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

August 27, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-9502297, issued to STATOIL USA ONSHORE PROPERTIES, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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

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

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

James Martin
Chief

Operator's Well No: PYLES 4H
Farm Name: PYLES, RICHARD D. & CATHY J.
API Well Number: 47-9502297
Permit Type: Horizontal 6A Well
Date Issued: 08/27/2015

Promoting a healthy environment.

API Number 47 095 02297

PERMIT CONDITIONS

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

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.

2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.

3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.

4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.

5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations,* 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.

6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.

7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.

8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

Statoil

July 24, 2015

West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 23504-2345

4709502297

Attention: Ms. Laura Adkins

Reference: Pyles 4H - Permit Application
Tyler County, WV

Ms. Adkins:

Statoil USA Onshore Properties Inc. (Statoil) herein submits an application to drill, hydraulically fracture, complete and produce the Pyles 4H from the previously approved Pyles pad in Tyler, County. In support of this application enclosed please find the following:

- Required documentation for a Horizontal 6A Well Permit Application as outlined on the 'Horizontal 6A Well Permit Application Checklist"
- Check No. 2000483297 in the amount of $5,150.00
- CD containing a copy of the MSDS, E&S Plan Approval and the Site Safety Plan

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

Sincerely,

Bekki Winfree
Sr. Regulatoy Advisor – Marcellus

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WW-6B
(04/15)

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

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

1) Well Operator: Statoil USA Onshore Prope | 494505083 | Tyler | Ellsworth | Porters Falls-Sec
Operator ID | County | District | Quadrangle

2) Operator's Well Number: Pyles 4H Well Pad Name: Pyles

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

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

5) Well Type (a) Gas X Oil ____ Underground Storage ____
Other ____
(b)If Gas Shallow X Deep ____
Horizontal X

Michael Doff
7/13/15

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, Formation Top 6590', 51' thick, 4340 psi

8) Proposed Total Vertical Depth: 6663'

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 17,038'

11) Proposed Horizontal Leg Length: 9954'

12) Approximate Fresh Water Strata Depths: 270' TVD

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

14) Approximate Saltwater Depths: 540' TVD

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

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

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

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

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WW-6B
(04/15)

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

18) **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	cmt to surface-150 cuft
Fresh Water	13.375"	New	J-55	54.4#	330'	330'	cmt to surface-302 cuft
Coal							
Intermediate	9.625"	New	J-55	36#	2317'	2317'	cmt to surface-937 cuft
Production	5.5"	New	P-110	20#	17038'	17038'	Cmt to 1317'-3999 cuft
Tubing	2.375"	New	L-80	4.7#			
Liners							

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MDC 7/13/15

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal 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	207psi	Class A	2.31 cuft/sk
Coal							
Intermediate	9.625"	12.25"	.352	3520 psi	1768 psi	Class A	2.31 cuft/sk
Production	5.5"	8.5"	.361	12640 psi	9800 psi	Class A	1.29 cuft/sk
Tubing	2.375"	5.5"	.19	11200 psi	3625 psi		
Liners							

PACKERS

Kind:	HES Versa-Set Retrievable Packr			
Sizes:	2.375" x 5.5"			
Depths Set:	6000'			

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WW-6B
(10/14)

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

4709502297

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

See Attached

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

Well will be hydraulically fracture stimulated via the plug-n-perf method with +/- 25 stages per well. Each fracturing treatment will utilize approximately 440,000 lbs of sand and 7,500 bbls of fresh water. The fracturing rate will range between 80 and 100 bpm at a maximum pressure of 9800 psi

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

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

23) Describe centralizer placement for each casing string:

See Attached

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

See Attached

25) Proposed borehole conditioning procedures:

See Attached

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*Note: Attach additional sheets as needed.

WW-6B – Pyles 4H

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

20" conductor will be pre-set prior to start of operations and cemented in place to surface at approximately 100ft. A 17 ½" surface hole will be drilled with fresh water to approximately **330'md/tvd**. 13 3/8" surface casing will be installed and cemented to surface in order to isolate fresh water zones and provide a competent shoe for well control while drilling deeper horizons. A 12 ¼" intermediate hole section will be drilled with 5% KCL Polymer (WBM) and a conventional mud motor to approximately **2317'md/tvd** through the base of the Big Injun formation. 9 5/8" Intermediate casing will be installed and cemented to surface in order to isolate the Red Beds and Big Injun formation from lower hydrocarbon bearing zones while providing a competent shoe for well control. An 8 ½" vertical hole section will be to planned kick-off point using Synthetic Based Mud (SBM) and a conventional mud motor. The wellbore will be deviated from vertical and landed horizontally in the Marcellus Target horizon, and extended laterally to total depth of **17038' MD/6663' VD** using SBM and conventional mud motors. A 5 ½" production casing will be installed and cemented so estimated top of cement is at least 300ft inside the previous casing shoe. The Drilling Rig will then be released to the next well.

23) Describe centralizer placement for each casing string

4709502297

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% $CaCl_2$

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

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

25) Proposed borehole conditioning procedures

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

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

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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

Surface - Class A + 3% $CaCl_2$

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

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

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Marcellus - Drilling Well Schematic

Statoil

Well Name:	PYLES 4H		GLE (ft): 1,084		TVD(ft): 6,663
Field Name:	Marcellus		DF(ft): 22		TMD(ft): 17,038
County:	Tyler Co., WV	BHL:	X = 1690386.0	Y= 14335527.0	Profile: Horizontal
API #:	0	SHL:	X = 1686262.8	Y= 14345281.6	AFE No.: PERMITTING

Formations & Csg Points	Depth, ft MD	Depth, ft TVD	Depth, ft SS	Form Temp (F)	Pore Press. (EMW)	Frac Gradient (EMW)	Planned MW	Measure Depth (ft)
Conductor	*100*	*100*	*1,006*	-	-	-	-	100
							Fresh Water	
Washington Coal		295					8.6	
Washington A Coal		300						
Approximate Fresh Water Strata ~270'								
							8.6	
Casing Point	*330*	*330*	*776*	*65*	-	-		330
							Air + 5%KCL	
Top Salt Water		540			-	-	-	NA
								TOC @ 1317' MD
Big Injun		2,116						
Base of Big Injun		2,217					9.1	
Casing Point	*2,317*	*2,317*	*-1,211*	*82*	-	*>18.0*		2,317
Weir		2,401					*SBM*	
Berea		2,569					Air/Mist	
Gordon		2,791					Air/Mist	
Warren		3,513					Air/Mist	
Java		4,934					Air/Mist	
Benson		4,983					Air/Mist	
Undiff. Shales		5,025					Air/Mist	
KOP	5,943	5,605					12.0	
							12.0	
Sonyea		6,112						
Middlesex		6,424						
West River		6,451			-	-	12.0	
Geneseo		6,521						
Tully		6,544						
Marcellus		6,590			-	-	12.0	
					-	-	12.0	
Landing point	**7,287**	**6,622**					12.0	
							12.0	
CherryValley		6,622			-	-		
Onondaga		6,641			-	-		

Program / Details

20" Conductor

17-1/2" Surface

Profile:	Vertical
Bit Type:	17-1/2" PDC
BHA:	Conventional Motor
Mud:	8.6 ppg Fresh Water
Surveys:	n/a
Logging:	n/a
Casing:	13.375 54.5 J-55 BTC at 330' MD/330' TVD
Centralizers:	1 centralizer w/ stop collar 10 ft above float shoe. One Single Bow every joint to 100ft below surface.
Cement:	15.8 ppg Tail slurry w/ TOC @ Surface
Potential Drilling Problems:	Stuck Pipe, Floating, Collision,

FIT/LOT: 14.0 ppg EMW

12-1/4" Intermediate

Profile:	Vertical
Bit Type:	12-1/4" Hughes VG-35ADX1 (IADC:547) 0
BHA:	8in 7:8 Lobe 2.0 Stg 1.5 ABH (0.10 rpg/375 Diff) 0
Mud:	- Air + 5%KCL
Surveys:	Gyro SS, MWD - EM Pulse
Logging:	n/a
Casing/Liner:	9.625 36 J-55 BTC at 2317' MD/2317' TVD
Csg Hanger:	Mandrel Hanger
Centralizers:	1 centek centralizer w/ stop collar 10 ft above float shoe. 1 centek centralizer w/ stop collar 10 ft above float collar. 1 centralizer every joint for the first 15 joints. One centralizer every 3 jnts to 100ft below surface.
Cement:	15.8 ppg Tail slurry w/ TOC @ Surface
Potential Drilling Problems:	Hole Cleaning , Poor ROP, Buckling,

FIT/LOT: 15.8 ppg EMW

8-1/2" Production

Profile:	
Bit Type:	8-1/2" Hughes VG-30ADX (IADC: 547) - Vert 8-1/2" SMITH SDi516 - C&L
BHA:	6.75in 7:8 lobe 2.9 stg 1.5 ABH (0.17 rpg 560 DIFF) - Vert 6.75in 4/5 lobe 7.0 stg 1.95 FBH (0.5 rpg, 1000 DIFF) - C&L
Mud:	- Air + 5%KCL
Surveys:	MWD - EM Pulse w/ 30ft surveys in curve, 100ft surveys in lateral
Logging:	GR
Casing/Liner:	5.5 20 P110EC VAM TOP HT at 17038 ft MD/6663 ft TVD
Csg Hanger:	Mandrel Hanger
Centralizers:	1 centek centralizer w/ stop collar 10ft above shoe. 1 centek centralizer 10ft above float collar. 1 centek centralizer every joint (floating) until KOP. 1 centek centralizer every 3 joints (floating) until 200ft inside intermediate shoe. 1 centek centralizer 50ft below mandrel hanger.
Cement:	15 ppg Tail slurry w/ TOC @ 1317' MD'
Potential Drilling Problems:	Bit Preservation, Hole Cleaning , ,
Notes / Comments:	

TMD: 17,038
TVD: 6,663

Cement outside Casing

Last Revision Date: 7/1/2015
Revised by: Ryan Cardenas

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

4709502207

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WW-9
(2/15)

API Number 47 - _____ - _____
Operator's Well No. Pyles 4H

47095022 97

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Statoil USA Onshore Properties Inc. OP Code 494505083

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

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 _____

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AUG 25 2015
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Will closed loop system be used? If so, describe: Yes

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. _____

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

Additives to be used in drilling medium? emulisifier, barite, surfactant, calcium carbonate, gilsonite, lime

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

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

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

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

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

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

Company Official Signature Bekki Winfree

Company Official (Typed Name) Bekki Winfree

Company Official Title Sr. Regulatory Advisor

Subscribed and sworn before me this 24 day of August, 20 15

Wally Anthony Stuka Notary Public

My commission expires April 16, 2017

WALLY ANTHONY STUKA
My Commission Expires
April 16, 2017

Form WW-9

Operator's Well No. Pyles 4H

Statoil USA Onshore Properties Inc.

Proposed Revegetation Treatment: Acres Disturbed 13.2 Prevegetation pH Unknown

Lime 3 Tons/acre or to correct to pH 6

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

4709502297

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 Hoff

Comments: Reseed & mulch any disturbed areas per WVDEP regulations. Maintain & upgrade E&S as necessary

Title: Oil & Gas Inspector Date: 7/13/15

Field Reviewed? ( ) Yes (✓) No

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Statoil

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Pyles Pad 4H – Site Safety Plan

Statoil USA Onshore Properties, Inc.

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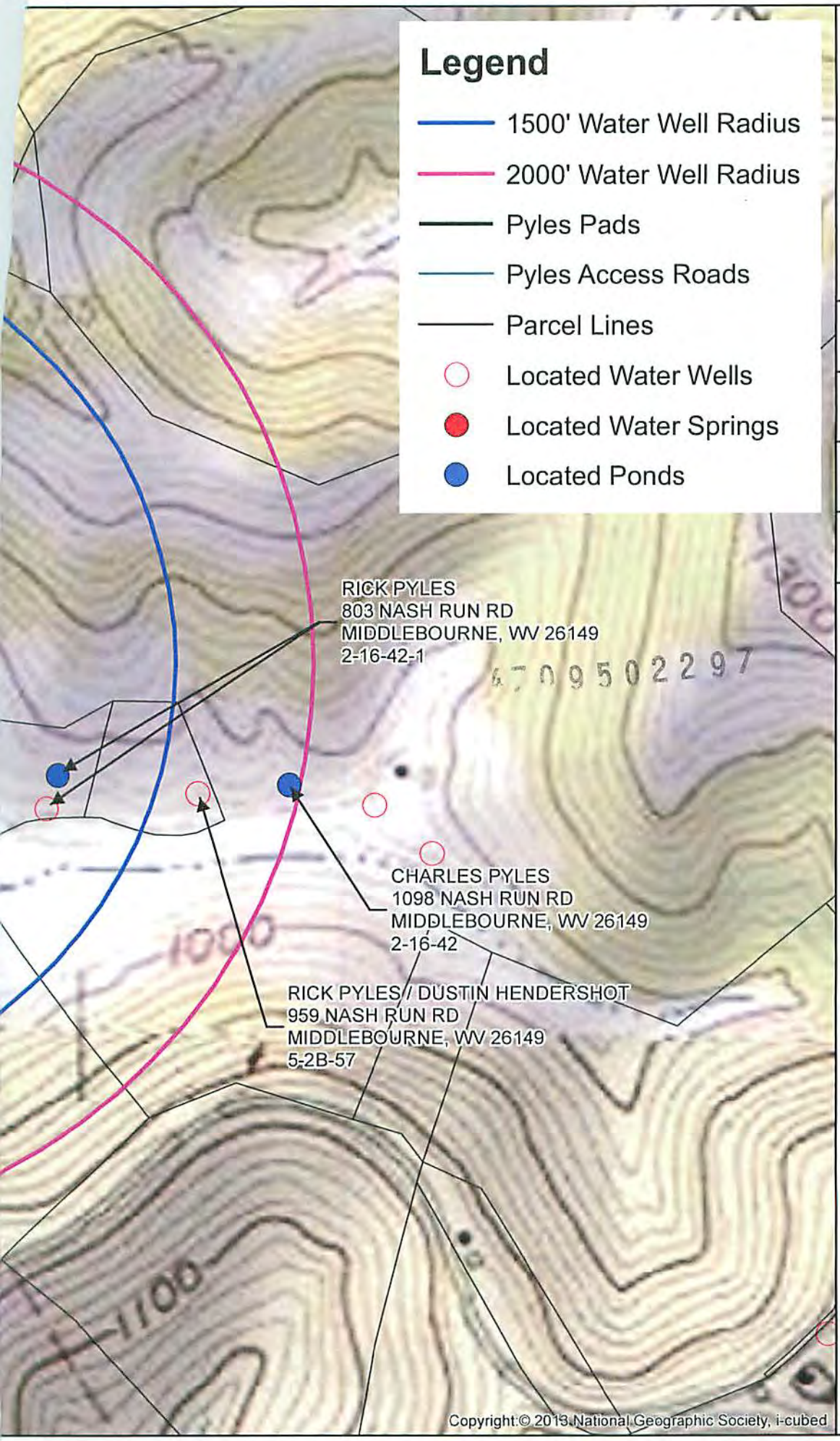


LDG

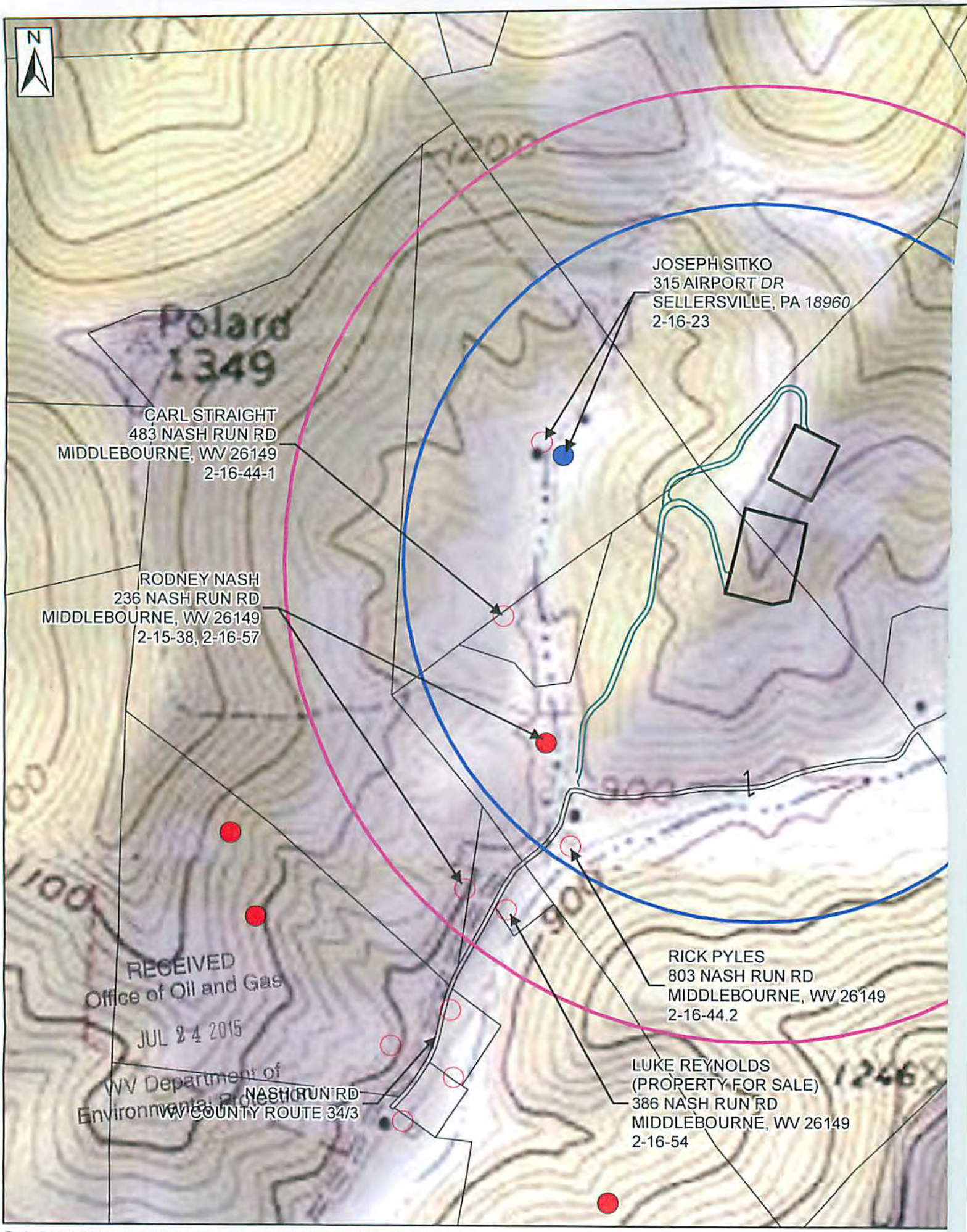
Larson Design Group

Date	8/20/2014
Designer	RTC
Project No.	8790-003-5
Scale	1 inch = 500 feet

Pyles Water Well Map

Ellsworth District, Tyler County, WV

Statoil



Path: P:\8790\8790-003-5 Pyles (WV-5)\DATA\MAPS\Pyles Water Well Map.mxd

FORM WW-6

SURFACE HOLE LOCATION
UTM 17 - NAD 83(m) N - 4372668.38 E - 513988.39
WV SPC NORTH NAD83 N - 368320.32 E - 1591175.21
LANDING POINT LOCATION
UTM 17 - NAD 83(m) N - 4372588.59 E - 514335.32
WV SPC NORTH NAD83 N - 368039.50 E - 1592309.28
BOTTOM HOLE LOCATION
UTM 17 - NAD 83(m) N - 4369695.19 E - 515245.12
WV SPC NORTH NAD83 N - 358494.98 E - 1595136.32

LATITUDE: 39 ° 32 ' 30 "

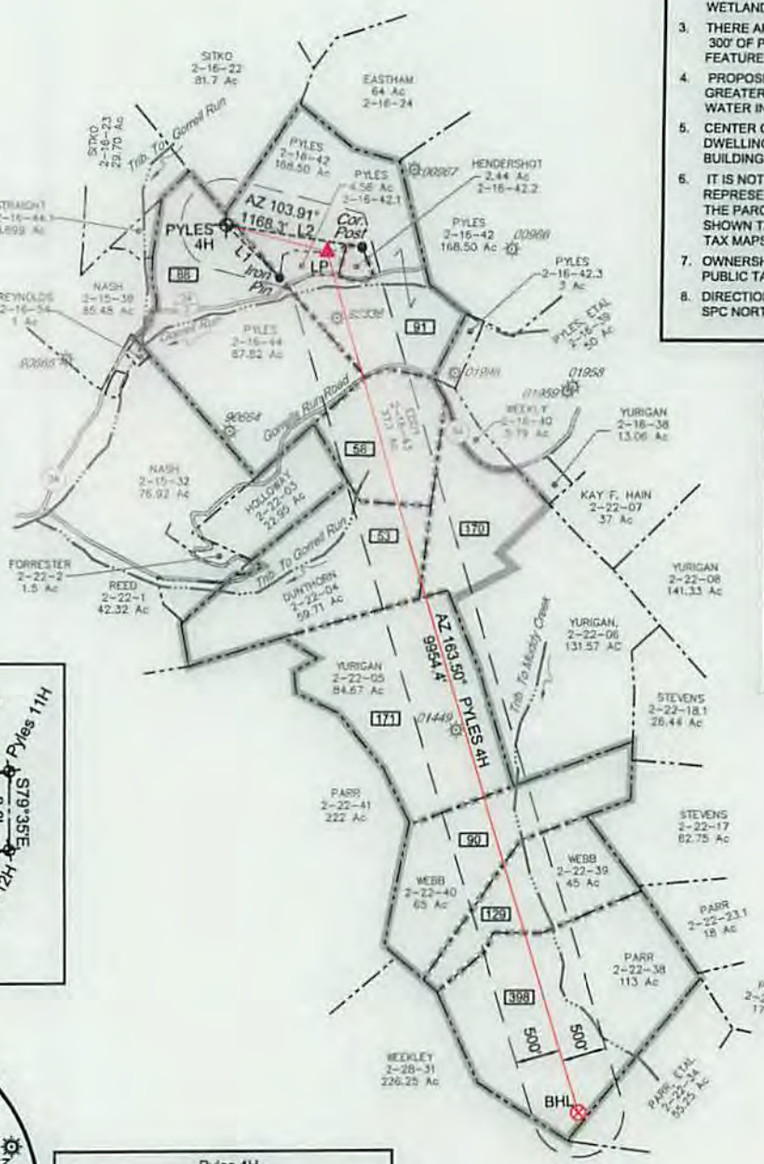
LONGITUDE: 80 ° 50 ' 00 "

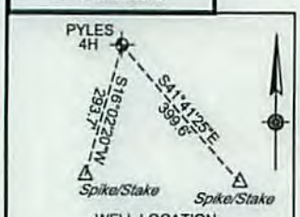
NOTES

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 THAT 1000' FROM SURFACE OR GROUND-WATER INTAKE OF PUBLIC WATER SUPPLY.
5. CENTER OF PAD IS 625 FEET FROM OCCUPIED DWELLING STRUCTURE AND AGRICULTURAL BUILDINGS LARGER THAN 2500 SQUARE FEET.
6. IT IS NOT THE INTENTION OF THIS PLAT TO REPRESENT A COMPLETE BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON. BOUNDARIES AS SHOWN TAKEN FROM RECORD DEED DESCRIPTIONS, TAX MAPS, AND SUPPLEMENTAL FIELD SURVEY.
7. OWNERSHIP DATA GATHERED FROM COUNTY PUBLIC TAX AND DEED RECORDS.
8. DIRECTIONS SHOWN ARE BASED ON WEST VIRGINIA SPC NORTH, NAD 83 DATUM

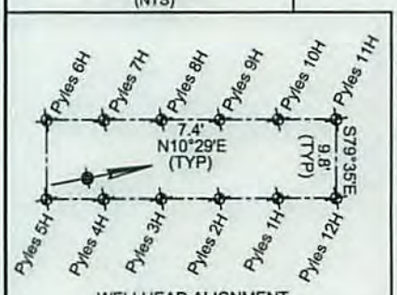
LEGEND

- OUTER LEASE BOUNDARY.
- INTERIOR LEASE BOUNDARY
- SURFACE TRACT LINES
- WELL REFERENCE LINES
- COUNTY ROADS
- PUBLIC ROADS
- BLUE-LINE STREAMS
- MINERAL OWNER
- PROPOSED WELL
- EXISTING WELL
- LANDING POINT
- BOTTOM HOLE

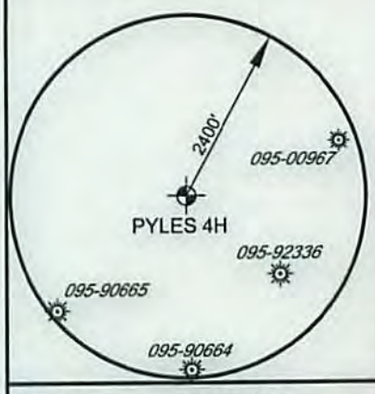




WELL LOCATION REFERENCES (NTS)



WELLHEAD ALIGNMENT (NTS)



Pyles 4H Mineral Ownership	
88	- Richard D. & Cathy J. Pyles, et al.
91	- Richard D. & Cathy J.Pyles
58	- Daniel Clair Asher, et al.
53	- Ridgetop Capital, LP, et al.
170	- Daniel Clair Asher, et al.
171	- OXY USA, LLC et al.
90	- Ronald P. Webb
129	- Carol J. Knapp, et al.
398	- Wilma L. Parr and Raymond Parr

PROPERTY TIES	
L1 - S46°38'43"E	831.4'
L2 - S81°28'43"E	1533.1'

FILE NO. 8790-003-5

DRAWN BY DMS

SCALE 1 INCH = 2000 FEET

MIN DEGREE OF ACCURACY 1 IN 2500

PROVEN SOURCE OF ELEVATION SURVEY GRADE GPS

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

David M. Shannon

P.S. #2034

DAVID M. SHANNON LICENSED No. 2034 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

LDG Larson Design Group®

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

DATE 7-2-2015

OPERATORS WELL NO. PYLES 4H

API WELL NO.

47 (STATE) 095 (COUNTY) 02297 HG4 (PERMIT)

WELL TYPE: OIL ☐ GAS ☒ LIQUID INJECTION ☐ WASTE DISPOSAL ☐

IF "GAS", PRODUCTION ☒ STORAGE ☐ DEEP ☐ SHALLOW ☒

LOCATION: WATERSHED GORRELL RUN - MIDDLE ISLAND CREEK ELEVATION 1084

COUNTY/DISTRICT TYLER / ELLSWORTH QUADRANGLE PORTERS FALLS - SEC 7

SURFACE OWNER RICHARD D. & CATHY J. PYLES ACREAGE 87.82

OIL & GAS ROYALTY OWNER SEE TABLE ABOVE ACREAGE 623.3

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 6663

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

COUNTY NAME

PERMIT

F:\8790\8792-003-5 PYLES (WV-5)\DATA\SURVEY\SURVEYS\PYLES FINAL WELL PLAT.DWG

WW-6AC
(1/12)

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

Date of Notice Certification: 05/20/2015

API No. 47- _____ - _____
Operator's Well No. Pyles 4H
Well Pad Name: Pyles

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

State:	West Virginia	UTM NAD 83	Easting:	513988.39
County:	Tyler		Northing:	4372668.38
District:	Ellsworth	Public Road Access:		CR 34/3
Quadrangle:	Porter Falls-Sec 7	Generally used farm name:		Pyles Farm
Watershed:	Gorrell Run - Middle Island Creek			

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.

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: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or ☒ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
☒ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☐ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
☐ 3. NOTICE OF INTENT TO DRILL or ☒ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	☐ RECEIVED/ NOT REQUIRED
☒ 4. NOTICE OF PLANNED OPERATION	☐ RECEIVED
☒ 5. PUBLIC NOTICE	☐ RECEIVED
☒ 6. NOTICE OF APPLICATION	☐ RECEIVED

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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JUL 24 2015
WV Department of
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WW-6AC
(1/12)

Certification of Notice is hereby given:

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

Well Operator:	Statoil USA Onshore Properties Inc.	Address:	2107 City West Boulevard
By:	Bekki Winfree/		Houston, TX 77042
Its:	Sr. Regulatory Advisor	Facsimile:	713-918-8290
Telephone:	713-485-2640	Email:	BEKW@Statoil.com

NOTARY SEAL

DORIS WISHKOSKI
Notary Public, State of Texas
My Commission Expires
October 22, 2017

Subscribed and sworn before me this 14th day of July, 2015

Doris Wishkoski Notary Public

My Commission Expires 10-22-17

Oil and Gas Privacy Notice:

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

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WW-6A1
(5/13)

Operator's Well No. Pyles 4H

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

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

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

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

(Please see Attachment for Details)

4709502

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

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

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

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

Well Operator: Statoil USA Onshore Properties Inc.
By: Bekki Winfree/
Its: Sr. Regulatory Advisor

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

Pyles 4H

4709502297

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

TRACT #88

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

TRACT #91

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115588-001	Richard D. & Cathy J. Pyles, Husband and wife	PetroEdge Energy, LLC	At least 1/8	385/350
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	406/147

TRACT #58

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115334-003	Bounty Minerals LLC	PetroEdge Energy, LLC	At least 1/8	385/352
	Original Lessor: Marjorie R. Asher Logston and Ernest Glenn Logston, her husband Sold to Bounty Minerals, LLC on July 2, 2013, (Deed Book 423, Page 830)			
000115334-001	Daniel Clair Asher	PetroEdge Energy, LLC	At least 1/8	388/360
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	406/147

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TRACT #53

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115582-007	Ridgetop Capital, LP	PetroEdge Energy, LLC	At least 1/8	387/212
000115582-006	Ridgetop Capital II, LP	PetroEdge Energy, LLC	At least 1/8	387/210
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	406/147

4709502297

TRACT #170

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000115043-010	Bounty Minerals, LLC	PetroEdge Energy, LLC	At least 1/8	385/159
	Original Lessor: Marjorie R. Asher Logston and Ernest Glenn Logston, her husband			
	Sold to Bounty Minerals, LLC on July 2, 2013, (Deed Book 423, Page 830)			
000115043-006	Daniel Clair Asher	PetroEdge Energy, LLC	At least 1/8	388/362
N/A	PetroEdge Energy, LLC	Statoil USA Onshore Properties Inc.	Assignment	406/147

TRACT #171

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000096848-000	BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	At least 1/8th	369/648
Assignment	BRC Working Interest Company LLC	-Chesapeake Appalachia LLC	NA	369/784
Assignment	Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc.	NA	423/165

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

TRACT #90

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000101981-000	Ronald P. Webb	Chesapeake Appalachia, LLC	At least 1/8	376/333
N/A	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc.	Assignment	384/359
N/A	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc.	Assignment	423/152

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TRACT #129

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
N/A	Carol J. Knapp (now Carol Headley)	Jay-Bee Production Company	At least 1/8	388/141
N/A	Bernice Baker (currently owned by Roxane McNab)	Jay-Bee Production Company	At least 1/8	391/221
N/A	Jay-Bee Production Company	Statoil USA Onshore Properties Inc.	Assignment	469/419

47 0950

TRACT #398

Lease Name or Number	Grantor, Lessor	Grantee, Lessee	Royalty	Book / Page
000083192-001	Wilma L. Parr and husband, Raymond Parr	Chesapeake Appalachia, LLC	At least 1/8	367/766
N/A	Chesapeake Appalachia, LLC	Statoil USA Onshore Properties Inc.	Assignment	423/152

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ROAD CROSSING LETTERS

PYLES 4H - 9
88
91
58
53
170 - ~~NOTO~~
171
90
129 - ~~NOTO~~
398

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(61 pgs)

BURNETT & THOMASON
ATTORNEYS & COUNSELORS AT LAW

OIL, GAS & MINERAL LAW

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

March 21, 2014

Tyler
88

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

4709502297

Attention: Mr. Joshua S. Ozment

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

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

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

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OWNERSHIP

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

STATE OF WEST VIRGINIA OWNERSHIP UNDER PUBLIC ROADS

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

SURFACE OWNERSHIP

4709502297

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

OIL AND GAS EXECUTIVE RIGHTS

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

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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

February 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

4709502297

Re: Tract Index No. 91
Title of Richard D. Pyles, et al.
to 100.56 acres oil and gas
waters of Elk Fork, Ellsworth District
Tyler County, West Virginia
Tax Map #16, p/o parcel 42, 42.1

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tract: Tax Map #16, p/o parcel 42, 42.1, containing 100.56 acres, more or less, located in Ellsworth District, Tyler County, West Virginia, and being the same lands described in that certain deed of record in Deed Book 379, at page 20, in the office of the Clerk of the County Commission of Tyler County, West Virginia.

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

First Tract:

BEGINNING at a stone, corner to land sold by G. R. Stephens and Martha J. Stephen and Martha J. Stephen, his wife, to Taylor Eddy and conveyed by deed of record in the clerk's office of the county court of said county in Deed Book No 91, page 177; thence S 44 E 76 ½ poles to a Chestnut Oak Tree; thence N 67 E 12 poles to a stone; thence N 28 E 54 poles to a stone; thence N 49 W 30 ¼ poles to a Dogwood; thence S 86 W 52 poles to a stone in run bottom, corner to said land so conveyed to said Taylor Eddy; thence with line of same S 66 W 46 poles to the beginning containing 33 acres, more or less.

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RR 1, Box 309 Middlebourne, WV 26149 (.50000000 x .15) [L3] [L4]		
George R. Stephen, heirs or assigns (.25000000 x .15) [L3] [L4]	.00000000	.03750000
Martha J. Stephen, heirs or assigns (.25000000 x .15) [L3] [L4]	.00000000	.03750000
TOTAL	**1.0000000**	**1.0000000**

4709502297

State of West Virginia Ownership Under Public Roads

Based on the materials examined in the Clerk's office, the State of West Virginia is not vested with an interest in the subject oil and gas, executive rights, or royalty under any public roads located within the boundary of the subject tract. There are no conveyances of record to the State of West Virginia or the County Commission for roads from the owners of the oil and gas. However, the Department of Transportation might have a different opinion so it is likely wise to contact it prior to drilling under roads, if any, that overlie the subject oil and gas.

INSTRUMENTS AFFECTING THE MINERAL ESTATE

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

OIL AND GAS ESTATE:

OIL AND GAS LEASES

L1. **OIL AND GAS LEASE**

DATE:	August 27, 2009
FILED:	September 1, 2009
RECORDED:	Deed Book 369, at page 300 (Memorandum Only)
LESSOR:	BRC Appalachian Minerals I LLC
LESSEE:	BRC Working Interest Company, L.L.C.
LANDS DESCRIBED:	69.31 acres, being described as Tax Map 16, p/o parcel 42, 42.1 and 42.2 located in Ellsworth District, Tyler County, West Virginia
INTEREST COVERED:	100.00% of the oil underlying the subject property
PRIMARY TERM:	6 years
RENEWAL:	The Lessee has the right to extend the primary term in accordance with the terms of the lease

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33 pp

MILLER LAW OFFICES, PLLC

KENNETH R. MILLER
KENNETH ALEXANDER MILLER II*

*Also Admitted in Ohio

ATTORNEYS AT LAW
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FAIRMONT, WEST VIRGINIA 26554
millerlawofficeswv@gmail.com
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304-366-0822
FAX: 304-366-0825

May 5, 2015

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

4709502290

Re: Tract Index No. 58
Title of Bounty Minerals, LLC, et al.
To 37.1 acres oil and gas
Waters of Gorrells Run, Ellsworth District
Tyler County, West Virginia
Tax Map #16, parcel 43

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tract: Tax Map #16, parcel 43, containing 37.1 acres, more or less, located in Ellsworth District, Tyler County, West Virginia, and being the same lands described in that certain Deed of record in Deed Book 337, at page 650, in the Office of the Clerk of the County Commission of Tyler County, West Virginia.

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

BEGINNING at a stone witnessed by a Black Walnut pointers, at the North West Corner to Mary E. Reed; thence North 48 30' E. 46.7 poles to a stone corner to C. Doak; thence N. 71 40' E. 20.6 poles to a stake; thence S. 75 20' E. 16 poles to a stake; thence S. 65 45' E. 12.5 poles to a stake; thence S. 35 E. 16.8 poles to a stone corner to Smith and others in Murner line; thence with Smith and others line S. 8 30' W. 72 poles and 1 foot to a stone in Smith and others line; thence N. 83 W. 51 poles and 3 feet to the center of a sugar tree by Gorrells Run; thence N. 32 W. 15 poles and 11.5 feet to a stone

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State of West Virginia Ownership Under Public Roads

Based on the materials examined in the Clerk's office, the State of West Virginia is not vested with an interest in the subject oil and gas, executive rights, or royalty under any public roads located within the boundary of the subject tract. Furthermore, there are no conveyances of record to the State of West Virginia or the County Commission for roads from the owners of the oil and gas. However, the Department of Transportation might have a different opinion so it is likely wise to contact it prior to drilling under roads, if any, that overlie the subject oil and gas.

INSTRUMENTS AFFECTING THE MINERAL ESTATE

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

OIL AND GAS ESTATE:

OIL AND GAS LEASES

L1. **OIL AND GAS LEASE** 470950

DATE:	June 15, 2011
FILED:	July 26, 2011
RECORDED:	Deed Book 385, at page 392 (Memorandum Only)
LESSOR:	Marjorie R. Asher Logston and Ernest Glenn Logston, her husband
LESSEE:	PetroEdge Energy, LLC
LANDS DESCRIBED:	37.1 acres, being Tax Map 2-16-43 located in Ellsworth District, Tyler County, West Virginia
INTEREST COVERED:	33.33333334% of the oil and gas executive rights for the Subject Lands
PRIMARY TERM:	5 years
RENEWAL:	The Lease did not contain an Option to Extend the Primary Term an additional term
ROYALTY:	13.0%
POOLING:	Yes
NOTE:	None.

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L2. **OIL AND GAS LEASE**

DATE:	October 10, 2011
FILED:	November 3, 2011
RECORDED:	Deed Book 388, at page 334 (Memorandum Only)

(37 pgs)

BURNETT & THOMASON
ATTORNEYS & COUNSELORS AT LAW

OIL, GAS & MINERAL LAW

6017 W. MAIN STREET
FRISCO, TEXAS 75034
TEL: 214.417.2880
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September 26, 2014

Tyler # 53

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

4709502297

Attention: Mr. Joshua S. Ozment

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

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tax Parcel No. 2-22-4, containing 69.50625 acres, more or less, out of Ellsworth District in Tyler County, West Virginia, and being the same land described in a Deed, dated May 4, 1978, from Ira E. Ruble Jr. and wife, Helen Marie Ruble, to Stephen H. Dunthorn and wife, Barbara J. Dunthorn, recorded in Book 216, Page 40, Office of the Clerk of the County Commission, Tyler County, West Virginia, hereinafter referred to as the "Subject Lands." The Subject Lands are shown on the plat attached hereto as Exhibit "A."

MATERIALS EXAMINED

1. Title Runsheet, prepared by S. A. Property Research, L.L.C. for Statoil North America, Inc., covering the Subject Lands for the period from August 26, 1856 through and including April 23, 2014 in Tyler County, West Virginia (the "Title Runsheet");

2. The public records of Tyler County, West Virginia ("Records") for the period from August 26, 1856 through and including April 23, 2014, but only insofar as the same includes those documents set forth on the above described Title Runsheet as they pertain to the Subject Lands;

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12. Copy of an unrecorded Oil and Gas Lease, dated October 10, 2011, from Daniel Clair Asher to PetroEdge Energy LLC, a Memorandum of which is recorded in Book 388, Page 356, Office of the Clerk of the County Commission, Tyler County, West Virginia;

13. Copy of an unrecorded Oil and Gas Lease, dated October 21, 2011, from Myron C. Ferguson, acting as Trustee for the Ferguson Family Revocable Living Trust, dated August 8, 1994, to PetroEdge Energy LLC, a Memorandum of which is recorded in Book 389, Page 39, Office of the Clerk of the County Commission, Tyler County, West Virginia;

14. Copy of a Deed, dated December 17, 2012, from Ernest Glenn Logston and wife, Marjorie R. Asher Logston, to Bounty Minerals, LLC, recorded in Book 419, Page 40, Office of the Clerk of the County Commission, Tyler County, West Virginia; and

15. Copies of various plats and deed plots provided by S. A. Property Research, L.L.C's field landman covering the Subject Lands.

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

OWNERSHIP

Based upon our examination of the materials referenced above, and subject to the comments, requirements, and limitations hereinafter set forth, we find title to the Subject Lands vests, as of April 23, 2014, as follows:

STATE OF WEST VIRGINIA OWNERSHIP UNDER PUBLIC ROADS

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

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MILLER LAW OFFICES, PLLC

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KENNETH ALEXANDER MILLER II[1]
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[1]Also Admitted in Ohio
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304-366-0822
FAX: 304-366-0825

July 14, 2015

4709502297

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
Tract Index No. 170
Title of Marjorie R. Asher Logston, et al.
to 39.000000 acres oil and gas
waters of Gorrells Run, Ellsworth District,
Tyler County, West Virginia
Tax Map #2-22, p/o parcel 6

Dear Mr. Ozment:

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

State of West Virginia Ownership Under Public Roads

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

Respectfully submitted,

Alex Miller

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

* Also Admitted in Ohio
** Also Admitted in Illinois

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

May 5, 2015

4709502297

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

Re: Tract Index No. 171
Title of Oxy USA Inc., et al.
to 84.67400000 acres oil and gas
waters of Muddy Creek of Middle Island Creek,
Ellsworth District, Tyler County, West Virginia
Tax Map #2-22, parcel 5

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tract: Tax Map #2-22, parcel 5, containing 31.74000000 acres, more or less, located in Ellsworth District, Tyler County, West Virginia, and being the same lands described in that certain Deed of record in Deed Book 464, at page 542, in Tyler County, West Virginia.

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

BEGINNING at a 5/8" steel rod on the ridge, a common corner to tracts of R. Webb and R. Gregg; thence seven calls with the Gregg tract N 10°00'00" E. a distance of 33.00 feet to a 5/8" steel rod on the ridge; thence N 27°33'16" W, a distance of 650.45 feet to a 5/8" steel rod; thence N 41°48'17" W, a distance of 800.25 feet to a 5/8" steel rod; thence N 65°48'17" W, a distance of 528.00 feet to a 5/8" steel rod; thence N 06°48'17" W, a distance of 231.00 feet to a 5/8" steel rod at the powerline; thence N 57°59'52" E, a distance of 296.97 feet to a 5/8" steel rod near the northern edge of the powerline; thence N 60°00'00" W, a distance of 445.50 feet to a 5/8" steel rod set in the old fence line; thence one call with a tract of

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David E. Bowyer Less Burdens of: (0.50000000 x 0.16) [L3]	0.50000000	0.42000000
Oxy USA Inc. (0.30750000 x 12.875%) [L1] [L2]	0.00000000	0.03959063
BP Mineral Holdings II, LLC (0.16500000 x 12.875%) [L1] [L2]	0.00000000	0.02124375
Somerset Minerals, LP (0.02750000 x 12.875%) [L1] [L2]	0.00000000	0.00354062
Joseph J. Yurigan, Jr. (0.25000000 x 16%) [L3]	0.00000000	0.02000000
O. Allan P. Angelicchio, Jr. (0.12500000 x 16%) [L3]	0.00000000	0.01400000
Darrell D. Defalco (0.06250000 x 16%) [L3]	0.00000000	0.01300000
May Kay Carter (0.06250000 x 16%) [L3]	0.00000000	0.01300000
Waco Oil & Gas Co., Inc. (0.50000000 x 0.03125) [ORRI1]	0.00000000	0.01562500
TOTAL	**1.00000000**	**1.00000000**

470950297

State of West Virginia Ownership Under Public Roads

Based on the materials examined in the Clerk's office, the State of West Virginia is not vested with an interest in the subject oil and gas, executive rights, or royalty under any public roads located within the boundary of the subject tract. I arrived at this conclusion after reviewing the parcel on the tax map and noticing no county roads or turnpikes traversing it. Furthermore, there are no conveyances of record to the State of West Virginia or the County Commission for roads from the owners of the oil and gas. However, the Department of Transportation might have a different opinion so it is likely wise to contact it prior to drilling under roads, if any, that overlie the subject oil and gas.

INSTRUMENTS AFFECTING THE MINERAL ESTATE

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

OIL AND GAS ESTATE:

OIL AND GAS LEASES

L1. **OIL AND GAS LEASE**

DATE: August 27, 2009

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RADCLIFF PLLC

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

Patrickradcliff@hotmail.com
304-295-6027

Date: May 4, 2015

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

ATTN: Jared Guynes
Senior Landman

RE: Tract Index No. 90
Tax parcel No. (2) Map 22 Parcel 40
65 Acres
Ellsworth District
Tyler County, WV

4709502297

FINAL TITLE OPINION

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

DESCRIPTION OF LANDS

Tax Parcel No. 22-40, containing 65 acres, more or less, located in Ellsworth District, Tyler County, West Virginia, and more particularly described in deed dated February 23, 1990 of record in Deed Book 284 at page 84, made by Frederick M. Dean, Special Commissioner to Ronald P. Webb and Sandra Lee Webb, his wife, as follows:

Beginning at a double chestnut oak in Hugh Smith's line N. 35 E. 120 poles to a stone on run bank poplar called for; thence N. 68 E. 78-1/3 poles to a stone-B.O. called for; thence N. 39 P. to a stone to a chestnut oak and Hickory pointers; thence S. 68 W. 166 P. to a stone; thence S. 10 W. 82-4/5 P. to a crooked C. O.; thence S. 53 E. 34 P. to the place of beginning, containing 65 acres, be the same more or less.

This description is subject to an accurate survey. Refer to Exhibit B for a ta

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OWNERSHIP

Surface Estate:

OWNER	Description (acres)	Tax Map page/ parcel no	INTEREST
Ronald P. Webb	65 acres	(02)-22-40	100%
TOTAL			100%

Coal Estate

OWNER	Description (acres)	Tax Map page/ parcel no	INTEREST
Ronald P. Webb	65 acres	(02)-22-40	50%
State of West Virginia Rights of redemption in Joseph A. Twyman heirs	*65 acres*	*same*	*50%*
TOTAL			100%

Oil & Gas Estate

A. *Oil and gas Mineral Estate (Oil & Gas In Place)*

OWNER	Description (acres)	Tax Map page/ parcel no	INTEREST
Ronald P. Webb	65 acres	(02)-22-40	100%
TOTAL			100%

B. Oil & Gas Non-Participating Royalty Estate

OWNER	INTEREST (%)
None	0

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C. Oil & Gas Royalty Estate

OWNER	Description (acres)	Tax Map page/ parcel no	INTEREST
Ronald P. Webb	65 acres	(02)-22-40	100%
TOTAL			100%

Oil & Gas Leasehold Estate

A. Overriding Royalty Interest (SL.1-SL.6)

None

B. Lessor's Royalty Interest

B.1 (SL.1)

Lessors: Ronald P. Webb, widower
Mineral Interest owned: 100%
Specified Lease Royalty: 15%
Net Lease Royalty .15

OWNER	SLR%	MIN ROY%	NPR%	TOTAL %	NRL%
Ronald P. Webb, widower	15%	100%	0	100%	0.15
TOTAL	15%	100%	0	100%	0.15

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FAX: 304-366-0825

July 14, 2015

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

47095022 97

Re: Road Crossing Letters Requirement
Tract Index No. 129
Title of The Carol Knapp Revocable Trust, et al.
to 45 acres oil and gas
waters of Muddy Creek, Ellsworth District,
Tyler County, West Virginia
Tax Map #2-22, parcel 39

Dear Mr. Ozment:

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

State of West Virginia Ownership Under Public Roads

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

Respectfully submitted,

Alex Miller

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MILLER LAW OFFICES, PLLC

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millerlawofficeswv.com

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

April 29, 2015

4709502297

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

Re: Tract Index No. 398
Title of Bruce Parr, et ux.
To 113 acres oil and gas
Waters of Muddy Creek, Ellsworth District
Tyler County, West Virginia
Tax Map #22, parcel 38

ORIGINAL DRILLING TITLE OPINION

DESCRIPTION OF LANDS

Tract: Tax Map #22, parcel 38, containing 113 acres, more or less, located in Ellsworth District, Tyler County, West Virginia, and being the same lands described in that certain Deed of record in Deed Book 335, at page 560, in the office of the Clerk of the County Commission of Tyler County, West Virginia.

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

Beginning at a W. Oak N 62 W 72 poles to a R. Oak, S 10 W 3 poles to a R. Oak, S 38 W 130 poles to a Dogwood, S 34 E 83 poles to a W. Oak, N 58 E 70 poles to Stone, S 89 E 33 poles to a Beech N 22 E 13 poles to a Pin Oak, N 40 E 45 poles to a R. Oak, N 27 W 70 poles to a W. Oak, N 62 W 72 poles to a R. Oak, S 10 W 3 poles to the beginning, containing one hundred and thirteen (113) acres, be the same more or less.

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Sprigg Smith, heirs, successors, and assigns (0.33333333 x .125) [L1] [NON-PARTICIPATING ROYALY OWNER]	0.04166667
TOTAL	**0.12500000**

C. OIL AND GAS LEASEHOLD ESTATE

a. OVERRIDING ROYALTY INTEREST

None. There are no overriding royalty interests.

b. WORKING INTEREST AND NET REVENUE INTEREST

OWNER	WI	NRI
Statoil USA Onshore Properties Inc. Inc. [L1] [A1] [A2] Less Burdens of: (1.0 x .125) [L1]	1.00000000	0.87500000
Bruce Parr and Sandra L. Parr, husband and wife, as joint tenants with right of survivorship 2810 McKims Ridge Road Colliers, WV 26035-1717 (0.66666667 x .125) [L1]	0.00000000	0.08333333
Sprigg Smith, heirs, successors, and assigns (0.33333333 x .125) [L1] [NON-PARTICIPATING ROYALY OWNER]	0.00000000	0.04166667
TOTAL	**1.00000000**	**1.00000000**

State of West Virginia Ownership Under Public Roads

Based on the materials examined in the Clerk's office, the State of West Virginia is not vested with an interest in the subject oil and gas, executive rights, or royalty under any public roads located within the boundary of the subject tract. Furthermore, there are no conveyances of record to the State of West Virginia or the County Commission for roads from the owners of the oil and gas. However, the Department of Transportation might have a different opinion so it is likely wise to contact it prior to drilling under roads, if any, that overlie the subject oil and gas.

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INSTRUMENTS AFFECTING THE MINERAL ESTATE

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

WW-6A
(9-13)

API NO. 47-_____-_____
OPERATOR WELL NO. Pyles 4H
Well Pad Name: PYLES

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: 05/20/2015 **Date Permit Application Filed:** 07/24/2015

Notice of:

☑ PERMIT FOR ANY WELL WORK

☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

☐ PERSONAL SERVICE

☐ REGISTERED MAIL

☑ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to:

☑ SURFACE OWNER(s)
Name: Gay Pyles
Address: 1098 Nash Run Road → corrected address on list
Middlebourne, WV 26149
Name: Richard D. & Cathy D. Pyles
Address: 803 Nash Run Road
Middlebourne, WV 26149

☐ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____
Name: _____
Address: _____

☐ SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

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

☐ COAL OPERATOR
Name: _____
Address: _____

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

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

*Please attach additional forms if necessary

#709502297

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PYLES 4H WW6A – NOTICE OF APPLICATION OWNERSHIP ATTACHMENT

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Office of Oil and Gas

JUL 27 2015

WV Department of
Environmental Protection

SURFACE OWNERS

Gay Pyles
803 Nash Run Road
Middlebourne, WV 26149

Corrected Address

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

COAL OWNERS

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

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

Rodney & Candis Nash
236 Nash Road
Middlebourne, WV 26149

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

Connie Zimmerman
137 Central Avenue
New Martinsville, WV 26155

Michael Lough
105 N 1 Avenue
Paden City, WV 26159

Charles & Sandra Henderson
174 Lemasters
Middlebourne, WV 26149

Corrected

Sue Ann Walter
14 Asylum Street
Norwich, CT 06360

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

470950229 7

Nancy Miller
285 Oil Ridge Road
Sistersville, WV 26175

Corrected

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

Eva Gene Taylor
2600 Killian Road
Uniontown, OH 44685

Juanita Noland
460 East Main Street
Barnesville, OH 43713

Ruth Ann Lucas
904 Kennebec Avenue
Akron, OH 44305

WATER WELL OWNERS

Carl Straight
483 Nash Run Road
Middlebourne, WV 26149

Rodney Nash
236 Nash Run Road
Middlebourne, WV 26149

Rick Pyles
803 Nash Run Road
Middlebourne, WV 26149

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

Gay Pyles
803 Nash Run Road
Middlebourne, WV 26149

Corrected

Joseph Sitko
315 Airport Drive
Sellersville, PA 18960

4709502297

WW-6A
(8-13)

API NO. 47-_____-_____
OPERATOR WELL NO. Pyles 4H
Well Pad Name: PYLES

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.

4709502297

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

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

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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.

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

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

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

WW-6A
(8-13)

API NO. 47-_____-_____
OPERATOR WELL NO. Pyles 4H
Well Pad Name: PYLES

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.

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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. Pyles 4H
Well Pad Name: PYLES

Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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

WALLY ANTHONY STUKA
My Commission Expires
April 16, 2017

Subscribed and sworn before me this 23 day of July, 2015.

Notary Public

My Commission Expires April 16, 2017

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WW-6A3
(1/12)

Operator Well No. Pyles 4H

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: 04/16/2015 **Date of Planned Entry:** 04/27/2015

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

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

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

Notice is hereby provided to:

☒ SURFACE OWNER(s)
Name: Richard D. and Cathy J. Pyles
Address: RR 2 Box 309 Middlebourne, WV 26149

Name: Gay Pyles
Address: RR 2 Box 309 Middlebourne, WV 26149

Name:
Address:

☒ COAL OWNER OR LESSEE
Name: Richard D. and Cathy J. Pyles
Address: RR 2 Box 309 Middlebourne, WV 26149
** Additional Documents Attached

☒ MINERAL OWNER(s) 4709502297
Name: Richard D. and Cathy J. Pyles
Address: RR 2 Box 309 Middlebourne, WV 26149
** Additional Documents Attached

*please attach additional forms if necessary

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

State:	West Virginia	Approx. Latitude & Longitude:	-80.837296/39.503525
County:	Tyler County	Public Road Access:	CR 34/3
District:	Ellsworth District	Watershed:	Middle Ohio North
Quadrangle:	Porters Falls	Generally used farm name:	Pyles 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 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

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Notice is hereby given by:

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

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

Pyles 4H – WW-6A3 Notice of Entry for Plat Survey

Additional Coal Owner(s):

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

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

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

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

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

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

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Sue Ann Walter
14 Asylym Street
Norwich, CT 06360

Kathryn Henderson Smith
111 Russell Street
Cabin Creek, WV 25035

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

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

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Eva Gene Taylor
2600 Killian Road
Uniontown, Ohio 44685

Juanita Noland
460 East Main Street
Barnesville, Ohio 43713

Ruth Ann Lucas
904 Kennebec Avenue
Akron, Ohio 44305

Additional Mineral Owner(s):

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

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

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

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

Sue Ann Walter
14 Asylym Street
Norwich, CT 06360

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

Kathryn Henderson Smith
111 Russell Street
Cabin Creek, WV 25035

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

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

Eva Gene Taylor
2600 Killian Road
Uniontown, Ohio 44685

Juanita Noland
460 East Main Street
Barnesville, Ohio 43713

Ruth Ann Lucas
904 Kennebec Avenue
Akron, Ohio 44305

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

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

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

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Environmental Protection

WW-6A5
(1/12)

Operator Well No. Pyles 4H

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**
Date of Notice: 07/09/2015 **Date Permit Application Filed:** 07/24/2015

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

☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☐ HAND 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: Gay Pyles
Address: 803 Nash Run Road
Middlebourne, WV 26149

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

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

State: West Virginia
County: Tyler
District: Ellsworth
Quadrangle: Porters Falls - Sec 7
Watershed: Gorrell Run - Middle Island Creek

UTM NAD 83 Easting: 513988.39
Northing: 4372668.38
Public Road Access: CR 11
Generally used farm name: Pyles Farm

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

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Well Operator: Statoil USA Onshore Properties Inc.
Telephone: 713-918-8200
Email: bekw@statoil.com

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

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

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways
1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

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

July 16, 2015

4709502297

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

Subject: DOH Permit for the Pyles Pad Tyler County
Pyles 4H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit # 06 -2014-0553 for the subject site to Statoil USA Onshore Properties Inc. for access to the State Road for the well site located off of Tyler County Route 34/3 SLS.

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

Very Truly Yours,

Gary K Clayton

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

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Environmental Protection

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

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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FRICTION REDUCER

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

SAND

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

GEL

Gelling Agent & Hydrocarbons	64742-96-7

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WV Department of
Environmental Protection

PYLES (WV-5)

SITE DESIGN AND CON
EROSION AND SEDIMEN

ELLSWORTH DISTRICT, TYLER
GORRELL RUN W

APPROVED
WVDEP OOG
5/20/15

4709502297

LOCATION COORDINATES

ACCESS ROAD ENTRANCE
LATITUDE: 39.501054 LONGITUDE: -80.839969 (NAD 83)
N 4372393.70 E 513759.10 (UTM ZONE 17 METERS NAD 83)

CENTER OF WELL PAD
LATITUDE: 39.503607 LONGITUDE: -80.837210 (NAD 83)
N 4372677.46 E 513995.80 (UTM ZONE 17 METERS NAD 83)

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

MISS UTILITY STATEMENT
STATOIL WILL NOTIFY MISS UTILITY OF WEST VIRGINIA FOR THE LOCATING OF UTILITIES PRIOR TO THIS PROJECT DESIGN: TICKET #1409415366.
IN ADDITION, MISS UTILITY WILL BE CONTACTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT.

ENTRANCE PERMIT
STATOIL WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRIGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES
WETLAND DELINEATIONS WERE PERFORMED ON APRIL 17, 2014 BY LARSON DESIGN GROUP TO REVIEW THE SITE FOR WATERS AND WETLANDS THAT ARE MOST LIKELY WITHIN THE REGULATORY PURVIEW OF THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND/OR THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP). THE PYLES (WV-5) JURISDICTIONAL STREAMS & WELANDS MAPS WERE PREPARED BY LARSON DESIGN GROUP AND SUMMARIZE THE RESULTS OF THE FIELD DELINEATION. THE MAPS DO NOT, IN ANY WAY, REPRESENT A JURISDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WATERS AND WETLANDS WHICH MAY BE REGULATED BY THE USACE OR THE WVDEP. IT IS STRONGLY RECOMMENDED THAT THE AFOREMENTIONED AGENCIES BE CONSULTED IN AN EFFORT TO GAIN WRITTEN CONFIRMATION OF THE DELINEATION SHOWN ON THIS EXHIBIT PRIOR TO ENGAGING CONSTRUCTION ON THE PROPERTY DESCRIBED HEREIN. THE DEVELOPER SHALL OBTAIN THE APPROPRIATE PERMITS FROM THE FEDERAL AND/OR STATE REGULATORY AGENCIES PRIOR TO ANY PROPOSED IMPACTS TO WATERS OF THE U.S., INCLUDING WETLAND FILLS AND STREAM CROSSINGS.

GEOTECHNICAL NOTE
A GEOTECHNICAL INVESTIGATION OF THE PROPOSED SITE WAS PERFORMED BY LARSON DESIGN GROUP ON SEPTEMBER 9 THROUGH SEPTEMBER 16, 2014. THE REPORT PREPARED BY LARSON DESIGN GROUP, DATED DECEMBER 2, 2014 REFLECTS THE RESULTS OF THE SUBSURFACE INVESTIGATION. THE INFORMATION AND RECOMMENDATIONS WERE USED IN THE PREPARATION OF THESE PLANS. PLEASE REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION, AS NEEDED.

PROJECT CONTACTS

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

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

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

USGS 7.5 SHIRLEY & PORTERS

WEST VIRGINIA COUNTY MAP

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Office of Oil and Gas
JUL 24 2015
WV Department of
Environmental Protection

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

WELL PAD

STRUCTION PLANS
CONTROL PLANS

OUNTY, WEST VIRGINIA
ATERSHED

ALLS QUAD MAPS

WVDOH COUNTY ROAD MAP

IGN CERTIFICATION
DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS
ACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE
T VIRGINIA CODE OF STATE RULES, DIVISION OF ENVIRONMENTAL
TECTION, OFFICE OF OIL AND GAS CRS 35-8.

SHEET INDEX

1	COVER SHEET
2-3	CONSTRUCTION AND E&S CONTROL NOTES
4	EXISTING CONDITIONS
5	OVERALL PLAN SHEET INDEX & VOLUMES
6-7	EROSION & SEDIMENTATION CONTROL PLAN
8	WELL PAD GRADING PLAN
9-10	ACCESS ROAD PLAN AND PROFILES
11-17	ACCESS ROAD CROSS SECTIONS
18-19	WELL PAD & FACILITIES CROSS SECTIONS
20-21	CONSTRUCTION DETAILS
22-23	RECLAMATION PLANS
24	FACILITIES LAYOUT

Larson Design Group

BRIAN M. PAULING
REGISTERED
20097
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

NO.	DATE	COMMENTS	BY	CHKD
2	5/15/15	WVDEP COMMENTS ADDRESSED	JWF	BMP
1	12/19/14	REVISED STREAM IMPACT LENGTHS	JWF	BMP
0	12/8/14	WVDEP PERMIT PLANS	JRC	BMP

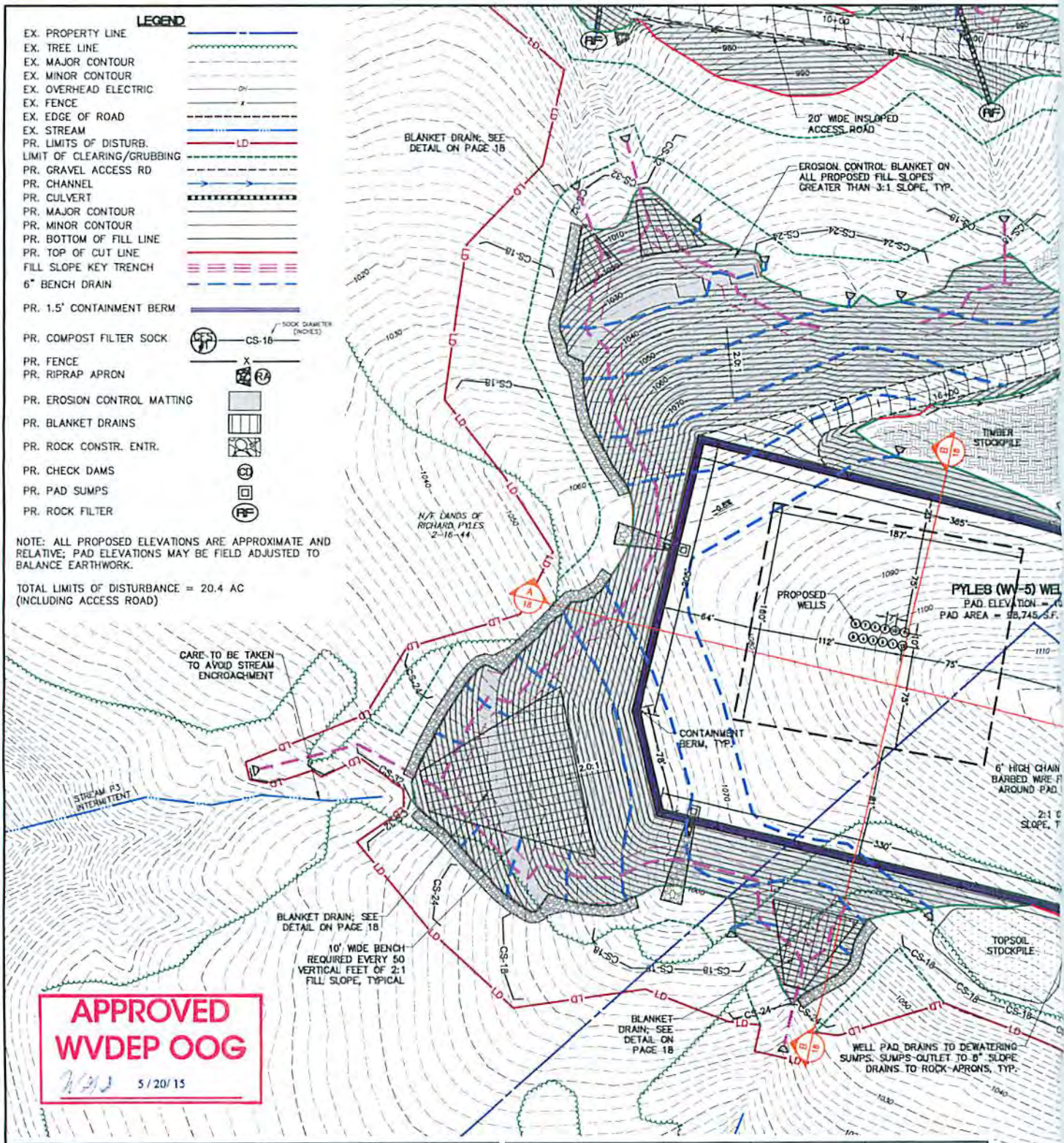
ISSUE / REVISIONS

COVER SHEET
PYLES (WV-5) WELL SITE
ELLSWORTH DISTRICT, TYLER COUNTY, WEST VIRGINIA

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

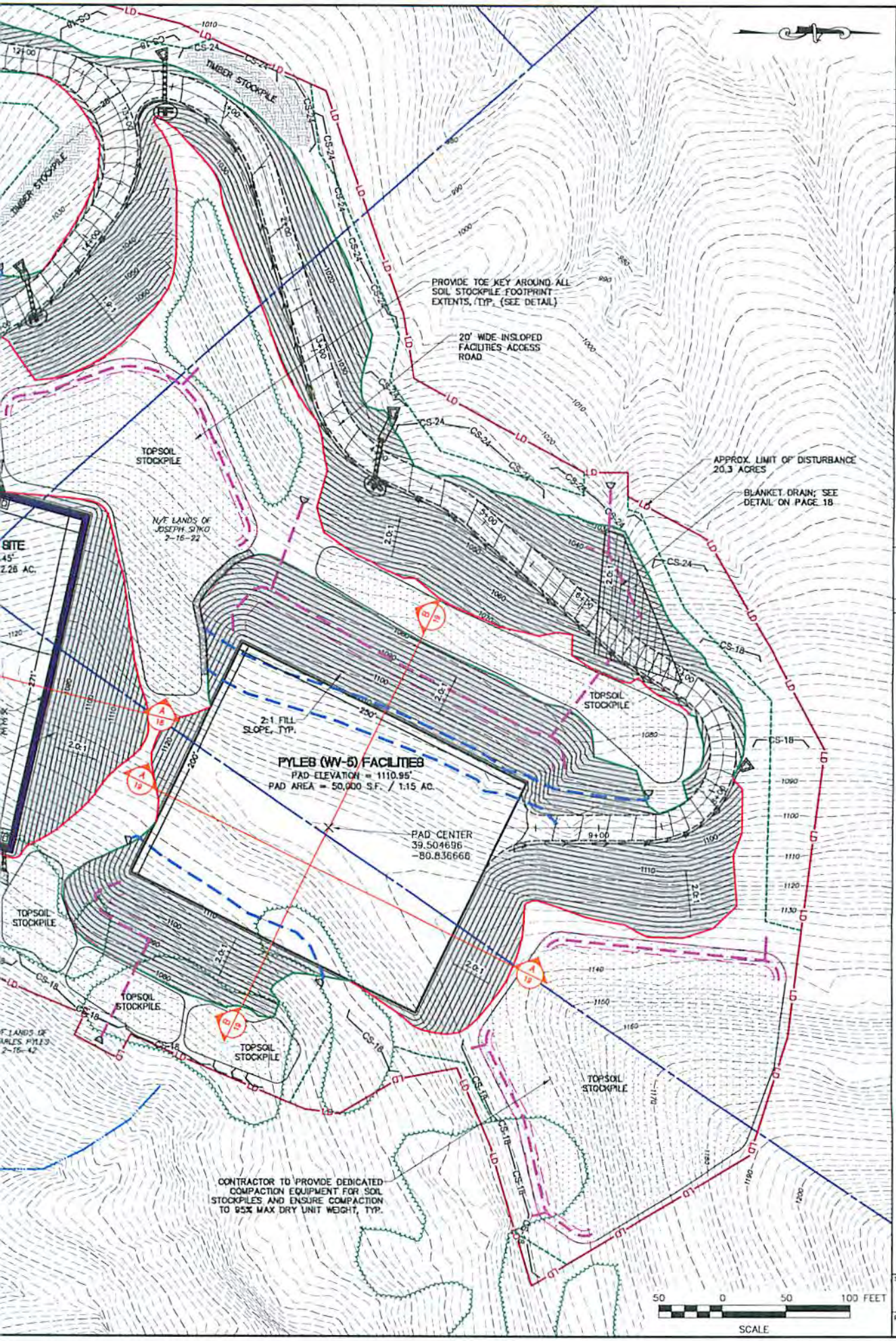
Larson Design Group • Architects Engineers Surveyors
2505 Cranberry Square
Morgantown, WV 26508
PHONE 304.777.2940 TOLL FREE 877.323.6603
FAX 570.323.9902 • www.larsondesigngroup.com

PROJECT NO.: 8790-003-05



PROPOSED WELL	WV NORTH NAD 27	WV NORTH NAD 83	UTM (METERS) NAD 83 – ZONE 17	NAD 83 LAT & LONG
1	N 368307.01 E 1622620.33	N 368342.09 E 1591179.24	N 4372675.03 E 513989.50	LAT 39.503585 LON −80.837283
2	N 368299.75 E 1622618.99	N 368334.83 E 1591177.89	N 4372672.81 E 513989.13	LAT 39.503565 LON −80.837288
3	N 368292.50 E 1622617.64	N 368327.58 E 1591176.55	N 4372670.59 E 513988.76	LAT 39.503545 LON −80.837292
4	N 368285.24 E 1622616.30	N 368320.32 E 1591175.21	N 4372668.38 E 513988.39	LAT 39.503525 LON −80.837296
5	N 368277.98 E 1622614.96	N 368313.07 E 1591173.87	N 4372666.16 E 513988.02	LAT 39.503505 LON −80.837301
6	N 368279.77 E 1622605.29	N 368314.86 E 1591164.19	N 4372666.65 E 513985.06	LAT 39.503510 LON −80.837335

PROPOSED WELL	WV NORTH NAD 27	WV NORTH NAD 83	UTM (METERS) NAD 83 – ZONE 17	NAD 83 LAT & LONG
7	N 368287.03 E 1622606.63	N 368322.11 E 1591165.53	N 4372668.87 E 513985.43	LAT 39.503530 LON −80.837331
8	N 368294.28 E 1622607.97	N 368329.37 E 1591166.88	N 4372671.09 E 513985.80	LAT 39.503550 LON −80.837326
9	N 368301.54 E 1622609.31	N 368336.62 E 1591168.22	N 4372673.31 E 513986.18	LAT 39.503570 LON −80.837322
10	N 368308.80 E 1622610.65	N 368343.88 E 1591169.56	N 4372675.52 E 513986.55	LAT 39.503590 LON −80.837318
11	N 368316.05 E 1622611.99	N 368351.14 E 1591170.90	N 4372677.74 E 513986.92	LAT 39.503610 LON −80.837313
12	N 368314.26 E 1622621.67	N 368349.35 E 1591180.58	N 4372677.25 E 513989.88	LAT 39.503605 LON −80.837279



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BRYAN M. PAULING
REGISTERED
20057
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

NO.	DATE	COMMENTS	BY	CHKD
0	12/8/14	WVDEP PERMIT PLANS	JKC	BMP

ISSUE / REVISIONS

EROSION & SEDIMENTATION CONTROL PLAN
PYLES (WV-5) WELL SITE
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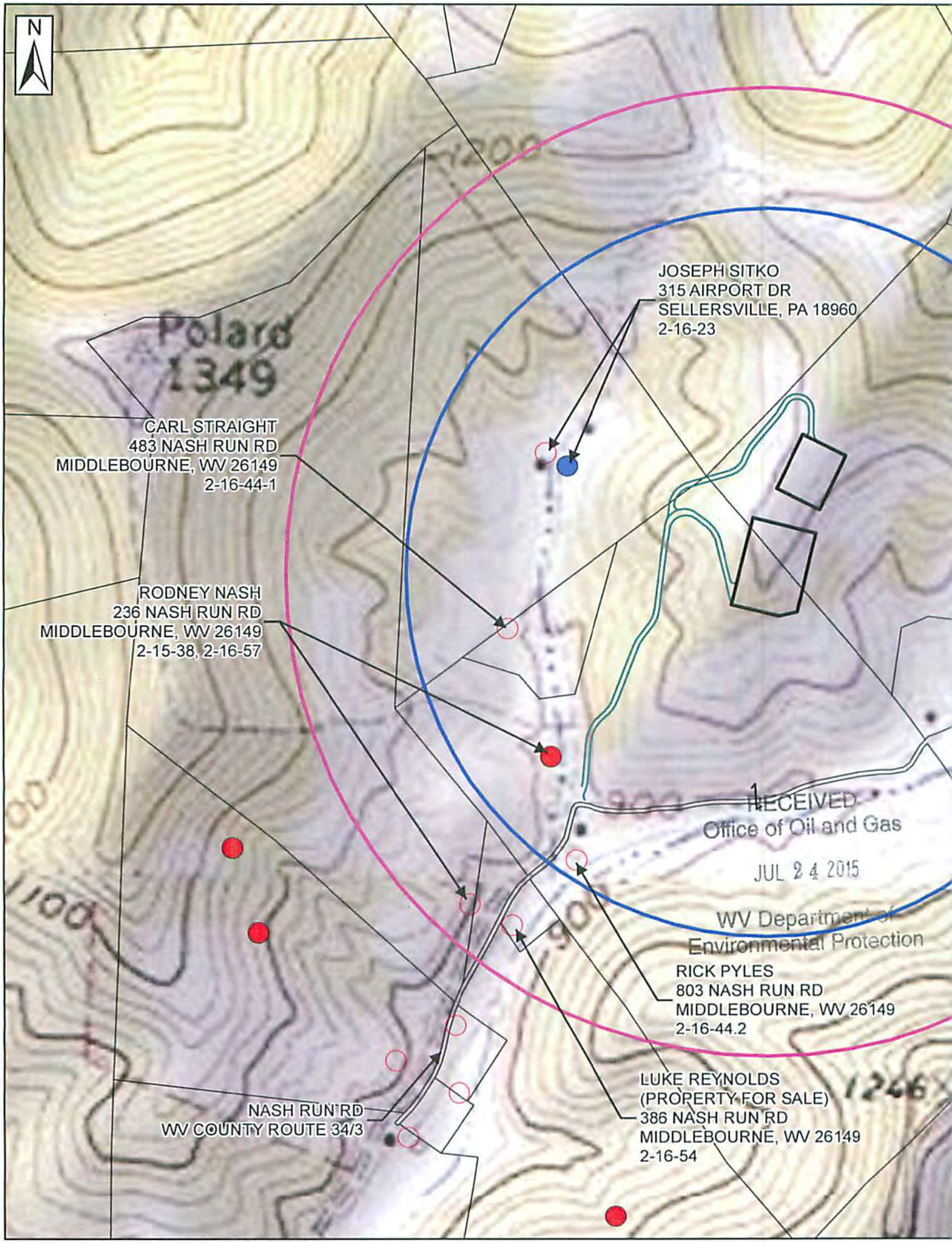
SHEET NO.: 7 OF 24

PROJECT NO.: 8790-003-05



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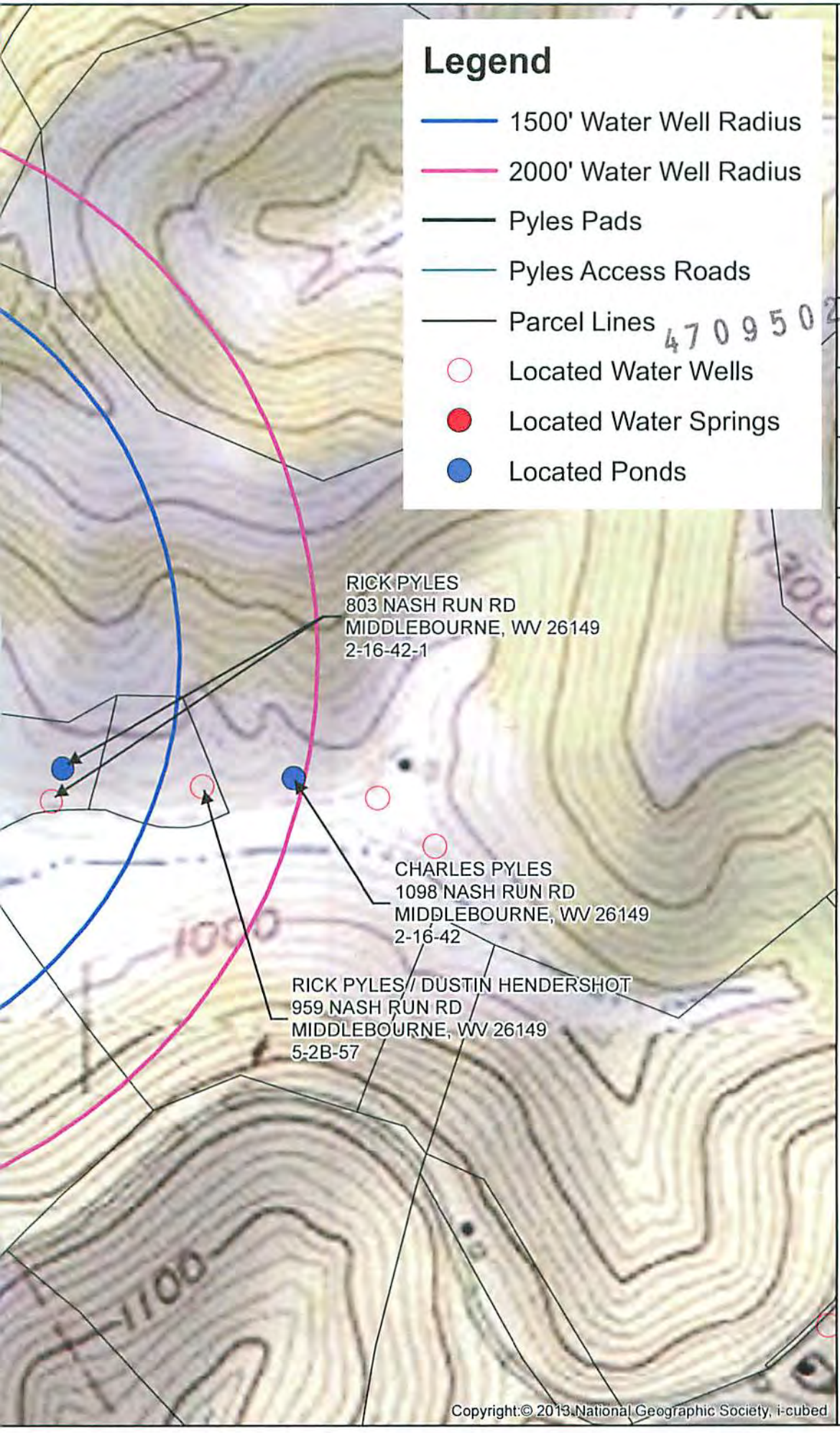
JUL 24 2015
WV Department of
Environmental Protection

Path: P:\8790\8790-003-5 Pyles (WV-5)\DATA\MAPS\Pyles Water Well Map.mxd



Larson Design Group

4709502297

Date 8/20/2014

Designer RTC

Project No. 8790-003-5

Scale 1 inch = 500 feet

Pyles Water Well Map

Ellsworth District, Tyler County, WV

Statoil