



west virginia department of environmental protection

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

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

May 23, 2014

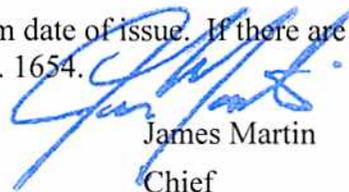
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3500822, issued to EXCO RESOURCES (PA), LLC, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: SIV-38
Farm Name: MEADOWS, SHIRLEY
API Well Number: 47-3500822
Permit Type: Plugging
Date Issued: 05/23/2014

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

CK # 242513
100⁰²

WW-4B
Rev. 2/01

1) Date February 4, 2014
2) Operator's Well No. SIV 38
3) API Well No. 47-035 - 00822

47-035-00822P

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil X / Gas ___ / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow ___

5) Location: Elevation 863' Watershed Sandy Creek
District Ravenswood County Jackson Quadrangle Sandyville

6) Well Operator EXCO Resources (PA), LLC 7) Designated Agent Diana Stamper/C.T. Corp Systems
Address PO Box 8 Address 5400 D Big Tyler Road
Ravenswood, WV 26164 Charleston, WV 25301

8) Oil and Gas Inspector to be notified Name Jamie Stephens
Address 105 Kentuck Road
Kenna, WV 25248
9) Plugging Contractor Name _____
Address _____

*Pittsburgh 606
10) Work order: 2nd work order for the manner of plugging this well is as follows:
Pittsburgh 606*

10) Work order: 2nd work order for the manner of plugging this well is as follows:

- 1.) RIH check TD @ +/- 2262' RIH tbg to 2260' load hole with 6% gel.
- 2.) Rig up and pump 50 sks class A cement 2260'-1977' WOC 8 hours
- 3.) Check TOC @ 1977', add additional Class A cement as necessary to achieve TOC @ 1977'
- 4.) Rig up and pooh with 7" casing RIH tbg to 1300' = rig up and pump 50 sks Class A cement 1300'-1140'; pooh tbg to 800'
5. Rig up and pump 150 sks Class A cement 800'-300'; pooh tbg to 150'
6. Rig up and pump 50 sks Class A cement 150'-surface, Erect monument with API#

*P51 Well 15' of 13"
790' of 10"
1245' of 8 1/4"
2049' of
@ 5/8"
Plus tubing*

pull all pipe possible or Rip & cut & squeeze cement behind pipe.

Received

APR 17 2014

No count records showing

Office of Oil and Gas
WV Dept. of Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector *Jamie Stephens* Date *3/18/2014*

3500822P

OIL & GAS DIVISION
WELL RECORD

0 V 2 /
51 E 1

Permit No. JAC-822
Ripley Quad.

EXCO Resources (PA) LLC
SIV 5- API Well No. 47-035-00 822P

Oil

Company	D. D. Foster	CASING & TUBING	
Address	412 Peoples Gas Bldg., Pgh., Pa		
Farm	Boso & Ritchie, Ind. Acres 346	13	15
Well No. 3	Elev. 861.2	10	790
District	Ravenswood County - Jackson	8 1/4	1245
Surface	As above, Ravenswood, W. Va.	6 5/8	2049
Mineral	Same		2049
Commenced	9/12/51 ✓		
Completed	10/18/51 ✓		
Oil	10 bbls., 1st 24 hrs.		

Red Rock	0	15	Red Rock	815	820
Sand	15	30	White Slate	820	860
Slate	30	40	Red Rock	860	905
Red Rock	40	70	Slate	905	920
Lime	70	85	Lime	920	933
Red Rock	85	120	Red Rock	933	940
Red Rock	130	140	Slate	940	955
White Slate	140	150	Red Rock	955	995
Red Rock	150	158	Slate	995	1005
White Slate	158	165	Slate Shells	1005	1080
Red Rock	165	170	Black Slate	1080	1132
White Slate	170	200	Gas Sand	1132	1255
Red Rock	200	205	Slate	1255	1323
Slate	205	230	Sand	1323	1370
Red Rock	230	250	Black Slate	1370	1395
Lime	250	260	Sand	1395	1465
Red Rock	260	270	Slate	1465	1505
Lime	270	290	Sand	1505	1527
Sand	290	330	Lime	1527	1540
Slate	330	340	Sand	1540	1560
Red Rock	340	350	Slate	1560	1575
Slate	350	360	Sand	1575	1608
Sand	360	420	Slate	1608	1625
Slate	420	430	Sand	1625	1655
Red Rock	430	445	Lime	1655	1665
Slate	445	455	Maxon Sand	1665	1680
Red Rock	455	480	Slate & Shells	1680	1730
Slate	480	505	Black Slate	1730	1775
Red Rock	505	520	Big Lime	1775	1905
Lime	520	606	Sand	1905	1914
1st Pitt Sand	606	670	Lime	1914	1930
Slate	670	710	Slate	1930	2034
Lime	710	726	Lime	2034	2120
Slate	726	734	Slate & Shells	2120	2300
2nd Pitt Sand	734	776	Shale	2300	2316
Slate	776	790	Berea Sand	2316	2326
Lime	790	796	TOTAL DEPTH		2331
White Slate	796	815			

Received

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Office of Oil and Gas
WV Dept. of Environmental Protection

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WW-4A
Revised 6-07

1) Date: February 4, 2014
2) Operator's Well Number SIV 38

3) API Well No.: 47 - 035 - 00822

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Shirley & Zelma Meadows</u>	Name <u>none</u>
Address <u>Rt 2 Box 22</u>	Address _____
<u>Ravenswood, WV 26164</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Jamie Stephens</u>	(c) Coal Lessee with Declaration
Address <u>105 Kentuck Road</u>	Name <u>none</u>
<u>Kenna, WV 26248</u>	Address _____
Telephone <u>304-206-7775</u>	_____

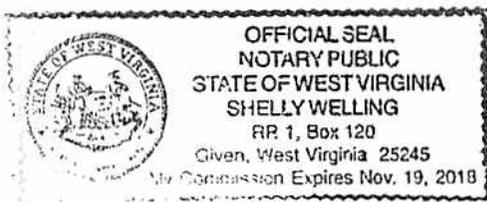
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Received



Well Operator EXCO Resources (PA), LLC
 By: Rick Green *R. Green*
 Its: Construction Specialist I
 Address PO Box 8
Ravenswood, WV 26164
 Telephone 304-273-5371

APR 21 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

Subscribed and sworn before me this 19th day of Feb 2014
Shelly Welling Notary Public

My Commission Expires 11/19/18

Oil and Gas Privacy Notice

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

3500822P

SIV 38

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Millie Casto <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) millie Casto</p> <p>C. Date of Delivery 02-21-2013</p> <p>D. Is delivery address different from item 1? <input checked="" type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>49 Meadow Drive Ravenswood, W.V. 26164</p>
<p>1. Article Addressed to:</p> <p>SHIRLEY & ZELMA MEADOWS RT 2 BOX 22 RAVENSWOOD WV 26164</p>	<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p>	<p>7006 2760 0005 3354 3151</p>
PS Form 3811, February 2004	Domestic Return Receipt
	102595-02-M-1540

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$.90
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.90

7006 2760 0005 3354 3151

Sent To
 SHIRLEY & ZELMA MEADOWS
 RT 2 BOX 22
 RAVENSWOOD WV 26164

PS Form 3800, August 2006 See Reverse for instructions



Received

APR 17 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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

47-035-00822 P

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name EXCO Resources (PA), LLC OP Code 307860

Watershed Sandy Creek Quadrangle Sandyville

Elevation 863' County Jackson District Ravenswood

Description of anticipated Pit Waste: cement, water, gel

Will a synthetic liner be used in the pit? yes 20m

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 solidify solids on site with cement)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

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 [Signature]

Company Official (Typed Name) Rick Green

Company Official Title Construction Specialist I

Received

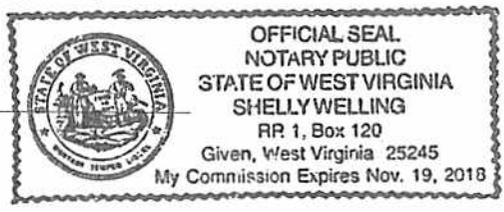
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Office of Oil and Gas
WV Dept. of Environmental Protection

Subscribed and sworn before me this 19th day of Feb, 20 14

[Signature] Notary Public

My commission expires 11/19/18



EXCO.

3500822P

Form WW-9

Operator's Well No. SIV 38

47-035-00822P

LEGEND

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site

- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed >1 Prevegetation pH _____

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
KY 31 Fescue		40	same as Area I		
Alsike Clover		5			
Annual Rye		16			

Attach: Drawing(s) of road, location, pit and proposed area for land application.

Received

Photocopied section of involved 7.5' topographic sheet.

APR 17 2014

Plan Approved by: *Janice Stevens*

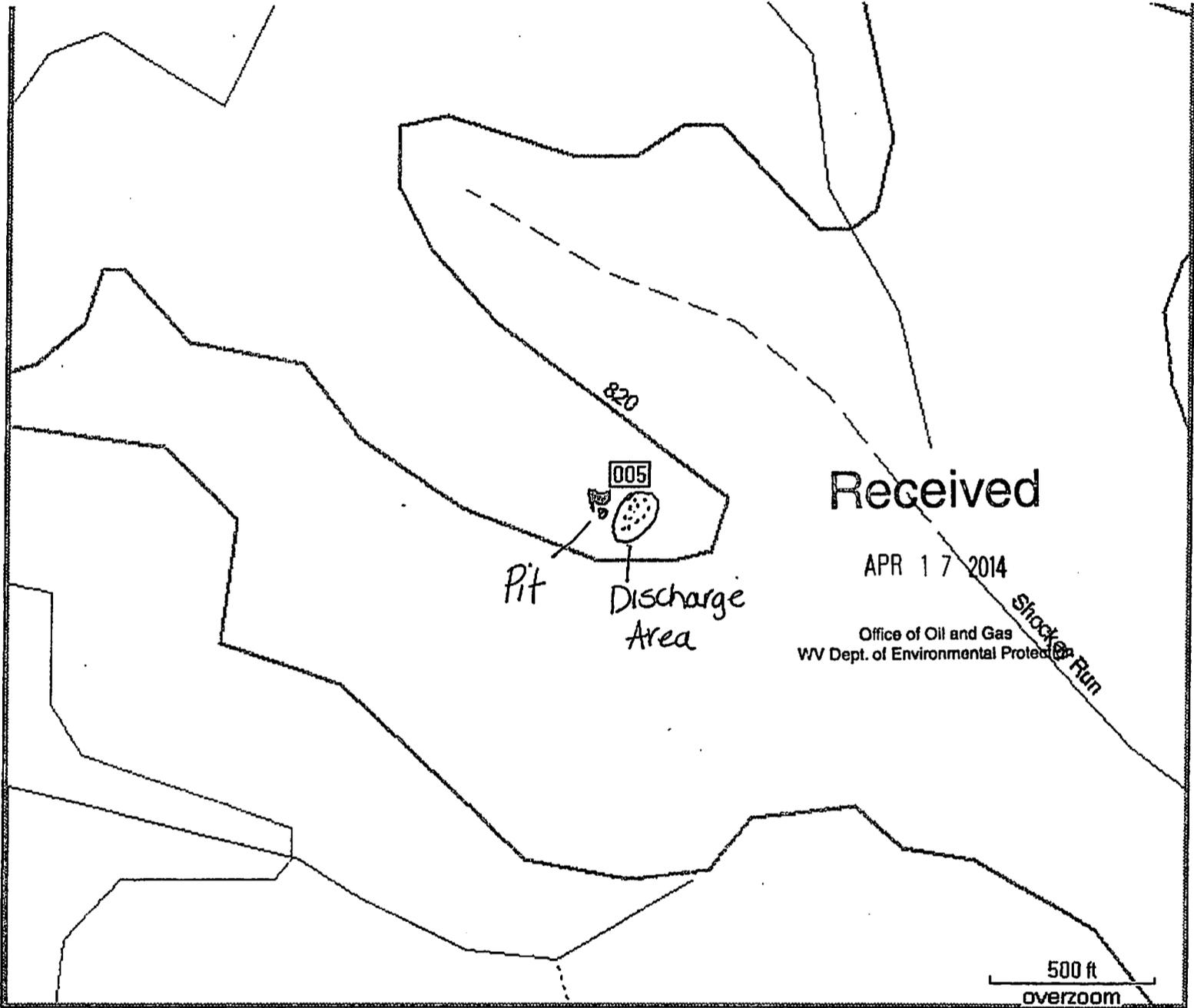
Office of Oil and Gas
Environmental Protection

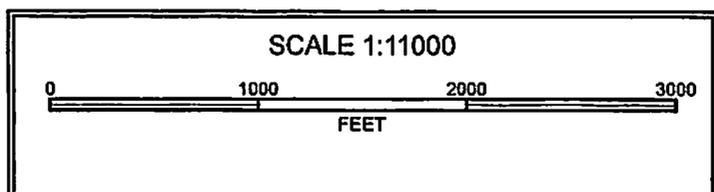
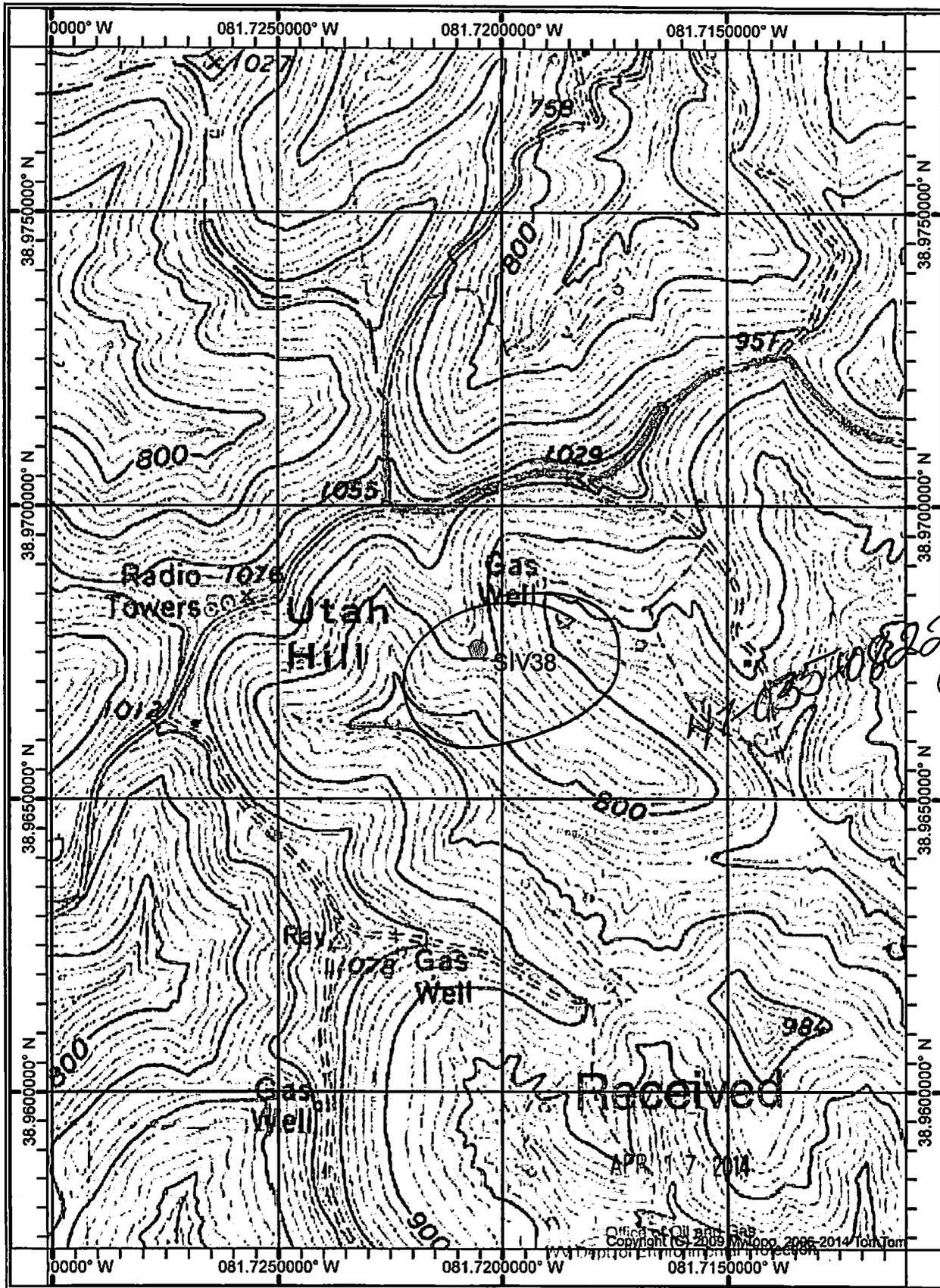
Comments: _____

Title: _____ Date: 3/18/2014

Field Reviewed? Yes No

EXLO Resources (PA.) LLC
Well No. SIV 38
API Well No. 47035-00822P.





WW-7
5-02



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47 035 00822 - P

WELL NO.: Siv-38

FARM NAME: Shirley L. & Zelma M. Meadows

RESPONSIBLE PARTY NAME: North Coast Energy Eastern, Inc.

COUNTY: Jackson

DISTRICT: Ravenswood

QUADRANGLE: Sandyville

SURFACE OWNER: Shirley L. & Zelma M. Meadows

ROYALTY OWNER: Boso & Ritchie

UTM GPS NORTHING: 4313189.5

UTM GPS EASTING: 437868.7

GPS ELEVATION: 263.042

863 FT

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS _____: Post Processed Differential _____
Real-Time Differential _____

Mapping Grade GPS _____: Post Processed Differential _____
Real-Time Differential _____

Received

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I the undersigned, hereby certify this data 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 Office of Oil and Gas.

George M. Purkes
Signature

Contract Landman
Title

December 2, 2005
Date

