

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 20, 2013

WELL WORK PERMIT Rework-Brine Disposal

This permit, API Well Number: 47-3902419, issued to EXCO RESOURCES (WV), 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: L. C. WILSON 4

Farm Name: GROSE, RICHARD A. & PATRICLA

API Well Number: 47-3902419

Permit Type: Rework-Brine Disposal

Date Issued: 08/20/2013

Promoting a healthy environment.

WW - 2B (Rev. 8/10)

Packers: Kind:

Halliburton R-4

Sizes: 4-1/2"
Depths Set 1,510

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION 1) Well Operator: EXCO Resources (PA), LLC 307860 Kanawha Elk Blue Creek Operator ID County District Quadrangle 2) Operator's Well Number: 47-039-02419 3) Elevation: 1039' 4) Well Type: (a) Oil____ or Gas X Production / Underground Storage X (b) If Gas: ___/ Shallow X Deep____ 5) Proposed Target Formation(s): Salt Sands Proposed Target Depth: 1568-1674' 6) Proposed Total Depth: 1850 Feet Formation at Proposed Total Depth: 7) Approximate fresh water strata depths: 250' 8) Approximate salt water depths: 1100' 9) Approximate coal seam depths: N/A 10) Approximate void depths,(coal, Karst, other): N/A N/A 11) Does land contain coal seams tributary to active mine? 12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed) Locate leak in production casing and repair CASING AND TUBING PROGRAM 13) SPECIFICATIONS **FOOTAGE** <u>INTERVALS</u> <u>Grade</u> <u>Size</u> Weight per ft For Drilling Left in Well Fill -up (Cu. Ft.) Conductor 24 8-5/8 H-40 254 Surface Fresh Water Coal Intermediate ceived TOC 1,090' 4-1/2 J-55 Production 13.5 2-7/8 **J-55** 4.7 **Tubing** Liners

WV Dept. of Environmental Protection

Office of Oil and Gas

VVV Dept. of Environmental Protection

WW-2	2A
(Rev.	6-07)

1). Date:	5/24/2013		<u></u>
2.) Operator'	s Well Number	L C Wilso	n #4
	State	County	Permit
3 \ API WAII	No · 47-	030	- 02410

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

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6) Inspector Address PO Box 1207 Name NAME Address Telephone To THE PERSONS NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by: Personal Service (Affidavit attached) Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application. 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, 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. COMMONWEALTH OF PENNSYLVANIA Well Operator By: Its: Rebecca Shrum, Notary Public Marshall Thyp., Alleghemy County My Commission Expires Mars		(c) Name			Name	
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depprivacyofficer@wv.gov WV Dopt. of Environmental Protection	depp	ivacyofficer@wv	v.gov			WV Dopt. of Environmental Protection

SURFACE OWNER WAIVER

County	Kanawha	Operator	EXCO Resources (PA), LLC
		Operator well number	L C Wilson #4

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

<u>Time Limits and methods for filing comments.</u> The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) 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 a dequate 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.

<u>Comments must be in writing.</u> Your comments must 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.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

<u>List of Water Testing Laboratories.</u> The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ____ including a work order on F orm WW2-B, as urvey plat, and as oil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSO				R EXECUTIO	ON BY A CC	RPORATION	I, ETC.
Signature Signature	Date	6-3-13	Company Name By				
Richard A. G-ROSE			Its		Rece	divec	Date
Print Name				Signature	JUN 1	1 2013	Date

Office of Oil and Gas WV Dept. of Environmental Protection

Book/Page

L. C. Wilson # 4

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) 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:

Grantor, Lessor, etc.		Grantee, Lessee, etc.	Royalty
SEE ATMACHED	LAND	OWNER AGREEMENT	*

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 he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

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

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need of the theorem of the permits/approvals that may be necessary and further affirms that all needed permits/approvals should be ac quired from the appr opriate aut hority before the affected activity is initiated.

Well Operator:

Office of Oil and Gas By: Its: WV Dept. of Environmental Protection

08/23/2013

WW-9 (5/13)

	Page	of
API Number 47 - 039	-0 2419	
Operator's Well l	No. L.C. Wilson #	1

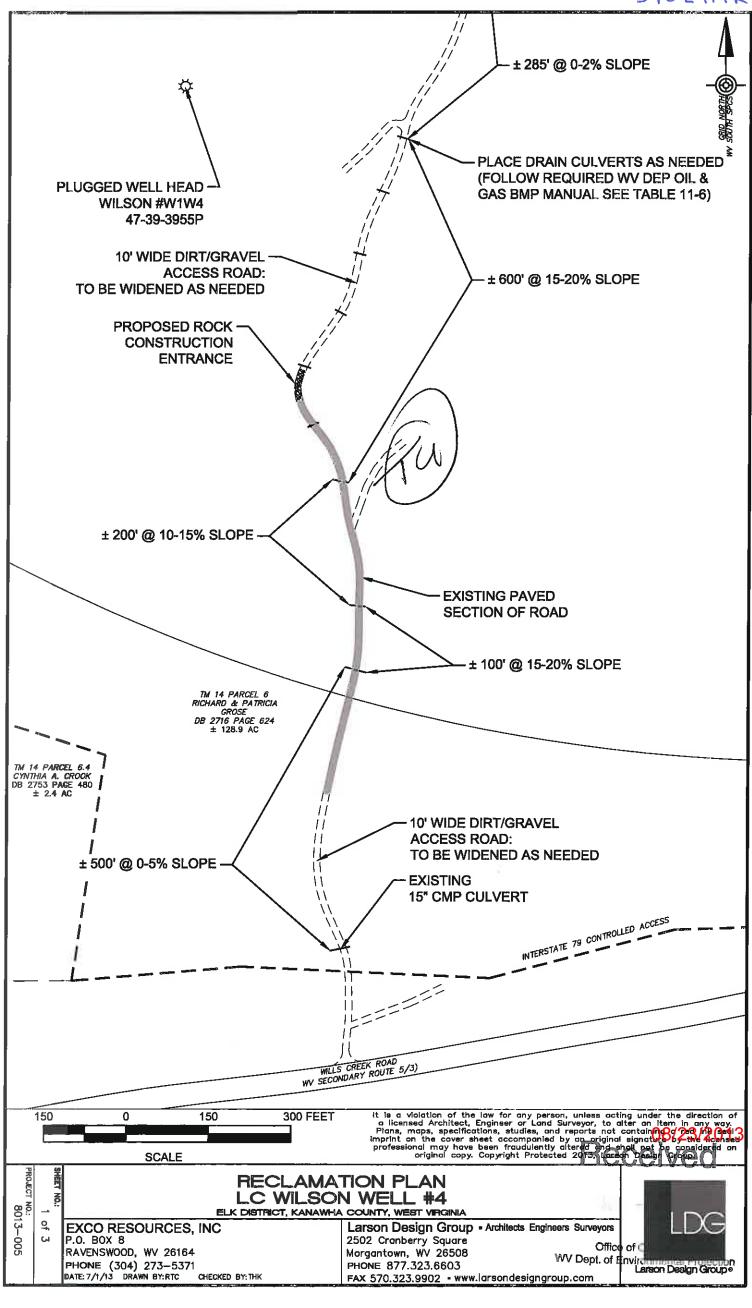
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

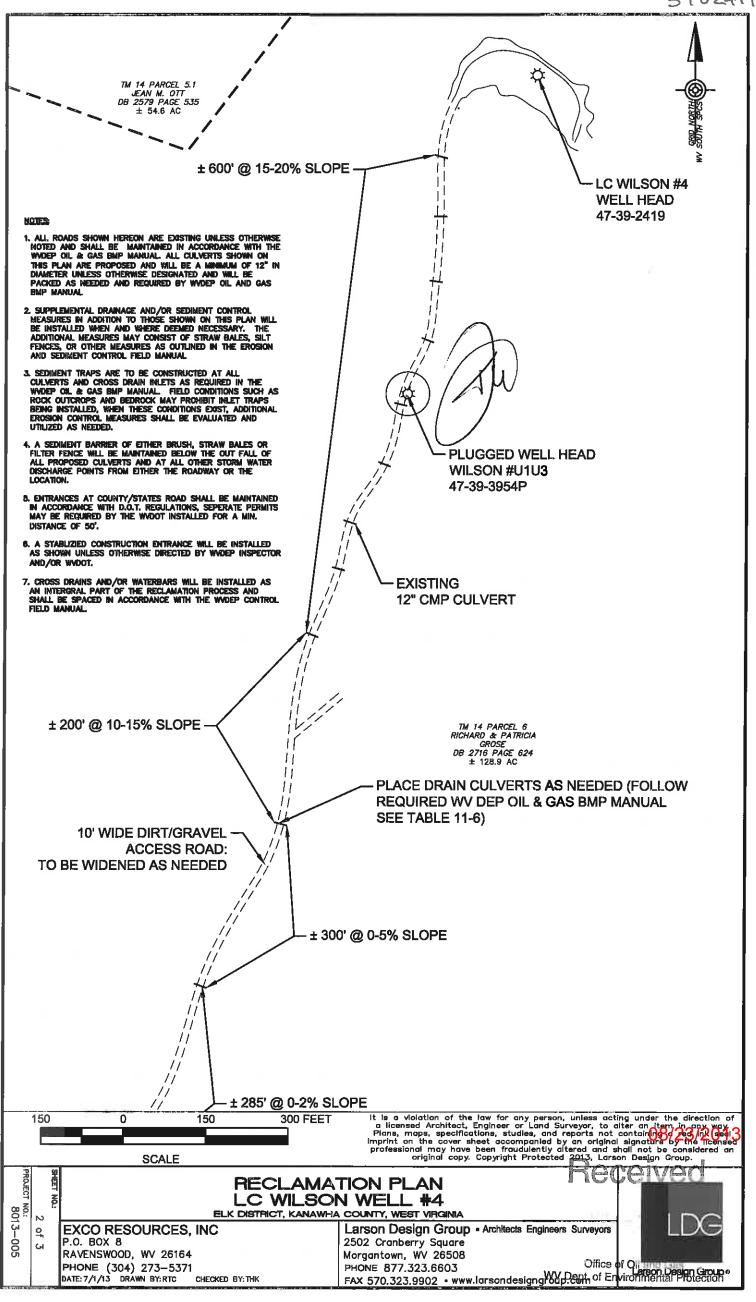
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

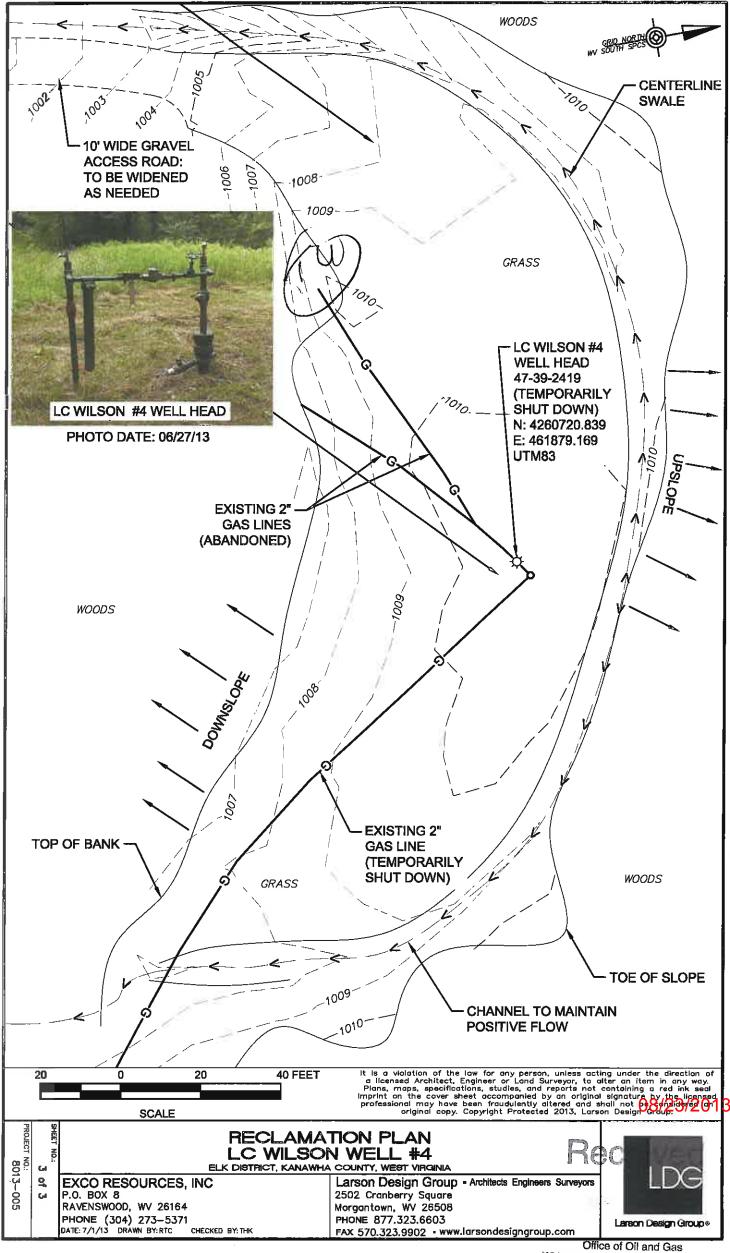
Operator Name EXCO Resources (PA), LLC OP Code 307860
Watershed (HUC 10) Wills Creek Quadrangle Blue Creek
Elevation 1039' County Kanawha District Elk
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No X Will a pit be used for drill cuttings? Yes No X
If 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) Reuse (at API Number) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Will closed loop system be used? No
Drilling medium anticipated for this well? Air, freshwater, oil based, etc. No
-If oil based, what type? Synthetic, petroleum, etc
Additives to be used in drilling medium? N/A
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number?
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 Suale Sustain
Company Official (Typed Name) Brian E. Rushe, P.E.
Company Official Title Regulatory Manager
Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and sworn before me this Ath day of Subscribed and
My commission expires Planch 9, 2016 Member, Pennsylvania association of notaries
Commonsterille of Pennsylvania, County of Alleghany

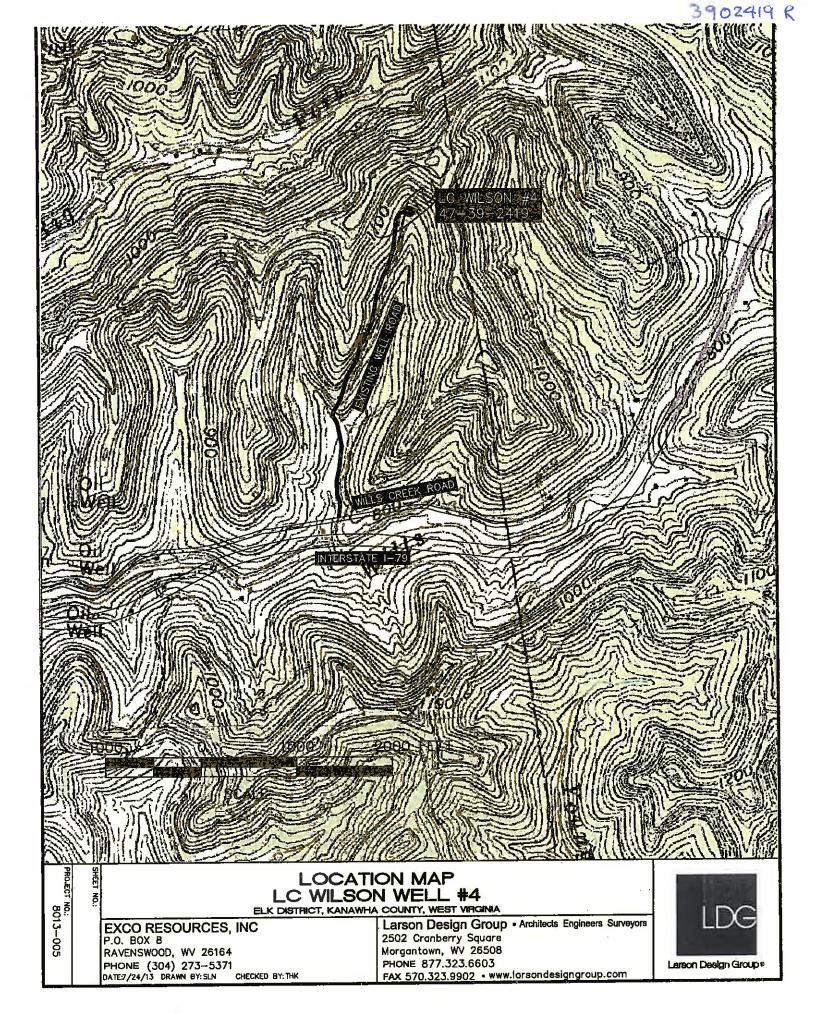
Operator's Well No. L.C. Wilson #4

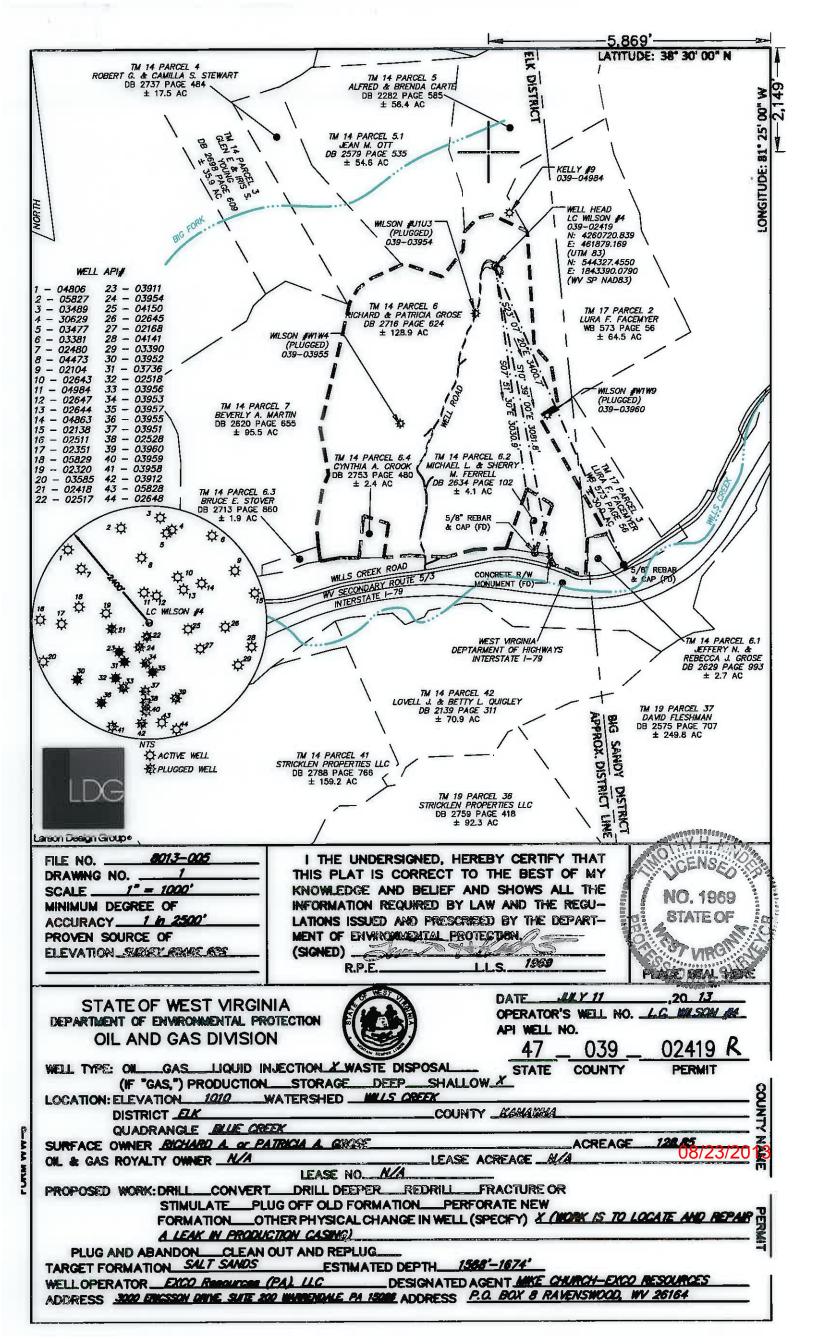
ropos	d Revegetation	Treatment:	Acres Dist	urbed 0.	.0		Prevegeta	tion pH N	/A
	Lime N/A	1	ons/acre or	to correc	t to pH	N/A			
	Fertilizer (10-	·20-20 or cau	ivalent)	I/A			minimum)		
	Mulch N/A	•			Tons/acr		,		
						Mixtures			
					Seed I	VIIXIUFES			
	Seed Type	Area I	lbs/acre				Seed Type	Arca II	lbs/acre
N/A		No.				N/A≅	*1		
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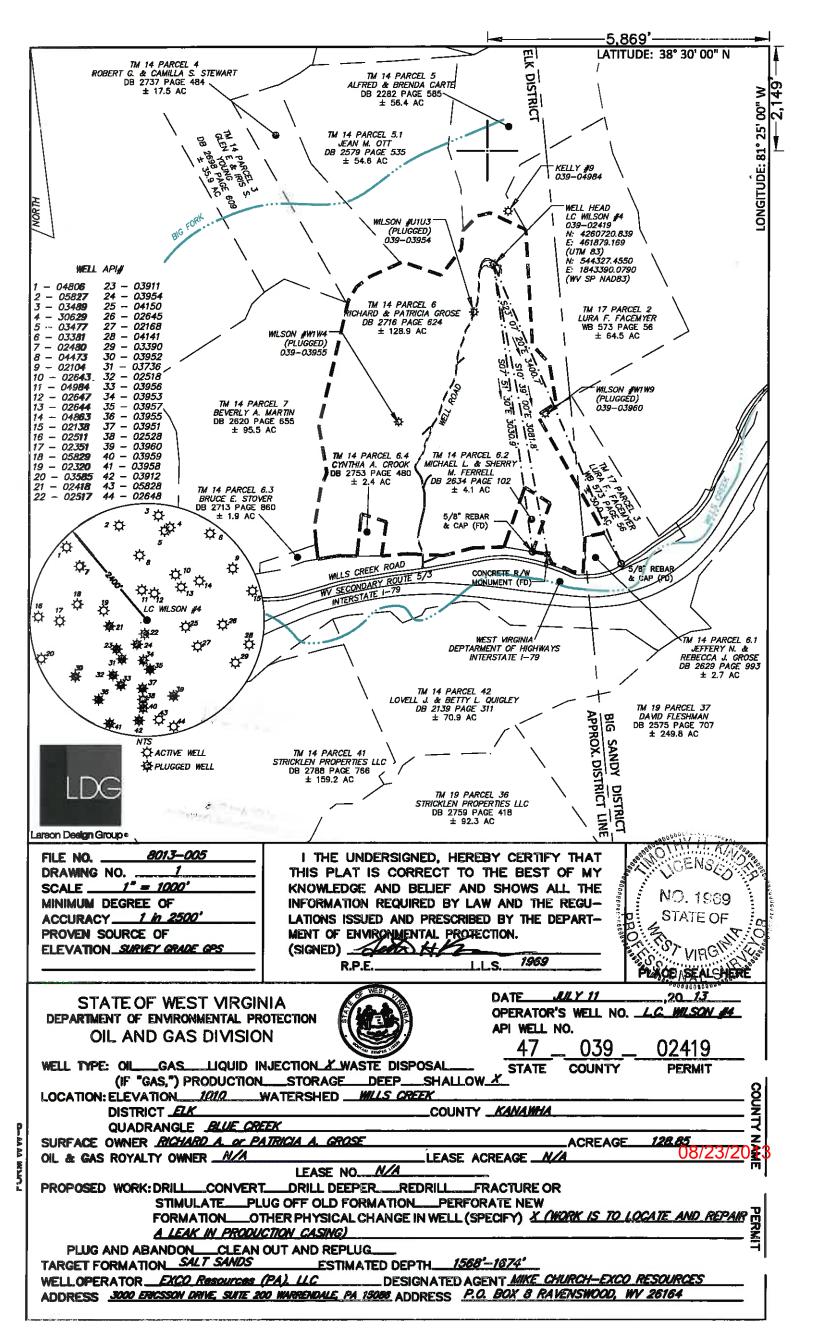


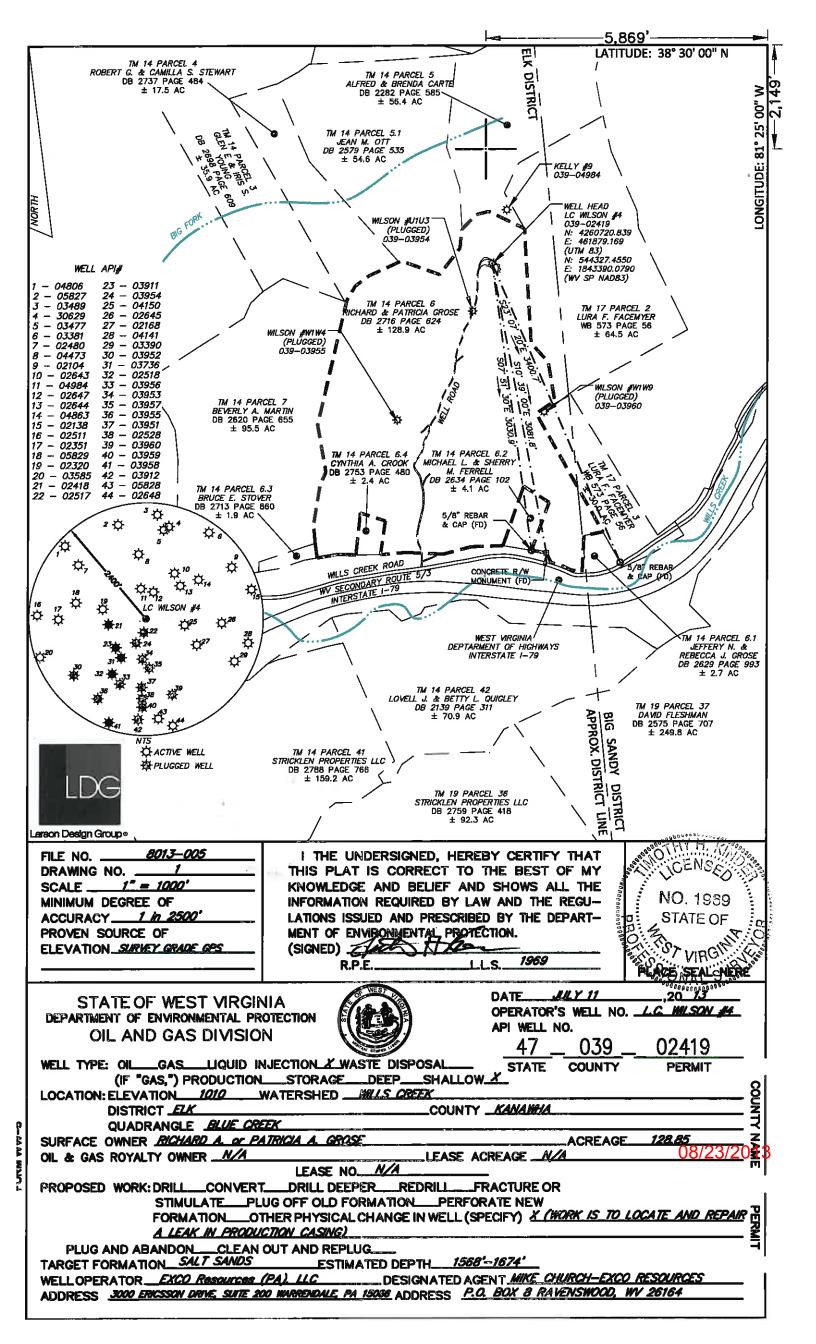


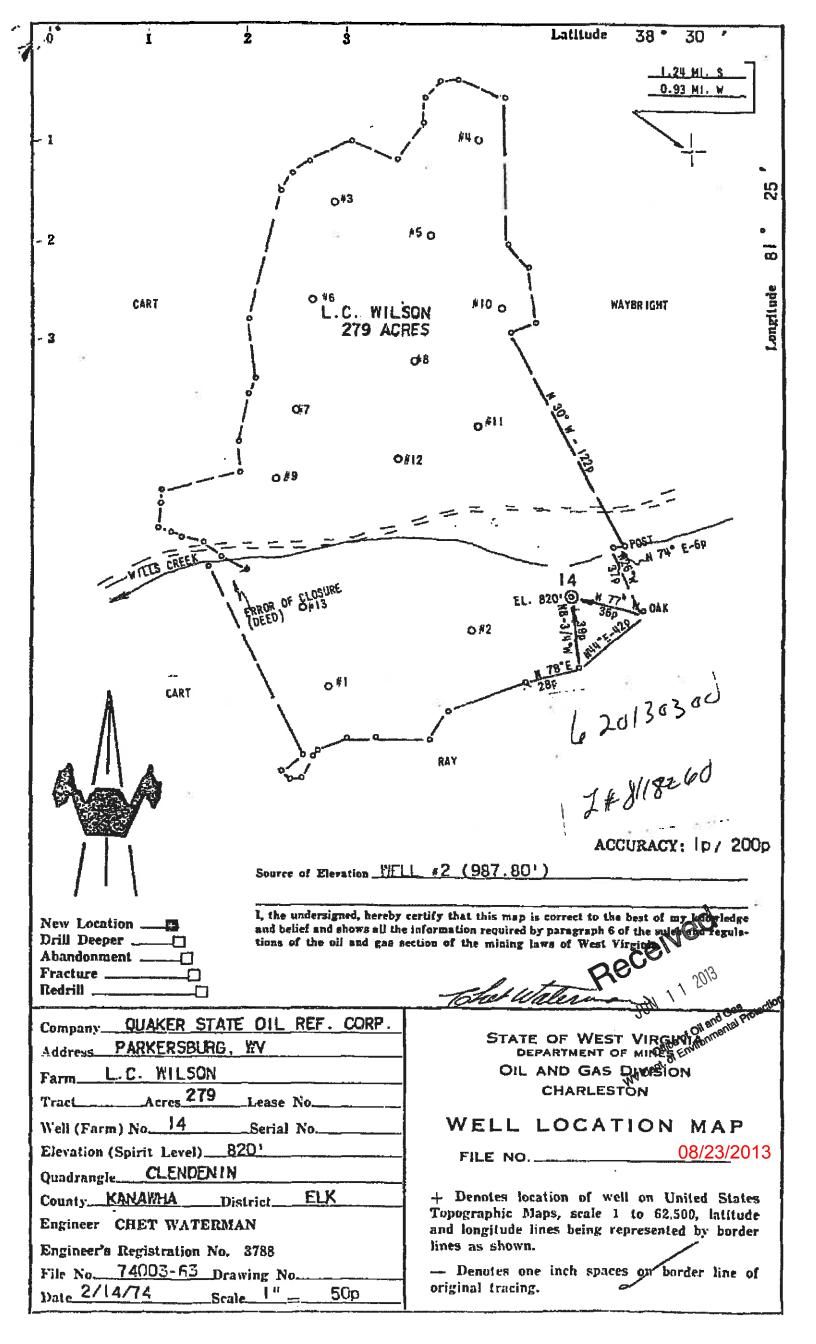












Nottingham, Justin E

From:

Nottingham, Justin E

Sent:

Wednesday, June 12, 2013 9:45 AM

To:

'rshrum@excoresources.com'

Subject:

Well Work Permit Application Deficiency

Attachments:

CHECK LIST FOR FILING A PERMIT 7-29-09.doc; Permit Packet. 05-07-2013.pdf;

47-039-02419 W.pdf

Rebecca,

I received an application for a Well Work Permit from EXCO Resources (PA), LLC for well # 47-039-02419 "L C Wilson #4" Injection Well in Kanawha ,WV. After looking over it, I found that it is lacking some of the required paperwork we need to review and approve it. If you would look at the attachments and links that I provided below and return the remainder of the paperwork that is needed , then I can get your application entered and reviewed. I have also attached the application in question. If you have any questions, then feel free to contact me.

http://www.dep.wv.gov/oil-and-gas/GI/Forms/Documents/Permit%20Packet.%2005-07-2013.pdf

http://www.dep.wv.gov/oil-and-gas/GI/Forms/Pages/default.aspx

Thanks, Justin

Justin E. Pottingham

West Virginia Department of Environmental Protection Office of Oil and Gas Environmental Technician 601 57th Street, S.E. Charleston, WV 25304 (304)-926-0499 (Ext. 1650) (304)-926-0452 (fax)

Jusitn.E.Nottingham@wv.gov

RECEIVED

JUN 11 2013

Office of Oil and Gas

Office of Oil and Gas

WV Dept. of Environmental Protection