



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

Friday, March 02, 2018
WELL WORK PERMIT
Vertical / Plugging

CONSOLIDATION COAL COMPANY
1 BRIDGE STREET

MONONGAH, WV 265540000

Re: Permit approval for E. POGUE 26
47-103-00150-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: E. POGUE 26
Farm Name: MILLER, RONALD B., ETUX
U.S. WELL NUMBER: 47-103-00150-00-00
Vertical / Plugging
Date Issued: 3/2/2018

Promoting a healthy environment.

03/02/2018

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 NOVEMBER 30, 20 17
2) Operator's Well No. 8117
3) API Well No. 47-121-0090

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil / Gas / Liquid injection / Waste disposal /
(If "Gas, Production or Underground storage) Deep / Shallow
- 5) Location: Elevation 1141.15' Watershed WEST VIRGINIA FORK OF FISH CREEK
District CHURCH County WETZEL Quadrangle HUNDRED, WV.PA 7.5'
- 6) Well Operator CONSOLIDATION COAL COMPANY 7) Designated Agent RONNIE HARSH
Address 1 BRIDGE STREET Address 1 BRIDGE STREET
MONONGAH, WV 26554 MONONGAH, WV 26554
- 8) Oil and Gas Inspector to be notified Name DEREK HAUGHT 9) Plugging Contractor Name _____
Address P.O. BOX 85 Address _____
SMITHVILLE, WV 26178

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

SEE EXHIBIT No. 1 FOR A PREVIOUSLY PLUGGED & ABANDONED WELL.

SEE MSHA 101C EXEMPTION FOR LOVERIDGE # 22 MINR.

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

Work order approved by inspector Derek W. Haught Date 1/26/18

EXHIBIT NO.1

From the experience and technology developed since 1970 in plugging oil and gas wells for mining through, Consolidation Coal's Northern West Virginia Operations will utilize the following method to plug all future wells.

SOLID PLUG METHOD

- (a) If active well: clean out to total depth and plug back according to state regulations to a minimum of 200 feet below lowest minable coal seam.
- ★ (b) If abandoned well: clean out to first plug 200 feet below lowest minable coal seam. *PITTSBURGH CON ≈ 939'*
- (c) Circulate through tubing or drill steel an expanding Class A cement plug from a minimum of 200 feet below minable coal seam to a point 100 feet above minable coal.

Circulate through tubing or drill steel an expanding Class A cement plug from 100 feet above coal seam to surface.

A monument will be installed with API No. and stating "solid plug".

RECEIVED
Office of Oil and Gas

JAN 26 2018

WV Department of
Environmental Protection

01/02/2018

U. S. Department of Labor

U. S. Department of Labor
Mine Safety and Health Administration
4010 ...
...

4 JUN 1991

In the matter of
Consolidation Coal Company
Loveridge No. 22 Mine
I.D. No. 46-01433

Petition for Modification

Docket No. M-90-156-C

MSHA 101C

PROPOSED DECISION AND ORDER

On October 18, 1990, MSHA received a proposed amendment dated October 16, 1990, to amend a section of Paragraph 4 of a previously issued Decision and Order, Docket No. M-79-59-C, which granted a modification of the application of 30 CFR 75.1700 to Petitioner's Loveridge No. 22 Mine, located in Marion County, West Virginia. The Petitioner alleges that the alternative method outlined in the petition will at all times guarantee no less than the same measure of protection afforded by the standard.

MSHA personnel conducted an investigation of the petition and filed a report of their findings and recommendations with the Administrator for Coal Mine Safety and Health. After a careful review of the entire record, including the petition and MSHA's investigative report and recommendation, this Proposed Decision and Order is issued.

Finding of Fact and Conclusion of Law

The alternative method proposed by the Petitioner (as amended by the recommendations of MSHA) will at all times guarantee no less than the same measure of protection afforded the miners under 30 CFR 75.1700.

On the basis of the petition and the findings of MSHA's investigation, Consolidation Coal Company is granted a modification of the application of 30 CFR 75.1700 to its Loveridge No. 22 Mine.

ORDER

Wherefore, pursuant to the authority delegated by the Secretary of Labor to the Administrator for Coal Mine Safety and Health, and pursuant to Section 101(c) of the Federal Mine Safety and Health Act of 1977, 30 U.S.C., sec. 811(c), it is ordered that Consolidation Coal Company's Petition for Modification of the application of 30 CFR 75.1700 in the Loveridge No. 22 Mine is hereby:

GRANTED, conditioned upon compliance with the following terms and conditions:

I. Procedures to be utilized when plugging gas or oil wells.

4. (a) Cleaning out and preparing oil and gas wells.

Prior to plugging an oil or gas well, the following procedure shall be followed:

- (1) A diligent effort shall be made to clean the borehole to the original total depth. If this depth cannot be reached, the borehole shall be cleaned out to a depth which would permit the placement of at least 200 feet of expanding cement below the base of the lowest mineable coalbed.
- (2) When cleaning the borehole, a diligent effort shall be made to remove all the casing in the borehole. If it is not possible to remove all casing, the casing which remains shall be perforated, or ripped, at intervals spaced close enough to permit expanding cement slurry to infiltrate the annulus between the casing and the borehole wall for a distance of at least 200 feet below the base of the lowest mineable coalbed.
- (3) If the cleaned-out borehole produces gas, a mechanical bridge plug shall be placed in the borehole in a competent stratum at least 200 feet below the base of the lowest mineable coalbed, but above the top of the uppermost hydrocarbon-producing stratum. If it is not possible to set a mechanical bridge plug, a substantial brush plug may be used in place of the mechanical bridge plug.
- (4) A suite of logs shall be made consisting of a caliper survey directional deviation survey, and log(s) suitable for determining the top and bottom of the lowest mineable coalbed and potential hydrocarbon producing strata and the location for the bridge plug.
- (5) If the uppermost hydrocarbon-producing stratum is within 200 feet of the base of the lowest mineable coalbed, properly placed mechanical bridge plugs or a suitable brush plug described in subparagraph (a)(3) shall

be used to isolate the hydrocarbon producing stratum from the expanding cement plug. Nevertheless, a minimum of 200 feet of expanding cement shall be placed below the lowest mineable coalbed.

- (6) The wellbore shall be completely filled and circulated with a gel that inhibits any flow of gas, supports the walls of the borehole, and densifies the expanding cement. This gel shall be pumped through open-end tubing run to a point approximately 20 feet above the bottom of the cleaned out area of the borehole or bridge plug.
- (b) Plugging oil or gas wells to the surface. The following procedures shall be utilized when plugging gas or oil wells to the surface:
- (1) A cement plug shall be set in the wellbore by pumping an expanding cement slurry down the tubing to displace the gel and fill the borehole to the surface. (As an alternative, the cement slurry may be pumped down the tubing so that the borehole is filled with Portland cement or a Portland cement-fly ash mixture from a point approximately 100 feet above the top of the lowest mineable coalbed to the surface with an expanding cement plug extending from at least 200 feet below the lowest mineable coalbed to the bottom of the Portland cement.) There shall be at least 200 feet of expanding cement below the base of the lowest mineable coalbed.
 - (2) A small quantity of steel turnings, or other small magnetic particles, shall be embedded in the top of the cement near the surface to serve as a permanent magnetic monument of the borehole.
- (c) Plugging oil or gas wells using the vent pipe method. The following procedures shall be utilized when using the vent pipe method for plugging oil and gas wells:
- (1) A 4 1/2-inch or larger vent pipe shall be run into the wellbore to a depth of 100 feet below the lowest mineable coalbed and swedged to a smaller diameter pipe, if desired, which will extend to a point approximately 20 feet

above the bottom of the cleaned out area of the borehole or bridge plug.

- (2) A cement plug shall be set in the wellbore by pumping an expanding cement slurry, Portland cement, or a Portland cement-fly ash mixture down the tubing to displace the gel so that the borehole is filled with cement. The borehole and the vent pipe shall be filled with expanding cement for a minimum of 200 feet below the base of the lowest mineable coalbed. The top of the expanding cement shall extend upward to a point approximately 100 feet above the top of the lowest mineable coalbed.
 - (3) All fluid shall be evacuated from the vent pipe to facilitate testing for gases. During the evacuation of fluid, the expanding cement shall not be disturbed.
 - (4) The top of the vent pipe shall be protected to prevent liquids or solids from entering the wellbore, but permit ready access to the full internal diameter of the vent pipe when necessary.
- (d) Plugging oil and gas wells for use as degasification boreholes. The following procedures shall be utilized when plugging oil or gas wells for subsequent use as degasification boreholes:

- (1) A cement plug shall be set in the wellbore by pumping an expanding cement slurry down the tubing to displace the gel and provide at least 200 feet of expanding cement below the lowest mineable coalbed. The top of the expanding cement shall extend upward to a point above the top of the coalbed being mined. This distance shall be based on the average height of the roof strata breakage for the mine.
- (2) To facilitate methane drainage, degasification casing of suitable diameter, slotted or perforated throughout its lower 150 to 200 feet, shall be set in the borehole to a point 10 to 30 feet above the top of the expanding cement.
- (3) The annulus between the degasification casing and the borehole wall shall be cemented from

a point immediately above the slots or perforations to the surface.

- (4) The degasification casing shall be cleaned out for its total length.
 - (5) The top of the degasification casing shall be fitted with a wellhead equipped as required by the District Manager. Such equipment may include check valves, shutin valves, sampling ports, flame arrestor equipment, and security fencing.
- II. The following procedures shall apply to mining through a plugged oil or gas well:
- (a) The operator shall notify the District Manager or designee:
 - (1) Prior to mining within 300 feet of the well; and
 - (2) When a specific plan is developed for mining through each well.
 - (b) The MSHA District Manager or designee shall conduct a conference prior to mining through any plugged well to review and approve the specific procedures for mining through the well. Representatives of the operator, the representative of the miners, and the appropriate State agency shall be informed, within a reasonable time prior to the conference, and be given an opportunity to attend and participate. This meeting may be called by the operator.
 - (c) Mining through a plugged well shall be done on a shift approved by the District Manager or designee.
 - (d) The District Manager or designee, representative of the miners, and the appropriate State agency shall be notified by the operator in sufficient time prior to the mining through operation in order to have an opportunity to have representatives present.
 - (e) When using continuous or conventional mining methods, drivage sights shall be installed at the last open crosscut near the place to be mined to ensure intersection of the well, and again if necessary

to ensure that the sight line is not more than 50 feet from the well.

- (f) Firefighting equipment, including fire extinguishers, rock dust, and sufficient fire hose to reach the working face area of the mining through shall be available when either the conventional or continuous mining method is used. The fire hose shall be located in the last open crosscut of the entry or room. When the longwall mining method is implemented, the fire hose shall be extended to the face area of the mine through. All fire hoses shall be ready for operation during the mining through.
- (g) Sufficient supplies of roof support and ventilation materials shall be available and located at the last open crosscut. In addition, an emergency plug and/or plugs, shall be available within the immediate area of the mine through.
- (h) The quantity of air required by the approved ventilation system and methane and dust control plan, but not less than 9,000 cubic feet of air per minute shall be used to ventilate the working face during the mining through operation. On longwall sections, a minimum of 20,000 cfm shall be used to ventilate the working face during the mining through operation.
- (i) Equipment shall be checked for permissibility and serviced on the shift prior to mining through the well.
- (j) The methane monitor on the longwall, continuous mining machine, or cutting machine and loading machine shall be calibrated on the shift prior to mining through the well.
- (k) When mining is in progress, tests for methane shall be made with a hand-held methane detector at least every 10 minutes from the time that mining with the continuous mining machine, cutting machine, or loading machine is within 30 feet of the well until the well is intersected and immediately prior to mining through. When mining with longwall mining equipment, the tests for methane shall be made at least every 10 minutes when the longwall face is within 10 feet of the well. During the actual cutting through process, no individual shall be allowed on the return side until mining

through has been completed and the area has been examined and declared safe.

- (l) When using continuous or conventional mining methods, the working place shall be free from accumulations of coal dust and coal spillages, and rock dust shall be placed on the roof, rib, and floor to within 20 feet of the face when mining through the well. On longwall sections, rock dusting shall be conducted and placed on the roof, rib, and floor up to both the headgate and tailgate gob.
- (m) When the wellbore is intersected, all equipment shall be deenergized and the place thoroughly examined and determined safe before mining is resumed. Any well casing shall be removed and no open flame shall be permitted in the area until adequate ventilation has been established around the wellbore.
- (n) After a well has been intersected and the working place determined safe, mining shall continue in by the well a sufficient distance to permit adequate ventilation around the area of the wellbore.
- (o) No person shall be permitted in the area of the mining through operation except those actually engaged in the operation, company personnel, representatives of the miners, personnel from MSHA, and personnel from the appropriate State agency.
- (p) The mining through operation shall be under the direct supervision of a certified official. Instructions concerning the mining through operation shall be issued only by the certified official in charge.
- (q) MSHA personnel may interrupt or halt the mining through operation when it is necessary for the safety of the miners.
- (r) A copy of the petition shall be maintained at the mine and be available to the miners.
- (s) The Petitioner shall file a plugging affidavit setting forth the persons who participated in the work, a description of the plugging work, and a certification by the Petitioner that the well has been plugged as described.

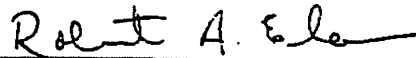
- (t) Within 60 days after this Proposed Decision and Order becomes final, the Petitioner shall submit proposed revisions for their approved 30 CFR Part 48 training plan to the Coal Mine Safety and Health District Manager. These proposed revisions shall include initial and refresher training regarding compliance with the alternative method stated in the petition and the special terms and conditions stated in the Proposed Decision and Order.

The terms and conditions of this Proposed Decision and Order shall supersede the Decision and Order, Docket No. M-79-59-C, issued August 17, 1979.

All rights, terms and conditions granted under this Proposed Decision and Order shall terminate if it is not implemented within six months from the date that the Proposed Decision and Order becomes final. However, an extension of time may be granted by the Administrator for good cause shown by the Petitioner.

Any party to this action desiring a hearing on this matter must file in accordance with 30 CFR 44.14, as amended, (55 Federal Register, December 28, 1990) within 30 days. The request for hearing must be filed with the Administrator for Coal Mine Safety and Health, 4015 Wilson Boulevard, Arlington, Virginia 22203.

If a hearing is requested, the request shall contain a concise summary of position on the issues of fact or law desired to be raised by the party requesting the hearing, including specific objections to the proposed decision. A party other than Petitioner who has requested a hearing shall also comment upon all issues of fact or law presented in the petition, and any party to this action requesting a hearing may indicate a desired hearing site. If no request for a hearing is filed within 30 days after service thereof, the Decision and Order will become final and must be posted by the operator on the mine bulletin board at the mine.



Acting Deputy Administrator
for Coal Mine Safety and Health


Certificate of Service

I hereby certify that a copy of this proposed decision was served personally or mailed, postage prepaid, this 4th day of June, 1991, to:

Walter J. Scheller III, Esq.
Consolidation Coal Company
Consol Plaza
Pittsburgh, Pennsylvania 15241-1421

Robert Stropp, Esq.
United Mine Workers of
America
900 Fifteenth Street, NW.
Washington, DC 20005

Ms. Linda Raisovich-Parsons
Special Assistant
United Mine Workers of America
900 Fifteenth Street, NW.
Washington, DC 20005


MARY ANN GRIFFIN
Mine Safety Clerk

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: MILLER, RONALD B. ETUX. Operator Well No.: E. POGUE #26

LOCATION: Elevation: 1120.00 Quadrangle: HUNDRED
District: CHURCH County: WETZEL
Latitude: 6910 Feet South of 39 Deg. 40 Min. 0 Sec.
Longitude 560 Feet West of 80 Deg. 25 Min. 0 Sec.

Well Type: OIL _____ GAS X

Company: Carnegie Natural Gas Company
800 Regis Avenue
Pittsburgh, PA 15236

Coal Operator Consolidation Coal Company
or Owner P. O. Box 1314
Morgantown, WV 26505

Agent: James C. Stephenson

Coal Operator _____
or Owner _____

Permit Issued: 09/22/92

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Wetzel

ss:

Rex L. Mason and Ralph C. Wright being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Randal Mick Oil and Gas Inspector representing the Director, say that said work was commenced on the 1st day of October, 1992, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Gelled Well To Surface	3275'	Surface	2" - 3267'	0'
Cement Plugs:	2866'	2866'	5 3/16" - 2183'	0'
	2190'	2090'	6 5/8" - 211'	1930'
	1000'	760'	10 3/4" - 0'	153'
	640'	540'		
	200'	Surface	Ripped 6 5/8" Through Coals	

Steel Cap On Surface Casing With API No. Noted

Description of monument: Located Below Ground Level Due to Location In Yard
and that the work of plugging and filling said well was completed on the 15th day of October, 1992.

And further deponents saith not.

Sworn and subscribed before me this 2ND day of November, 1992
My Commission expires OCTOBER 25, 2001



COMMISSIONER
FOR WEST VIRGINIA
L. WAYNE JONES
Notary Public

My Commission expires October 25, 2001

Rex L. Mason
Ralph C. Wright
L. Wayne Jones Notary Public
Randal Mick

NET 0150-P

FORM LW-4(B) PERMIT COPY
Obverse
7/85



1) Date: September 8, 1992
2) Operator's Well No. E. Pogue #26
3) API Well No. 47 - 103 - 0150-P
State County Permit

SP 11
Permit
Office

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
APPLICATION FOR A PERMIT TO PLUG AND ABANDON A WELL

4) WELL TYPE: A Oil _____ / Gas X / Liquid injection _____ / Waste disposal _____
B (If "Gas". Production X / Underground storage _____ / Deep _____ Shallow X /
5) LOCATION: Elevation: 1120 Watershed: Branch of Fish Creek
District: Church County: Wetzel Quadrangle: Mannington NW 4
6) WELL OPERATOR Carnegie Nat'l Gas COE 8650 7) DESIGNATED AGENT James C. Stephenson
Address 800 Regis Avenue Address P. O. Box 387
Pittsburgh, PA 15236 Mannington, WV 26582
8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) PLUGGING CONTRACTOR
Name Randal Mick Name Company Tools and Personnel
Address 111 Blackshear Drive Address _____
Mannington, WV 26582
986-3324

457

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

Randy Mick

GEL 3275 - 2966
CEMENT 2966 - 2866
GEL 2866 - 2190
CEMENT 2190 - 2090
GEL 2090 - 1000
CEMENT 1000 - 790
GEL 790 - 640
CEMENT 640 - 540
GEL 540 - 200
CEMENT 200 - SURFACE

CEMENT 100' - SURFACE, IF ABLE TO PULL ALL 10"
PULL ALL PIPE POSSIBLE.
CUT AT FREEPOINT AND PULL IF UNABLE TO MOVE.
CEMENT 100' BLOCK AT CASING CUTS.
CEMENT 100' BLOCK AT ALL CASING BOTTOMS LEFT.
INSTALL PERMANENT MARKER.

See well plugging procedure

OFFICE USE ONLY
PLUGGING PERMIT

Permit number 47-103-0150-P Date September 22 19 92

This permit covering the well operator and well location shown below is evidence of permission granted to plug in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, subject to any modifications and conditions on the reverse hereof.

Permit expires 9-22-94 unless plugging is commenced prior to that date and prosecuted with due diligence.

14273

Bond: <i>[Signature]</i>	Agent: <i>[Signature]</i>	Plat: <i>[Signature]</i>	Casing: <i>[Signature]</i>	WPCP	OTHER
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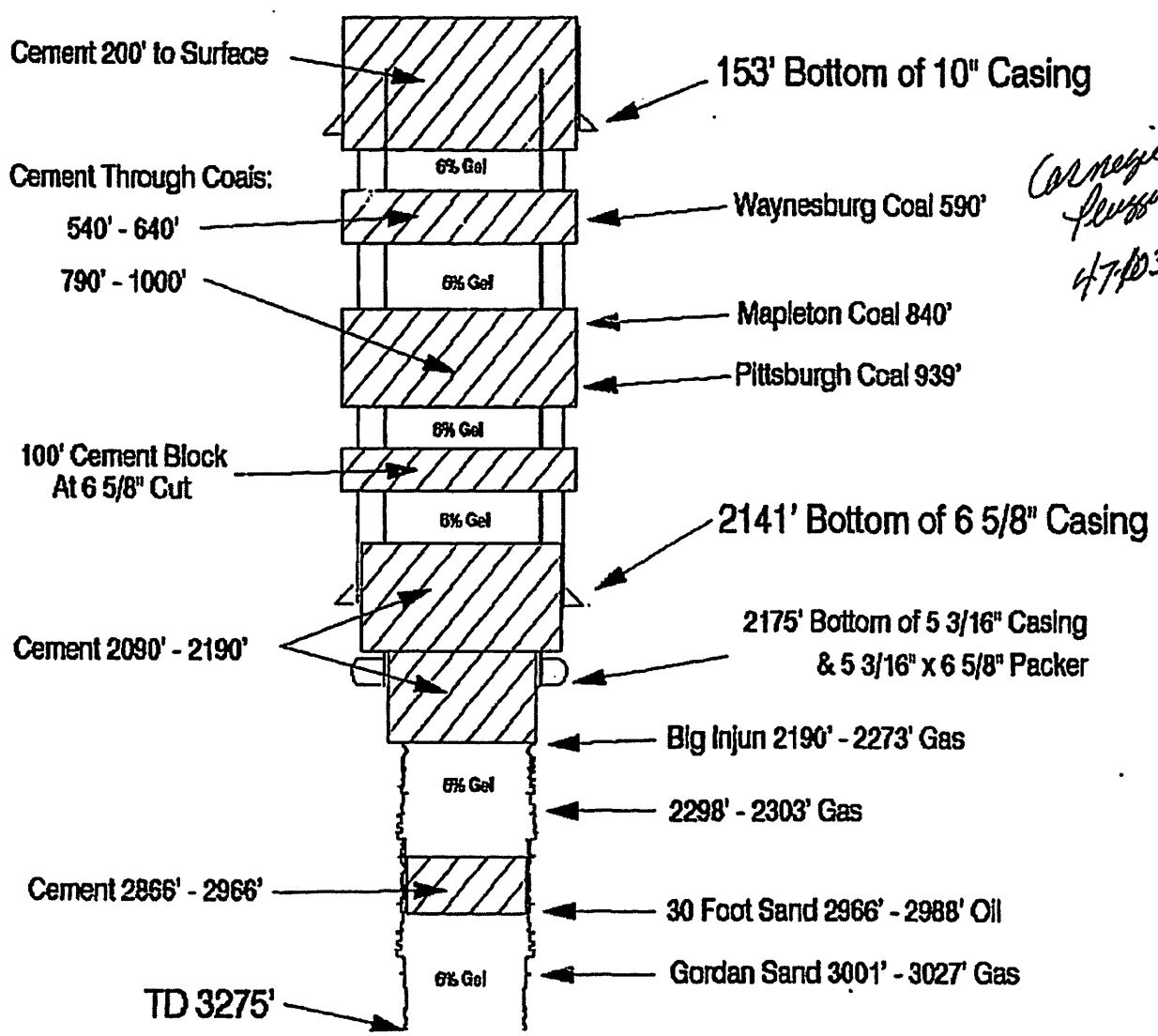
Jamie Stevens

Director, Division of Oil and Gas

NOTE: Keep one copy of this permit posted at the plugging location.

Permit

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.



*Carnegie Pressing
47, 103-0150-P*

WEST VIRGINIA DEPARTMENT OF MINES

WV-2261-72

OIL AND GAS DIVISION

WELL RECORD

Well No. WELL TO BE DRILLED DEEPER Oil or Gas Well Gas

Company Carnegie Natural Gas Co
 Address 1014 Frick Bldg Pgh Pa
 Name Eliza A Fogus Area 7
 Location (water) High Creek
 Well No. 1-26 Key 1180
 District Church County Wetzel
 The surface of tract is owned in fee by Eliza A Fogus
Burton W Va Address
 Mineral rights are owned by Same
Same Address
 Drilling commenced 10-14-07
 Drilling completed 12-28-07
 Date shot Hot shot Depth of shot
 Open Flow 100 lbs Water in
100 lbs Water in
 Volume Co. Ft.
 Rock Pressure
 Oil
 Fresh water 2222
 Salt water

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packoff <u>RT</u>
1 1/2			
2		155	Size of <u>5 3/16 X</u>
3		1347	<u>6 3/8</u>
4 1/2		2141	Depth set <u>2187</u>
5 3/8		2187	
			Perf. top
			Perf. bottom
			Perf. top
			Perf. bottom
CASINO CEMENTED SIZE No. FT. Date			
COAL WAS ENCOUNTERED AT 232 FEET INCHES			
FEET	INCHES	FEET	INCHES
FEET	INCHES	FEET	INCHES

Formation	Color	Start or Stop	Top	Bottom	Oil Gas or Water	Depth Focals	Remarks
Pgh Coal			939	?			
Big Injun			2170	2435	Gas	2190 2273	
Fifty Foot			2632	2942	"	2268-2303	
Thirty Foot			2666	2986	Show oil	2979-2984	
Total Depth:				3001			

Note: Original Depth of well 10-28-07 2263
 Drilled Deeper 1-27-22 to Total Depth of 3001

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Environmental Protection

03/02/2018

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

WELL RECORD

Permit No. Wet- 150

Gas Well

Mannington N.W. 1/4 Quad.

Company - Carnegie Natural Gas Co.
 Address - Pittsburgh, Penna
 Farm - Eliza Pogue. Acres 7
 Location - Branch Fish Creek
 Well No. - 1-26. Elev. 1120
 District - Church County - Wetzel
 Surface - Eliza Pogue.
 Burton, W. Va.

CASING & TUBING

10 153
 6-5/8 2141
 5-3/16 2187
 5-3/16 694 linear

Mineral - same
 Drilling - Commenced- 1-8-37
 Completed- 1-25-37
 Date Shot -
 Open Flow - Dry in drilling deeper
 Rock Press. -
 Oil -
 Fresh Water -
 Salt Water -

PACKER

Kind - Hook Wall
 Size - 5-3/16 x 6-5/8
 Depth- 2187

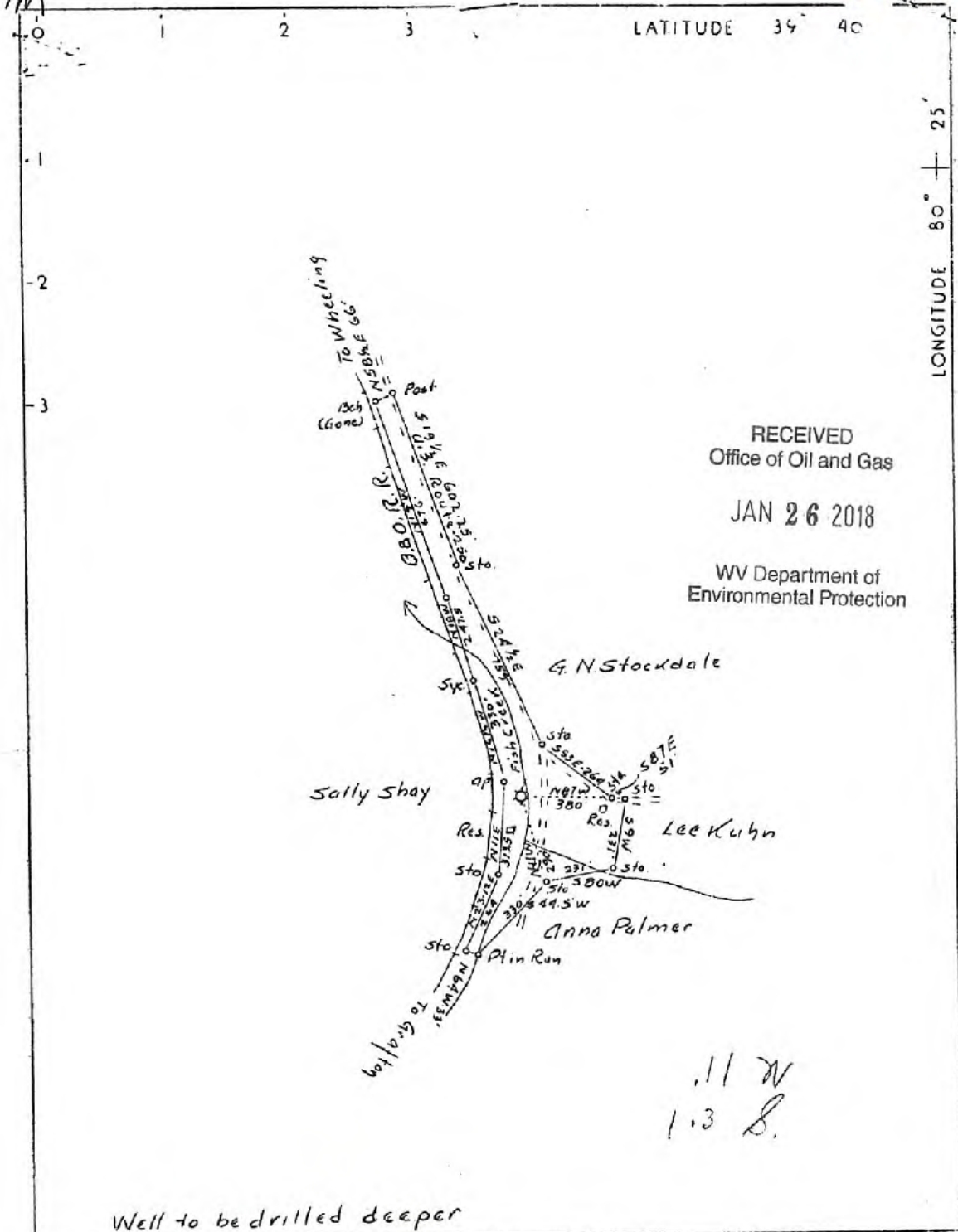
Formation Color			Hor TOP	Bottom	Result	Formation Color			Hor TOP	Bottom	Result
✓ Sand			3001	3027	Blew out Gas	3003-17	Gordon				
Slate	Black	S	3027	3055							
Lime	White	H	3055	3062							
Slate	Black	S	3062	3064							
Sand	Gray	H	3064	3088							
Red Rock	Red	S	3088	3093							
Sand	Gray	H	3093	3107							
Slate	Black	S	3107	3117							
Lime	White	H	3117	3128							
Slate	Black	S	3128	3132							
✓ Sand	Gray	H	3132	3155	Fourth						
Slate	Black	S	3155	3170							
Lime	White	S	3170	3189							
✓ Sand(broken)	White		3189	3196	Fifth						
Lime	White	S	3196	3227							
Slate	Black	S	3227	3239							
Lime	White	H	3239	3250							
Slate	Black	S	3250	3270							
Lime	White	S	3270	3274							
Slate	Gray	S	3274	3285							
Slate	Black	S	3285	3304							
Lime	White	H	3304	3315							
Slate	Black	S	3315	3330							
Lime	White	S	3330	3346							
Slate	Gray	S	3346	3350							
Lime	White	H	3350	3355							
Total Depth				3355							

RECEIVED
 Office of Oil and Gas

JAN 26 2018

WV Department of
 Environmental Protection

103-001509



Well to be drilled deeper

Company Carnegie Natural Gas Co.
 Address Pittsburgh, Pa.
 Farm Eliza A. Pogue
 Tract One Acres 7 Lease No. E-6281-72
 Well(Farm)No. One Serial No. 26
 Elevation(Spirit Level) 1120'
 Quadrangle Mannington N.W. 1/4 (166)
 County Wetzel District Church
 Engineer D. T. Britton
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____
 Date 12/23/36 Scale 1" = 400'

STATE OF WEST VIRGINIA
 Department of Mines
 OIL AND GAS DIVISION
 Charleston

WELL LOCATION MAP

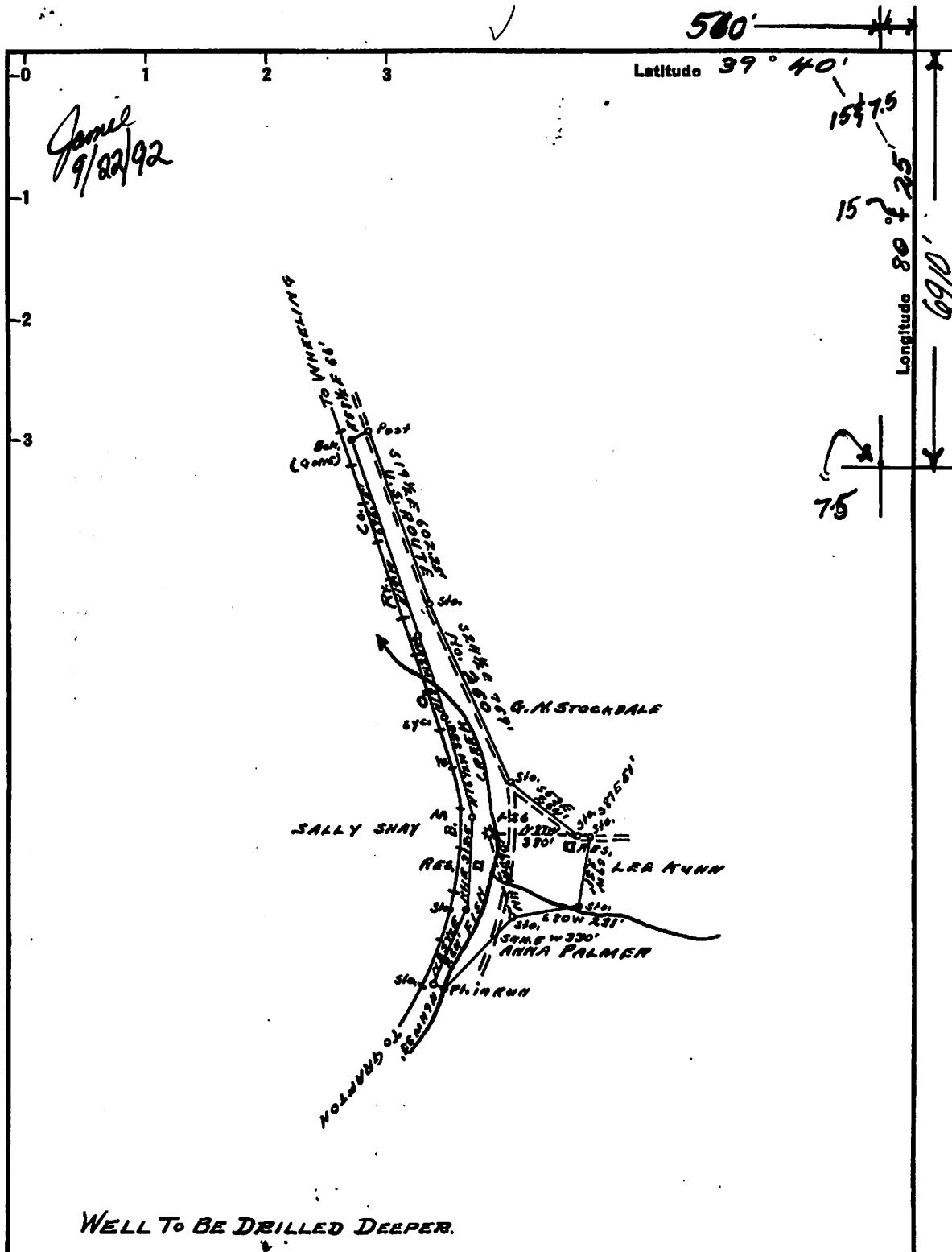
File No. WET-150

+ Denotes location of well on U.S. Topographic Maps, scale 1 to 62,500. latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

6-0 0

03/02/2018



Company Carnegie Natural Gas
 Address 800 Regal Avenue, Pittsburgh, Pa.
 Farm ELIZA A. POGUE SURFACE
 Tract ONE Acres 7 Lease No. E-628172
 Well (Farm) No. 1 Serial No. 26
 Elevation (Spirit Level) 1120'
 Quadrangle MANNINGTON N.W. 1/4 15
 County WETZEL District CHURCH
 Engineer R. T. Britton
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____
 Date 12-23-36 Scale 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON # 28, MTW 1909
 70333
WELL LOCATION MAP
 API Well No. 47-103-00150 P
 HUNDRED 7.5
 + Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.
 SEP 26 1932

James
9/22/92

03/02/2018

WW-4A
Revised 6-07

1) Date: NOVEMBER 30, 2017
2) Operator's Well Number 8117
3) API Well No.: 47 - 103 - 00150

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>RUSTY W. & REBECCA J. PAGE</u>	Name <u>CONSOLIDATION COAL CO.</u>
Address <u>401 HORNET HWY</u>	Address <u>1 BRIDGE STREET</u>
<u>BURTON, WV 26562</u>	<u>MONONGAH, WV 26554</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>DEREK HAUGHT</u>	(c) Coal Lessee with Declaration
Address <u>P.O. BOX 85</u>	Name _____
<u>SMITHVILLE, WV 26178</u>	Address _____
Telephone <u>(304) 206-7813</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.

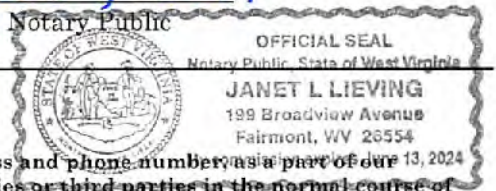
Ronnie Harsh

Well Operator	<u>CONSOLIDATION COAL COMPANY</u>	RECEIVED Office of Oil and Gas
By:	<u>RONNIE HARSH</u>	
Its:	<u>PROJECT ENGINEER</u>	JAN 26 2018
Address	<u>1 BRIDGE STREET</u>	
	<u>MONONGAH, WV 26554</u>	WV Department of Environmental Protection
Telephone	<u>(304) 534-4748</u>	

Subscribed and sworn before me this 30th day of November, 2017

My Commission Expires June 13, 2024

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.

WW-9
(5/16)

API Number 47 - 103 - 00150
Operator's Well No. 817

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

Operator Name Consolidation Coal Company OP Code 10950

Watershed (HUC 10) WEST VIRGINIA FORK OF FISH CREEK Quadrangle HUNDRED, WV, PA 7.5'

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.

-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

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 Ronnie Harsh

Company Official (Typed Name) Ronnie Harsh

Company Official Title Project Engineer

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WV Department of
Environmental Protection

Subscribed and sworn before me this 30th day of November, 2017

Janet L. Liewing
Notary Public
June 13, 2024



My commission expires _____

03/02/2018

Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH _____

Lime 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	<u>100</u>	See Attachment	<u>100</u>

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: Derek M. Haught

Comments: _____

Title: Oil & Gas Inspector Date: 1/26/18

Field Reviewed? (X) Yes () No

103-001504

CAUTION SEED

• 1064 E MAIN HWY 60 HOUSE #2 • MOREHEAD KY 40351 • AMS # 4923



NOTICE TO CONSUMERS

Notice: Arbitration/conciliation/mediation required by several states. Under the seed laws of several states, arbitration, mediation, or conciliation is required as a prerequisite to maintaining a legal action based upon the failure of seed, to which this notice is attached, to produce as represented. The consumer shall file a complaint (sworn for AR, FL, IN, MS, SC, TX, WA; signed only CA, ID, ND, SD) along with the required filing fee (where applicable) with the Commissioner/Director/Secretary of Agriculture, Seed Commissioner (IN), or Chief Agricultural Officer within such time as to permit inspection of the crops, plants, or trees by the designated agency and the seedsmen from whom the seed was purchased. A copy of the complaint shall be sent to the seller by certified or registered mail or as otherwise provided by state statute.

MIXTURE-COASTAL SEED 2015

LOT NO: 7M1020 NET WT 50
CROP: 58 INERT: 1.56 WEED SEED: .26

KIND VARIETY
ANNUAL RYEGRASS MAGNUM
ORCHARDGRASS POTOMAC
COATING MATERIAL
PERENNIAL RYEGRASS LINN
CLOVER NOT STATED
COATING MATERIAL
TIMOTHY CLIMAX
BIRDSFOOT TREFOIL NOT STATED
COATING MATERIAL
LADINO CLOVER SEMINOLE
COATING MATERIAL

ORG	PURE	GERM	HARD	DORM	TEST
OR	29.40	90.00	.00	.00	10/16
OR	11.39	85.00	.00	.00	11/16
	8.00	.00	.00	.00	11/16
OR	19.60	85.00	.00	.00	11/16
OR	6.40	85.00	.00	.00	12/16
	3.40	.00	.00	.00	12/16
CAN	9.80	85.00	.00	.00	10/16
CAN	2.83	83.00	7.00	.00	11/16
	1.91	.00	.00	.00	11/16
OR	3.17	60.00	25.00	.00	8/16
	1.70	.00	.00	.00	8/16

NOTICE TO BUYER: WE WARRANT THAT SEEDS WE SELL WILL CONFORM TO THE LABEL DESCRIPTION REQUIRED UNDER STATE AND FEDERAL LAWS, WITHIN RECOGNIZED TOLERANCES. WE MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR OTHERWISE, WHICH WOULD EXTEND BEYOND SUCH DESCRIPTIONS, AND IN ANY EVENT OUR LIABILITY FOR BREACH OF ANY WARRANTY OR CONTRACT WITH RESPECT TO SUCH SEED IS LIMITED TO THE PURCHASE PRICE OF SUCH SEEDS.

Memo
Treatments

NOXIOUS WEEDS PER LB

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Environmental Protection

03/02/2018

Consolidation Coal Company
Northern West Virginia Operations
1 Bridge Street
Monongah, WV 26554

phone: 304-534-4748
fax: 304-534-4739
e-mail: ronnieharsh@consolenergy.com
web: www.coalsource.com

*Name: RONNIE HARSH
*title: Project Engineer

April. 7, 2014

Department of Environmental 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, Consolidation Coal Company, Northern West Virginia Operations, submits the following procedures utilizing pit waste.

Upon submitting a well work application (without general permit for Oil and Gas Pit Waste Discharge Application), Consolidation Coal Company, Northern West Virginia Operations, 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 DEP impoundment facilities number U-78-83, U-104-83, or U-1011-93.

Sincerely,



Ronnie Harsh
Project Engineer

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03/02/2018

N/A

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
GROUNDWATER PROTECTION PLAN

Operator Name: CONSOLIDATION COAL COMPANY

Watershed (HUC 10): WEST VIRGINIA FORK OF FISH CREEK Quad: HUNDRED, WV,PA 7.5'

Farm Name: _____

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

[Empty response box for question 1]

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

[Empty response box for question 2]

- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

[Empty response box for question 3]

- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

[Empty response box for question 4]

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- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.

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Environmental Protection

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

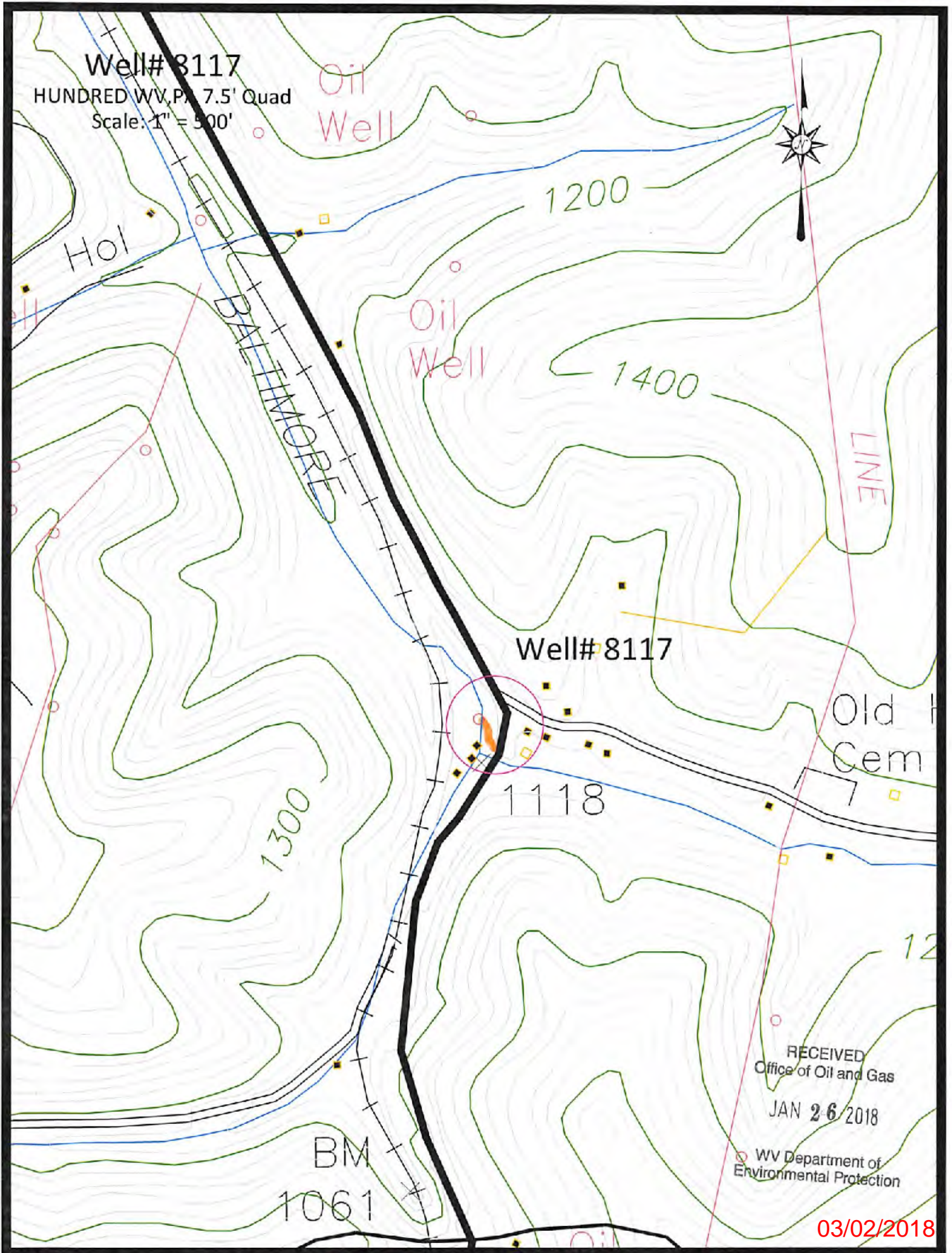
Signature: _____

Date: _____

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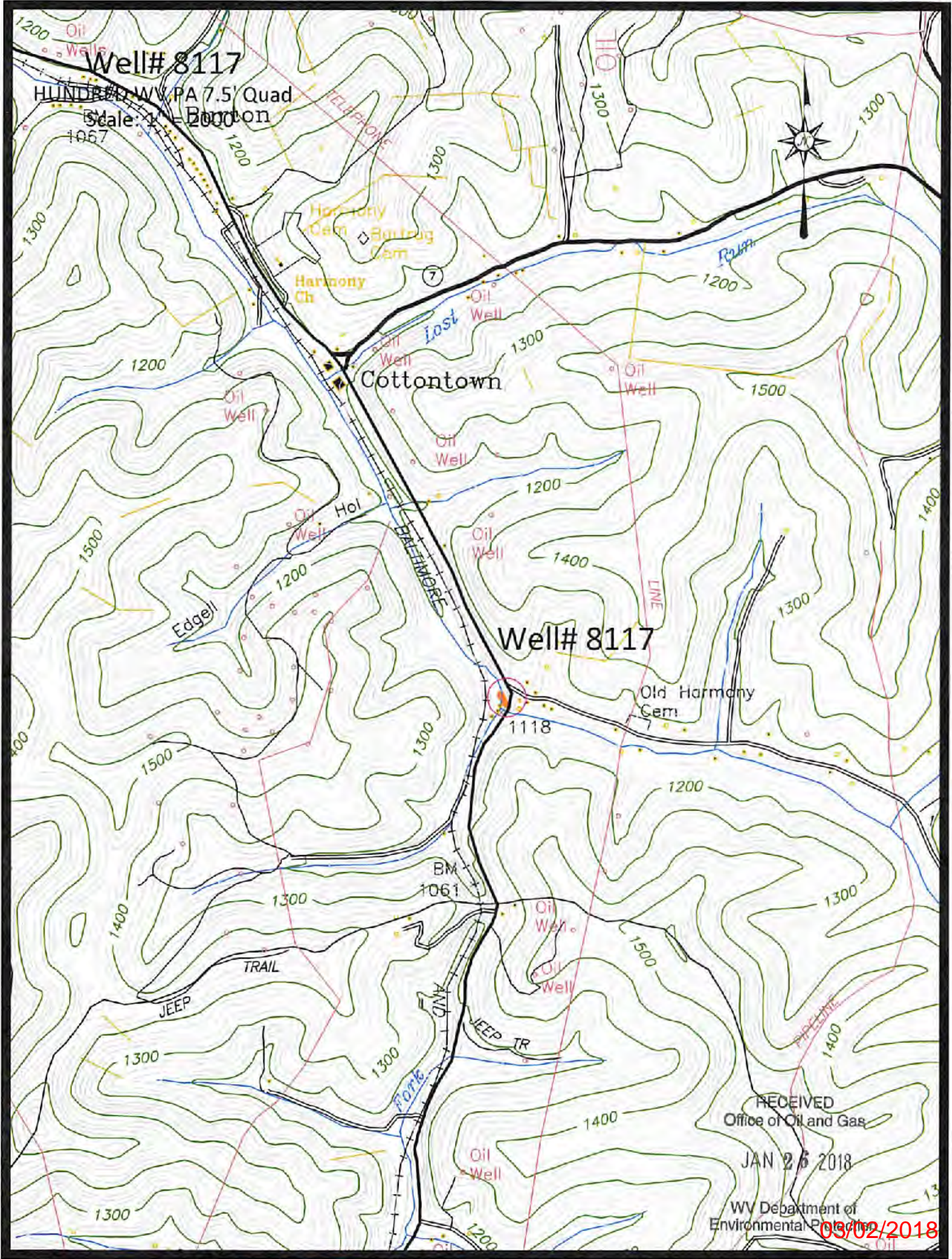
JAN 26 2018

WV Department of
Environmental Protection 03/03/2018



Access Road

03/02/2018

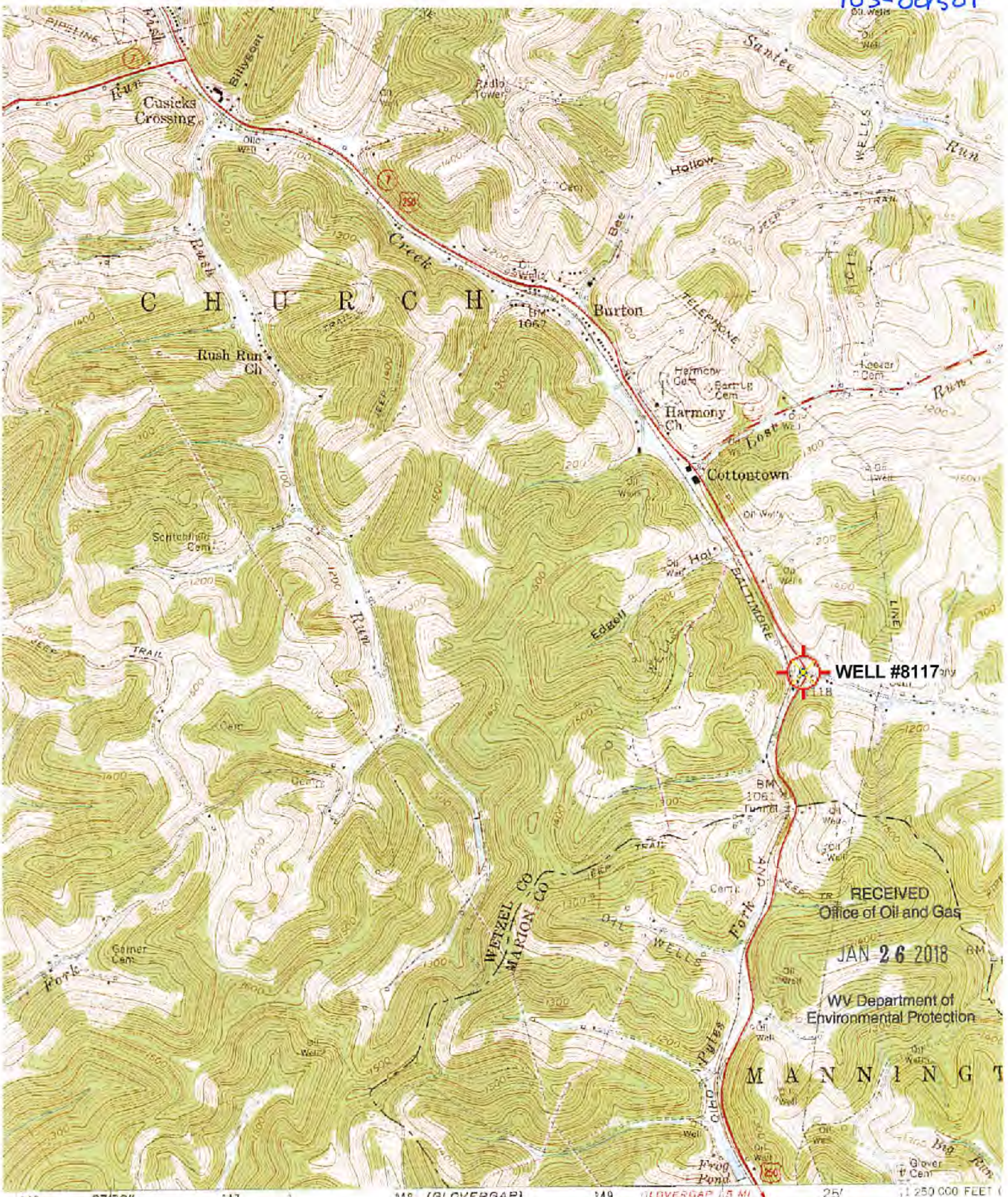


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Access Road

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103-00450P



WELL #8117

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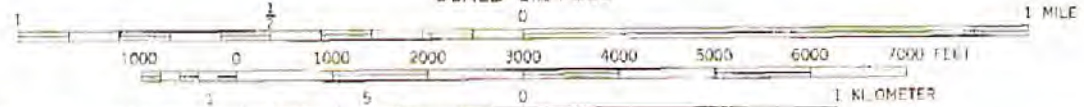
JAN 26 2018

WV Department of
Environmental Protection

MANNING

146 27/30" 147 148 (GLOVER GAP) 4963 IN SW 149 GLOVER GAP 15 MI FAIRMONT 23 MI 25' 1:250 000 FEET

SCALE 1:24 000



03/02/2018

*Hundred; WV,PA Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640", 1 cm = 240Mt

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-103-00150 WELL NO.: 8117

FARM NAME: ELIZA POGUE

RESPONSIBLE PARTY NAME: CONSOLIDATION COAL COMPANY

COUNTY: WETZEL DISTRICT: CHURCH

QUADRANGLE: HUNDRED WV, PA 7.5'

SURFACE OWNER: RUSTY W. & REBECCA J. PAGE

ROYALTY OWNER: _____

UTM GPS NORTHING: 4,388,842 m (1145.15')

UTM GPS EASTING: 549,933 m GPS ELEVATION: 348 m

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential _____
Real-Time Differential

Mapping Grade GPS _____ : Post Processed Differential _____
Real-Time Differential _____

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

[Signature] Professional Surveyor NOVEMBER 30, 2017
Signature Title Date

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