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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

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

Tuesday, September 13, 2016  
WELL WORK PERMIT  
Vertical / Plugging - 2

EXCO RESOURCES (PA), LLC  
260 EXECUTIVE DRIVE

CRANBERRY TOWNSHIP, PA 16066

Re: Permit approval for 2  
47-035-00644-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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- 0450.

James A. Martin  
Chief

Operator's Well Number: 2  
Farm Name: SUCK, E. F.  
U.S. WELL NUMBER: 47-035-00644-00-00  
Vertical / Plugging - 2  
Date Issued: 9/13/2016

Promoting a healthy environment.

05/14/2021

## 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.

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### CONDITIONS

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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.

1) Date \_\_\_\_\_, 20\_\_\_\_  
2) Operator's  
Well No. Siv 12  
3) API Well No. 47-035 - 00644

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 x or Underground storage \_\_\_\_\_) Deep \_\_\_\_\_ / Shallow x

5) Location: Elevation 755 Watershed Straight Fork  
District Ravenswood County Jackson ✓ Quadrangle Ripley

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

Oil and Gas Inspector to be notified:  
Jamie Stevens  
105 Kentuck Rd.  
8) Kenna WV 25248

9) Plugging Contractor  
Name R&R Well Service  
Doug Rexford  
Address 42 Lynch Ridge, Walton WV  
25286

Phone 304 290 7775  
206

10) Work Order: The work order for  
manner of plugging this well is as  
follows:  
Remove all Equipment used in production  
Pull 2322' of tubing set on midjet packer  
Run Tubing to TD =/-2317

- Cement with 100' 2317 to 2217
- Gel 2217 to 2040
- Cement 2040 to 1940 across seat 65/8
- Gel 1940' to 1440'
- Cement 1440' to 1340 across 8 1/2 csg ✓
- Gel 1340' to 770
- Cement 770 to 540 over coal & 10 1/2 csg
- Gel to 540' to 270'
- Cement 270' to surface
- Set Monument with API

*or if packer can't be pulled set plug cut full pipe*  
*Pull all pipe possible*  
*Plug Hole on top & set*  
*Plugs.*

*\* CUT & PULL 6 5/8"*  
*SET 100' PLUG ACROSS CUT.*  
*gmm*

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WV Department 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 Stevens Date 6/22/2016

WEST VIRGINIA DEPARTMENT OF MINES  
OIL & GAS DIVISION  
WELL RECORD

7-12-10  
3500644P

OIL WELL  
CASING & TUBING

Mount No. 614  
Explosive Guide  
Company  
Address  
Farm  
Location  
Well No.  
District  
Surface  
Mineral  
Commenced  
Completed  
Date shot

Columbian Carbon Company  
Box 873, Charleston 23, W.Va. 16 65# 13'9 Same  
E.F. Suck Acres 97 10 40# 720'6 pld. Cove?  
Straight Work. 8 2 2# 1387 pld.  
2 GW 1105 Elev. 753.2 G 6 5/8 2 2# 1990'4 1990'4  
Ravenswood Jackson County 2 3/8 2322'6 2322'6  
E.F. Suck, R.F.D. #2, Millwood, W.Va. with 2" tubing ?  
Same cago  
11-19-43 Kidgot B.H. Packer  
1-7-49 Size 4 5/8  
1-11-49 Depth 2274 SLM to 2284 SLM Depth 1976 SLM  
with 6 7/8 gelatin Coal 583' 24" ?  
Approx. 28 bbls. daily  
220' 2-13" blr. per hr.; 322' 2 1/2-13" blr. per hr.  
670' H.F.; 1080' 2-10" blr. per hr. Salt Water;  
1275' 5-10" blr. per hr.; 1322' 8-10" blr. per hr.

Surface	0	10	Slate & Shells	2284	2317
Sand	10	39	Total depth		2317
Red Rock	39	80			
Slate	80	116	Gas 2274 SLM show		
Red Rock	116	180	Oil pay 2274' SLM		
Slate	180	195			
Red Rock	195	235	CEMENT RECORD:		
Slate	235	254	12-2-48 10 1/2" casing ran 11 sacks of		
Red Rock	254	265	aquagel. Circulation and returns.		
Sand	265	360			
Slate & Shells	360	383	12-9-48 8 5/8" casing ran 16 sacks of		
Red Rock	383	400	aquagel. Circulation and returns.		
Slate & Shells	400	425			
Red Rock	425	445	12-23-48 6 5/8" casing ran 16 sacks		
Slate & Shells	445	477	of aquagel. Circulation and returns.		
Red Rock	477	500			
Slate	500	515	C.C.Co. Crow		
Red Rock	515	550			
Sand	550	585			
Slate	585	588			
Coal	588	590			
Slate	590	664			
Sand	664	705			
Slate	705	725			
Red Rock 708 DLM-712 SLM	725	756			
Slate	756	785			
Red Rock	785	823			
Slate	823	1028			
Sand	1028	1115			
Slate	1115	1145			
Sand	1145	1163			
Slate	1163	1240			
Sand	1240	1283			
Black Slate	1283	1290			
Slate & Shells	1290	1308			
Sand	1308	1340			
Slate & Shells 1363 DLM-1374 SLM 1340	1340	1445			
Black Slate	1445	1455			
Slate & Shells	1455	1493			
Sand	1493	1512			
Slate	1512	1554			
Sand	1554	1575			
Slate	1575	1622			
Sand	1622	1653			
Gravel	1653	1659			
Big Time	1659	1805			
Big Injun Sand	1805	1920			
Slate & Shells 1965 DLM-1976 SLM 1920	1920	2244			
Brown Shale	2244	2260 DLM			
		2274 SLM			
Brown Sand	2260 DLM				
	2274 SLM 2284				

*Janie*  
6/22/2016

*add.*  
27-035-00 644-P  
*Now Plugging*  
*EXCO Resources*

05/14/2021

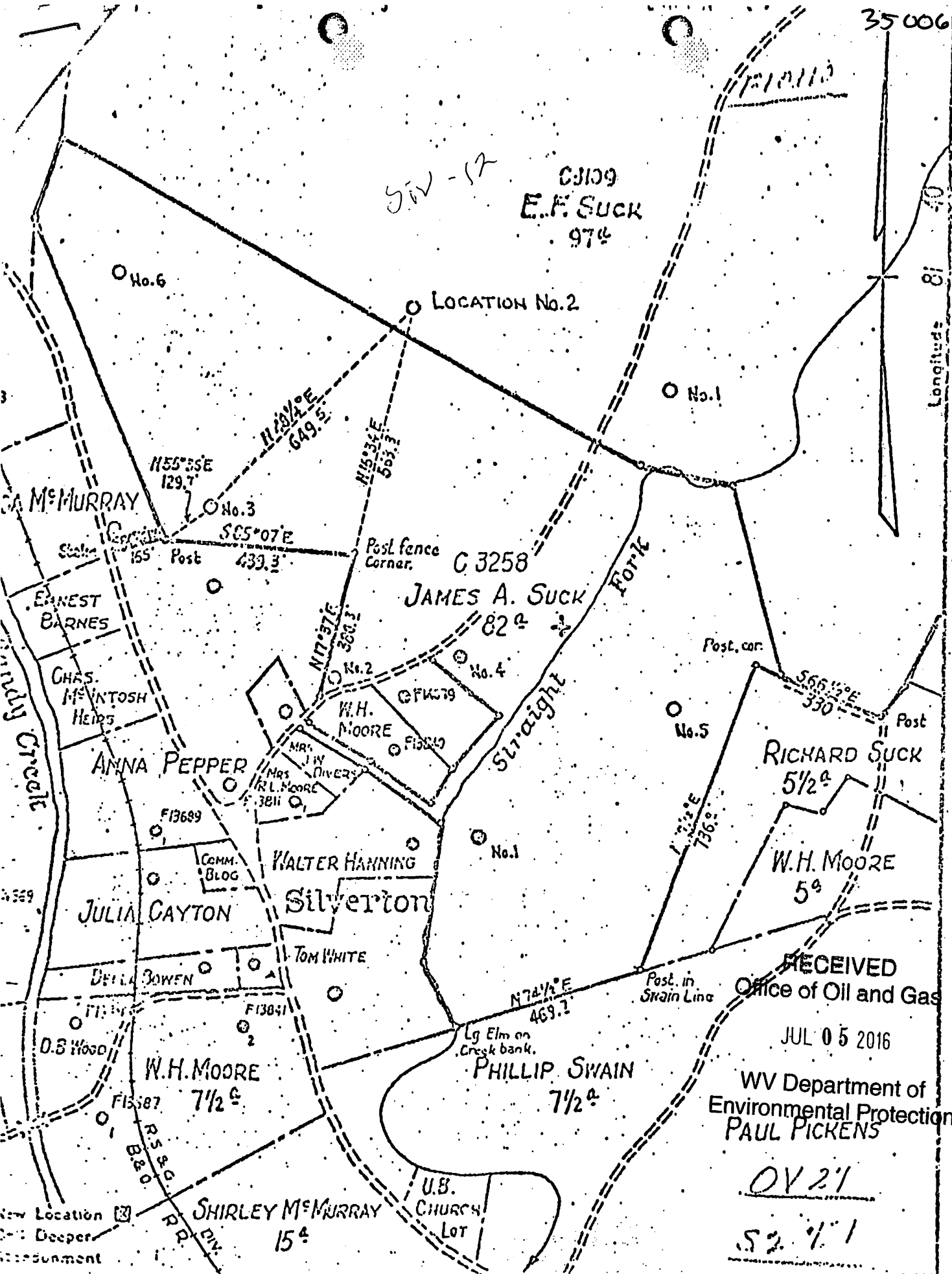
SIV #12  
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Office of Oil and Gas

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*was*





COLUMBIAN CARBON COMPANY  
 Box 873 CHARLESTON, W.VA.  
 E.F. Suck  
 Acres 97 Lease No. C3109  
 (Farm) No. 2 Serial No. \_\_\_\_\_  
 Location (Spirit Level) 753.2'  
 Township RIPLEY 3 S49.1 W 29.1  
 Range JACKSON District RAVENSWOOD  
 C. C. [Signature]  
 Recorder's Registration No. 5285  
 Drawing No. 1153/43  
 Date 22, 1943. Scale 1" = 300'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES &  
 OIL AND GAS DIVISION  
 CHARLESTON ✓  
 WELL LOCATION MAP  
 FILE NO. J.A.C. 644 ✓  
 05/14/2021  
 \* Denotes location of well on United States Topographic Map, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.  
 \*\* Denotes one inch spaces on border line of original tracing.

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 WV Department of  
 Environmental Protection  
 PAUL PICKENS

OV 21  
 52.7.1

3500644

WW-4A  
Revised 6-07

1) Date: 6/20/16  
2) Operator's Well Number  
Siv 12  
3) API Well No.: 47 - 035 -00644

**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:  (a) Name James Suck, Jr. Address 468 Wilding RD. Ravenswood WV 26164

5) (a) Coal Operator Name None Address \_\_\_\_\_

(b) Name Address \_\_\_\_\_ (b) Coal Owner(s) with Declaration Name Address \_\_\_\_\_

(c) Name Address \_\_\_\_\_ Address \_\_\_\_\_

6) Inspector JAMIE STEVENS (c) Coal Lessee with Declaration  
Address 105 Kentuck Rd. Name  
Kenna WV 25248 Address  
Telephone 304 206 7775

**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.

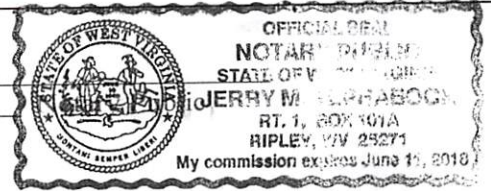
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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.

Well Operator EXCO Resources (PA) LLC  
By: Randall Sheets *Randall P. Sheets*  
Its: Supervisor  
Address POBox 8, Ravenswood WV 26164  
Telephone 304 273 5371

Subscribed and sworn before me this 22nd day of June, 2016

My Commission Expires 6/11/18  
Oil and Gas Privacy Notice *Jerry M. Tephelbeck*



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

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WW-9  
(5/13)

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 035 - 00644  
Operator's Well No. Siv - 12

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) Straight Fork Quadrangle Ripley

Elevation 755 County Jackson District Ravenswood

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 x 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 All waste will be capured and Disposed)

OFF SITE  
gum

Will closed loop system be used? no

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Salt Water

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

Additives to be used in drilling medium? none

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

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) no pit

-Landfill or offsite name/permit number? \_\_\_\_\_

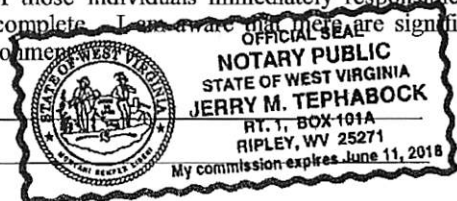
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 Randall Sheets

Company Official (Typed Name) Randall Sheets

Company Official Title Supervisor



Subscribed and sworn before me this 12th day of Sept, 2016

Jerry M. Tephobock Notary Public

My commission expires 6/11/18

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SEP 12 2016

Proposed Revegetation Treatment: Acres Disturbed \_\_\_\_\_ Prevegetation pH 6.0  
1.0 \_\_\_\_\_

Lime \_\_\_\_\_ Tons/acre or to correct to pH 6,5  
2

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

Mulch \_\_\_\_\_ Tons/acre  
2.0

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Fescue 40	_____	_____	_____
Alsike 5	_____	_____	_____
Annual Rye 16	_____	Same	_____

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

Photocopied section of involved 7.5' topographic sheet.

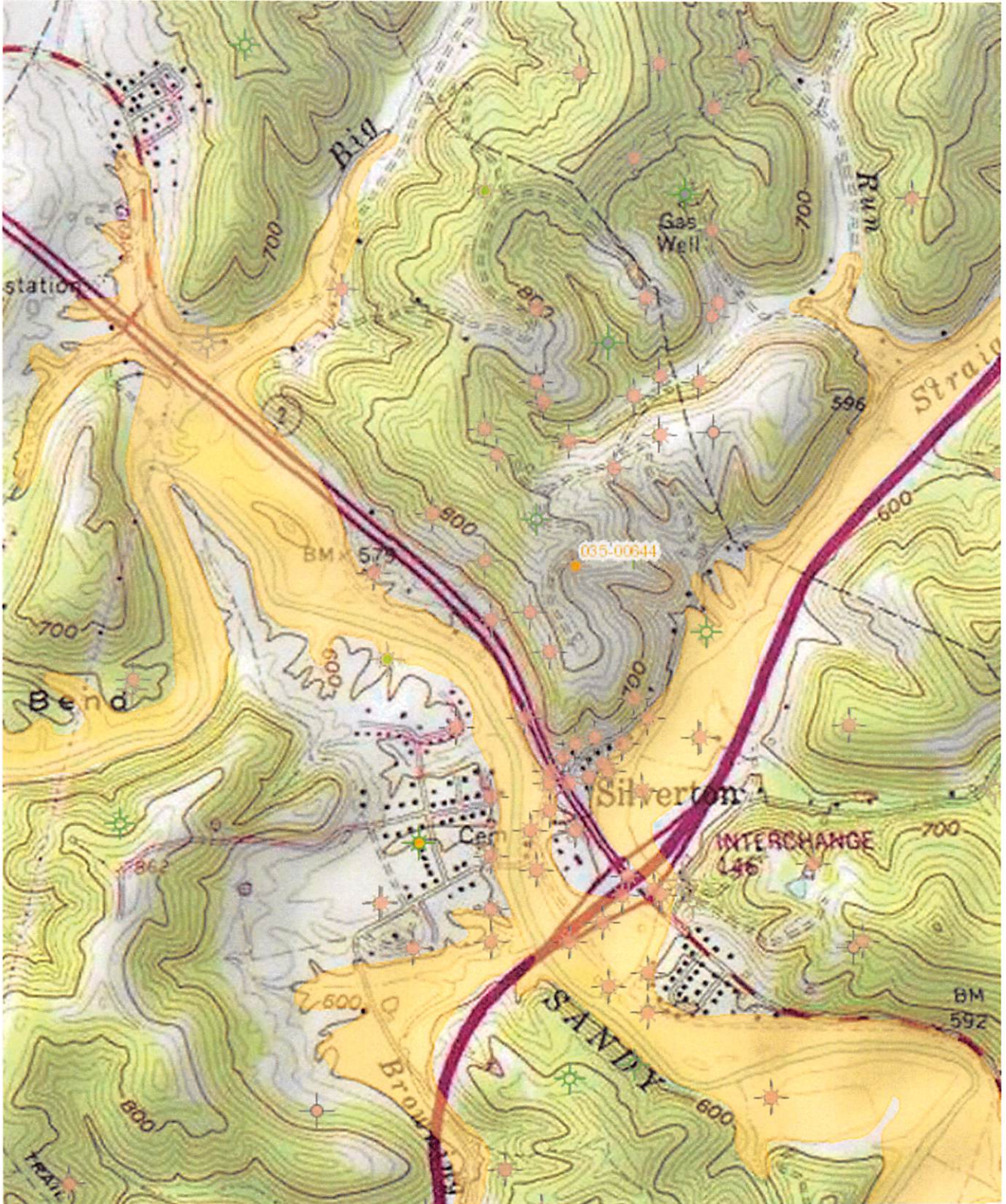
Plan Approved by: James S. Stevens, Jr.  
Comments: \_\_\_\_\_

Title: Inspector Date: 6/22/2016

Field Reviewed? (  ) Yes (  ) No

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05/14/2021



WW-7  
8-30-06



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

API: 47 035 0644 WELL NO.: Siv 12

FARM NAME: Suck

RESPONSIBLE PARTY NAME: EXCO Resources (PA)LLC

COUNTY: Jackson DISTRICT: Ravenswood

QUADRANGLE: Ripley

SURFACE OWNER: James Suck

ROYALTY OWNER: James Suck

UTM GPS NORTHING: ~~4309175~~ 4309319.6

UTM GPS EASTING: ~~0437550~~ 437442 GPS ELEVATION: 742

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

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

Survey grade GPS \_\_\_\_: Post Processed Differential \_\_\_\_  
Real-Time Differential \_\_\_\_

Mapping Grade GPS : Post Processed Differential \_\_\_\_  
Real-Time Differential \_\_\_\_

- Letter size copy of the topography map showing the well location.**

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.

Randall D. Stewart  
Signature

Supervisor  
Title

6/22/16  
Date

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