



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: 47-8100552, 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-41
Farm Name: ROWLAND LAND CO.

API Well Number: 47-8100552

Permit Type: Plugging

Date Issued: 06/18/2015

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, 20 15
2) Operator's
Well No. Rowland A-41 (GW 1844)
3) API Well No. 47-081 - 00552

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 ___ / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow ___

5) Location: Elevation 2463 Watershed Hazy Creek
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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Environmental Protection

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

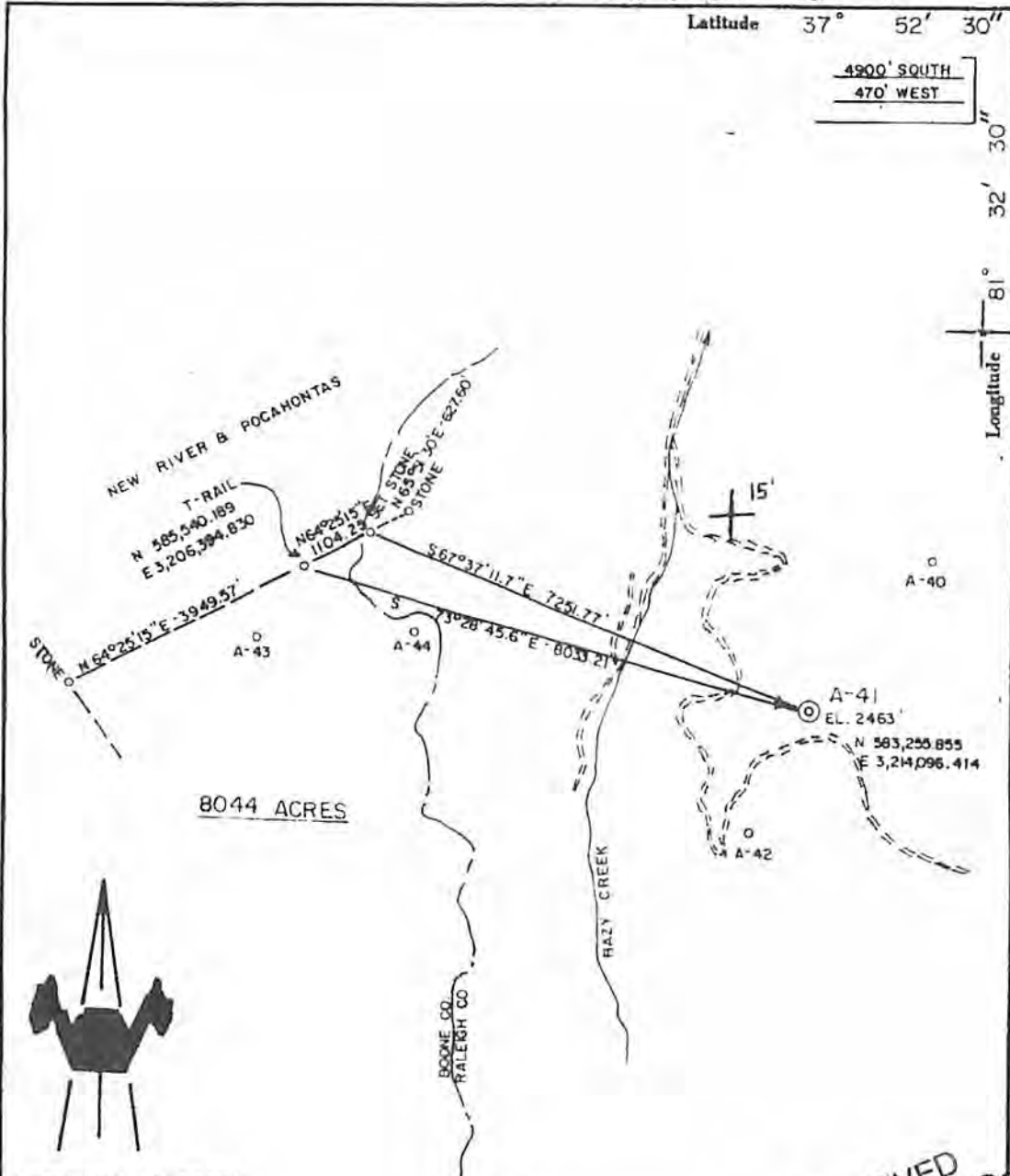
Work order approved by inspector *Gary Kennedy* Date 4/10/15

06/19/2015

6-4-5

K1 117 80 (15')

37° 55'



ACCURACY: 1'/2500'

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill
- Other

Formation _____
Est. Depth _____

Source of Elevation KNOB 2662'

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 1 of the regulations of the oil and gas section of the mining laws of West Virginia.

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Company CITIES SERVICE COMPANY
 Address CHARLESTON, WV
 Surface Owner ROWLAND LAND COMPANY
 Mineral Owner " " "
 Well No. A-41 Acres 8044
 Elevation 2463' Bald Knob 15'
 Quadrangle PILOT KNOB Series 7.5'
 County RALEIGH District MARSH FORK
 Date 6/4/80 Scale 1" = 2000'

STATE OF WEST
DEPARTMENT OF
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
47 - 081 - 0552
STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.
Engineer CHET WATERMAN
Engineer's Registration No. 3788 File No. 80-336

4250' Weir

06/19/2015



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DEPARTMENT OF MINES

APR 20 1981

OIL & GAS DIVISION
DEPT. OF MINES
WELL RECORD

Rotary Oil _____
Cable _____ Gas _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Pilot Knob
Permit No. 47-081-0552

Company Cities Service Company
Box 873, Charleston, WV 25323
Address _____
Farm Rowland Land Co. Acres 8044
Location (waters) Hazy Creek
Well No. "A" #41, GW-1844 Elev. 2463
District Marsh Fork County Raleigh
The surface of tract is owned in fee by Rowland
Land Co., 1033 Quarrier Street
Address Charleston, WV 25301
Mineral rights are owned by same
Address _____
Drilling Commenced 11-15-80
Drilling Completed 3-30-81
Initial open flow 94 MCF/D cu. ft. - _____ bbls.
Final production unk cu. ft. per day _____ bbls.
Well open 4-1/2 hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 16" 65#	32'	32'	to surface ✓
13-10" 11-3/4 42#	1238'	1238'	to surface ✓
9 5/8			
8 5/8" 24#	1906'	1906'	to surface ✓
7			
5 1/2			
4 1/2" 10.5#	4265'	4265'	163 cu. ft. ✓
3			
2-3/8" 4.6#	4144'	4144'	
Liners Used			

Well treatment details:
Lower Weir (4083-4115) Acidized with 1000 gal. 15% HCl Balled out. Fraced with X-linked gel system using 30,000# 80/100 and 50,000# 20/40
Weir (4075-4079) Acidized with 1000 gal. 15% HCl. Fraced with 15,000# 80/100 and 60,000# 20/40 in X-linked gel system

Attach copy of cementing record.

Coal was encountered at 108-116; 275-285; 896-909; 951-954; 1128-1132; 1538-1541' Inches
Fresh water None Feet _____ Salt Water _____ Feet _____
Producing Sand Upper Weir Depth 4075-4115

Formation	Color	Hard or Soft	Top Feet	Bottom Feet
Shale			0	16
Coal			16	22
Sand			22	108
Coal			108	116
Shale			116	120
Sand			120	230
Shale			230	240
Sand			240	255
Shale			255	275
Mtn Break open			275	285
Sand			285	375
Shale			375	435
Sand			435	795
Shale & Sand			795	896
Poss. coal			896	909
Sand			909	951
Poss. coal			951	954
Shale			954	967
Poss. coal			967	970
Sand			970	1060
Shale			1060	1135
Sand			1135	1250
Shale			1250	1280
Sand			1280	1325
Shale			1325	1338

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Lost circulation - go to foam

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Coal			1338	1341		
Shale			1341	1587		
Sand			1587	1615		
Shale			1615	1690		
Sand			1690	1735		
Shale			1735	1750		
Sand & Shale			1750	1785		
Sand			1785	1902		
Shale			1902	1965		
Sand			1965	1995		
Shale			1995	2020		
Sand			2020	2360		
Shale			2360	2385		
Sand			2385	2515		
Shale			2515	2660		
Sand			2660	2735		
Shale			2735	2775		
RR & Sh			2775	2810		
Sand			2810	2895		
Shale			2895	2940		
RR & Sh			2940	2970		
Sand			2970	3035		
RR & Sh			3035	3095		
Shale			3095	3175		
Sand			3175	3285		
Shale			3285	3335		
Little Lime			3335	3370		
Shale RR			3370	3470		
Big Lime			3470	3915		
Inj Sand			3915	3935		
Shale			3935	3980		
1/2 Weir Sand			3980	4000		
Shale			4000	4050		
Weir			4050	4130		
Shale			4130	4298	T.D.	

Ck. gas none at 2880'
 Ck. gas none at 3200'
 Ck. gas none at 3890'
 Ck. gas none at 4047'
 Ck. gas none at 4235'

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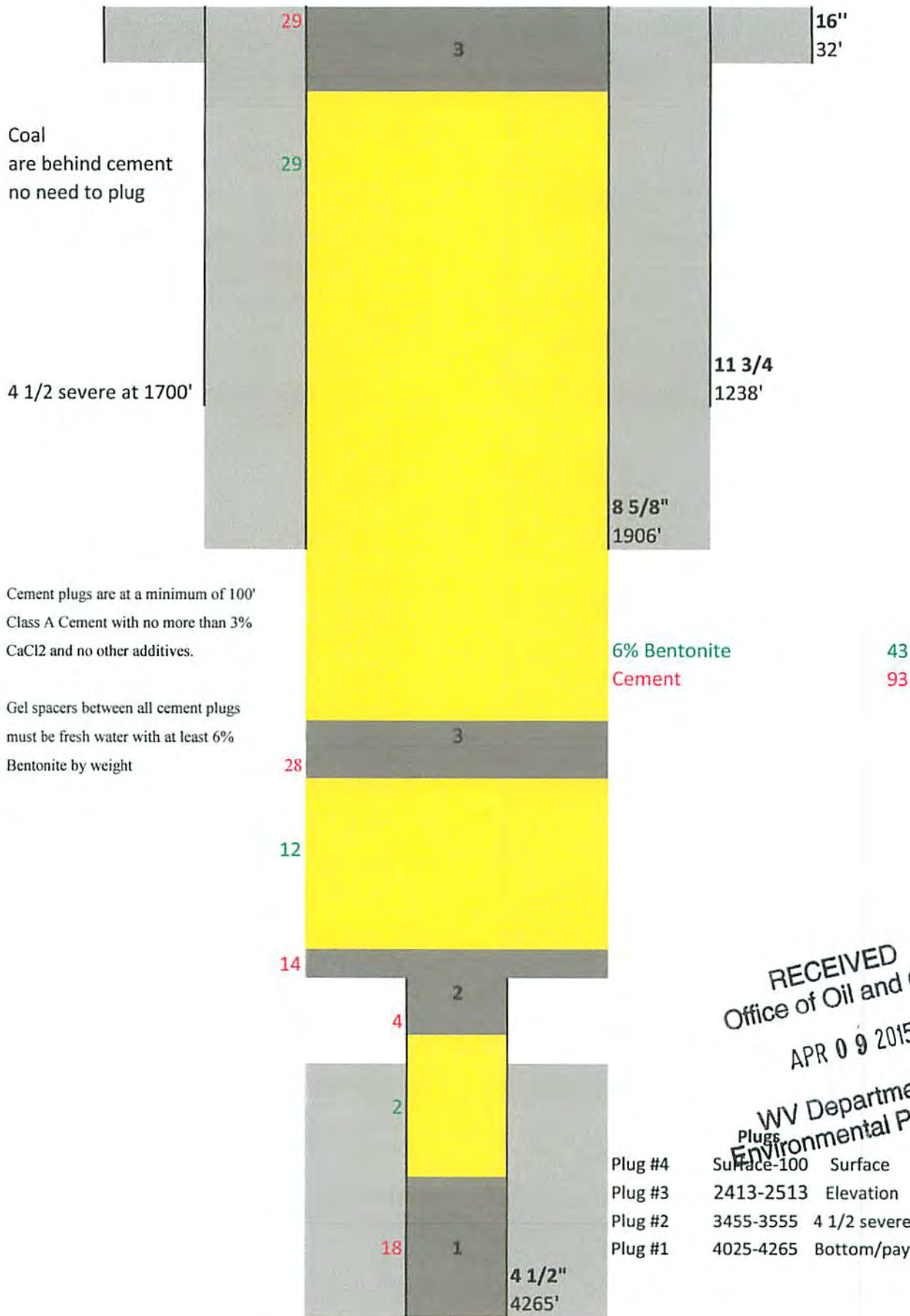
WPK

Date April 15, 1981

APPROVED Cities Service Company Owner 06/19/2015

By: Paul D. Phillips
 Paul D. Phillips, Operations Manager

Rowland A-41
47-081-00834



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WORK ORDER

Rowland A-41

47-081-00552

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 @ 4265'. *4298'*
10. Attempt to clean out well bore to original depth, if needed.
11. Run tubing to bottom of 4 1/2 at 4265'. Set first plug with 18 sacks of Class A cement with no more than 3% CaCl₂ and no other additives from 4265' up to 4025'. (Bottom, Pay zone)
12. Pull tubing back up, wait 8 hours.
13. Run in tag plug, add additional cement if needed.
14. Run 4 sacks of 6% Bentonite gel from 4025' up to 3555'.
15. Pull back and severe 4 1/2 at approximately 3505', pull salvage.
16. Pull tubing in to 3355' set first plug with 18 sacks of Class A cement with no more than 3% CaCl₂ and no other additives from 3555' up to 3455'.
17. Pull tubing back up, wait 8 hours.
18. Run in tag plug, add additional cement if needed.
19. Run 12 sacks of 6% Bentonite gel from 3455' up to 2513'.

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20. Pull tubing up to 2513', set plug with 28 sacks of Class A cement with no more than 3% CaCl₂ and no other additives from 2513' up to 2413'. (elevation)

21. Pull tubing back up, wait 8 hours.

22. Run in tag plug, add additional cement if needed

23. Run 29 sacks of 6% Bentonite gel from ~~2413'~~^{1850'} up to 100'

24. Pull tubing up to 100', set plug with 29 sacks of Class A cement with no more than 3% CaCl₂ and no other additives from 100' to surface

25. Solidify pit if necessary with more cement and lime, then bury.

26. Set 6" x 12.5" steel pipe with concrete with 1/2" API identification.

27. Rig down, and move equipment out.

28. Reclaim location

29. Prepare WR-34 & WR-38 for permit release.

Run Gel 2413 - 1950'
1950 - 1850' 100' cement
plus
(across 8 5/8" shoe)
GCS
6/18/15

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[Handwritten signature]

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SURFACE OWNER WAIVER

Operator's Well
Number

Rowland A-41 (GW 1844)

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.

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VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of the Application and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey map of the well site.

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

06/16/2015

WW-4B

API No. 47-081-00552

Farm Name Rowland

Well No. A-41 (GW 1844)

**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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WV Department of
Environmental Protection

06/19/2015

1) Date: March 31, 2015
2) Operator's Well Number
Rowland A-41 (GW 1844)
3) API Well No.: 47 - 081 - 00552

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

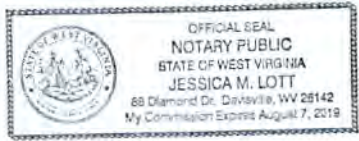
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Rowland Land Company, LLC</u>	Name <u>None</u>
Address <u>405 Capital St. Ste 609</u> <u>Charleston, WV 25301</u>	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Rowland Land Company, LLC</u>
(c) Name _____	Address <u>405 Capital St. Ste 609</u> <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 New River Energy Corporation
 By: [Signature]
 Its: Designated Agent
 Address 8165 Elizabeth Pike
Elizabeth, WV 26143
 Telephone 304-275-4446

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Office of Oil and Gas
APR 09 2015

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 Quadrangle Pilot Knob 7.5'

Elevation 2463 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 *AK*

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 *Roger L. Whited*

Company Official (Typed Name) Roger L. Whited

Company Official Title Designated Agent

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Department of Environmental Protection
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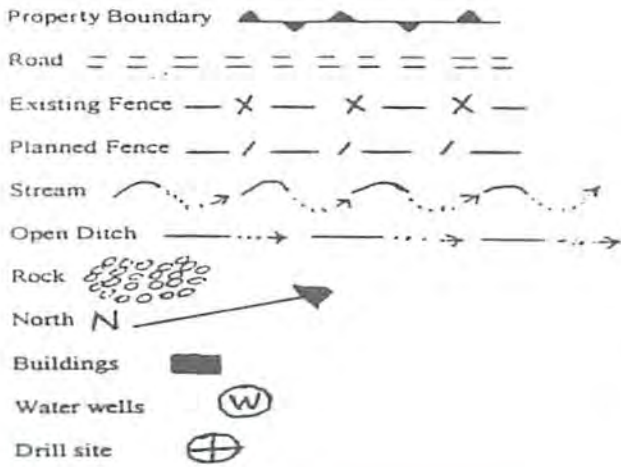
Subscribed and sworn before me this 1 day of April

J. M. Lott

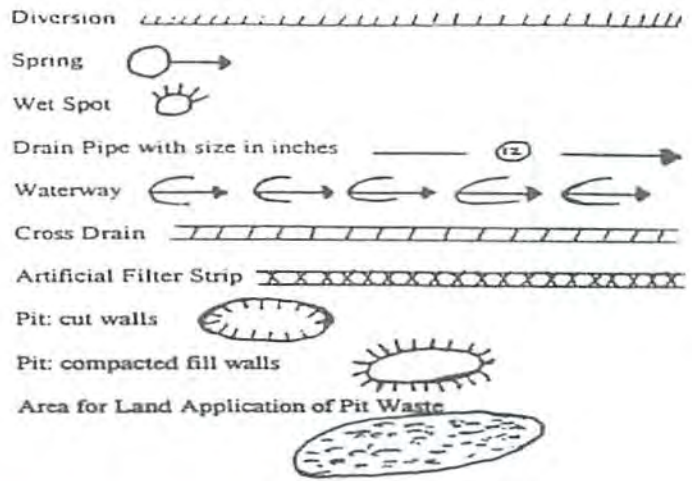
Notary Public

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

Seed Type	Area I lbs/acre	Seed Type	Area II 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.

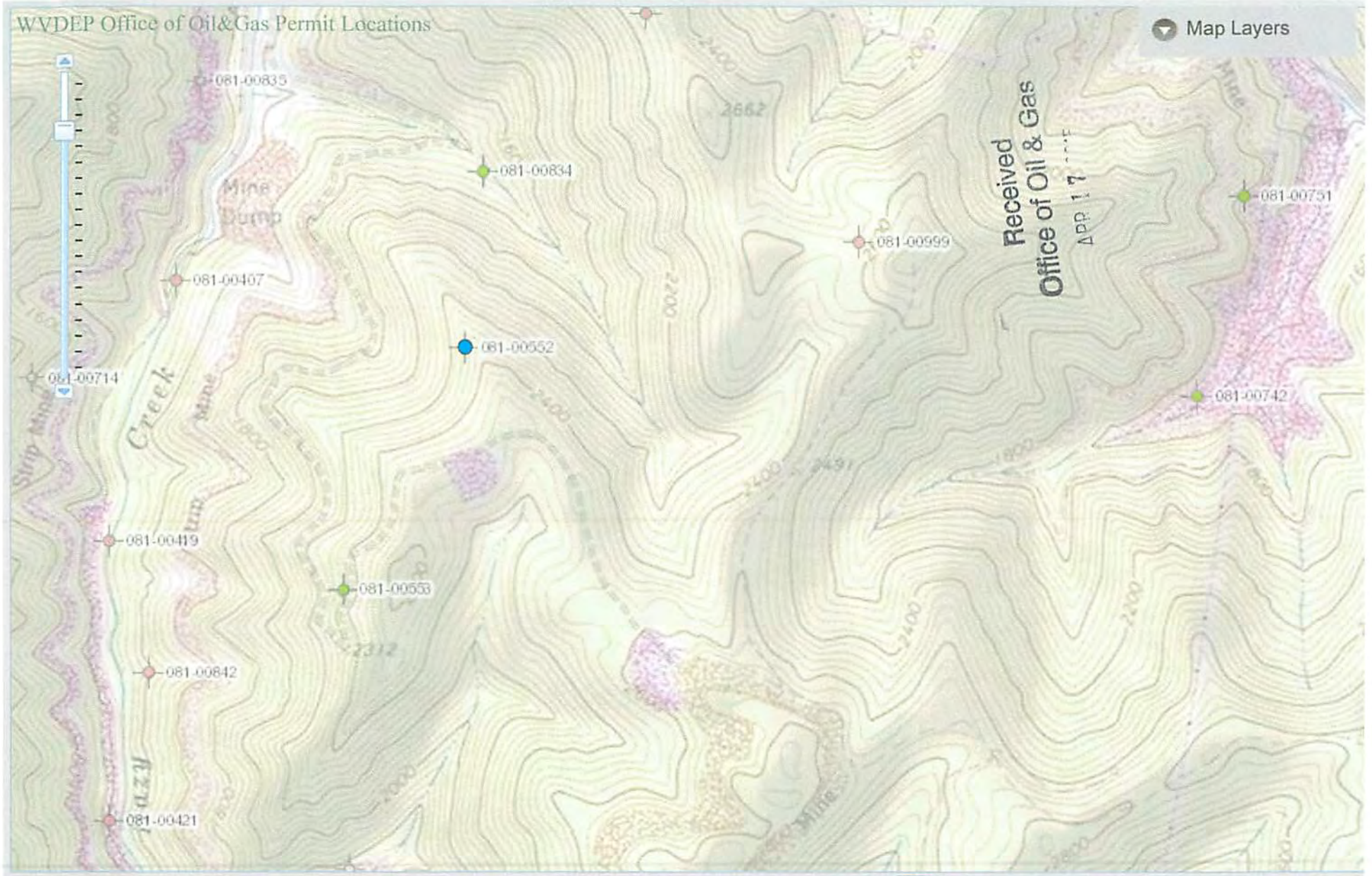
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Plan Approved by: Ally Kennedy

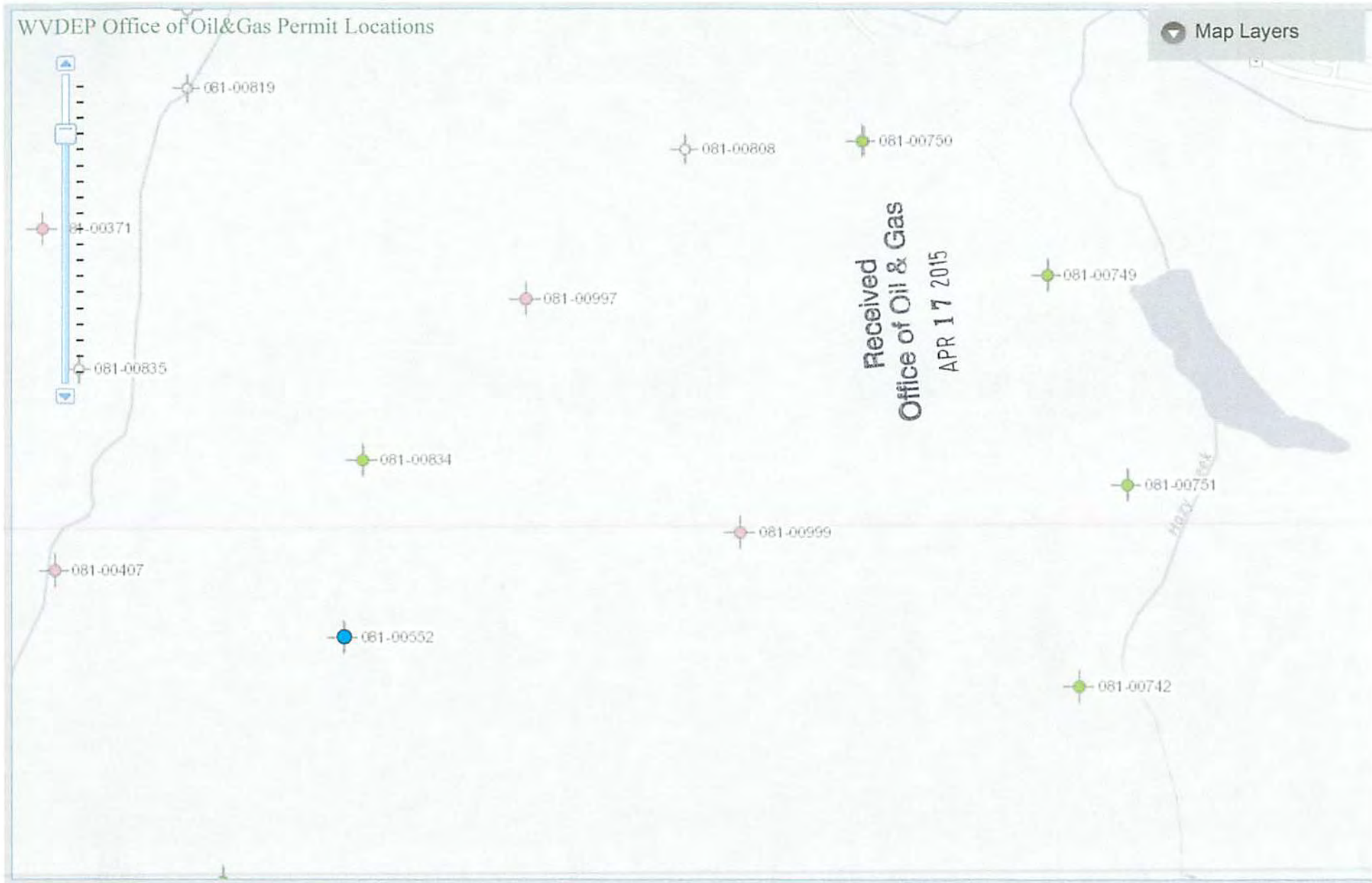
Comments: Need a better map of Miss utility directions.

Title: Inspector Date: 4/10/15

Field Reviewed? () Yes () No



Attribute Search Results Legend Location Search About



Attribute Search | Results | Legend | Location Search | About

WW-7
8-30-06



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

API: 47-081-00552 WELL NO.: A-41 (GW 1844)
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: 4190729
UTM GPS EASTING: 452144 GPS ELEVATION: 2463

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 X : Post Processed Differential X
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.


Signature

Office Manager

Title

03/31/2015

Date

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