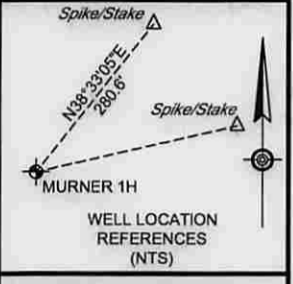
<b>SURFACE HOLE LOCATION</b>
UTM 17 - NAD 83 N - 4372457.54 E - 515450.36
WV SPC NORTH NAD83 N - 367548.39 E - 1595961.11
<b>LANDING POINT LOCATION</b>
UTM 17 - NAD 83 N - 4372618.03 E - 515351.52
WV SPC NORTH NAD83 N - 368080.43 E - 1595645.54
<b>BOTTOM HOLE LOCATION</b>
UTM 17 - NAD 83 N - 4374600.23 E - 514736.77
WV SPC NORTH NAD83 N - 374618.69 E - 1593736.84



- 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**

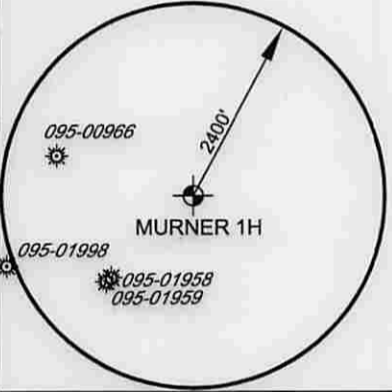
- OUTER LEASE BOUNDARY.
- INTERIOR LEASE BOUNDARY
- SURFACE TRACT LINES
- WELL REFERENCE LINES
- 34 11 - COUNTY ROADS
- PUBLIC ROADS
- BLUE-LINE STREAMS
- # - MINERAL OWNER
- ☉ - PROPOSED WELL
- ☼ - EXISTING WELL
- ▲ - LANDING POINT
- ⊗ - BOTTOM HOLE



**PROPERTY TIES**  
L1 - N40°15'W 674.8  
L2 - S55°20'E 2028.9

**Murner 1H Mineral Ownership**

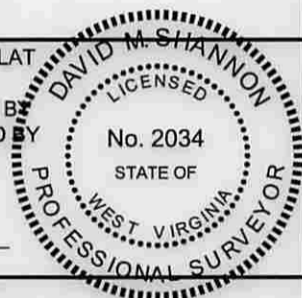
199 - Mark Quinton Miller, et al
202 - BRC Appalachian Minerals I LLC/OXY USA, LLC
96 - BRC Appalachian Minerals I LLC/OXY USA, LLC
339 - BRC Appalachian Minerals I LLC/OXY USA, LLC
340 - BRC Appalachian Minerals I LLC/OXY USA, LLC
347 - BRC Appalachian Minerals I LLC/OXY USA, LLC
414 - Ridgetop Capital LP, et al



FILE NO. 8790-003-8  
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

**WELL TYPE:** OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
IF "GAS", PRODUCTION  STORAGE  DEEP  SHALLOW

**LOCATION:** WATERSHED ELK FORK ELEVATION 1266  
COUNTY/DISTRICT TYLER / ELLSWORTH QUADRANGLE PORTERS FALLS - SEC 8  
SURFACE OWNER JOSEPH MURNER & ROSELLA MURNER ACREAGE 30  
OIL & GAS ROYALTY OWNER MARK QUINTON MILLER, ET AL ACREAGE 326.34± Ac

**PROPOSED WORK:** DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY) \_\_\_\_\_

**TARGET FORMATION:** MARCELLUS ESTIMATED DEPTH 6753  
**WELL OPERATOR:** STATOIL USA ONSHORE PROPERTIES, INC. DESIGNATED AGENT RICHARD PYLES  
**ADDRESS** 2103 CITYWEST BOULEVARD / SUITE 800 ADDRESS 803 NASH ROAD  
HOUSTON TX, 77042 MIDDLEBOURNE, WV 26149



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

DATE 6-25-2015  
OPERATORS WELL NO. MURNER 1H  
API WELL NO. 47 095 02253 H6A  
STATE COUNTY PERMIT

07/03/2015

P:\8790\8790-003-8 MURNER (WV-8)\DATA\SURVEYS\MURNER FINAL WELL PLAT.DWG

COUNTY NAME PERMIT

4709502253

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

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

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

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

(See Attachment for Details)

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Office of Oil and Gas

APR 14 2015

WV Department of  
Environmental Protection

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

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

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

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Statoil USA Onshore Properties Inc.  
 By: *Bill Almf*  
 Its: *Sr. Regulatory Advisor*



Form WW-GA-1 - Preliminary Information: (Attachment)

Murner 1H

4709502253

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WV Department of  
Natural Resources

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

**TRACT #199**

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book/Page
000144006027	Mark Quinton Miller	Statoil USA Onshore Properties Inc.	At least 1/8 <sup>th</sup>	460/407
000144006011	Catherine Lynn Marlowe	Statoil USA Onshore Properties Inc.	At least 1/8 <sup>th</sup>	449/412

**TRACT #202**

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book/Page
000096849000	BRC Appalachian Minerals I LLC/OXY USA, Inc	BRC Working Interest Company LLC	At least 1/8 <sup>th</sup>	369/300
Assignment	BRC Working Interest Company LLC	Chesapeake Appalachia LLC	NA	369/784
Assignment	Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	NA	378/764
*Somerset Minerals LP, BP Mineral Holdings II, LLC, and OXY USA, LLC interests all encompassed by the above lease.				

**TRACT #96**

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book/Page
000096849000	BRC Appalachian Minerals I LLC/OXY USA, Inc	BRC Working Interest Company LLC	At least 1/8 <sup>th</sup>	369/300
Assignment	BRC Working Interest Company LLC	Chesapeake Appalachia LLC	NA	369/784
Assignment	Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	NA	378/764
*Somerset Minerals LP, BP Mineral Holdings II, LLC, and OXY USA, LLC interests all encompassed by the above lease.				

**TRACT #339**

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book/Page
000096849000	BRC Appalachian Minerals I LLC/OXY USA, Inc	BRC Working Interest Company LLC	At least 1/8 <sup>th</sup>	369/300
Assignment	BRC Working Interest Company LLC	Chesapeake Appalachia LLC	NA	369/784
Assignment	Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	NA	378/764
*Somerset Minerals LP, BP Mineral Holdings II, LLC, and OXY USA, LLC interests all encompassed by the above lease.				

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WV Department of  
Environmental Protection

Book/Page  
Royalty

**TRACT #340**

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book/Page
000096849000	BRC Appalachian Minerals I LLC/OXY USA, Inc	BRC Working Interest Company LLC	At least 1/8 <sup>th</sup>	369/300
Assignment	BRC Working Interest Company LLC	Chesapeake Appalachia LLC	NA	369/784
Assignment	Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	NA	378/764

\*Somerset Minerals LP, BP Mineral Holdings II, LLC, and OXY USA, LLC interests all encompassed by the above lease.

**TRACT #347**

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book/Page
Assignment	BRC Appalachian Minerals I LLC/OXY USA, Inc	Chesapeake Appalachia LLC	NA	369/784
Assignment	Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	NA	378/764

\*Somerset Minerals LP, BP Mineral Holdings II, LLC, and OXY USA, LLC interests all encompassed by the above lease.

**TRACT #414**

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book/Page
Pending	Ridgetop Capital LP	Petroedge Energy LLC	At least 1/8 <sup>th</sup>	420/643
Assignment	Petroedge Energy LLC	Statoil USA Onshore Properties Inc	At least 1/8 <sup>th</sup>	406/147

**MURNER 1H ROAD CROSSING LETTERS**

**4709502253**

Statoil Tract Index #199

Statoil Tract Index #202

Statoil Tract Index #96

Statoil Tract Index #339

Statoil Tract Index #340

Statoil Tract Index #347

Statoil Tract Index #414

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**Office of Oil and Gas**  
**APR 14 2015**  
**WV Department of**  
**Environmental Protection**

07/03/2015



# MILLER LAW OFFICES, PLLC

KENNETH R. MILLER  
KENNETH ALEXANDER MILLER II\*

\*Also Admitted in Ohio

ATTORNEYS AT LAW  
936 EAST PARK AVENUE, SUITE 2  
POST OFFICE BOX 2116  
FAIRMONT, WEST VIRGINIA 26554  
millerlawofficeswv@gmail.com  
millerlawofficeswv.com

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

4709502253

April 9, 2015

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

Re: Road Crossing Letters Requirement  
Title Index No. 199  
Title of Joseph Murner, et al.  
to 30 acres oil and gas  
waters of Elk Fork, Ellsworth District  
Tyler County, West Virginia  
Tax Map #16, parcel 37

Dear Mr. Ozment:

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

## State of West Virginia Ownership Under Public Roads

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

Respectfully submitted,



Alex Miller

07/03/2015

MILLER LAW OFFICES, PLLC

470950225  
304-366-0822  
FAX: 304-366-0825

KENNETH R. MILLER  
KENNETH ALEXANDER MILLER II\*

ATTORNEYS AT LAW  
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millerlawofficeswv@gmail.com  
millerlawofficeswv.com

\*Also Admitted in Ohio

April 9, 2015

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

Re: Road Crossing Letters Requirement  
Title Index No. 202  
Title of OXY USA, Inc., et al.  
to 67.49 acres oil and gas  
waters of Margery Run, Ellsworth District  
Tyler County, West Virginia  
Tax Map #16, parcel 26

Dear Mr. Ozment:

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

**State of West Virginia Ownership Under Public Roads**

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

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Respectfully submitted,  
*Alex Miller*  
WV Department of  
Environmental Protection  
Alex Miller

MILLER LAW OFFICES, PLLC

KENNETH R. MILLER  
KENNETH ALEXANDER MILLER II\*

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millerlawofficeswv@gmail.com  
millerlawofficeswv.com

4709502253  
304-366-0822  
FAX: 304-366-0825

\*Also Admitted in Ohio

April 9, 2015

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

Re: Road Crossing Letters Requirement  
Title Index No. 96  
Title of OXY USA, Inc., et al.  
to 62.375 acres oil and gas  
waters of Sugar Run, Ellsworth District  
Tyler County, West Virginia  
Tax Map #16, parcel 25

Dear Mr. Ozment:

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

**State of West Virginia Ownership Under Public Roads**

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

RECEIVED  
Office of Oil and Gas  
Respectfully submitted,  
APR 14 2015  
Alex Kimmer  
WV Department of Environmental Protection

07/03/2015

MILLER LAW OFFICES, PLLC

4709502253  
304-366-0822

KENNETH R. MILLER  
KENNETH ALEXANDER MILLER II\*

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millerlawofficeswv@gmail.com  
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304-366-0822  
FAX: 304-366-0825

\*Also Admitted in Ohio

April 9, 2015

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

Re: Road Crossing Letters Requirement  
Title Index No. 339  
Title of OXY USA, Inc., et al.  
to 20.25 acres oil and gas  
waters of Elk Fork, Ellsworth District  
Tyler County, West Virginia  
Tax Map #16, parcel 20

Dear Mr. Ozment:

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

**State of West Virginia Ownership Under Public Roads**

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

Respectfully submitted,  
**RECEIVED**  
Office of Oil and Gas  
*[Signature]*  
APR 14 2015  
Alex Miller  
WV Department of  
Environmental Protection

07/03/2015

MILLER LAW OFFICES, PLLC

KENNETH R. MILLER  
KENNETH ALEXANDER MILLER II\*

\*Also Admitted in Ohio

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936 EAST PARK AVENUE, SUITE 2  
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FAIRMONT, WEST VIRGINIA 26554  
millerlawofficeswv@gmail.com  
millerlawofficeswv.com

304-366-0822  
304-366-0825  
4709302253

April 9, 2015

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

Re: Road Crossing Letters Requirement  
Title Index No. 340  
Title of OXY USA, Inc., et al.  
to 31.094 acres oil and gas  
waters of Margery Run, Ellsworth District  
Tyler County, West Virginia  
Tax Map #16, parcel 7.1

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 of Tyler County, West Virginia relative to the captioned tract.

**State of West Virginia Ownership Under Public Roads**

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

Respectfully submitted,  
**RECEIVED**  
*Alex Miller*  
Office of Oil and Gas  
APR 14 2015  
Alex Miller  
WV Department of  
Environmental Protection

07/03/2015



MILLER LAW OFFICES, PLLC

KENNETH R. MILLER  
KENNETH ALEXANDER MILLER II\*

\*Also Admitted in Ohio

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millerlawofficeswv@gmail.com  
millerlawofficeswv.com

6-09502253  
304-366-0822  
FAX: 304-366-0825

April 9, 2015

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

Re: Road Crossing Letters Requirement  
Title Index No. 347  
Title of OXY USA, Inc., et al.  
to 26.464 acres oil and gas  
waters of Margery Run, Ellsworth District  
Tyler County, West Virginia  
Tax Map #16, parcel 7

Dear Mr. Ozment:

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

State of West Virginia Ownership Under Public Roads

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

Respectfully submitted,

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Office of Oil and Gas

Alex MAI  
APR 14 2015

WV Department of  
Environmental Protection

07/03/2015

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

July 3, 2014

Tyler # 414

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

Attention: Mr. Joshua S. Ozment

Re: Henry L. Croasmun, et al 69.06 Acre Tract out of Ellsworth District in Tyler County, West Virginia (Tax Parcel No. 2-16-6)

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tax Parcel No. 2-16-6, containing 69.06 acres, more or less, out of Ellsworth District in Tyler County, West Virginia, and being the same land described as the First Tract in a Deed, dated June 30, 1998, from Larry G. Rice and wife, Freda M. Rice, to Henry Louis Croasmun and wife, Joreen B. Croasmun, recorded in Book 323, Page 695, 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.'s field landman for Statoil North America, Inc., covering the Subject Lands for the period from April 25, 1889 through and including March 6, 2014 in Tyler County, West Virginia (the "Title Runsheet");
2. The public records of Tyler County, West Virginia ("Records") for the period from April 25, 1889 through and including March 6, 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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Environmental Protection

07/03/2015

470950225

OWNERSHIP

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

SURFACE OWNERSHIP

1. Henry L. Croasmun (100%)	<u>1.00000000</u>
Total Surface Ownership:	1.00000000

OIL AND GAS EXECUTIVE RIGHTS AND MINERAL FEE

1. Henry L. Croasmun (1/3)	0.33333334
2. Ridgetop Capital, LP (1/3)	0.33333333
3. Ridgetop Capital II, LP (1/3)	<u>0.33333333</u>
Total Oil and Gas Executive Rights and Mineral Fee Ownership:	1.00000000

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07/03/2015

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

Date of Notice Certification: 04/08/2015

API No. 47- \_\_\_\_\_  
Operator's Well No. <sup>1H</sup> 0950225  
Well Pad Name: Mumer

**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>515450.36 m</u>
County: <u>Tyler</u>	Northing: <u>4372457.54 m</u>
District: <u>Ellsworth</u>	Public Road Access: <u>CR 34</u>
Quadrangle: <u>Porter Falls - Sec 8</u>	Generally used farm name: <u>Mumer Farm</u>
Watershed: <u>Elk Fork</u>	

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input 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 style="padding-left: 40px;"><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><b>OOG OFFICE USE ONLY</b></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>
---	---

**Required Attachments:**

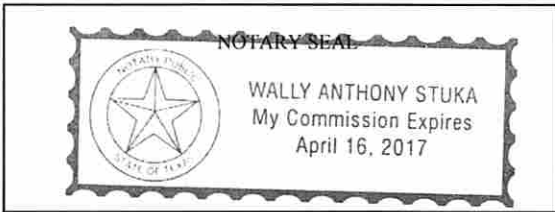
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

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Office of Oil and Gas  
APR 14 2015  
WV Department of  
Environmental Protection

**Certification of Notice is hereby given:**

470950207  
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>Bekki Winfree</i></u>		<u>Houston, TX 77042</u>
Its:	<u>Sr. Regulatory Advisor</u>	Facsimile:	<u>713-918-8290</u>
Telephone:	<u>713-918-8200</u>	Email:	<u>BEKW@Statoil.com</u>



Subscribed and sworn before me this 8 day of April 2015.  
*Wally Anthony Stuka* Notary Public  
 My Commission Expires April 16, 2017

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto: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:** 3/24/2015 **Date Permit Application Filed:** \_\_\_\_\_

**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: Joseph Mumer  
Address: 5495 Gorrells Run Road  
Middlebourne, WV 26149

Name: Rosella Mumer  
Address: 5495 Gorrells 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: See attached.  
Address: \_\_\_\_\_

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: See attached  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

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

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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 57<sup>th</sup> 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.**

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**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)

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_  
OPERATOR WELL NO. Murner 1H  
Well Pad Name: Murner

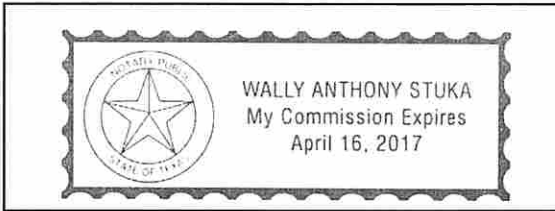
**Notice is hereby given by:**

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

Address: 2103 CITYWEST BLVD. STE. 500 HOUSTON, TX 77042  
Facsimile: 713-918-8290  
*4709502253*

**Oil and Gas Privacy Notice:**

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



Subscribed and sworn before me this 8 day of April, 2015.  
*Wally Anthony Stuka* Notary Public  
My Commission Expires April 16, 2017

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WW-6A Attachment – Murner 1H

Coal Owner(s):

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Catherine Lynn Marlowe  
423 Old Buggy Trail  
Hillsbough, NC 27278

Dorothy Hylton  
14715 Evans Road  
Evans, WV 25241

Dorla Livingston  
14715 Evans Road  
Evans, WV 25241

Darrell Wayne McIntyre  
143 Foxwood Drive  
Lexington, NC 27295

Sharon McIntyre  
143 Foxwood Drive  
Lexington, NC 27295

Hubert Walker  
P. O. Box 4083  
Alving, Texas 77512

William T. McIntyre  
8700 Lowell Road  
Pomfret, MD 20675

Verlin Dixon  
24383 Forrestview Drive  
Columbia Station, Ohio 44711

Ronald Dixon  
113 Walnut Street  
Evans, WV 25241

Blondene Van Slice  
564 Evergreen Hills Road  
Cottageville, WV 25239

Monty E. McIntyre  
Route 1, Box 171  
Ravenswood, WV 26164

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Richard Michael Fischmann  
827 Bloomfield Avenue  
Akron, Ohio 44313

Michael Richard Fischmann  
1361 Getz Street  
Akron, Ohio 44301

Betty Williams  
5112 Morningside Circle  
Parkersburg, WV 26101

Charisse Straight  
138 Greenwood Road  
Fairfield Glade, TN 38558

Betty Kay Johnson  
118 North Fourth Street  
McConnelsville, Ohio 43756

Helen Claire Cullison  
760 Janice Lane  
Pickerington, Ohio 43147

Stephen C. R. Stephens  
245 Linaburg Lane #1835  
Berryville, VA 22611

Michael M. Stephens  
98 Woodstone Road  
Davisville, WV 26142

Terry Stephens Zeman  
5483 Twin Beach Road #3161  
Port Clinton, Ohio 43452

Meredyth Ann Meredith  
2215 Black Oak Place  
Riverside, CA 92506

Marcus Meredith  
2215 Black Oak Place  
Riverside, CA 92506

Nancy Meredith  
4109 9th Avenue  
Vienna, WV 26105

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Melody Ann Holstein  
2701 Fairlawn Avenue #12  
Dunbar, WV 26064

Larry Wisnewski  
914 Chittum Lane  
Charleston, WV 05309

Donald E. McIntyre  
2707 Virginia Avenue  
Hurricane, WV 25526

Cleona G. Null  
P. O. Box 1048  
Ripley, WV 25271

Shawn Castle  
P. O. Box 1063  
Ripley, WV 25271

Ted McClanahan  
1204 Staats Mill Road  
Ripley, WV 25276

Stephen Milam  
42 South 4th Street  
Rittman, Ohio 44270

Tammy White  
406 Wildwood Drive  
Millwood, WV 25262

Delores J. McIntyre  
1546 Kanawha Blvd. East Apt. 917  
Charleston, WV 25311

Lessia Gayle Malloy  
191 Cross No Road  
Doyline, LA 71023

Gary Estep  
2019 Mt. Vernon  
Hurricane, WV 25526

Michael Alan McIntyre  
2457 North Drake, Apt. B  
Chicago, Illinois 60647

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Debra McIntyre Simmons Reed  
12445 Kaywood Street NW  
Massillon, Ohio 44647

Susan Ertel  
2516 Young Drive  
Haymarket, VA 20169

Linda Lee McIntyre  
25 Heather Way  
Millwood, WV 25262

Randy Joe McIntyre  
P. O. Box 302  
Cottageville, WV 25239

Carolyn White  
8352 Ripley Road  
Cottageville, WV 25239

Scottie Johnson  
1926 Ambler Ridge Road  
Walton, WV 25286

Annette Cummings  
388 Keener Acres  
Lincolnton, NC 28092

Gregory Johnson  
4546 East Nevada Avenue  
Fresno, CA 93702

Phyllis Summers  
154 Gradview Road  
Daniels, WV 25832

Meredith F. Cuddy  
12055 178th Street  
Summersfield, Florida 33491

Charles Edward Fink  
805 Country Lane  
Allen, Texas 75002

Janis Louanne Shaw  
475 Lewis Road  
Ontario, CA 44903

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Cloma Thomas Meredith ✓  
768 Pleasant Valley  
Moorehead, Kentucky 40351

Joseph and Rosella Murner ✓  
5495 Gorrells Run Road  
Middlebourne, WV 26149

Surface Owner(s) of Water Wells

Kenneth C Baker & Kay F. Hain C/O Bruce Hain ✓  
1874 North Lakeman Dr,  
Bellbrook, OH 45305-1205

Gilbert F. Eddy ✓  
5761 Gorrells Run Rd  
Middlebourne, WV 26149

Chester Hair ✓  
5178 Gorrells Run Rd  
Middlebourne, WV 26149-9758

George P & Aspasia Karabetis ✓  
6900 Columbia Rd,  
Baltimore, MD 21220-1065

Harlan D & Barbara Kittle ✓  
58 Mary St  
New Martinsville, WV 26188-2556

Rosella Murner ✗  
5495 Gorrells Run Rd  
Middlebourne, WV 26149-7715

Gay I Pyles ✓  
1098 Nash Run Rd  
Middlebourne, WV 26149-7732

Richard D & Cathy J Pyles & Dustin A Hendershot ✓  
803 Nash Run Rd  
Middlebourne, WV 26149

Kenneth Tomblin & Lori & Michael C/O Ben Tomblin ✓  
5913 Greencrest Dr,  
Hamilton, OH 45011-2223

Unknown Owner ✓  
PO Box 2,

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Middlebourne, WV 26149-0002

Leo W Wiker & John S. Wiker C/O William J Wiker  
231 S Main St,  
Suite 205,  
Greensburg, PA 15601-3115

Joseph Yurigan  
625 Bush Rd  
New Alexandria, PA 15670-2527

Joseph J. Yurigan  
625 Bush Rd  
New Alexandria, PA 15670-2527

07/03/2015

**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: Joseph E. & Rosella Murner  
Address: 5495 Gorrells Run Road Middlebourne, WV 26149

Name: Gilbert F. Eddy  
Address: 5761 Gorrells Run Road Middlebourne, WV 26149

Name: Harlan D. & Barbara Kittle  
Address: 58 Mary St. New Martinsville, WV 26155

\*\* Additional Documents Attached

COAL OWNER OR LESSEE

Name: Catherine Lynn Marlowe  
Address: 423 Old Buggy Trail Hillsbough, NC 27278

\*\* Additional Documents Attached

MINERAL OWNER(s)

Name: Catherine Lynn Marlowe  
Address: 423 Old Buggy Trail Hillsbough, NC 27278

\*\* 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: West Virginia  
 County: Tyler County  
 District: Ellsworth District  
 Quadrangle: Porters Falls

Approx. Latitude & Longitude: Lat 39.501485 Long -80.820327  
 Public Road Access: CR 34  
 Watershed: Middle Ohio North  
 Generally used farm name: Murner Farm

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 57<sup>th</sup> 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: STATOIL USA ONSHORE PROPERTIES INC.  
 Telephone: 713-918-8200  
 Email: BEKW@Statoil.com

Address: 2103 CITY WEST BLVD. STE. 800 HOUSTON, TX 77042  
 Facsimile: 713-918-8233

**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](mailto:depprivacyofficer@wv.gov).

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 Environmental Protection

Murner 1H

4709502253

Additional Surface Owner(s):

Charles E. and Gay I. Pyles  
RR 2 Box 309  
Middlebourne, WV 26149

Additional Coal Owner(s):

Dorothy Hylton  
14715 Evans Road  
Evans, WV 25241

Dorla Livingston  
14715 Evans Road  
Evans, WV 25241

Darrell Wayne McIntyre  
143 Foxwood Drive  
Lexington, NC 27295

Sharon McIntyre  
143 Foxwood Drive  
Lexington, NC 27295

Hubert Walker  
P. O. Box 4083  
Alving, Texas 77512

{ William T. McIntyre  
No Address Found

on  
6A form  
8700 Lowell Road  
Pomfret, MD 20675

Verlin Dixon  
24383 Forrestview Drive  
Columbia Station, Ohio 44711

Ronald Dixon  
113 Walnut Street  
Evans, WV 25241

Blondene Van Slice  
564 Evergreen Hills Road  
Cottageville, WV 25239

Monty E. McIntyre  
Route 1, Box 171  
Ravenswood, WV 26164

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Melody Ann Holstein  
2701 Fairlawn Avenue #12  
Dunbar, WV 26064

Larry Wisnewski  
914 Chittum Lane  
Charleston, WV 05309

Donald E. McIntyre  
2707 Virginia Avenue  
Hurricane, WV 25526

Cleona G. Null  
P. O. Box 1048  
Ripley, WV 25271

Shawn Castle  
P. O. Box 1063  
Ripley, WV 25271

Ted McClanahan  
1204 Staats Mill Road  
Ripley, WV 25276

Stephen Milam  
42 South 4th Street  
Rittman, Ohio 44270

Tammy White  
406 Wildwood Drive  
Millwood, WV 25262

Delores J. McIntyre  
1546 Kanawha Blvd. East Apt. 917  
Charleston, WV 25311

Lessia Gayle Malloy  
191 Cross No Road  
Doyline, LA 71023

Gary Estep  
2019 Mt. Vernon  
Hurricane, WV 25526

Michael Alan McIntyre  
2457 North Drake, Apt. B  
Chicago, Illinois 60647

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Debra McIntyre Simmons Reed  
12445 Kaywood Street NW  
Massillon, Ohio 44647

Susan Ertel  
2516 Young Drive  
Haymarket, VA 20169

Linda Lee McIntyre  
25 Heather Way  
Millwood, WV 25262

Randy Joe McIntyre  
P. O. Box 302  
Cottageville, WV 25239

Carolyn White  
8352 Ripley Road  
Cottageville, WV 25239

Scottie Johnson  
1926 Ambler Ridge Road  
Walton, WV 25286

Annette Cummings  
388 Keener Acres  
Lincolnton, NC 28092

Gregory Johnson  
4546 East Nevada Avenue  
Fresno, CA 93702

Phyllis Summers  
154 Gradview Road  
Daniels, WV 25832

Meredith F. Cuddy  
12055 178th Street  
Summersfield, Florida 33491

Charles Edward Fink  
805 Country Lane  
Allen, Texas 75002

Janis Louanne Shaw  
475 Lewis Road  
Ontario, CA 44903

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Richard Michael Fischmann  
827 Bloomfield Avenue  
Akron, Ohio 44313

Michael Richard Fischmann  
1361 Getz Street  
Akron, Ohio 44301

Betty Williams  
5112 Morningside Circle  
Parkersburg, WV 26101

Charisse Straight  
138 Greenwood Road  
Fairfield Glade, TN 38558

Betty Kay Johnson  
118 North Fourth Street  
McConnelsville, Ohio 43756

Helen Claire Cullison  
760 Janice Lane  
Pickerington, Ohio 43147

Stephen C. R. Stephens  
245 Linaburg Lane #1835  
Berryville, VA 22611

Michael M. Stephens  
98 Woodstone Road  
Davisville, WV 26142

Terry Stephens Zeman  
5483 Twin Beach Road #3161  
Port Clinton, Ohio 43452

Meredyth Ann Meredith  
2215 Black Oak Place  
Riverside, CA 92506

Marcus Meredith  
2215 Black Oak Place  
Riverside, CA 92506

Nancy Meredith  
4109 9th Avenue  
Vienna, WV 26105

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Cloma Thomas Meredith  
768 Pleasant Valley  
Moorehead, Kentucky 40351

Joseph and Rosella Murner  
5495 Gorrells Run Road  
Middlebourne, WV 26149

Additional Mineral Owner(s):

Dorothy Hylton  
14715 Evans Road  
Evans, WV 25241

Dorla Livingston  
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Evans, WV 25241

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5495 Gorrells Run Road  
Middlebourne, WV 26149

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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:** 03/24/2015      **Date Permit Application Filed:** \_\_\_\_\_

**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: Joseph Murner  
Address: 5495 Gorrells Run Road  
Middlebourne, WV 26149

Name: Rosella Murner  
Address: 5495 Gorrells 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: <u>West Virginia</u>	UTM NAD 83	Easting: <u>515450.36</u>
County: <u>Tyler</u>		Northing: <u>4372457.54</u>
District: <u>Ellsworth</u>	Public Road Access: <u>CR 34</u>	
Quadrangle: <u>Porters Falls - Sec 8</u>	Generally used farm name: <u>Murner Farm</u>	
Watershed: <u>Elk Fork</u>		

**This Notice Shall Include:**

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

Well Operator: STATOIL USA ONSHORE PROPERTIES INC.  
Telephone: 713-918-8200  
Email: BEKW@Statoil.com

Address: 2103 CITYWEST BLVD. STE. 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 of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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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

April 8, 2015

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

Subject: DOH Permit for the Murner Pad Tyler County  
Murner 1H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit # 06 -2014-0551 for the subject site to Statoil USA Onshore Properties Inc. for access to the State Road for the well site located off of Tyler County Route 34 SLS.

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

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Very Truly Yours,

WV Department of  
Environmental Protection

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

### 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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FRICITION REDUCER

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

SAND

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

GEL

Gelling Agent & Hydrocarbons	64742-96-7
------------------------------	------------

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Environmental Protection



# WELL PAD

## CONSTRUCTION PLANS CONTROL PLANS

MURNER COUNTY, WEST VIRGINIA  
MURNER CREEK WATERSHEDS

4709502



### PROPOSED SQUAD MAPS



#### SHEET INDEX

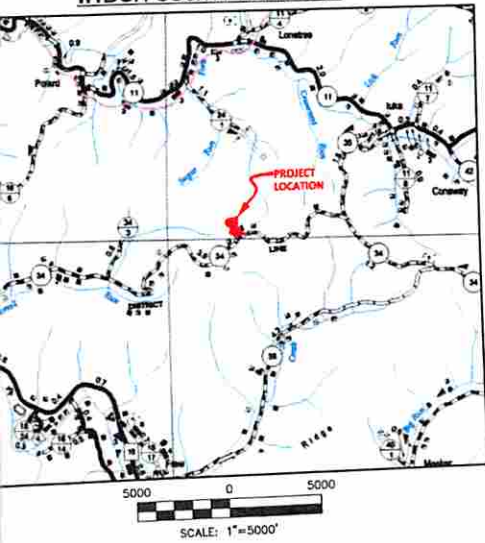
- 1 COVER SHEET
- 2-3 CONSTRUCTION AND E&S CONTROL NOTES
- 4 EXISTING CONDITIONS
- 5 EROSION & SEDIMENTATION CONTROL PLAN
- 6 DRILL PAD AND FACILITIES PAD GRADING PLAN
- 7 FACILITIES LAYOUT
- 8 ACCESS ROAD PROFILES
- 9-10 ACCESS ROAD CROSS SECTIONS
- 11 DRILL PAD & FACILITIES PAD CROSS SECTIONS
- 12-15 CONSTRUCTION DETAILS
- 16 RECLAMATION PLAN

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### WVDOH COUNTY ROAD MAP



PROPOSED WELL NAME	WV NORTH NAD 27	WV NORTH NAD 83	UTM (METERS) NAD 83 - ZONE 17	NAD 83 LAT & LONG
1H	N 367513.19 E 1627402.24	N 367548.38 E 1595961.11	N 4372457.54 E 515450.36	LAT 39-30-5.76 LON -80-49-13.068
2H	N 367506.06 E 1627404.60	N 367541.26 E 1595963.46	N 4372455.38 E 515451.11	LAT 39-30-5.691 LON -80-49-13.036
3H	N 367495.80 E 1627397.48	N 367531.00 E 1595956.32	N 4372452.22 E 515448.99	LAT 39-30-5.590 LON -80-49-13.126
4H	N 367498.94 E 1627406.95	N 367534.14 E 1595965.82	N 4372453.23 E 515453.23	LAT 39-30-5.622 LON -80-49-13.003
5H	N 367491.78 E 1627409.31	N 367527.01 E 1595968.17	N 4372451.07 E 515452.62	LAT 39-30-5.551 LON -80-49-12.975
6H	N 367488.68 E 1627399.81	N 367523.87 E 1595958.67	N 4372450.06 E 515449.74	LAT 39-30-5.518 LON -80-49-13.093
7H	N 367502.92 E 1627395.10	N 367538.12 E 1595953.96	N 4372454.38 E 515448.24	LAT 39-30-5.659 LON -80-49-13.159
8H	N 367510.05 E 1627392.74	N 367545.24 E 1595951.61	N 4372456.54 E 515447.48	LAT 39-30-5.727 LON -80-49-13.187
9H	N 367517.17 E 1627390.39	N 367552.37 E 1595949.26	N 4372458.70 E 515446.73	LAT 39-30-5.799 LON -80-49-13.220
10H	N 367520.31 E 1627399.89	N 367555.51 E 1595958.75	N 4372459.70 E 515449.61	LAT 39-30-5.832 LON -80-49-13.098
WELL PAD ELEVATION	1266			

ENGINEER CERTIFICATION  
DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS  
CHECKED HERE TO HAVE BEEN PREPARED IN ACCORDANCE WITH THE  
WEST VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL  
PROTECTION, OFFICE OF OIL AND GAS CRS 35-8.

COVER SHEET

**MURNER (WV-8) WELL SITE**  
ELLSWORTH DISTRICT, TYLER COUNTY, WEST VIRGINIA

Larson Design Group • Architects Engineers Surveyors  
2505 Cranberry Square  
Morgantown, WV 26508  
PHONE 304.777.2940 TOLL FREE 877.323.6603  
FAX 570.323.9902 • www.larsondesigngroup.com



STATOIL  
2103 CITY WEST BLVD., SUITE 800  
HOUSTON, TX 77042  
PHONE 713.918.8200

SHEET NO.:

1 OF 16

PROJECT NO. 8790-003-08

07/03/2015