



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: 47-1500478, 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: 8129
Farm Name: ELK RIVER COAL
API Well Number: 47-1500478
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.

1500478P

WW-4B
Rev. 2/01

1) Date October 15, 2014
2) Operator's
Well No. ERC&L 8129
3) API Well No. 47-015 - 00478

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 1087' 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 Rd
Abingdon, VA 24212 Newton, WV 25266

8) Oil and Gas Inspector to be notified Name Ed Gainer
Address P.O. Box 821
Spencer, WV 25276
9) Plugging Contractor Name To be determined upon permit approval
Address _____

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

Casing: TD-1544' Release packer & POH w/ 6 5/8" or free point & cut
16" 22 GEL HOLE TD - ABOVE 1ST PLUG
Set plug with tubing & tag
10" 544 CTS Plug No. 1 TD - 1420
8 1/4" 1226 Free point, cut & pull 8 1/4" casing, est 1000'
6 5/8" 1538, 195 sks, est TOC @ 1000' Plug No. 2 1050-950, GEL SPACER
TO 600', PLUG 3 (CLASS A cement) FROM 600' - 500'
GEL FROM 500' - 200'. PLUG 4 FROM 200' - SURFACE.
SET MONUMENT.
Received
Office of Oil & Gas
OCT 31 2014
JMM

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

12/12/14

Elk River Coal & Lumber # 8129
API # 47-015-00478

Spud Date: 5/5/47

FOF = 1,400 Mcf/d

Bailed 6/25/99 - Ran bailer, hit fluid @ 1535' - made 5 bailer runs.
- Recovered 1/3 bbl of fluid, bailed dry.
- Rig measured TD @ 1540'.

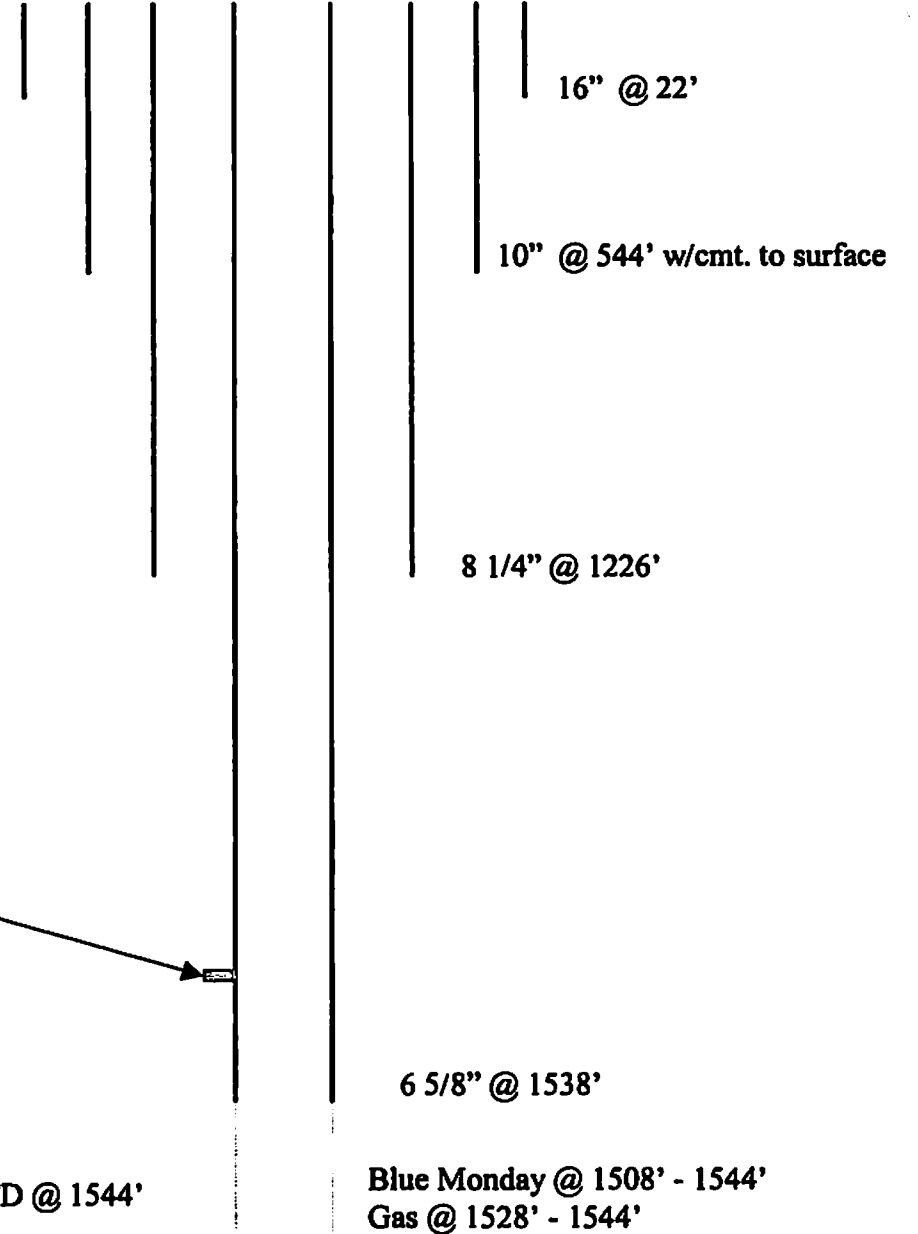
Bailed 4/25/95 - Ran bailer, hit fluid @ 1520' - made 5 bailer runs.
- Bailed dry.
- Rig measured TD @ 1540'.

6 5/8" x 8 1/4" S.D.A. Packer
Set @ 1491'.

1999 production average @ 2 Mcf/d

TD @ 1544'

RDL - 8/9/00



1506478P



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. CIA-478

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
Summersville N/W. 2-4
Location (waters) _____
Well No. 8129 Elev. 1083' L
District Buffalo County Clay
The surface of tract is owned in fee by Elk River Coal & L. Co.
Jordan, Clay County Address West Va.
Mineral rights are owned by Elk River Coal & Lumber Co.
Jordan, Clay Co. Address West Va.
Drilling commenced May 5th, 1947
Drilling completed June 16th, 1947
Date Shot _____ From _____ To _____
With _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size	22	22	
16			Kind of Packer
18			Screw Down
20 - Cemented	544'	544'	Size of 8-1/4" X
8 3/4	1226'	1226'	6-5/8"
6 3/4	1538'	1538'	Depth set 1487'
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow _____ /10ths Water in _____ Inch
16 /10ths Merc. in 3" Inch
Volume 1,400,000 Cu. Ft.
Rock Pressure 743 lbs. 72 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

CASING CEMENTED 10 SIZE 544 No. Ft. 5-17-1947 Date
125 Bags cement used.
COAL WAS ENCOUNTERED AT 45 FEET 72 INCHES
____ FEET _____ INCHES FEET _____ INCHES
____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
avel	Brown	Soft	0	28	Water	28'	Hole full.
late	Dark	"	28	45			
alburg Coal	Black	"	45	51			
late	Dark	Soft	51	68			
ime	"	Hard	68	165			
late	Black	Soft	165	200			
ime	White	Hard	200	270			
and	"	"	270	312			
late	Black	Soft	312	345			
rowntown Sand	White	Hard	345	360			
ime	Dark	Broken	360	505			
agle Sand	White	Hard	505	555			
ime	Dark	"	555	590			
akota Sand	White	Hard	590	660	Sh. Gas	591'	
late	Black	Soft	660	690			
ime	White	Hard	690	751			
st. Salt Sand	"	"	751	800	Water	765'	1 Bailer Hr.
late	Black	Soft	800	805			
ime	"	Hard	805	871			
late	"	Soft	871	920			
nd. Salt Sand	White	Hard	920	945			
ime	Dark	Broken	945	963			
osedale Gas	Sd. Wh.	Hard	963	1036	Water	1012'	2 Bailers Hr.
Slate&Shells	Dark	Soft	1036	1167			
osedale Salt	Sd. Wh.	Hard	1167	1183			
ed Rock	Red	Soft	1183	1185			
Lime	White	Hard	1185	1196			
ed Rock	Red	Soft	1196	1206			
Lime	Dark	Broken	1206	1218			
osedale Salt	Sd. Wh.	Hard	1218	1306	Water	1263'	12 1/2 Hr.
ed Rock	Red	Soft	1306	1320			
Slate&Shells	Dark	Hard&Soft	1320	1350			
Gritty Lime	White	Hard	1350	1382			
Maxton Sand	"	"	1382	1416			
ed Rock	Red	Soft	1416	1418			
"	Dark	Hard	1418	1436			
Sand	White	Hard	1436	1451			
"	Black	Soft	1451	1474			

1500478P

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Blue Monday Sand	Dark Wh.	Hard	1474	1508	Gas	1528-1544'	16/10 Mer. 3" Opng.
Total Depth.			1508	1544			

12/12/14

Date July 24th, 1947, 19____

PITTSBURGH & WEST VA GAS COMPANY.

APPROVED _____, Owner

By W. Mcmasters
(Title)

July 17 19 47

REPORT OF REPAIRS TO WELL NO. 6129 - Elk River C&L Co. FARM

Buffalo TWP. Clay COUNTY
DIST. Company Employee

WORK COMPLETED July 15 1947 WORK DONE BY National Machine

CASED WITH 544 FEET OF 10 INCH 1226 FT. 8 1/2 IN

PACKER WITH 1538 FEET OF 6-5/8 INCH AND 8 1/2 X 6-5/8 S.D. PACKER

set at 1491'.

DEPTH BEFORE REPAIR 1544 FT. IN Blue Monday SAND

" AFTER " " 1544 " " " " "

LAST PREVIOUS PRESSURE TAKEN June 16 1947 IN 6-5/8 INCH HOLE

1/2 MINUTE	<u>83</u>	LBS.	5 MINUTE	<u>183</u>	LBS.
1 "	<u>41</u>	"	10 "	<u>339</u>	LBS.
2 "	<u>79</u>	"	20 "	<u>546</u>	"
3 "	<u>113</u>	"	30 "	<u>639</u>	"
4 "	<u>150</u>	"	ROCK PRESSURE	<u>24</u> HRS.	<u>743</u> "

FIRST PRESSURE TAKEN AFTER BEING REPAIRED IN 6-5/8 IN. HOLE July 15 1947

1/2 MINUTE	<u>12</u>	LBS.	5 MINUTE	<u>98</u>	LBS.
1 "	<u>23</u>	"	10 "	<u>170</u>	"
2 "	<u>40</u>	"	20 "	<u>318</u>	"
3 "	<u>65</u>	"	30 "	<u>445</u>	"
4 "	<u>80</u>	"	ROCK PRESSURE	<u>24</u> HRS.	<u>735</u> "

CAUSE FOR REPAIRS Packer blew out after shut in 24 days.

REMARKS:- Pulled 1538' of 6-5/8" casing & 1 8 1/2 X 6-5/8
Packer. Ran back 1538' of 6-5/8" casing and 1
8 1/2 X 6-5/8 Screw Down packer set at 1491' (4' lower
than previous packer).

J. W. Dent
DIVISION SUPERINTENDENT

1500478P

WW-4A
Revised 6-07

Received
Office of Oil & Gas

1) Date: October 13, 2014
2) Operator's Well Number
ERC&L 8129
3) API Well No.: 47 - 015 - 00478

CK 600379
10000

NOV 07 2014

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
 My Commission Expires 31 MAY 2018 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.

12/12/14

15004789

WW-4A
Revised 6-07

Received
Office of Oil & Gas

OCT 31 2014

1) Date: October 13, 2014
2) Operator's Well Number
ERC&L 8129

3) API Well No.: 47 - 015 - 00478

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DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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(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 _____	_____

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 Its: Agent
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 My Commission Expires 31 May 2018 REG # 7040059

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12/12/14

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 OCT 29 2014
 ABINGDON, VA 26009

Sent to
 Street, Apt or PO Box A
 City, State, & Zip

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

PS Form 3841
 WV 2014

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

1500478 P

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Total Postage & Fees	\$

7013 0600 0000 2047 2991

APR 29 2014
 402 62 430
 01222N
 WASHINGTON VA 22210

Sent to: CNX Land Resources
 Street, Apt. or PO Box: 1000 Consol Energy Drive
 City, State: Cannonsburg, PA 15317

PS Form 38
 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

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

12/12/14

1500478P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 015 - 00478
Operator's Well No. ERC&L 8129

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 1087' 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 ZOML.

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 _____)

Received
Office of Oil & Gas
OCT 31 2014

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
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.

Received
Office of Oil & Gas
OCT 31 2014

Plan Approved by:
Comments: _____

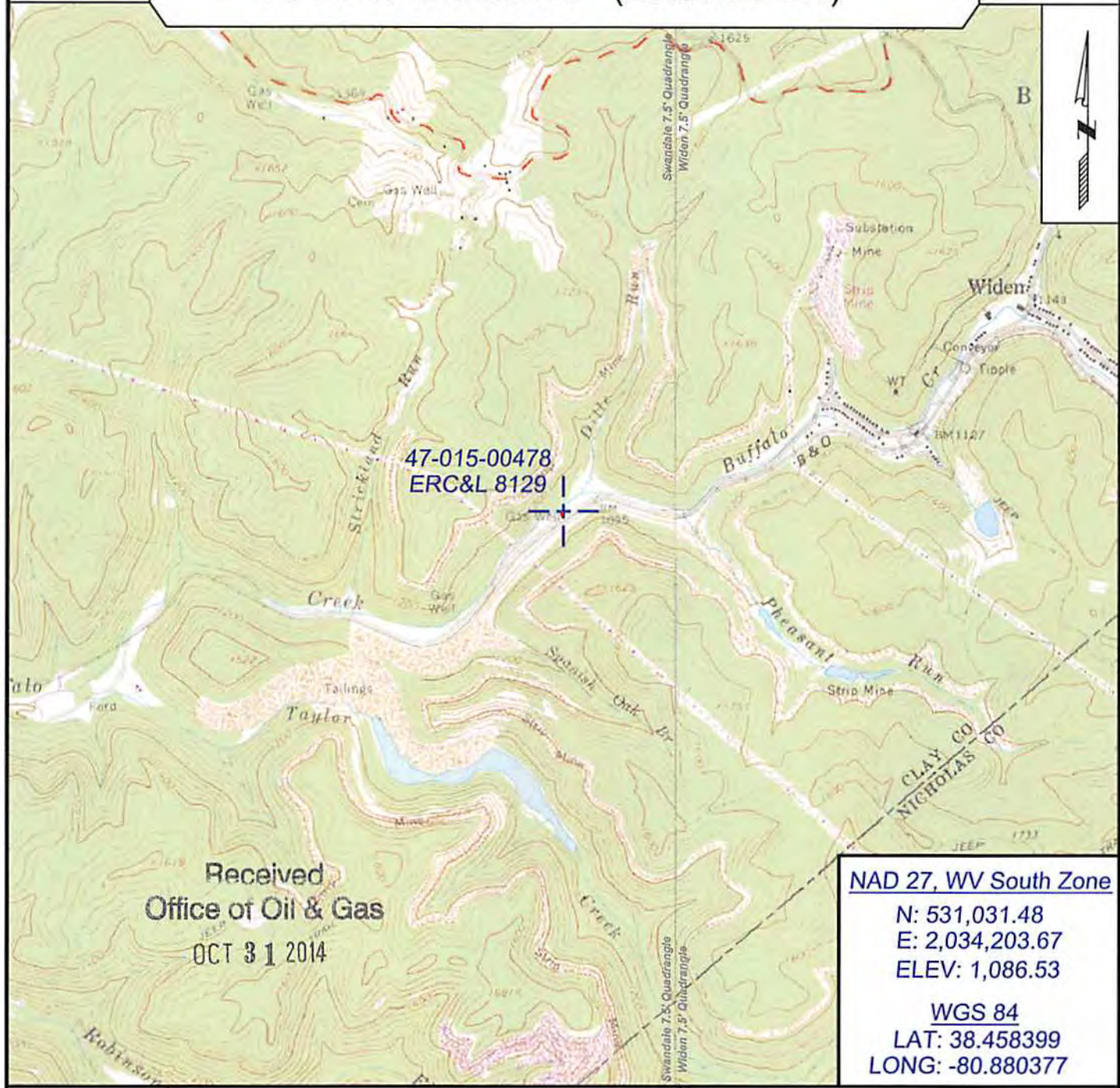
Title: Inspector Date: 10/2/14

Field Reviewed? Yes No

Topo Quad: Swandale 7.5' Scale: 1" = 2000'
 County: Clay Date: June 26, 2014
 District: Buffalo Project No: 170-04-B-14

API # 47-015-00478 (ERC&L 8129)

Topo



47-015-00478
ERC&L 8129

Received
Office of Oil & Gas
OCT 31 2014

NAD 27, WV South Zone
 N: 531,031.48
 E: 2,034,203.67
 ELEV: 1,086.53
 WGS 84
 LAT: 38.458399
 LONG: -80.880377



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

WW-7
8-30-06



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

API: 47-015-00478 WELL NO.: ERC&L 8129
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: 4256684
UTM GPS EASTING: 510437 GPS ELEVATION: 331 m (1087 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
- Letter size copy of the topography map showing the well location.**

Received
Office of Oil & Gas
OCT 31 2014

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