



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Monday, May 18, 2020

WELL WORK PLUGGING PERMIT
Vertical Plugging

RANGE RESOURCES - APPALACHIA, LLC
3000 TOWN CENTER BLVD

CANONSBURG, PA 153175839

Re: Permit approval for 108
47-015-00947-00-00

This well work permit 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 any additional specific 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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: 108
Farm Name: ELK RIVER COAL & LUMBER⁺
U.S. WELL NUMBER: 47-015-00947-00-00
Vertical Plugging
Date Issued: 5/18/2020

Promoting a healthy environment.

I

47-015-009471

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.

SEND TO
SPINKERTON @
RANGE RESOURCES .COM

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 X or Underground storage ___) Deep ___ / Shallow ___

5) Location: Elevation 1012.31 Watershed LILLY CREEK
District HENRY County CLAY Quadrangle SUMMERSVILLE, WV

FILL OUT

6) Well Operator RANGE RESOURCES - APPALACHIA, LLC Designated Agent KYLE THOMAS
Address 3000 TOWN CENTER BLVD. Address 3000 TOWN CENTER BLVD.
CANONSBURG, PA 15317 CANONSBURG, PA 15317

8) Oil and Gas Inspector to be notified
Name JEREMY JAMES
Address PO BOX 36
CLENDENIN, WV 25045

9) Plugging Contractor
Name COASTAL DRILLING EAST
Address 130 MEADOWS RIDGE RD.
MT. MORRIS, PA 15349

10) Work Order: The work order for the manner of plugging this well is as follows:
Move to site, Rig up. Kill well, pull and laydown existing tubing. Log hole to determine 4 1/2" annulus cement top, pick up 2 3/8" work string and T.I.H. Set bottom hole cement plug as required by the WV DEP from TD up to CBL determine annulus cement top. Rip or cut 4 1/2" casing at the top of cement and try to work 4 1/2" out of the hole from surface. Laydown 4 1/2" casing. Clean out wellbore to tag top of bottom hole plug to insure plug location. Run Caliper, CCL and CBL to determine hole size and verify 8 5/8" casing is cemented to surface. Cement hole from top of bottom hole plug to surface. Rig down and set monument as required by WV DEP. In the event that the pipe is unable to be removed the inspector will be notified prior to cementing or perforating. All cement plugs will be Class A cement with no more than 3% CaCl2. All spacers will be 6% gel (if spacers are used). • Cement plugs will cover all oil and gas shows, water shows, and casing cuts per WV Code Chapter 20, Article 6.

Approved
Office of Oil and Gas

MAR 13 2020

WV Department of
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 JEREMY JAMES (verbal) Date 5/15/2020
gwm

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date: June 11, 1970

FORM IV-35
(Obverse)

Operator's Well No. ELK RIVER #108

[08-70,

WELL OPERATOR'S REPORT
OF
DRILLING, FEATHERING AND/OR STIMULATING, OR PHYSICAL CHANGE

APR Well No. 47-015-947
State County Permit

WELL TYPE: Oil Gas Liquid Injection Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow /)

LOCATION: Elevation: 1,012.3' Watershed: LILLY CREEK
District: HENRY County: CLAY Quadrangle: SUMMERSVILLE H.W.

WELL OPERATOR DAMSON OIL CORPORATION DESIGNATED AGENT RICHARD H. BRUMBAUGH
Address 260 NORTH BELT EAST SUITE 300 Address 212 COURT STREET
HOUSTON, TEXAS 77060 SPENCER, WEST VIRGINIA 25276

PERMITTED WORK: Drill / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify) _____

PERMIT ISSUED ON _____, 19____

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name OLEN JONES

Address PEYTONA

WEST VIRGINIA

GEOLOGICAL TARGET FORMATION: INJUN Depth 1,918 feet

Depth of completed well, 1,918 feet Rotary / Cable Tools

Water strata depths: Fresh, _____ feet; salt, _____ feet.

Coal seam depths: NONE. Is coal being mined in the area? Applications Pending

Work was commenced NOVEMBER 10, 1971, and completed NOVEMBER 30, 1971

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Stands
Fresh water								
Coal								Stands
Intermediate	8 1/2	H-40	24	X		299	298	110 sks
Production	4 1/2	J-55	9.5	X			1,901	110 sks
Tubing	2-3/8	J-55	4.6	X			1,847	
Liners								Perforations:
								Top Bottom
								1718 1720
								1795 1807

OPEN FLOW DATA

Producing formation INJUN Pay zone depth 26 feet

Gas: Initial open flow, 310 Mcf/d Oil: Initial open flow, _____ bbl/d

Final open flow, 310 Mcf/d Final open flow, _____ bbl/d

Time of open flow between initial and final tests, _____ hours

Static rock pressure, 540 psig (surface measurement) after 48 hours shut in

[If applicable due to multiple completion--]

Second producing formation _____ Pay zone depth _____ feet

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, _____ psig (surface measurement) after _____ hours shut in

FORM IV-35
(Reverse)

[08-78]

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

PERFORATED

1718 - 1720 3 holes
 1795 - 1807 5 holes
 1830 - 1833 3 holes
 1859 - 1873 5 holes

ACIDIZED

5,000 Gals 15% HCL Acid

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks
					Including indication of all fresh and salt water, coal, oil and gas
Sand & Gravel			0	12	
Shale			12	68	
Sand			68	166	
Shale			160	200	
Sand			200	300	
Shale			300	600	
Sand & Shale			600	805	
Shale			805	896	
Sand			896	1,285	
Shale			1,285	1,606	
Sand			1,606	1,628	
Slate Pencil			1,628	1,664	
Big Lime			1,664	1,877	
Shale			1,877	1,918	
TD				1,918	

(Attach separate sheets to complete as necessary)

DAMSON OIL CORPORATION

Well Operator

By Kenneth R. Jordan
 Its V.P. - PRODUCTION

NOTE: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."



RECEIVED

47-015-00947P

DEC 6 1971

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

- OIL & GAS DRILLING: Rotary
 DEPT. OF MINES: Spudder
 Cable Tools
 Storage

Quadrangle Summersville N.W.

Permit No. CLA - 947

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company <u>Morchana Petroleum Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>1636 West Eight Street, Los Angeles, Calif.</u>	Size			Kind of Packer
From <u>Elk River Coal & Lumber Company Acres 77, 198</u>	16			
Location (waters) <u>Lilly Creek</u>	13			
Well No. <u>108</u> Elev. <u>1012.3</u>	10			Size of
District <u>Henry</u> County <u>Clay</u>	8 1/4	<u>298</u>	<u>298</u>	Depth set
The surface of tract is owned in fee by <u>The Pitston Company</u>	6 3/4			
<u>250 Park Ave.</u> Address <u>New York, New York</u>	5 3/16		<u>1'01</u>	
Mineral rights are owned by <u>Same</u>	4 1/4			Perf. top <u>1718</u>
Address	3			Perf. bottom
Drilling commenced <u>November 10, 1971</u>	2			Perf. top
Drilling completed <u>November 30, 1971</u>	Liners Used			Perf. bottom <u>1873</u>
Date Shot From To				
With				
Open Flow /10ths Water in. Inch	Attach copy of cementing record <u>4 1/2" - 1901ft. - 11/15/71</u>			
/10ths Merc. in. Inch	CASING CEMENTED <u>8" SIZE 298</u> No. Ft. <u>11/11/71</u> Date			
Oil Cu. Ft.	Amount of cement used (bags) <u>8" with 110 sha, 4 1/2" - 110 sk.</u>			
Pack Pressure lbs. hrs.	Name of Service Co. <u>Halliburton</u>			
Oil bbls. 1st 24 hrs.	COAL WAS ENCOUNTERED AT <u>None</u> FEET INCHES			
WELL ACIDIZED (DETAILS) <u>10,000 gal. Hy. Acid</u>	FEET INCHES FEET INCHES			
	FEET INCHES FEET INCHES			
WELL FRACTURED (DETAILS)				

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 310 ECF 310,000

ROCK PRESSURE AFTER TREATMENT 540 HOURS 48 hrs.

Fresh Water Feet Salt Water Feet

Producing Sand Big Lime Depth 1873

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand & Gravel			0	12			
Shale			12	68			
Sand			68	160			
Shale			160	200			
Sand			200	300			
Shale			300	600			
Sand & Shale			600	805			
Shale			805	896			
Sand			896	1285			
Shale			1285	1606			
Sand			1606	1626			
Slate Pencil			1623	1664			
Big Lime			1664	1877			
Shale			1877	1918 T. D.			

WW-4A
Revised 6-07

1) Date: December 13 2019
2) Operator's Well Number
0108
3) API Well No.: 47 - 015 - 00947

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 <u>RANGE RESOURCES</u> ✓
Address <u>P.O. Box 205</u>	Address <u>3000 TOWN CENTER BLVD.</u>
<u>Hornor, WV 26372</u>	<u>CANONSBURG, PA 15317</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Braxton-Clay Land and Mineral</u> ✓
(c) Name _____	Address <u>1000 Consol Energy Drive</u>
Address _____	<u>Canonsburg, PA 15327</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>JEREMY JAMES</u>	(c) Coal Lessee with Declaration
Address <u>P.O. BOX 36</u>	Name _____
<u>CLENDENIN, WV 25045</u>	Address _____
Telephone <u>304-951-2596</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 RANGE RESOURCES
 By: Ian Simms
 Its: Director of Civil/Env Engineering & Construction
 Address 3000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
 Telephone 814-425-3100 EXT. 2610

Commonwealth of Pennsylvania - Notary Seal
 Edmona Ann Drabek, Notary Public
 Washington County
 My commission expires March 16, 2024
 Commission number 1296850
 Member, Pennsylvania Association of Notaries

RECEIVED
 Office of Oil and Gas
 MAR 13 2020

Subscribed and sworn before me this 2nd day of March, 2020
Edmona Ann Drabek Notary Public
 My Commission Expires 3-16-2024

WV Department of Environmental Protection

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 depprivacyoffier@wv.gov.

SURFACE OWNER WAIVER

47-015-00947P

Operator's Well
Number

108

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

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Office of Oil and Gas

MAR 13 2020

WV Department of
Environmental Protection

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 _____	Alleggheny Rural NMTc Forestlands
Signature		By _____	James G Wilhelm
		Its _____	Regional Director
			Date 2/21/20
		Signature <i>James G Wilhelm</i>	Date 2/21/20

API No. 47-015-00947
Farm Name ELK RIVER COAL & LUMBER
Well No. 108

**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: 02/28/2020

Casey V. Saunders
By: Casey V. Saunders
Its Manager Coal/Gas Coordination
Consol Energy

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Office of Oil and Gas

MAR 13 2020

WV Department of
Environmental Protection

COAL OWNERSHIP REPORT

48 acres of land, more or less, being all of Tax Parcel # 08-03-0042-0010
Henry District, Clay County, West Virginia
Elk River #108

PROPERTY DESCRIPTION:

48 acres of land, more or less, situated in Henry District, described as Tract 9 in that certain Deed dated July 15, 2009 from Heartwood Forestland Advisors VI, LLC to Allegheny Rural NMTC Forestlands, LLC, recorded in Volume 204, Page 1007 of the Clay County Clerks Office, and also being known as Tax Parcel #08-03-0042-0010, in Henry District, Clay County, West Virginia.

COAL OWNERSHIP:

NAME, ADDRESS	GROSS ACRES	INTEREST	NET ACRES
Braxton-Clay Land and Mineral 1000 Consol Energy Drive Canonsburg, PA 15317 PH: 724-485-4000 Deed Book 188/296	48	1.0	48
TOTALS	48	1.000000	48

COAL LESSEE:

No active coal lease found of record.

SURFACE OWNER:

Allegheny Rural NMTC Forestlands, LLC
19045 Stone Mountain Road
Abingdon, VA 24210
PH: 276-623-2477

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Office of Oil and Gas

MAR 13 2020

WV Department of
Environmental Protection

COAL OWNERSHIP REPORT

68 acres of land, more or less, being all of Tax Parcel # 08-03-0042-0009
Henry District, Clay County, West Virginia
Elk River #108

PROPERTY DESCRIPTION:

68 acres of land, more or less, situated in Henry District, described as Tract 8 in that certain Deed dated July 15, 2009 from Heartwood Forestland Advisors VI, LLC to Allegheny Rural NMTC Forestlands, LLC, recorded in Volume 204, Page 1007 of the Clay County Clerks Office, and also being known as Tax Parcel #08-03-0042-0009, in Henry District, Clay County, West Virginia.

COAL OWNERSHIP:

NAME, ADDRESS	GROSS ACRES	INTEREST	NET ACRES
Braxton-Clay Land and Mineral 1000 Consol Energy Drive Canonsburg, PA 15317 PH: 724-485-4000 Deed Book 188/296	68	1.0	68
TOTALS	68	1.000000	68

COAL LESSEE:

No active coal lease found of record.

SURFACE OWNER:

Allegheny Rural NMTC Forestlands, LLC
PO Box 205
Horner, WV 26372
PH: 304-269-4831

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Office of Oil and Gas

MAR 13 2020

WV Department of
Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name RANGE RESOURCES OP Code _____

Watershed (HUC 10) LILLY CREEK Quadrangle SUMMERSVILLE, WV

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain TANKS, SEE ATTACHED LETTER)

Will closed loop system be used? If so, describe: Yes, Gel circulated from tank thru well bore and returned to tank.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Gel or cement

-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used in drilling medium? Bentonite, Bicarbonate of Soda

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Shaker cutting buried on site. OFF-SITE. gwm

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? N/A

MAR 13 2020

WV Department of Environmental Protection

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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) Ian Simms

Company Official Title Director of Civil/Env Engineering & Construction

Subscribed and sworn before me this 2nd day of March, 20 20

Edmona Ann Drabeck Notary Public

My commission expires 3-16-2024

20 HERE

Commonwealth of Pennsylvania - Notary Seal
Edmona Ann Drabeck, Notary Public
Washington County
My commission expires March 16, 2024
Commission number 1296850
Member, Pennsylvania Association of Notaries

Range Resources
3000 Town Center Blvd.
Canonsburg, PA 15371

Phone: 814-425-3100 Ext. 2610
Email: kthomas@rangeresources.com

Name: Kyle Thomas
Title: Area Completion Supervisor

Department of Environment Protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304-2345
Phone: (304)926-0499
Fax: (304)926-0452

To Whom It May Concern:

As per the Department of Environmental Protection, Office of Oil and Gas request, Range Resources, submits the following procedures utilizing pit waste.

Upon submitting a well work application (without general permit for Oil and Gas Pit Waste Discharge Application), Range Resources, will construct no pits, but instead will use mud tanks to contain all drilling muds.

Once the well is completed, that material (minus the cave material) will be trucked to the next well to be plugged or to

RES Water Transfer
1373 Washington Pike, S-100
Bridgeville, PA 15107
412/221-2034

Sincerely,

Kyle Thomas

Kyle Thomas
Area Completion Supervisor

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Office of Oil and Gas

MAR 13 2020

WV Department of
Environmental Protection

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH

Line 3 Tons/acre or to correct to pH 6.0

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre	Seed Type	lbs/acre
See Attachment	100	See Attachment	100
_____	_____	_____	_____
_____	_____	_____	_____

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

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Office of Oil and Gas

MAR 13 2020

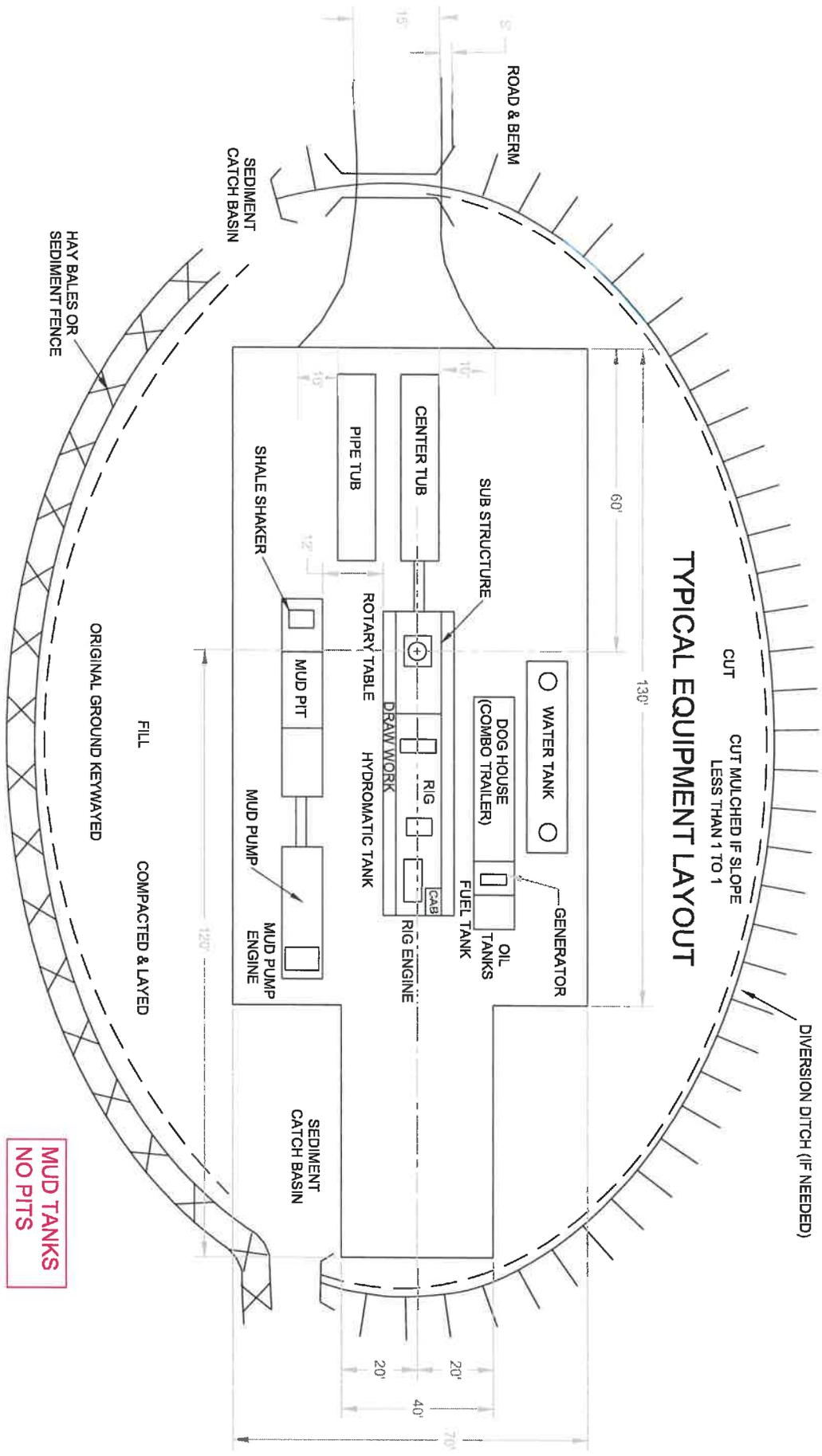
WV Department of
Environmental Protection

Title: _____ Date: _____

Field Reviewed? () Yes () No

TYPICAL DRAWING OF WELL PLUGGING SITE PLAN

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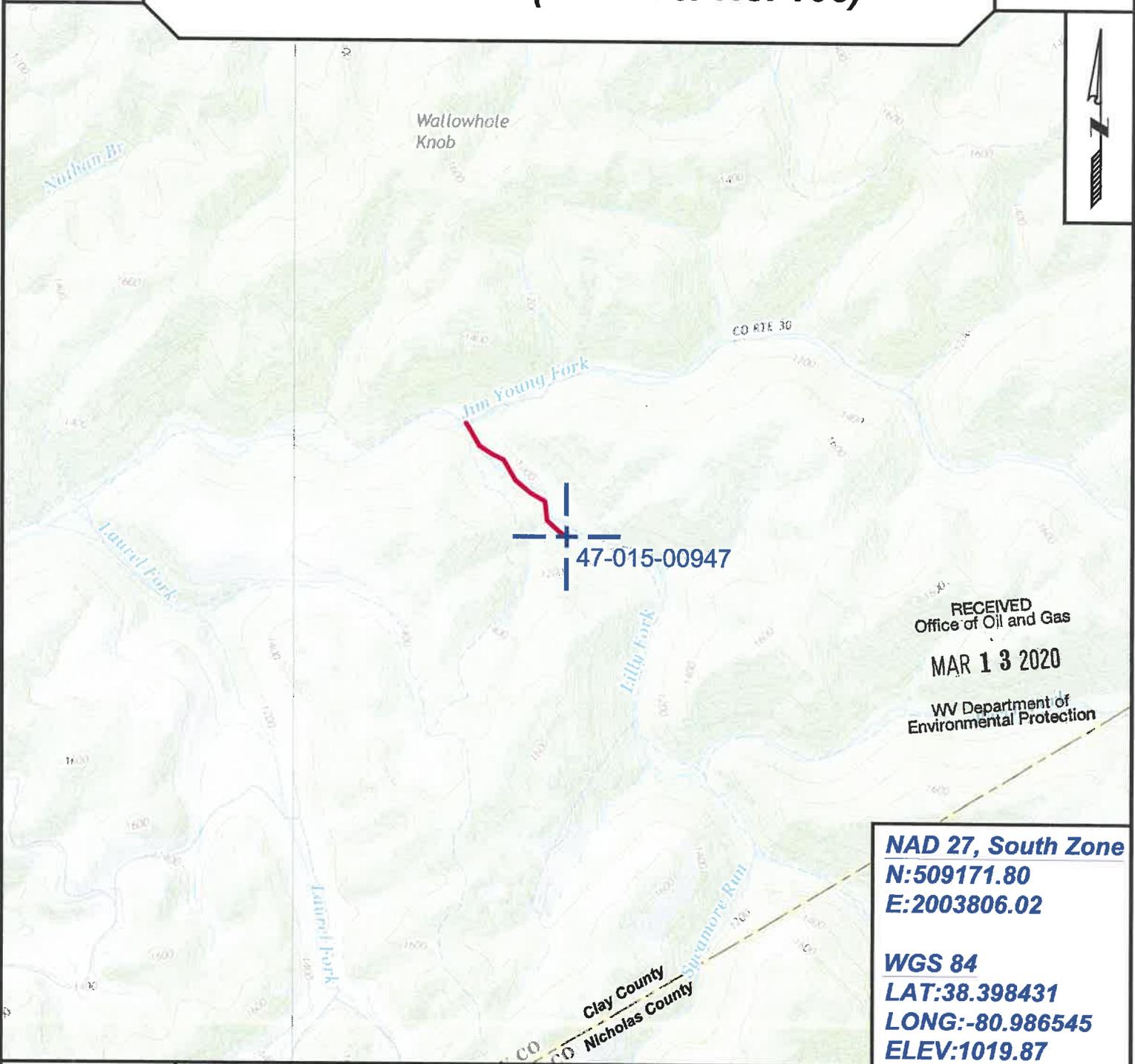


MUD TANKS
NO PITS

Topo Quad: Swandale 7.5' Scale: 1" = 2000'
 County: Clay Date: February 26, 2020
 District: Henry Project No: 44-04-H-20

47-015-00947 (Elk River No. 108)

Topo



NAD 27, South Zone
N:509171.80
E:2003806.02

WGS 84
LAT:38.398431
LONG:-80.986545
ELEV:1019.87



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

1369 Cochran Road
 Carlton, PA 16311

Topo Quad: Swandale 7.5'

Scale: 1" = 2000'

47-015-00947P

County: Clay

Date: February 26, 2020

District: Henry

Project No: 44-04-H-20

Water

47-015-00947 (Elk River No. 108)

No Potential Water Sources within 1000'

Wallowhole Knob

Nothan Br

CO RTE 30

Jim Young Fork

Laurel Fork

47-015-00947

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Environmental Protection

NAD 27, South Zone

N:509171.80

E:2003806.02

WGS 84

LAT:38.398431

LONG:-80.986545

ELEV:1019.87

Clay County
Nicholas County



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

1369 Cochran Road
Carlton, PA 16311

47-015-00947P

Bond

KNOW ALL MEN BY THESE PRESENTS:

BOND NO. 30076776

That Range Resources – Appalachia, LLC
Address 3000 Town Center Blvd., Canonsburg, PA 15317 Phone No. (724)743-6751
as principal, and WESTERN SURETY COMPANY, a corporation, organized
and existing under the laws of the State of South Dakota, with principal office at
151 N. Franklin Street, Chicago, IL 60606, and duly licensed
and authorized to do business in the State of West Virginia, as surety, are held and firmly bound unto the State
of West Virginia in the just and full sum of Twenty Five Thousand and No/100
Dollars (\$ 25,000.00), for the payment whereof well and truly to be made, we bind ourselves, our heirs,
executors, administrators, successors and assigns, jointly and severally by these presents.

WITNESS the signatures and seals of said principal and surety, both thereunto duly authorized this 3rd day
of March, 2020.

The condition of the above obligation is such, that whereas, the above bound principal has filed with West
Virginia Division of Highways its written application for a permit to ~~install~~ construct and maintain a
(his, its, etc.)
temporary access which will originate on the right-of-way of Route 30 for the purpose of plugging existing gas
wells. All work will comply with WV DOT /DOH Specifications.

along bridges, roads and highways in the State of West Virginia, in manner and form prescribed by The West
Virginia Division of Highways, which may result in damage to said bridges, roads, highways, shoulders, and
ditches thereof.

Now, if the said Range Resources – Appalachia, LLC
principal, shall properly repair any and all damages that may result to said bridges, roads, highways, shoulders, and
ditches, upon which it may perform work, to as good condition as when same was entered upon, as determined by
the District Engineer of The West Virginia Division of Highways having jurisdiction over the work permitted, or
pay damages therefore in an amount sufficient to properly restore such bridges, roads, highways, shoulders, and
ditches to such original condition; and shall reimburse The West Virginia Division of Highways for all inspection
costs incurred by it in connection with said work and repairs of such damages and faithfully comply with all terms,
provisions and conditions of said permit and save harmless West Virginia Division of Highways and the State of
West Virginia from all losses resulting from the conduct of said work or repairs; then this obligation to be void,
otherwise to remain in full force and effect.

By execution of this bond the Principal and the Surety affirm that the text above is a verbatim reproduction of
The West Virginia Division of Highways Bond Form SM-6, Revised 5-19-05. Attached notarized signatures and
Power-of-Attorney are a part of this contract.

(SEAL)

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Environmental Protection

(SEAL)

[Signature] (SEAL)
Range Resources – Appalachia, LLC
A Corporation

By [Signature]
Its _____

WESTERN SURETY COMPANY
A Corporation

By [Signature]
Its Attorney-in-Fact
Joyce M. Houghton, Attorney-in-Fact

47-015-00947P

Commonwealth
STATE OF Pennsylvania,
COUNTY OF Washington, TO-WIT:

I, Edmona Ann Drabek, a Notary Public in and for the County and State
aforesaid, do hereby certify that Tony Gaudlip,
whose name is signed to the foregoing writing, bearing date the 4th day of March, 2020,
has this day acknowledged the same before me in my said County and State.

Given under my hand this 4th day of March, 2020.
My commission expires 3-16-2024.

Edmona Ann Drabek
Notary Public

Commonwealth of Pennsylvania - Notary Seal
Edmona Ann Drabek, Notary Public
Washington County
My commission expires March 16, 2024
Commission number 1296850

Member, Pennsylvania Association of Notaries

~~STATE OF~~ COMMONWEALTH OF PENNSYLVANIA,
COUNTY OF CHESTER, TO-WIT:

I, John Evans, a Notary Public in and for the County and State
aforesaid, do hereby certify that Joyce M. Houghton,
who signed the foregoing writing bearing date the 3rd day of March, 20 20, for
WESTERN SURETY COMPANY

a corporation, has this day in my said County, before me, acknowledged the said writing to be the act and deed of
said corporation.

Given under my hand this 3rd day of March, 20 20.
My commission expires March 5, 2022.

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WV Department of
Environmental Protection

John Evans
Notary Public

Commonwealth of Pennsylvania - Notary Seal
JOHN EVANS, Notary Public
Chester County
My Commission Expires March 5, 2022
Commission Number 1323013

STATE OF _____,
COUNTY OF _____, TO-WIT:

I, _____, a Notary Public in and for the County and State
aforesaid, do hereby certify that _____,
who signed the foregoing writing bearing date the _____ day of _____, 20 _____, for

_____ a corporation, has this day in my said County, before me, acknowledged the said writing to be the act and deed of
said corporation.

Given under my hand this _____ day of _____, 20 _____.
My commission expires _____.

Notary Public

Western Surety Company

MAR 13 2020

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT WV Department of Environmental Protection

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Harry C Rosenberg, David C Rosenberg, David A Johnson, Joyce M Houghton, Julia R Burnet, Matthew J Rosenberg, Stephanie S Helmig, Elizabeth P Cervini, Denise M Bruno, Jonathan F Black, Individually

of Wayne, PA, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 8th day of March, 2019.



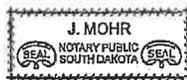
WESTERN SURETY COMPANY

Paul T. Bruflat
Paul T. Bruflat, Vice President

State of South Dakota }
County of Minnehaha } ss

On this 8th day of March, 2019, before me personally came Paul T. Bruflat, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires
June 23, 2021



J. Mohr
J. Mohr, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 3rd day of March, 2020.



WESTERN SURETY COMPANY

L. Nelson
L. Nelson, Assistant Secretary

47-015-00947P

WESTERN SURETY COMPANY
Sioux Falls, South Dakota
Statement of Net Admitted Assets and Liabilities
December 31, 2018

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<u>ASSETS</u>	
Bonds	\$ 1,935,428,756
Stocks	28,070,811
Cash, cash equivalents, and short-term investments	28,110,934
Receivables for securities	-
Investment income due and accrued	17,684,883
Premiums and considerations	48,092,741
Amounts recoverable from reinsurers	2,689,618
Current federal and foreign income tax recoverable and interest thereon	109,624
Net deferred tax asset	11,721,985
Receivable from parent, subsidiaries, and affiliates	11,902,908
Other assets	23,233
Total Assets	\$ 2,083,835,493

<u>LIABILITIES AND SURPLUS</u>	
Losses	\$ 216,656,892
Loss adjustment expense	58,374,620
Commissions payable, contingent commissions and other similar charges	10,355,618
Other expenses (excluding taxes, license and fees)	-
Taxes, License and fees (excluding federal and foreign income taxes)	3,752,460
Federal and foreign income taxes payable	1,295,647
Unearned premiums	240,838,348
Advance premiums	5,412,052
Ceded reinsurance premiums payable (net of ceding commissions)	61,346
Amounts withheld or retained by company for account of others	5,262,414
Provision for reinsurance	182,147
Payable to parent, subsidiaries and affiliates	-
Payable on security transactions	-
Other liabilities	76,602
Total Liabilities	\$ 542,268,146

Surplus Account:	
Common stock	\$ 4,000,000
Gross paid in and contributed surplus	280,071,837
Unassigned funds	1,257,495,510
Surplus as regards policyholders	\$ 1,541,567,347
Total Liabilities and Capital	\$ 2,083,835,493

I, Victoria Baltrus, Vice President of Western Surety Company hereby certify that the above is an accurate representation of the financial statement of the Company dated December 31, 2018, as filed with the various Insurance Departments and is a true and correct statement of the condition of Western Surety Company as of that date.

WESTERN SURETY COMPANY

By *Victoria Baltrus*
Vice President

Subscribed and sworn to me this 7th day of March 2019
My commission expires:

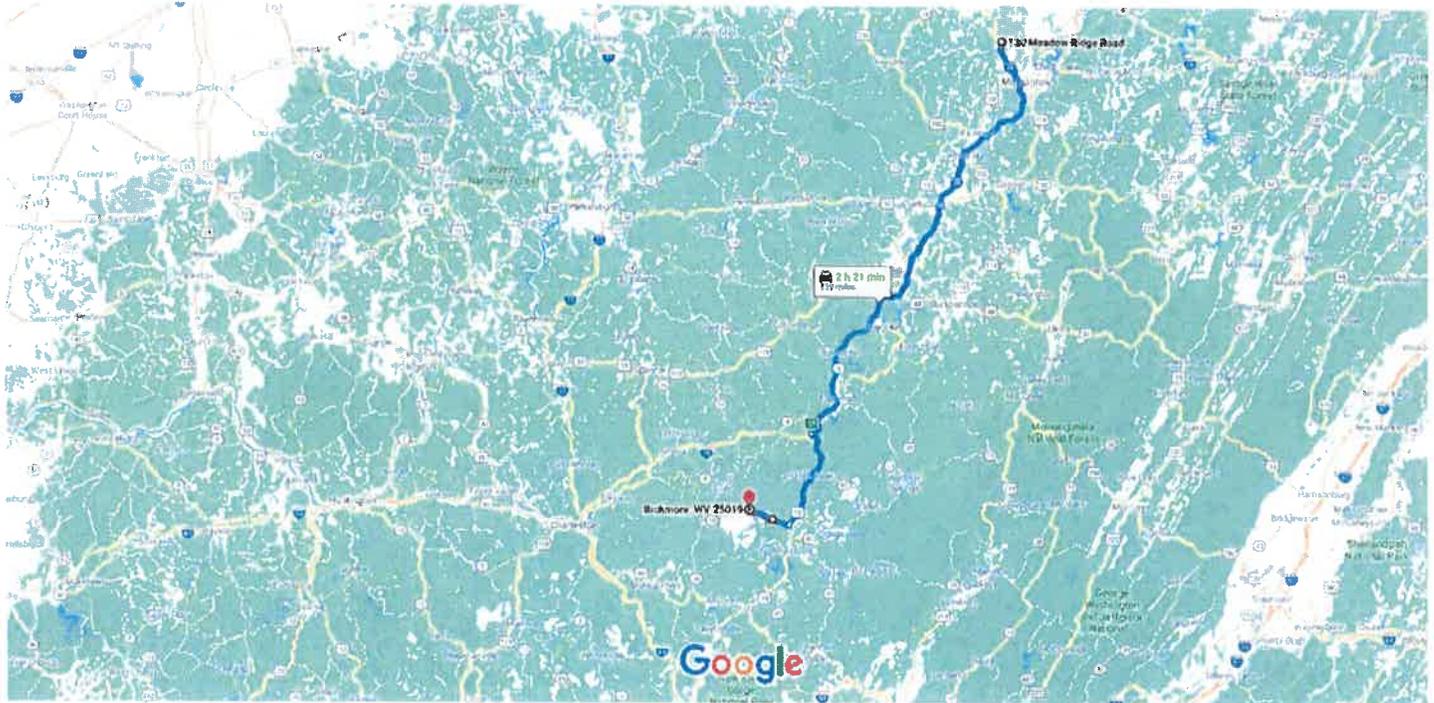


By *Christopher Lopatowski*
Notary Public



130 Meadow Ridge Road, Mount Morris, PA to Bickmore, West Virginia 25019

Drive 139 miles, 2 h 21 min



Map data ©2020 Google 10 mi

130 Meadow Ridge Rd

Mt Morris, PA 15349

Get on I-79 S from Meadow Ridge Rd and Gas Company Rd

3 min (1.4 mi)

↑ 1. Head north toward Meadow Ridge Rd

230 ft

↶ 2. Turn left onto Meadow Ridge Rd

0.4 mi

↷ 3. Turn right onto Gas Company Rd

0.6 mi

↷ 4. Turn right onto Bald Hill Rd/Locust Ave/T865

0.1 mi

⤴ 5. Turn left to merge onto I-79 S toward Morgantown

0.3 mi

Follow I-79 S to US-19 S in Western. Take exit 57 from I-79 S

1 h 31 min (103 mi)

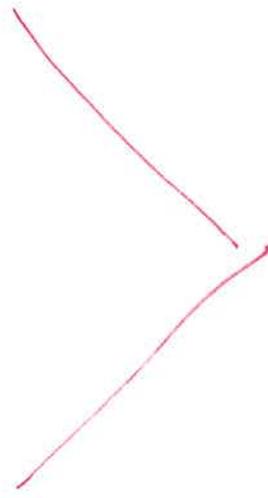
⤴ 6. Merge onto I-79 S

📍 Entering West Virginia

103 mi

↘ 7. Take exit 57 for US-19 S

0.4 mi



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Continue on US-19 S. Take Beech Fork to Co Rte 30 in

Bickmore

47-015-00947P

48 min (33.8 mi)

8. Continue onto US-19 S

21.9 mi

9. Turn right onto Old U.S. 19 S

0.5 mi

10. Turn right onto Peach Orchard Rd

4.3 mi

11. Keep left to continue on Beech Fork

5.8 mi

12. Continue onto Co Rte 30

0.4 mi

13. Sharp right to stay on Co Rte 30

Destination will be on the left

0.9 mi

Bickmore

West Virginia 25019

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

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Attention: Use of this system is a privilege limited to registered users adhering to the following guidelines:

- (1) Use limited to routine requests (48 hr. advance notification, excluding weekends and holidays). All other locate requests must be called in to 800-245-4848
- (2) Users must allow an additional 2 hours processing time for a total of 50 hours minimum lead-time.
- (3) Forms other than this one will not be accepted
- (4) Forms with insufficient or vague information will be returned for correction
- (5) Failure of any user to follow these guidelines can result in the loss of this privilege

FAX COMPLETED FORM TO (800) 217-3720

PLEASE TYPE OR PRINT LEGIBLY

CALLER _____ TELEPHONE # _____

FAX# _____ COMPANY NAME Range Resources

CO ADDRESS _____ CITY _____

WORKDATE _____ START TIME _____

COUNTY Clay TOWN _____

WORKING WITHIN CORPORATE LIMITS OF TOWN? YES ___ or NO X

WORK SITE ADDRESS SEE REMARKS

NEAREST INTERSECTING ST WV County Route 30 and WV County Route 19/8

WHEN PHYSICAL ADDRESS PROVIDED; IS EXCAVATION DIRECTLY AT ABOVE ADDRESS?
YES ___ or NO ___ If no; excavation length beyond work site address _____ (Ft, Yds, Mi) and direction _____ (N,S,E,W)

When only intersection provided as work site location (no address #) Must answer the questions below:

- A. LOCATE TO BEGIN OR INCLUDE INTERSECTION? YES ___ or NO X
Total Excavation Length To and Including Intersection _____ (Ft, Yds, Mi) direction ___ (N,S,E,W)
- B. LOCATE TO BEGIN A DISTANCE FROM AN INTERSECTION? YES X or NO ___
If YES, How far 4.5 MILE (Ft, Yds, Mi) in what direction WEST (N,S,E,W)
- C. WILL EXCAVATION LENGTH CONTINUE BEYOND THIS POINT? YES X or NO ___
If YES, How far 0.41 MILE (Ft, Yds, Mi) in what direction SOUTHEAST (N,S,E,W)

LATITUDE AND LONGITUDE GRIDS (GPS/GRID ID#) SEE EXHIBIT B

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EXCAVATION DEPTH VARIES AREA MARKED IN WHITE? YES BLASTING? UNKNOWN

MAR 13 2020

TYPE OF WORK _____

WV Department of
Environmental Protection

LOCATE: ST ___ SIDEWALK ___ PRIV PROP X FRONT ___ REAR ___ SIDES ___
OTHER _____

WORKING FOR _____ CONTACT PERSON _____

CONTACT PHONE # _____ ALT PHONE # _____

ALT CONTACT PERSON _____ ALT PHONE # _____

ADDITIONAL REMARKS SEE EXHIBIT A & B

Excavators are advised that there may be other underground facilities at their work area that are owned or operated by parties that are not members of MUWV and who must be contacted directly by the excavator.



**Miss Utility of West Virginia (WV811)
(Exhibit A)
Directions to Gas Well Elk River No. 108
API No. 47-015-00947**

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- Beginning at the intersection of US Interstate 79 Exit 34 (Wallback/Clay) and WV State Route 36 in Roane County, WV.
- Proceed South on WV State Route 36, for approximately 7.1 miles, to the intersection with WV State Route 4.
- Turn left onto WV State Route 4 and proceed Southeast, for approximately 2.5 miles, to WV State Route 16 (Main Street), on the right, in the town of Clay.
- Turn right onto WV State Route 16 (Main Street) and proceed Southeast, for approximately 1.2 miles, to WV County Route 11 (Triplett Ridge Road), on the left.
- Turn left onto WV County Route 11 (Triplett Ridge Road) and proceed Northeast, for approximately 0.2 miles, to WV County Route 11/9 (Dundon Road), on the right.
- Turn right onto WV County Route 11/9 (Dundon Road) and proceed Southeast, for approximately 1.2 miles, to WV County Route 30, on the right. *(Point No. 2)*
- Turn right onto WV County Route 30 and proceed Southeast, for approximately 9.0 miles, to the Well Access Road, on the right. *(Point No. 1)*
- Turn right onto the Well Access Road and proceed Southeast, for approximately 0.41 mile, arriving at Gas Well Elk River No. 108. *(Point No. 2)*

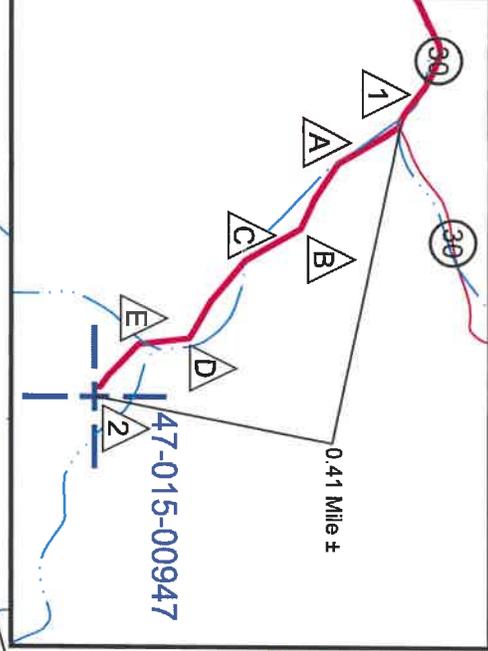
BIRCH RIVER OFFICE
237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606 fax: 304-649-8608

BRIDGEPORT OFFICE
172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035 fax: 304-848-5037

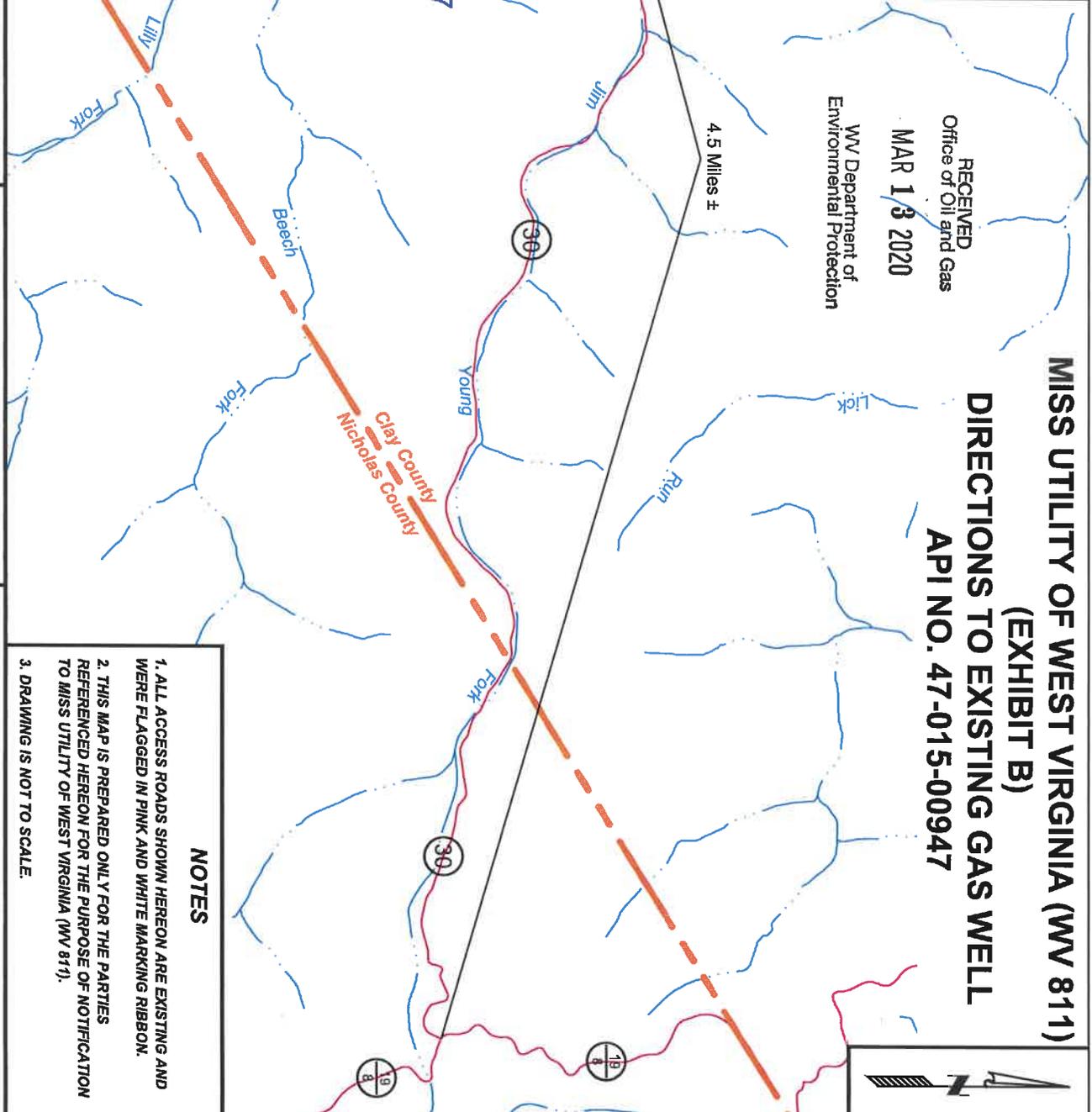
CHARLESTON OFFICE
301 R.I.I. Boulevard - Suite 5
Charleston, WV 25309
phone: 304-756-2949 fax: 304-756-2948

47-015-00947 P

Well Access Road Detail - NOT TO SCALE



SITE	LATITUDE	LONGITUDE
1	38.402806	-80.991522
2	38.398431	-80.986545
A	38.401926	-80.990861
B	38.401391	-80.989657
C	38.400596	-80.989075
D	38.399794	-80.987627
E	38.399063	-80.987519



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**MISS UTILITY OF WEST VIRGINIA (WV 811)
(EXHIBIT B)
DIRECTIONS TO EXISTING GAS WELL
API NO. 47-015-00947**

NOTES

1. ALL ACCESS ROADS SHOWN HEREON ARE EXISTING AND WERE FLAGGED IN PINK AND WHITE MARKING RIBBON.
2. THIS MAP IS PREPARED ONLY FOR THE PARTIES REFERENCED HEREON FOR THE PURPOSE OF NOTIFICATION TO MISS UTILITY OF WEST VIRGINIA (WV 811).
3. DRAWING IS NOT TO SCALE.

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

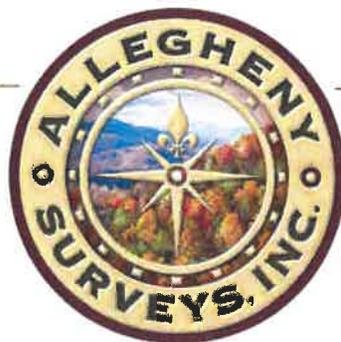
County: Clay
District: Henry
Date: February 27, 2020
Project No: 44-04-H-20
File Name: 4420 ELK RIVER NO.108

PREPARED FOR:

Range Resources

1369 Cochran Road
Carlton, PA 16311





POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: Range Resources
LEASE NAME AND WELL No. Elk River No. 108 - API No. 47-105-00947

POTENTIAL SAMPLE LOCATIONS

There appears to be no potential water sources within the required 1000 feet of the existing well Elk River No. 108.

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BIRCH RIVER OFFICE

237 Birch River Road
Birch River, WV 26610

phone: 304-649-8606 fax: 304-649-8608

BRIDGEPORT OFFICE

172 Thompson Drive
Bridgeport, WV 26330

phone: 304-848-5035 fax: 304-848-5037

CHARLESTON OFFICE

301 R.H. Boulevard - Suite 5
Charleston, WV 25309

phone: 304-756-2949 fax: 304-756-2948



March 5, 2020

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304

Re: Permit application

To whom it may concern:

Enclosed please find the notice of application to plug and abandon a well (Elk River #108) by Range Resources. Included in the packet is a copy of the bond sent to the WV DOT, Division of Highways, covering the roads needed to access the well site. Please let me know as soon as possible if you require any additional information.

If you ever have any questions, I can be reached at 724-743-6751 or by email at spinkerton@rangeresources.com or by the address listed below.

Thank you for your time.

Sincerely,

A handwritten signature in black ink, appearing to read 'Susan Pinkerton', written over a white background.

Susan Pinkerton
Planning & Regulatory Lead Operations Technician
Range Resources – Appalachia, LLC
3000 Town Center Blvd.
Canonsburg, PA 15317

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Enclosures