



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

December 08, 2014

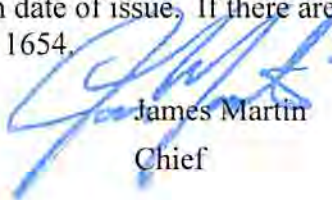
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1500482, issued to RANGE RESOURCES - PINE MOUNTAIN, INC., 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: 8130
Farm Name: ELK RIVER COAL
API Well Number: 47-1500482
Permit Type: Plugging
Date Issued: 12/08/2014

Promoting a healthy environment.

12/12/14

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 October 15, 2014
2) Operator's
Well No. ERC&L 8130
3) API Well No. 47-015 - 00452

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 1070' Watershed Buffalo Creek
District Buffalo County Clay Quadrangle Swandale 7.5'
- 6) Well Operator Range Resource - Pine Mountain Inc. 7) Designated Agent Geary Legg
Address P.O. Box 2136 Address 158 Big Sandy Road
Abingdon, VA 24212 Newton, WV 25266
- 8) Oil and Gas Inspector to be notified Name Ed Gainer 9) Plugging Contractor
Address P.O. Box 821 Name To be determined upon permit approval
Spencer, WV 25276 Address _____

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

- Casing: TD - 1524' ✓
- 13" 21
- 10" 173 50 sks, CTS
- 8 1/4" 1039
- 6 5/8" 1503
- 3 1/2" 1524

RUN GEL TO BOTTOM. ENOUGH TO COVER 1ST PLUG.
 Release packer & POH w/ 3" or free point & cut
 (6 5/8") Release packer & POH w/ 5/8" or free point & cut
 Plug No. 1 ~~1500-1400~~ 1500' - 1400'
 Plug No. 2 ~~1300-1100~~ 1150'
 Free point, cut & pull 8 1/4" casing, est 500
 Plug No. 3 500-400
 Plug No. 4 300-0

6% gel between cement plugs

Received
Office of Oil & Gas
OCT 31 2014

SET MONUMENT.

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

Work order approved by inspector  Date 10/23/14

1500482P



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. CIA-482

Oil or Gas Well "GAS"
(KIND)

Company Pittsburgh & West Va Gas Company.
Address Clarksburg, West Va.
Farm Elk River Coal & Lumber Co. Acres 77,198
Location (waters) Summersville N/W. 2-4
Well No. 8130 Elev. 1067' L
District Buffalo County Clay
The surface of tract is owned in fee by Elk River C.&L.Co.
Dundon, Clay County. Address West Va.
Mineral rights are owned by Elk River Coal & L. Co.
Dundon, Clay County. Address West Va.
Drilling commenced October 4th, 1947
Drilling completed November 27th, 1947
Date Shot _____ From _____ To _____
With _____
Open Flow 11 /10ths Water in _____ Inch
_____ /10ths Merc. in 3" Inch
Volume 1,169,000 Cu. Ft.
Rock Pressure 737 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			<u>Anchor</u>
18	<u>21'</u>	<u>21'</u>	
10	<u>173'</u>	<u>173'</u>	Size of <u>8-1/4" X</u>
8 1/4	<u>1039'</u>	<u>1039'</u>	<u>6-5/8"</u>
6 1/2	<u>1503'</u>	<u>1503'</u>	Depth set <u>1474'</u>
5 3/16			<u>1-6-5/8" Shoe.</u>
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 10 SIZE 173 No. Ft. 10-12-47 Date
50 Bags Cement - Cemented from 173' to surface.

COAL WAS ENCOUNTERED AT 60 FEET 60 INCHES
265 FEET 60 INCHES 457 FEET 36 INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Travel	Brown		0	18			
Slate	Dark	Soft	18	24			
Sand	White	Hard	24	60	Water	30'	Hole full.
Coal	Black	Soft	60	65			
Lime	Dark	Hard	65	70			
Sand	White	"	70	102			
Lime	Broken	Dark	102	135			
Slate	Dark	Soft	135	177			
Lime	"	Hard	177	246	Water	188'	6 Blr. Hr.
Sand	White	Hard	246	265			
Coal	Black	Soft	265	270			
Sand	White	Hard	270	285			
Slate	Dark	Soft	285	345			
Gritty Lime	White	Hard	345	382			
Sand	"	Hard	382	450			
Slate	Black	Soft	450	457			
Coal	Black	Soft	457	460			
Lime	White	Hard	460	565	Sh. Gas	535-542'	
Sand	"	Hard	565	600			
Lime	"	Hard	600	660			
Slate	Dark	Soft	660	705			
1st. Salt Sand	White	Hard	705	774			
Lime	Dark	Broken	774	890			
Gritty Lime	Black	Hard	890	915			
Slate&Shells	Dark	Hard&Soft	915	940			
Gritty Lime	"	Hard	940	954			
Rosedale Gas	Sd. White	"	954	1044			
Lime	Dark	Hard	1044	1129			
Gritty Lime	"	"	1129	1180			
Rosedale Salt	Sd. Wh.	"	1180	1286	Sh. Oil	1189'	
Red Rock	Red	Soft	1286	1290	Gas	1220'	10/10 W 1"
Lime	Dark	Broken	1290	1335	Gas & Oil	1228-1236'	
Sand	White	Hard	1335	1385	Water	1245'	Hole full.
Lime	Dark	Hard	1385	1393			
Red Rock	Red	Soft	1393	1394			
Lime	Light	Hard	1394	1406			
Maxon Sand	White	Hard	1406	1467			
Little Lime	Dark	Hard	1467	1492			
Slate	"	Soft	1492	1496			

(Over)

1500482P

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Blue Monday Sand	White	Hard	1496	1524'	Gas	1512-1524'	70/10 Mer. 3" Opng.
Total Depth.....							

12/12/14

December 10th, 1947

Date _____, 19____

PITTSBURGH & WEST VA GAS COMPANY.

APPROVED _____, Owner

By W. McInasters
(Title)

Elk River Coal & Lumber # 8130
API # 47-015-00482

Spud Date: 10/4/47

FOF = 1,161 Mcf/d

Swabbed 6/25/99 - Ran swab, no fluid recovery reported.
- Rig measured TD @ 1512'.

Swabbed 4/25/95 - Ran swab, no show of fluid.
- Rig measured TD @ 1512'.

1999 production average @ 5 Mcf/d

3" Tbg. set @ 1524' w/3" x 6 5/8" Combination Packer Set @ 1505'.

6 5/8" x 8 1/4" Anchor Packer
Set @ 1474'.

TD @ 1524'

13" @ 21'

10" @ 173' w/50 sx

8 1/4" @ 1039'

6 5/8" @ 1503'

Blue Monday @ 1496' - 1524'
Gas @ 1512' - 1524'

RDL. - 7/18/00

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Received
Office of Oil & Gas

WW-4A
Revised 6-07

NOV 07 2014

CK 600379 # 100RD

1) Date: October 13, 2014
2) Operator's Well Number
ERC&L 8130
3) API Well No.: 47 - 015 - 00482

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>Allegheny Rural NMTC Forestlands, LLC</u>	Name _____
Address <u>3001 Emerson Avenue</u>	Address _____
<u>Parkersburg, WV 26104</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>CNX Land Resources</u>
	Address <u>1000 Consol Energy Drive</u>
	<u>Cannonsburg, PA 15317</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Ed Gainer</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 821</u>	Name _____
<u>Spencer, WV 25276</u>	Address _____
Telephone _____	

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 Range Resources - Pine Mountain, Inc.
 By: Ian Landon
 Its: Agent
 Address P.O. Box 2136
Abingdon, VA 24212
 Telephone (276) 628-9001

Subscribed and sworn before me this 28th day of OCTOBER 2014
Kimberley Allison Eller Notary Public REG # 7040059
 My Commission Expires 31 MAY 2018

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.

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Total Postage & Fees	\$	

Sent To
 Street, Apt. # or PO Box #
 City, State, ZIP

Allegheeny Rural NMTC Forestlands, LLC
 3001 Emerson Avenue
 Parkersburg, WV 26104

PS Form 3841, October 2013

WV 2014

Postmark Here
 OCT 29 2014
 ABINGDON VA 24210

4006 4407 3004
 7013 0600 0002 1047 3004

The following information was included in the certified mailing to Allegheny Rural NMTC Forestlands:

- Well Nos. ERC&L 8129
- ERC&L 7977
- ERC&L 8130
- ERC&L 7976
- PMOG 32
- PMOG 23A
- CBM 7
- CBM 2

Received
 Office of Oil & Gas
 OCT 31 2014

- Notice of Application to Plug and Abandon a Well (WW-4A)
- Application for a Permit to Plug and Abandon (WW-4B)
- Construction and Reclamation Plan and Site Registration Application Form General Permit for Oil and Gas Pit Waste Discharge (WW-9)
- Legend (WW-9)
- Surface Owner Waiver
- WVDEP Office of Oil and Gas Well Location Form: GPS (WW-7)
- Location Map

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7013 0600 0002 1047 2991

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Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Stamp: BRINGTON VA 24210 OCT 29 2014

Remark Here

Sent To: CNX Land Resources
 1000 Consol Energy Drive
 Cannonsburg, PA 15317

PS Form 3841, October 2013

WV 2014

The following information was included in the certified mailing to CNX Land Resources:

Well Nos. ERC&L 8129
 ERC&L 7977
 ERC&L 8130
 ERC&L 7976
 PMOG 32
 PMOG 23A
 CBM 7
 CBM 2

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- Notice of Application to Plug and Abandon a Well (WW-4A)
- Application for a Permit to Plug and Abandon (WW-4B)
- Construction and Reclamation Plan and Site Registration Application Form General Permit for Oil and Gas Pit Waste Discharge (WW-9)
- Legend (WW-9)
- Coal Operators Owners and Lessee Waiver (WW-4B)
- WVDEP Office of Oil and Gas Well Location Form: GPS (WW-7)
- Location Map
- Well Record/Well Report

12/12/14

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WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 015 - 00482
Operator's Well No. ERC&L 8130

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 Range Resources - Pine Mountain, Inc. OP Code 307499

Watershed Buffalo Creek Quadrangle Swandale 7.5'

Elevation 1070' County Clay District Buffalo

Description of anticipated Pit Waste: Fluids encountered while plugging subject well

Will a synthetic liner be used in the pit? Yes 20ML.

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 _____)

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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 *Ian Landon*

Company Official (Typed Name) Ian Landon

Company Official Title Agent

Subscribed and sworn before me this 28th day of OCTOBER, 2014

Kimberley Allison Eller Notary Public

My commission expires 31 MAY 2018 REG # 7040059



LEGEND

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site

- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed .5 acres 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 Straw 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino 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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OCT 31 2014

Plan Approved by:

Comments: _____

Title: Inspector Date: 10/2/14

Field Reviewed? Yes No

1500482P

Topo Quad: Swandale 7.5'

Scale: 1" = 2000'

County: Clay

Date: June 26, 2014

District: Buffalo

Project No: 170-04-B-14

API # 47-015-00482 (ERC&L 8130)

Topo



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Office of Oil & Gas
OCT 31 2014

NAD 27, WV South Zone

N: 529,473.14
E: 2,032,699.40
ELEV: 1069.67

WGS 84
LAT: 38.454125
LONG: -80.885637



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.

1-800-482-8606
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:

Range Resources - Pine Mountain, Inc.

406 West Main Street
Abingdon, VA 24210

12/12/14

1500482P

WW-7
8-30-06



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

API: 47-015-00482 WELL NO.: ERC&L 8130

FARM NAME: Elk River Coal

RESPONSIBLE PARTY NAME: Range Resources – Pine Mountain, Inc.

COUNTY: Clay DISTRICT: Buffalo

QUADRANGLE: Swandale 7.5' 629

SURFACE OWNER: Allegheny Rural NMTC Forestlands, LLC

ROYALTY OWNER: Range Resources-Pine Mountain, Inc.

UTM GPS NORTHING: 4256209

UTM GPS EASTING: 509979 GPS ELEVATION: 326 m (1070 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:

- 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

Received
Office of Oil & Gas
OCT 31 2014

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

PS# 2180
Title

7/16/14
Date