



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

June 18, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8100834, issued to NEW RIVER ENERGY CORPORATION, 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: A-56, GW-1998

Farm Name: ROWLAND LAND CO., LTD.

API Well Number: 47-8100834

Permit Type: Plugging

Date Issued: 06/18/2015

Promoting a healthy environment.

06/19/2015

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.

1) Date March 31, 2015
2) Operator's
Well No. Rowland A-56 (GW 1998)
3) API Well No. 47-081 - 00834

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 ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X
- 5) Location: Elevation 1560.9 Watershed Hazy Creek, Marsh Fork, Big Coal River
District Marsh Fork County Raliegh Quadrangle Pilot Knob 7.5'
- 6) Well Operator New River Energy Corporation 7) Designated Agent Roger Whited
Address PO Box 1020 Address 8165 Elizabeth Pike
Waynesburg, PA 15370 Elizabeth, WV 26143
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gary Kennedy Name Patchwork Oil & Gas, LLC
Address Po Box 268 Address 8165 Elizabeth Pike
Nimitz, WV 25978 Elizabeth, WV 26143

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

See attached work order and schematic for details.

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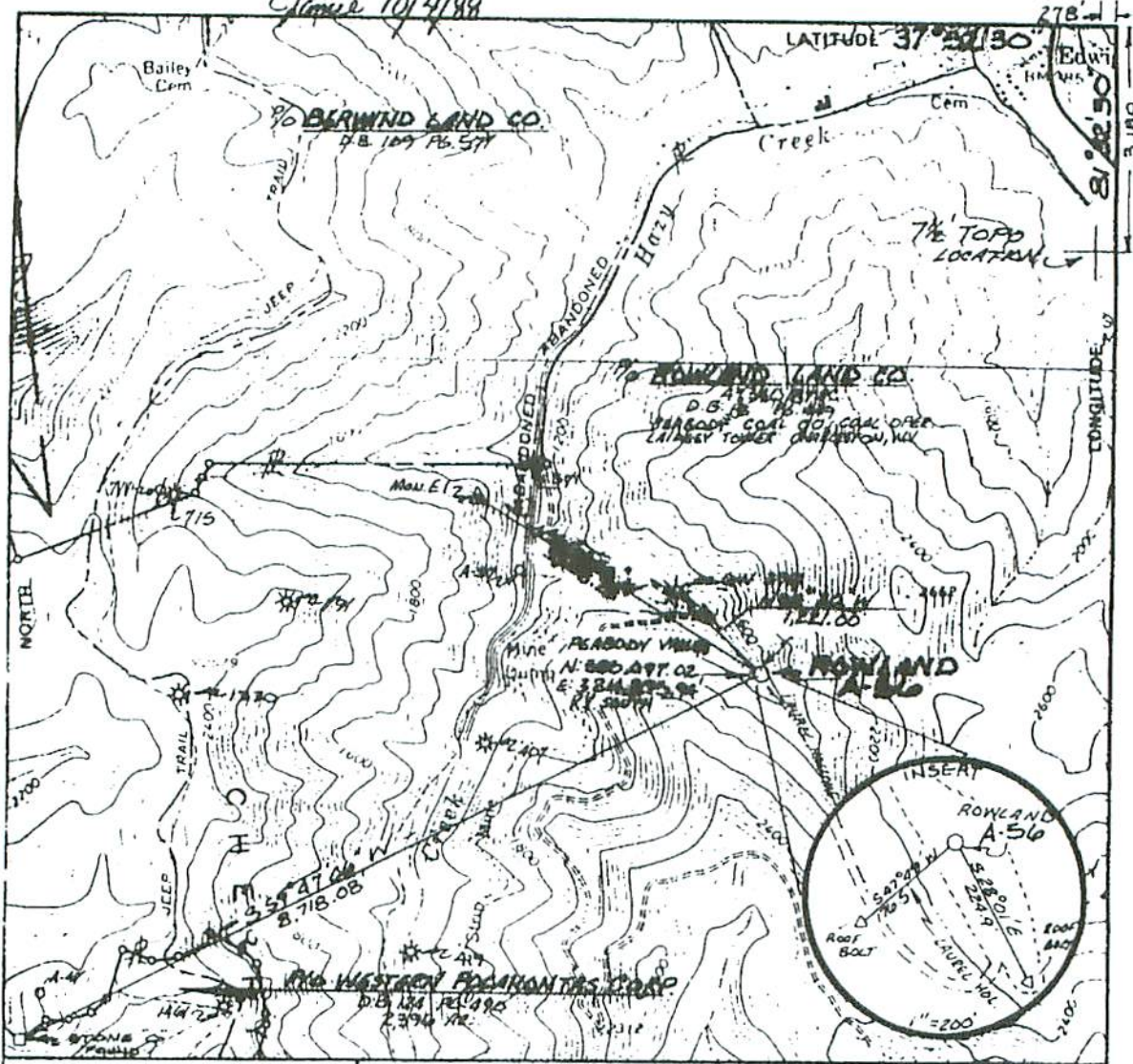
Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector *Gary Kennedy* Date 4/10/15

06/19/2015

Lowest

Janice 10/4/88



KDB-1-G
 SCALE 1"=1500'
 MINIMUM DEGREE OF ACCURACY 1:2500'
 ELEVATION MON E2 ELEV. 1964.75
 PEABODY COAL CO. DATUM

THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAN 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 DEPARTMENT OF MINES.
 SIGNED: *Samuel D. Rice*
 HPI 115 837

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE 7-28
 OPERATOR'S WELL NO. 47
 API WELL NO. 081
 STATE OF WV 2015

MARSH FORK
 PILOT KNOB
 ROWLAND LAND CO
 ROWLAND LAND CO
 WV 389

DEVLONIAN SHALE
 OXY USA Inc.
 P.O. BOX 873
 CHARLESTON, WV 25323



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DELBERT G. OLIVER
 P.O. BOX 873
 CHARLESTON, WV 25323

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WR-35

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17-Aug-88
API # 47- 81-00834

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
Form name:

Well Operator's Report of Well Work

ROWLAND LAND COMPANY LTD, Operator Well No.: A-56, GW-1998

LOCATION: Elevation: 1558.90 Quadrangle: PILOT KNOB

District: MARSH FORK County: RALEIGH
Latitude: 3200 Feet South of 37 Des. 52Min. 30 Sec.
Longitude 250 Feet West of 81 Des. 32 Min. 30 Sec.

Company: OXY USA, INC.
P. O. BOX 873
CHARLESTON, WV

Agent: DELBERT G. OLIVER

Inspector: RODNEY G. DILLON

Permit Issued: 08/21/88
Well work Commenced: 10-1-88
Well work Completed: 5-18-89

Verbal Plussings

Permission granted on: _____

Rotary Cable _____ Ris _____

Total Depth (feet) 6085'

Fresh water depths (ft) _____

Salt water depths (ft) _____

Is coal being mined in area (Y/N)?

Coal Depths (ft): 60; 158

Casings & Tubing Size	Used in Drilling	Left in Well	Cement Fill Cu. Ft.
20"	15'	15'	
13-3/8"	84'	84'	
9-5/8"	811'	811'	TOC Surface
7"	2616'	2616'	TOC Surface
4-1/2"	6077'	6077'	TOC 2030'
2-3/8"		5957'	

OPEN FLOW DATA

Producing formation: Devonian Shale Pay zone depth (ft) 3584-6010'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 112 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 525 psid (surface pressure) 96

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psid (surface pressure) after _____

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

Delbert G. Oliver

For: OXY USA, INC.

By: Delbert G. Oliver

Date: 6-2-89

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ROWLAND A-56

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.:

Rhinestreet (5618-6010') Perforated with 63 holes. Fracture stimulated with 50,000# sand.
Lower Huron (4530-5151') Perforated with 69 holes. Fracture stimulated with 50,000# sand.
Upper Devonian (3584-4322') Perforated with 68 holes. Fracture stimulated with 50,000# sand.

WELL LOG

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
Sand	0	60
Coal	60	64
Sand	64	86
Siltstone	86	158
Coal	158	162
Sand	152	231
Siltstone	231	314
Sand	314	351
Siltstone	351	554
Sand	554	673
Siltstone	673	717
Sand	717	932
Siltstone	932	1047
Sand	1047	1268
Siltstone	1268	1307
Sand	1307	1377
Siltstone	1377	1425
Sand	1425	1496
Siltstone	1496	1692
Sand	1692	1760
Siltstone	1760	1861
Ravenclyff	1861	1950
Siltstone	1950	2014
Upper Maxton	2014	2050
Siltstone	2050	2202
Middle Maxton	2202	2271
Siltstone	2271	2405
Lower Maxton	2405	2418
Siltstone	2418	2484
Little Lime	2484	2543
Pencil Cave	2543	2559
Big Lime	2559	2924
Siltstone	2924	2998
Upper Weir	2998	3095
Lower Weir	3095	3158
Shale	3158	3383
Sunbury	3383	3392
Devonian Shale	3392	3584
Gordon	3584	3595
Devonian Shale	3595	4527
Lower Huron	4527	5159
Java	5159	5656
Rhinestreet	5656	6026
Marcellus	6026	6081
Onondaga	6081	

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WORK ORDER

Rowland A-56

47-081-00834

PROPOSED PLUGGING PROCEDURE

1. Prepare plugging permit application.
2. Certify to surface and coal owners.
3. Certify to designated State inspector for signature.
4. Once all signatures are obtained, copy for our records and certify to Jeff at the State Office for approval.
5. Receive plugging permit good for 2 years.
6. Notify the designated State inspector 24 hours prior to commencing operations.
7. Take equipment to location and begin prepping for plug.
8. Rig up
9. Verify total depth of 4 1/2 @ 46077'. *TD-6085'*
10. Attempt to clean out well bore to original depth, if needed.
11. Run tubing to bottom of 4 1/2 at 6077'. Set first plug with 36 sacks of Class A cement with no more than 3% CaCl₂ and no other additives from 6077' up to 5568'. (Bottom, Pay zone)
12. Pull tubing back up, wait 8 hours.
13. Run in tag plug, add additional cement if needed.
14. Run 1 sacks of 6% Bentonite gel from 5568' up to 5201'.
15. Pull tubing up to 5201' set plug with 52 sacks of Class A cement with no more than 3% CaCl₂ and no other additives from 5201' up to 4480'. (Pay)
16. Pull tubing back up, wait 8 hours.
17. Run in tag plug, add additional cement if needed.
18. Run 1 sacks of 6% Bentonite gel from 4480' up to 4372'.

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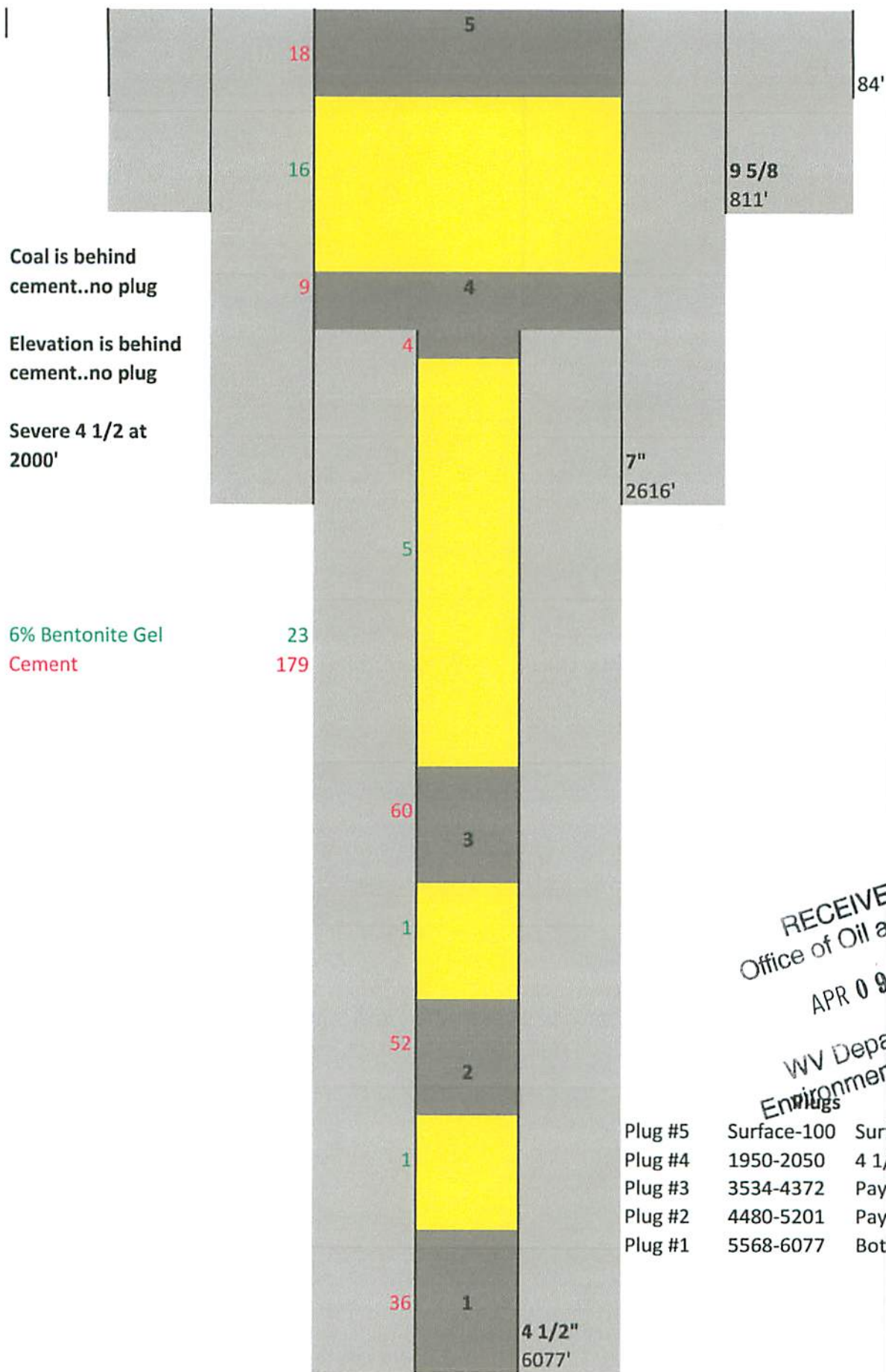
20. Pull tubing up to 4372', set plug with 60 sacks of Class A cement with no more than 3% CaCl₂ and no other additives from 4372' up to 3534'. (Pay)
21. Pull tubing back up, wait 8 hours.
22. Run in tag plug, add additional cement if needed
23. Run 5 sacks of 6% Bentonite gel from 3534' up to 2050'
24. Look for free point of 4 1/2 at 2000'
25. Run to 2050', set plug with 13 sacks of Class A cement with no more than 3% CaCl₂ and no other additives from 2050' to 1950'.
26. Run 16 sacks of 6% Bentonite gel from 1950' up to 100
27. Pull tubing up to 100', set plug with 18 sacks of Class A cement with no more than 3% CaCl₂ and no other additives from 100' up to surface. (Surface)
28. Solidify pit if necessary with more cement and lime, then bury.
29. Set 6" x 12.5" steel pipe with concrete with 1/2" API identification.
30. Rig down, and move equipment out.
31. Reclaim location
32. Prepare WR-34 & WR-38 for permit release.

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Rowland A-56
47-081-00834



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[Handwritten signature]

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SURFACE OWNER WAIVER

Operator's Well
Number

Rowland A-56 (GW 1998)

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (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

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) 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 adequate 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.

Comments must be in writing. 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.

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 Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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 PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name _____
Signature		By _____
		Its _____
		Date _____

Signature

Date 06/19/2015

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API No. 47-081-00834

Farm Name Rowland

Well No. A-56 (GW 1998)

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____

By: _____

Its _____

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1) Date: March 31, 2015
2) Operator's Well Number
Rowland A-56 (GW 1998)
3) API Well No.: 47 - 081 - 00834

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

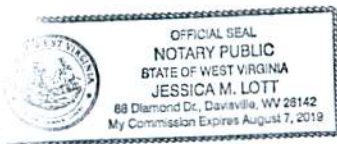
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Rowland Land Company, LLC</u>	Name <u>None</u>
Address <u>405 Capital St. Ste 609</u>	Address _____
<u>Charleston, WV 25301</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Rowland Land Company, LLC</u>
_____	Address <u>405 Capital St. Ste 609</u>
(c) Name _____	<u>Charleston, WV 25301</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>Po Box 268</u>	Name <u>Boone East Development</u>
<u>Nimitz, WV 25978</u>	Address <u>PO Box 271</u>
Telephone <u>304-382-8402</u>	<u>Julian, WV 25529</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	<u>New River Energy Corporation</u>
By:	<u>[Signature]</u>
Its:	<u>Designated Agent</u>
Address	<u>8165 Elizabeth Pike</u>
	<u>Elizabeth, WV 26143</u>
Telephone	<u>304-275-4446</u>

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Subscribed and sworn before me this 1 day of April, 2015
[Signature] Notary Public
My Commission Expires August 7, 2019

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 depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT 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 New River Energy Corporation OP Code 309919

Watershed Hazy Creek, Marsh Fork, Big Coal River Quadrangle Pilot Knob 7.5'

Elevation 1560.9 County Raleigh District Marsh Fork

Description of anticipated Pit Waste: Fluids associated with plugging procedures

Will a synthetic liner be used in the pit? Yes 20mil [Signature]

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 _____)

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) Roger L. White

Company Official Title Designated Agent

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Subscribed and sworn before me this 1 day of April, 2015

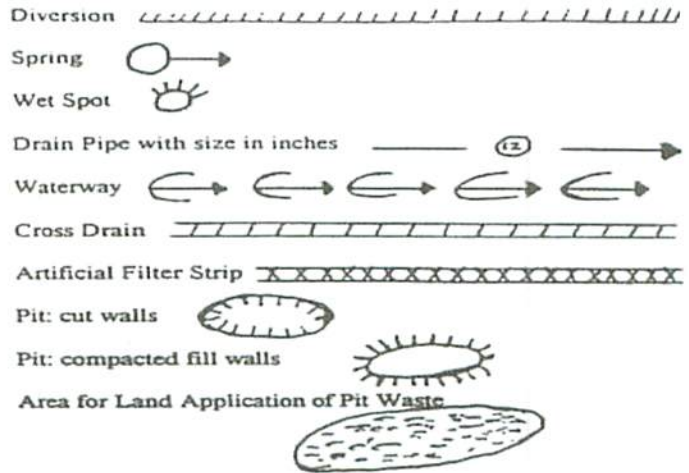
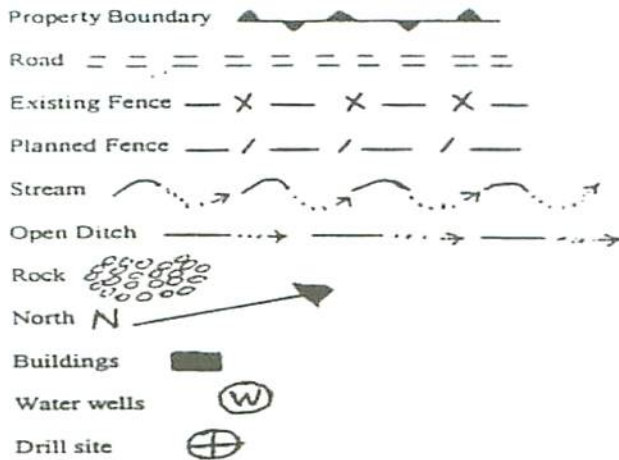
[Signature]

Notary Public

My commission expires August 7, 2019



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1+/- Prevegetation pH 5.8
 Lime 3 Tons/acre or to correct to pH 6.5
 Fertilizer (10-20-20 or equivalent) 1/3 ton lbs/acre (500 lbs minimum)
 Mulch 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard grass	15		
Clover	5		

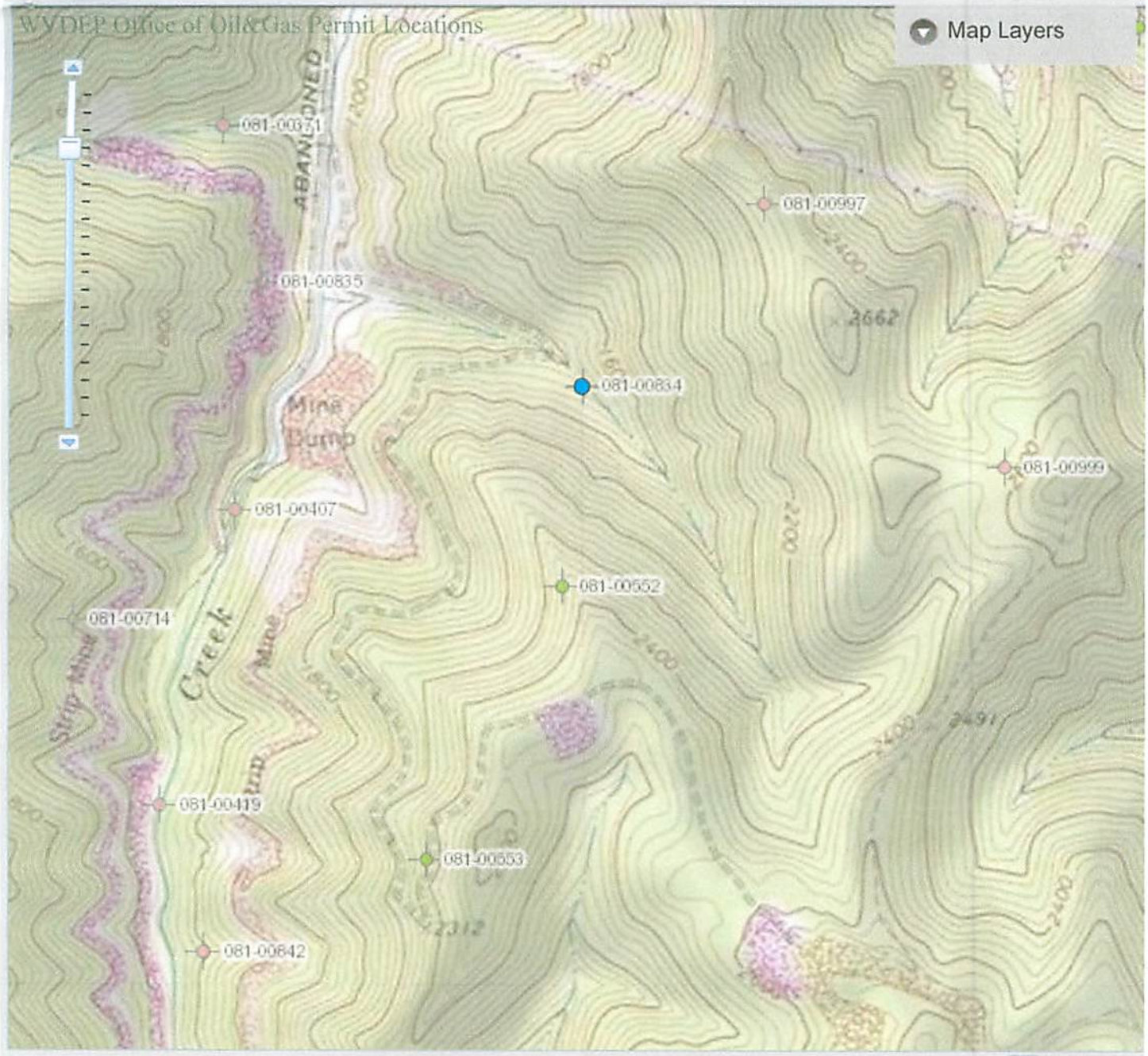
Attach:
 Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Henry Kennedy*
 Comments: *Need clearer map*

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Title: *Inspector* Date: *4/10/15*
 Field Reviewed? () Yes () No



47-081-00834

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APR 17 2015

06/19/2015





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

API: 47-081-00834 WELL NO.: A-56 (GW 1998)

FARM NAME: Rowland Land Company

RESPONSIBLE PARTY NAME: New River Energy Corporation

COUNTY: Raleigh DISTRICT: Marsh Fork

QUADRANGLE: Pilot Knob 7.5'

SURFACE OWNER: Rowland Land Company

ROYALTY OWNER: Rowland Land Company, et al

UTM GPS NORTHING: 4191195

UTM GPS EASTING: 452195 GPS ELEVATION: 1560.9

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, 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 X : Post Processed Differential X
Real-Time Differential ____

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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.

[Signature] Office Manager 03/31/2015
Signature Title Date