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 19, 2013

## WELL WORK PLUGGING PERMIT

## Plugging

This permit, API Well Number: 47-1900931, issued to EQT PRODUCTION COMPANY, 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 penalities 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.


Operator's Well No: (WV 508086) LAWSON HAMILTO
Farm Name: ACIN, LLC
API Well Number: 47-1900931
Permit Type: Plugging
Date Issued: 09/19/2013

## 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.

Form WW-4 (B)
Permit Copy
(Rev 2/01)

Date:
August 28, 2013
Operator's Well
Well No. WV 508086(Lawson Hamilton)
API Well No.: $\underline{47}$

## 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
If Gas, Production
If
$\quad \mathrm{X}$
5)

Location:
Elevation: $1247^{\prime}$ Watershed: Wilburn Creek
District:
6)

Well Operator
Address:
$\frac{\text { EQT Production Company }}{\frac{120 \text { Professional Place }}{\text { Bridgeport, WV } 26330}}$
7) Designated Agent: Rex C. Ray
Address: 120 Professional Place
8)

Oil \& Gas Terry Urban
9) Plugging Contractor:

Name: HydroCarbon Well Service
Name: P.O. Box 1207
Address: PO BOX 995
Address: Clendenin, WV 25045
Buckhannon, WV 26201
10) Work Order: The work order for the manner of plugging this well is as follows:

## See Attachment for details and procedures.



## OFFICE USE ONLY

Notification must be given to the district ot hand gas inspector 24 hoy ts before permitted worth can commence.
Work order approved by inspector

## PLUGGING PROGNOSIS

## Lawson Hamilton WV 508086 (508086)

Fayette COUNY, W.V.
API \# 47-09-00931
Quad, Pax


## BY: Doug Fry

Elev. $1235^{\circ}$
DATE: $1 / 4 / 13$
CURRENT STATUS:
13 3/8" @ 32' Cmtd -Est to @ to surface
95/8" @ 142' Cmtd - Est Tot @ 50'
4.5 @ 2886’ Cmtd - Est Toc @ 1400’.

2" @ ?
Fresh Water @ None Reported
Gas shows/ Perfs @ 2562'-2784' Berea/Gordon, 1604․-1616' L Maxton,
Oil Shows @ None Reported
Salt Sand top 745,

## Coal: None reported

## Stimulation; Fac

1. Notify inspector, Terry Urban @ 304-549-5915 24 hours prior to commencing operations.
2. TOOH w/ 2 " tubing check SN configuration and tally pipe back into hole to the depth of $2784^{\prime}$.
3. TIH w/ tubing to $2784^{\prime}$; Set $322^{\prime}$ C1A Cement Plug @ $2784^{\prime}$ to $2462^{\prime}$ ( Gordon, Berea Perfs ).
4. TOOH w/ tubing, Gel Hole @ 2462 ' to 1616'.
5. TOOH w/ tubing to $1616^{\prime}$; Set $116^{\prime}$ C1A Cement Plug @ $1616^{\prime}$ to $1500^{\prime}$ (L Maxton perfs ).
6. TOOH w/ tubing, Gel Hole @ $1500^{\prime}$ to $745^{\prime}$.
7. TOOH w/ tubing, Free Point $4.5 "$ sg, cut 4.5 "css @ Free Point, TOOH w/4.5"csg. Set a 100' C1A Cement Plug 50' In/Out
of cut. Perf all Salt Sand top, FW, Gas, Oil and Coal shows below the 4.5 " cut. Do not omit any plugs shown below.
8. TIH w/ tubing @ $745^{\prime}$ ', Set $100^{\prime}$ C1A Cement plug @ $745^{\prime}$, to $645^{\prime}$.( Salt Sand).
9. TOOH w/ tubing, Gel Hole @ 645' to 46I'.
10. TOOH w/ Tubing" @ 461'; Set 100' C1A Cement Plug @ $461^{\prime}$ to $361^{\prime}$. ( $7^{\prime \prime}$ css pt,)
11. TOOH w/ tubing, Gel Hole @ $361^{\prime}$ to $250^{\prime}$.
12. TOOH w/ tubing, Free Point 7 " css, cut 7 "css @ Free Point, TOOH w/7"csg. Set a $100^{\prime}$ C1A Cement Plug 50' In/Out of cut. Perf all Salt Sand top, FW, Gas, Oil and Coal shows below the 7 " cut. Do not omit any plugs shown below.
13. TIH w/ tubing @ $250^{\prime}$, Set $250^{\prime}$ C1A Cement Plug to Surface. ( $95 / 8^{\prime \prime} \operatorname{csg} \mathrm{pt}, 13^{\prime \prime} \operatorname{csg}$ pt).
14. TIH w/ tubing @ $250^{\prime}$, Set $250^{\prime}$
15. Top off as needed
16. Set monument to WV DEP specs
17. Reclaim Location to WV DEP Sp
18. THH w/ tubing @ $250^{\prime}$, Set $250^{\prime}$
19. Top off as needed
20. Set monument to WV DEP specs
21. Reclaim Location to WV DEP Sp
22. Reclaim Location to WV DEP Specifications.

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NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL. CHANGE, ETC. 2) THE WELLL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

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EQUITABLE PRODUCTION COMPANY WR-35 COMPLETION REPORT - Attachment Well Treatment Summary


WW-4-A
Revised 6/07

1) Date:
2) Operator's Well Number WV 508086(Lawson Hamilton)
3) API Well No.: $\frac{47}{\text { State }} \frac{019}{\text { County }}{ }^{-} \frac{00931}{\text { Permit }}$

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL \& GAS NOTICE AND APPLICATION TO PLUG AND ABANDON WELL
4) Surface Owner(s) to be served:
(a) Name Address
ACIN LLC
$\frac{\text { SLI }}{\text { 5260 Irwin Road }}$

(c) Name Address
6) Inspector

Address
Telephone
(b) Name Address
5) (a) Coal Operator:

(c) Coal Lessee with Declaration

Name
None
Address

August 28, 2013

## ———

 -$\qquad$

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 Division 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.


The Office of Oil \& Gas processes your personal information, such as name, address and phone number, asparifi our regulatory gqutues. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as neegled toे comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information-lyot have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.govemene

Page $\qquad$ of CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE


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 Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms 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 or Printed)
Victoria Roark
Company Official Title


Permitting Supervisor-WV
Subscribed and sworn before me this


My Commission Expires


2013

## LEGEND

Area II
Seed Type
Orchard Grass
15
Alsike Clover 5

| Seed Type | Ibs/acre |
| :--- | :---: |
| Orchard Grass | 15 |
| Alsike Clover | 5 |


| Seed Type | Ibs/acre |
| :--- | :---: |
| KY-31 | 40 |
| Alsike Clover | 5 |
| Annual Rye | 15 |
|  |  |

## ATTACH:

Drawings) of road, location, pit and proposed area for land application.
Photocopies section of inyólved 7.5 topographic sheet.
Plan approved by:

Comments:



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

API: $\qquad$ 47-019-00931 WELL NO.: WV 508086 (Lawson Hamilton \#508086).

FARM NAME: _Lawson Hamilton
RESPONSIBLE PARTY NAME:
EQT Production Company
COUNTY: Fayette DISTRICT: Valley

QUADRANGLE: $\qquad$ Pax $7.5^{\prime}$

SURFACE OWNER: ACIN, LLC.
ROYALTY OWNER: New River Estates, LLC, et al. $-$

UTM GPS NORTHING: $\qquad$ 4205023 .

UTM GPS EASTING: $\qquad$ GPS ELEVATION: $\qquad$
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, Zane: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.
2. Accuracy to Datum $\mathbf{3 . 0 5}$ meters
3. Data Collection Method:

Survey grade GPS __ : Post Processed Differential Real-Time Differential
Mapping Grade GPS $X$ : Post Processed Differential $X$ Real-Time Differential
4. Letter size copy of the topography map showing the well location. 1 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.


# West Virginia Department of Environmental Protection Office of Oil and Gas <br> WELL LOCATION FORM: GPS 

API: $\qquad$ WELL NO.: WV 508086 (Lawson Hamilton \#508086).

FARM NAME: Lawson Hamilton
RESPONSIBLE PARTY NAME: EQT Production Company .

COUNTY: $\qquad$
$\qquad$ DISTRICT: Valley .

QUADRANGLE: $\qquad$
SURFACE OWNER: $\qquad$ SUR $\stackrel{\stackrel{\sim}{2}}{\underset{0}{\text { AICN, LLD }}}$


ROYALTY OWNER: New River Estates, LLC. et al.
UTM GPS NORTHING: $\qquad$ 4205023 .

UTM GPS EASTING: 471467 . . GPS ELEVATION: 380 m ( 1247 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 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 $\qquad$ : Post Processed Differential $\qquad$


Mapping Grade GPS $\quad \mathrm{X}$ _ : Post Processed Differential $\quad \underline{X}$
Real-Time Differential $\qquad$
4. Letter size copy of the topography map showing the well location $\in \mathbb{C E} V \mathbb{V} D$ I the undersigned, hereby certify this data is correct to the best of my knowledge and Oil \& GaS belief and shows all the information required by law and the regulations issuedaland prescribed by the Office of Oil and Gas.


[^0]


[^0]:    Date

