



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: 47-1500389, 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: 7976
Farm Name: ELK RIVER COAL
API Well Number: 47-1500389
Permit Type: Plugging
Date Issued: 12/08/2014

Promoting a healthy environment.

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.

1500389P

WW-4B
Rev. 2/01

1) Date October 15, 2014
2) Operator's
Well No. ERC&L 7976
3) API Well No. 47-015 - 00389

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 860' Watershed Buffalo Creek
District Buffalo County Clay Quadrangle Swandale 7.5' 629
- 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 - 1768' | Release packer & POH w/ 5 3/16" or free point & cut - est 1300' |
| 10" 29 | Plug No. 1 Bottom plug set w/ tubing & tag TD -1630' |
| 8 1/4" 367 | Plug No. 2 1350-1100 |
| 6 5/8" 1000 | Free point, cut & pull 6 5/8" casing, est 800' |
| 5 3/16" 1523 | Plug No. 3 850-750 |
| | Plug No. 4 450-300 |
| 6% gel between cement plugs | Free point, cut & pull 8 1/4" est 100' |
| | Plug No. 5 100-0 |

* GEL SHOT HOLE BEFORE SETTING FIRST PLUG.
* SET MONUMENT

Received
Office of Oil & Gas
OCT 31 2014

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

Work order approved by inspector  Date 10/28/14



1500389P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. CLA-389

Oil or Gas Well "GAS"
(KIND)

Company Pittsburgh & West Va Gas Company
Address Clarksburg, West Va.,
Farm Elk River Coal and Lumber Co. Acres 77.198
Location (waters) Summersville N/W. 1-G
Well No. 7976 Elev. 862' L
District Buffalo County Clay
The surface of tract is owned in fee by Elk River C.&L.Co. Dundon, Clay Co., West Va.,
Mineral rights are owned by Elk River Coal and Lumber Co Dundon, Clay Co., West Va.,
Drilling commenced March 6th, 1944
Drilling completed April 29, 1944
Date Shot 5-2-1944 From 1750 To 1757'
With 280 Quarts - Nitro Glycerine.
Open Flow 16 /10ths Water in _____ Inch
1-1/2" /10ths Merc. in _____ Inch
Volume 304,600 Cu. Ft.
Rock Pressure 305 lbs. 2 1/2 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
18			
10	29'	29'	Size of
8 1/4	367'	367'	1-8-1/4" Csg. Shoe
8 3/8	1000'	1000'	1-6-5/8" " "
5 9/16	1523'	1523'	Depth set
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil	Yellow	Soft	0	5			
Gravel	Gray	"	5	25			
Sand	White	Hard	25	85	Water	42'	Hole full.
Slate	Black	Soft	85	119			
Homewood Sand	White	Hard	119	140			
Lime	Gray	"	140	197			
Slate	Black	Soft	197	260			
Sand	White	Hard	260	368			
Slate	Black	Soft	368	378			
Lime	White	Broken	378	415			
Slate	Black	Soft	415	500	Sh. Gas	450'	
Sand	White	Hard	500	520			
Slate	Black	Soft	520	626			
Winifred Sand	White	Hard	626	650			
Slate	Black	Soft	650	687			
1st. Salt Sand	White	Hard	687	825	Water	802'	2-1/2 Bailer H
Slate	Black	Soft	825	850			
2nd. Salt Sand	White	Hard	850	900	Water	895'	Hole full.
Slate	Black	Soft	900	915			
2nd. Salt Sand	White	Hard	915	936			
Slate	Black	Soft	936	965			
Lime	"	Hard&Soft	965	1019			
3rd. Salt Sand	White	Hard	1019	1040			
Lime	Drak	"	1040	1150			
Rosedale Gas & Salt Sand					Sh. Gas	1178'	
and Maxon Sand	White	Hard	1150	1400	Sh. Oil	1244'	
Slate	Black	Soft	1400	1473	Water	1298'	
Little Lime	"	Hard	1473	1483	Sh. Gas	1328'	
Blue Monday	White	"	1483	1494			
Slate	Black	Soft	1494	1521			
Big Lime	Dark	Hard	1521	1621			
Big Injun Sand	White	"	1621	1718	Gas	1665-1670'	6/10 W 1/2"
Red Rock	Red	Soft	1718	1734	Gas	1706-1713'	
Slate	White	"	1734	1752			
Lime Shell	"	Hard	1752	1757	Gas	1752-1757'	36/10 W 3/4"
Slate	"	Soft	1757	1768			
Total Depth				1768			

(Over)

1500389P

WW-4A
Revised 6-07

Received
Office of Oil & Gas
NOV 07 2014

1) Date: October 13, 2014
2) Operator's Well Number
ERC&L 7976
3) API Well No.: 47 - 015 - 00389

CK 600379
10000

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 Allegheny Rural NMTC Forestlands, LLC	Name _____
Address 3001 Emerson Avenue	Address _____
Parkersburg, WV 26104 ✓	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name CNX Land Resources
_____	Address 1000 Consol Energy Drive
_____	Cannonsburg, PA 15317 ✓
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector Ed Gainer	(c) Coal Lessee with Declaration
Address PO Box 821	Name _____
Spencer, WV 25276	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
 My Commission Expires 31 MAY 2018
 Kimberley Allison Eller Notary Public
 REG # 7040059

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.

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL U.S. MAIL	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Sent To	Allegheeny Rural NMTC Forestlands, LLC
Street, Apt. # or PO Box #	3001 Emerson Avenue
City, State, & Zip	Parkersburg, WV 26104
PS Form 38	WV 2014

7013 0600 0002 1047 3004

ABINGDON, VA 24210
OCT 29 2014
Postmark Here

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

15003899

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OFFICIAL USE

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

Sent to
 Street, Apt., or PO Box # _____
 City, State, ZIP+4® _____

CNX Land Resources
 1000 Consol Energy Drive
 Cannonsburg, PA 15317

PS Form 3841, October 2013

APRINGTON VA 22210
 OCT 29 2014

ET013 0600 0002 1047 2991

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

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)
- 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

1500389 P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 015 - 00389
Operator's Well No. ERC&L 7976

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 860' 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 20 mil.

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 *Ian Landon*

Company Official (Typed Name) Ian Landon

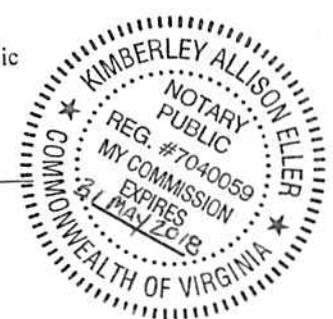
Company Official Title Agent

Received
Office of Oil & Gas
OCT 31 2014

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

Kimberley Allison Eller Notary Public
REG # 7040059

My commission expires 31 MAY 2018



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.

Plan Approved by:  _____
 Comments: _____

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OCT 31 2014

Title: Inspector Date: 10/2/14
 Field Reviewed? Yes No

1500389P

Topo Quad: Swandale 7.5'

Scale: 1" = 2000'

County: Clay

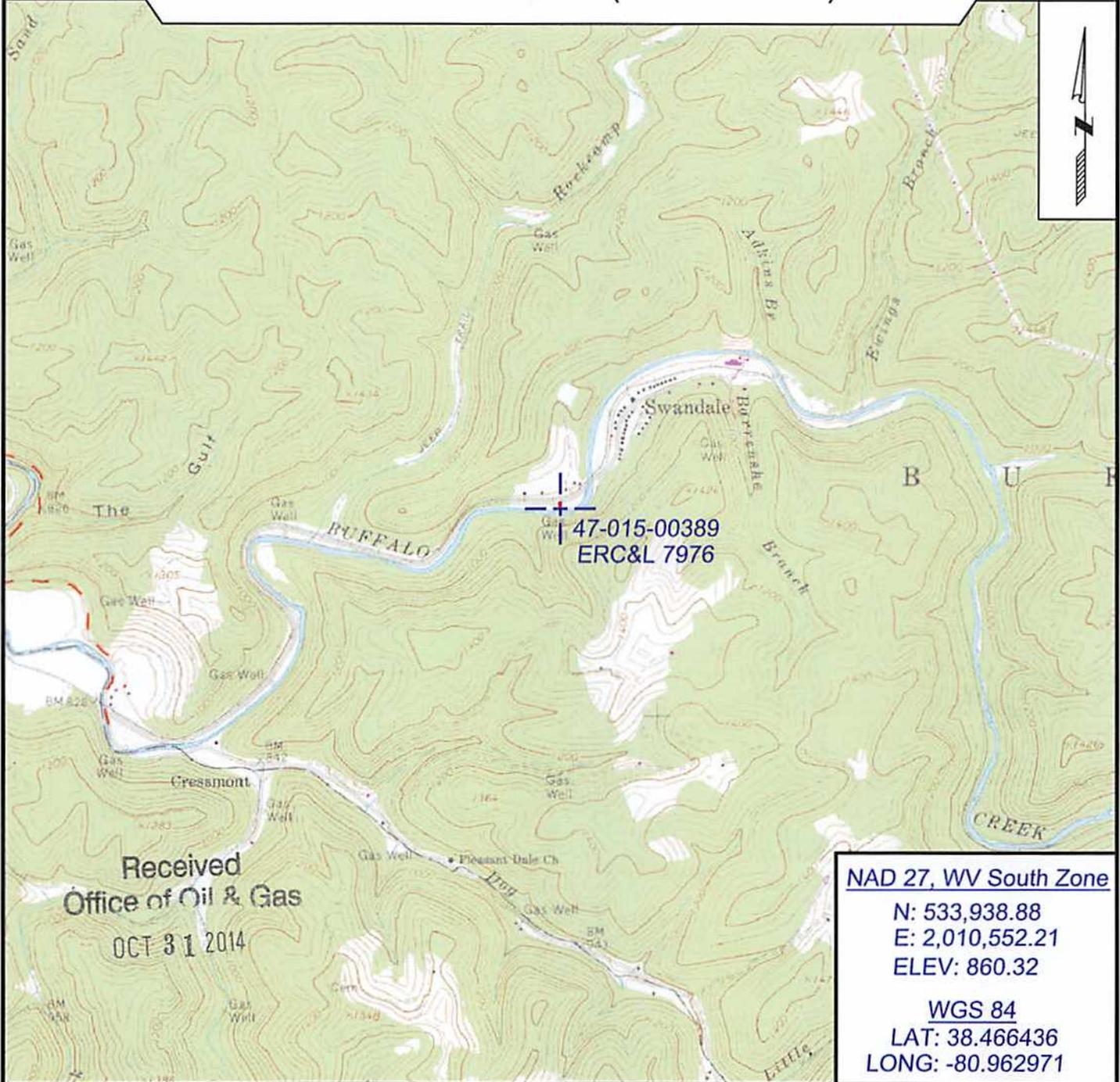
Date: June 26, 2014

District: Buffalo

Project No: 170-04-B-14

API # 47-015-00389 (ERC&L 7976)

Topo



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Office of Oil & Gas
OCT 31 2014

NAD 27, WV South Zone

N: 533,938.88
E: 2,010,552.21
ELEV: 860.32

WGS 84
LAT: 38.466436
LONG: -80.962971



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

1500389P

WW-7
8-30-06



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

API: 47-015-00389 WELL NO.: ERC&L 7976

FARM NAME: Elk River Coal

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

COUNTY: Clay, DISTRICT: Buffalo

QUADRANGLE: Swandale 7.5'

SURFACE OWNER: Allegheny Rural NMTC Forestlands, LLC

ROYALTY OWNER: Range Resources – Pine Mountain, Inc.

UTM GPS NORTHING: 4257570

UTM GPS EASTING: 503230 GPS ELEVATION: 262 m (860 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 X: Post Processed Differential X
Real-Time Differential

- 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.

Steph Olson
Signature

PS# 2180
Title

7/16/14
Date

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Office of Oil & Gas

OCT 31 2014