



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

September 26, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-7302550, issued to UNKNOWN - DEP PAID PLUGGING CONTRACT, 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: COW CREEK 1 80309
Farm Name: CYTEC INDUSTRIES
API Well Number: 47-7302550
Permit Type: Plugging
Date Issued: 09/26/2013

Promoting a healthy environment.

09/27/2013

STATE OF WEST VIRGINIA
DIVISION 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 x
- 5) Location: Elevation 595' Watershed Cow Creek
District Jefferson County Pleasants
Quadrangle Petroleum 544
- 6) Well Operator WV DEP Plugging 7) Designated Agent James Martin
Address 601 57th Street Address 601 57th Street SE
Charleston, WV 25304 Charleston, WV 25304
- 8) Oil and Gas Inspector to be notified Name Joe Taylor 9) Plugging Contractor
Address 495 Clay lick Road Name R.L. Wharton Enterprises
Ripley, WV 25271 Address Rt. 9 Box 218
Buckhannon, WV 26201

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

Rig up
Clean out from the surface to T.D. at Approx. 800-10000' (No Well Record Available)
Cut and remove all free pipe.
Run tubing in the hole to TD approximately 800-1000', gel hole using 6% gel
Set Minimum 100' Cement Plug from TD
Set 6% Gel spacer
Set a cement plug 550 feet to 450 feet
Set a 6% gel spacer 450 to 100 feet
Cement well from 100' to the surface
Gel between all plugs and tag all Plug's
Erect a monument with the API number attached

RECEIVED
Office of Oil & Gas

SEP 25 2013

WV Department of
Environmental Protection

Note:
(No well record available)
Well is believed to have been drilled to the Cow Run when drilled.
Historical Records indicate that wells were drilled to various depths depending on the Specific Gravity of the Crude

OFFICE USE ONLY

PLUGGING PERMIT

Permit Number _____ Date _____, 19____

This permit covering the well and well location shown below is evidence of permission granted to plug in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector 24 Hours before actual permitted work has commenced.

The permitted work is as described in the Notice and Application, plat, subject to any modifications and conditions on the reverse hereof.

Permit expires _____ unless plugging is commenced prior to that date and prosecuted with due diligence.

Bond: _____ Agent: _____ Plat: _____ Casing: _____ WPCP: _____ Other: _____

09/27/2013

WW4-A
Revised
2/01

1) Date: 9/15/2013
2) Operator's Well Number Cow Creek #1 80309
3) API Well No. 47- 073- 02550P

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
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>Cytec Industries W</u>	Name	<u>NA</u>
Address	<u>#1 Hellman Avenue</u>	Address	<u></u>
	<u>Willow Island WV 26134</u>		
(b) Name	<u></u>	(b) Coal Owner(s) with Declaration	
Address	<u></u>	Name	<u>NA</u>
		Address	<u></u>
(c) Name	<u></u>	Name	<u>NA</u>
Address	<u></u>	Address	<u></u>
6) Inspector	<u>Joe Taylor</u>	(c) Coal Lessee with Declaration	
Address	<u>497 Claylick road</u>	Name	<u>NA</u>
	<u>Ripley Wv 25271</u>	Address	<u></u>
Telephone	<u>(304) 380-7469</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.

Well Operator
By:
Its:
Address

Telephone

WV DEP Plugging
James Martin
Agent
601 57th Street
Charleston, WV 25304
304 926-0499

RECEIVED
Office of Oil & Gas
SEP 23 2013

WV Department of
Environmental Protection

Subscribed and sworn before me this _____ day of _____

Notary Public

My Commission Expires _____

09/27/2013

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name WV DEP Plugging OP Code _____

Watershed Cow Creek Quadrangle willow island

Elevation 595' County Plesants District Jefferson

Description of anticipated Pit Waste: Plugging Fluid

Will a synthetic liner be used in the pit? Yes

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number #2D0855151)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

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 June 14, 1994, by the Office of Oil and Gas of the West Virginia Division 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 _____

Company Official (Typed Name) James Martin

Company Official Title Agent

RECEIVED
Office of Oil & Gas
SEP 23 2013

WV Department of
Environmental Protection

Subscribed and sworn before me this _____ day of _____, 19 _____

Notary Public

My commission expires _____

LEGEND

09/27/2013

Property Boundary	Diversion
Road	Spring
Existing Fence	Wet Spot
Planned Fence	Drain Pipe with size in inches
Stream	Waterway
Open Ditch	Cross Drain
Rock	Artificial Filter Strip
North	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	

Proposed Revegetation Treatment: Acres Disturbed 1 acre _____ 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

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
<u>Pasture Mix</u>	<u>100</u>	<u>Pasture Mix</u>	<u>100</u>
_____	_____	_____	_____
_____	_____	_____	_____

RECEIVED
Office of Oil & Gas

SEP 23 2013

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

Photocopied section of involved 7.5' topographic sheet.

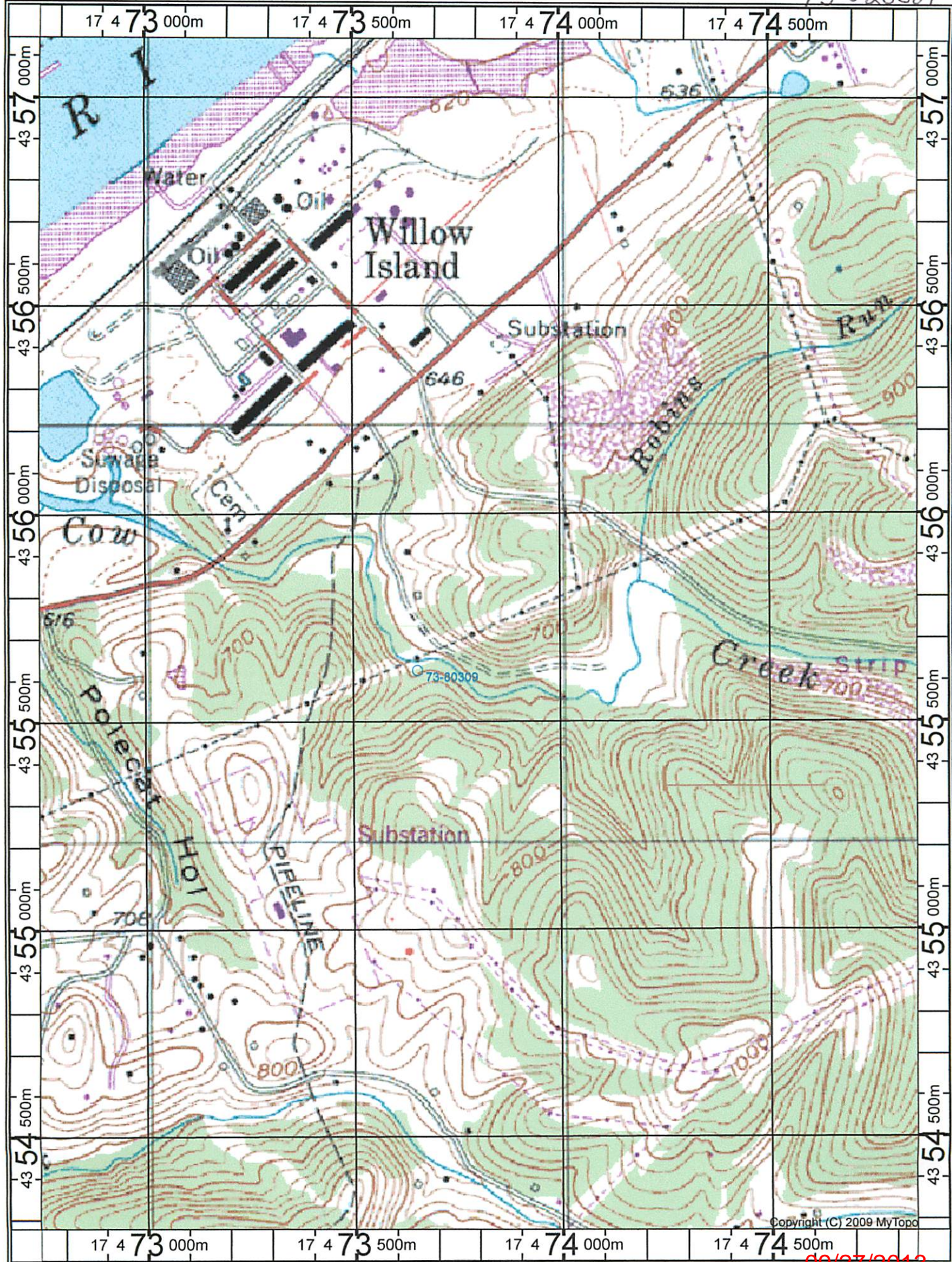
WV Department of
Environmental Protection

Plan Approved by: David Gilbert

Title: Inspector Date: 9/15/13

Field Reviewed? Yes No

73-025509



Copyright (C) 2009 MyTopo

09/27/2013

WW-7
8-30-06



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

API: 47-073-02550 P WELL NO.: Cow Creek #1 80309

FARM NAME: Cytec Industries

RESPONSIBLE PARTY NAME: WVDEP

COUNTY: Pleasants DISTRICT: Jefferson

QUADRANGLE: Willow Island

SURFACE OWNER: Cytec Industries

ROYALTY OWNER: Columbian Carbon Corp.

UTM GPS NORTHING: 4355624.0

UTM GPS EASTING: 473655 Elevation 595'

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:

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 ____
4. **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.

Dave Gilbert
Signature

Inspector Specialist
Title

Date 9/15/2012

09/27/2013