west virginia department of environmental protection

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

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

December 01, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-6101466, issued to CONSOLIDATION COAL COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: L-84
Farm Name: CONSOLIDATION COAL CO.
API Well Number: 47-6101466
Permit Type: Plugging
Date Issued: 12/01/2014

Promoting a healthy environment.

6101466CP

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

Gl 01466C P

FORM WW-4(B)
Rev. 2/01

1.) Date: October 14, 20 14
2.) Operator's Well No. L-84
3.) API Well No. 47 - 61 - 01466
State County Permit

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
APPLICATION FOR A PERMIT TO PLUG & ABANDON

4.) WELL TYPE: Oil _____ / Gas X / Liquid injection _____ / Waste disposal _____ /
(IF "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X

5.) LOCATION: Elevation: 1354' Watershed: Paw Paw Creek

District: Battelle County: Monongalia Quadrangle: Mannington 7.5'

6.) WELL OPERATOR Consolidation Coal Co.
Address 1 Bridge St.
Monongah, WV 26554

7.) DESIGNATED AGENT Ronnie Harsh
Address 1 Bridge St.
Monongah, WV 26554

8.) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Gayne Knitowski
Address P.O. Box 108
Gormania, WV 26720

9.) PLUGGING CONTRACTOR
Name _____
Address _____
_____

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Office of Oil & Gas
OCT 17 2014

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

SEE EXHIBIT NO. 1

OK BWM

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

Work order approved by inspector _____ Date _____

6101466CP

EXHIBIT NO. 1

The work order for the manner of plugging this well is as follows:

The wellbore will be cleaned out to the total depth or attainable bottom. An attempt to remove all casing shall be made by pulling a minimum of 150% of the casing string weight. From the total depth or attainable bottom to the surface, casing will be removed so that only a single string will be left in the wellbore, if it can be removed. Intact and uncemented casing as determined by electronic logging shall be perforated, ripped, or milled at no greater than 100 ft. intervals from total depth or attainable bottom, to the top of the casing. A borehole survey will be conducted to determine the top and bottom of any mineable coal seam. In addition, starting at a point 5 ft. below through 5 ft. above any mineable coal seam, any casing shall be ripped, cut, or perforated on no greater than 5 ft. intervals. Circulation will have been established using gelled water to the clean out depth. Expanding cement will be placed from the total depth or attainable bottom to 100 ft. above any mineable coal seam. From that point to the surface, ~~a light cement mixture shall be used to fill the wellbore.~~ A monument with the API No. will be set on the wellbore at the surface. All plugging work shall comply with WV Code Chapter 22 Article 6.

★ DOES NOT APPEAR TO BE ANY CASING IN THIS WELL.

6.2a
6.6a ★ FROM THAT POINT TO THE SURFACE SHALL BE FILLED WITH CLASS A PORTLAND CEMENT WITH NO MORE THAN 3% $CaCl_2$ AND NO OTHER ADDITIVES,

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Office of Oil & Gas
OCT 17 2014

★ 6.11 PERMANENT MARKER - REFER TO 6.11 TO SET MONUMENT.

JW MM

6101466CP

WR-35

DATE: September 2, 2004
API# : 47-6101466

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm Name: Consolidation Coal Company Operator Well No.: L-84

LOCATION: Elevation: 1354 Quadrangle: Mannington

District: Battelle County: Monongalia
Latitude: 3422.67 Feet South of 39 Deg. 37 Min. 30 Sec.
Longitude: 2898.33 Feet West of 80 Deg. 17 Min. 30 Sec.

Company: CNX Gas Company LLC (North)

	Casing & Tubing	Used In Drilling	Left In Well	Cement Fill Up Cu. Ft.
Address: 1800 Washington Road				
Pittsburgh, PA 15241				
Agent: Edwin Merrifield				
Inspector: Steve Mossor				
Date Permit Issued: 1/21/2003				
Date Well Work Commenced: Existing Borehole				
Date Well Work Completed: Converted to well				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet): 965				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 950				

OPEN FLOW DATA

Producing formation Pittsburgh Coal Seam Pay zone depth (ft) 950
Gas: Initial open flow 113 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 113 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 0 Hours
Static rock pressure 1 psig (surface pressure) after - Hours

Second producing formation None Pay zone depth (ft) _____
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 pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Joseph P Aman
By: Joseph P. Aman
Date: September 2, 2004

RECEIVED
Office of Oil & Gas
Office of Chief
SEP 07 2004
WV Department of
Environmental Protection

61 01466CP

2898.33' — — —

(+) DENOTES LOCATION OF WELL ON U.S.G.S. TOPOGRAPHIC MAP

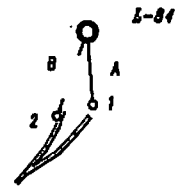
LATITUDE 39 37' 30"

LONGITUDE 80 17' 30"

3422.67'

N

CONSOLIDATION COAL CO.
150 AC.
967/68
27-20



CONSOLIDATION COAL CO.
150 AC.
967/68
27-20

TIES

A - 175 10 36 243.42'
B - 200 39 49 301.52'

1 - CONSOL WELL # 3864 (Plugged)
2 - 10" POWER POLE

NOTE :
1) CONSOLIDATION COAL COMPANY ET.AL. OWN THE MINERAL ON THIS TRACT.
2) THIS WELL IS AN EXISTING VENTILATION BOREHOLE BEING CONVERTED TO A CBM GOB WELL.

FILE NO. 02-KH-37
DRAWN BY : R.A. KITZMILLER
SCALE : 1 : 500'
MIN. DEGREE OF ACCURACY 1 / 200'
PROVED SOURCE OF ELEVATION : SPOT ELEVATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED) Robert A Kitzmiller
Professional Surveyor No. 635

ROBERT A. KITZMILLER LICENSED PROFESSIONAL SURVEYOR WEST VIRGINIA

WV. DEPT. OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS DIVISION
1356 HANSFORD STREET
CHARLESTON, WV. 25301

DATE OCTOBER 4, 20 02
OPERATOR'S WELL NO. L-84
API WELL NO.
47 - 061 - 01466C
STATE COUNTY PERMIT NO.

WELL TYPE: OIL ☐ GAS ☐ CBM ■ LIQUID INJECTION ☐ WASTE DISPOSAL ☐
IF "GAS", PRODUCTION ■ STORAGE ☐ DEEP ☐ SHALLOW ■

LOCATION: ELEVATION 1354' WATERSHED PAW PAW CREEK
DISTRICT BATTELLE COUNTY MONONGALIA
QUADRANGLE MANNINGTON NEAREST TOWN KLONDIKE
SURFACE OWNER CONSOLIDATION COAL CO. ACREAGE 150 AC.
OIL & GAS ROYALTY OWNER * See Note LEASE ACREAGE ---
LEASE NO. ---

PROPOSED WORK: DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐
PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) EXISTING VENTILATION BOREHOLE BEING CONVERTED TO GOB WELL.
PLUG AND ABANDON CLEAN OUT AND REPLUG ☐

TARGET FORMATION PITTSBURGH ESTIMATED DEPTH 985'
WELL OPERATOR CNX GAS COMPANY LLC. (NORTH) DESIGNATED AGENT EDWIN L. MERRIFIELD
ADDRESS 1800 WASHINGTON ROAD ADDRESS 116 1/2 HUNSAKER STREET
PITTSBURGH, PA. 15421-1421 FAIRMONT, WV. 26554

PRECISION SURVEYS FORM IV-6

COUNTY PERMIT NO.

6101466 CP

FORM WW-4(A)
Revised 6-07

1) Date: October 14, 2014
2) Operator's Well No. L-84
3) API Well No. 47 –061–01466
State County Permit

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
(a) Name CONSOLIDATION COAL CO.
Address 46226 National Rd.
St. Clairsville, OH 43950

(b) Name
Address

(c) Name
Address

(6) INSPECTOR Ganye Knitowski
Address P. O. Box 108
Gormainia, WV 26720
Telephone 304-546-8171

5)a) COAL OPERATOR
Name CONSOLIDATION COAL CO.
Address 1 Bridge St.
Monongah, WV 26554

(b) COAL OWNER(S) WITH DECLARATION:
Name
Address

(c) COAL LESSEE WITH DECLARATION:
Name
Address

Received
Office of Oil & Gas
OCT 17 2014

TO THE PERSON(S) 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 and its location 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 REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-4(B) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice 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 From WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivery by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery by the Chief.

WELL OPERATOR Consolidation Coal Company
By
Its Project Engineer / Agent
Address
Telephone

Ronnie Hunt

Subscribed and sworn before me this 15th day of October, 2014

Janet L Lieving Notary Public,

Marion County, State of West Virginia

My commission expires June 13, 2024

OFFICIAL SEAL
Notary Public, State of West Virginia
JANET L LIEVING
199 Broadview Avenue
Fairmont, WV 26554
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.

6101466cP

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 061 - 01466
Operator's Well No. L-84

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name **Consolidation Coal Company** OP Code **10950**

Watershed **Paw Paw Creek** Quadrangle **Mannington 7.5'**

Elevation **1354'** County **Monongalia** District **Battelle**

Description of anticipated Pit Waste: **N/A**

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

Will a synthetic liner be used in the pit? **N/A**. If so, what mil.? _____

Proposed Disposal Method For Treated Pit Wastes:

_____ Land Application
_____ Underground Injection (UIC Permit Number _____)
_____ Reuse (at API Number _____)
_____ Off Site Disposal (Supply form WW-9 for disposal location)
X Other (Explain **Tanks, see attached letter**

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. **Freshwater**
If oil based, what type? Synthetic, petroleum, etc.? _____
Additives to be used? **Bentonite, Bicarbonate of Soda**

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. **Reused or Disposed (see attached letter)**
-If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust _____
-Landfill or offsite name/permit number? _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Ronnie Hall

Company Official (Typed Name) _____

Company Official Title **Project Engineer**

Subscribed and sworn before me this 14th day of October, 2014

Janet L Lieving Notary Public

My commission expires June 13, 2024

OFFICIAL SEAL
Notary Public, State of West Virginia
JANET L LIEVING
199 Broadview Avenue
Fairmont, WV 26554
My commission expires June 13, 2024

Cl 014666P

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.

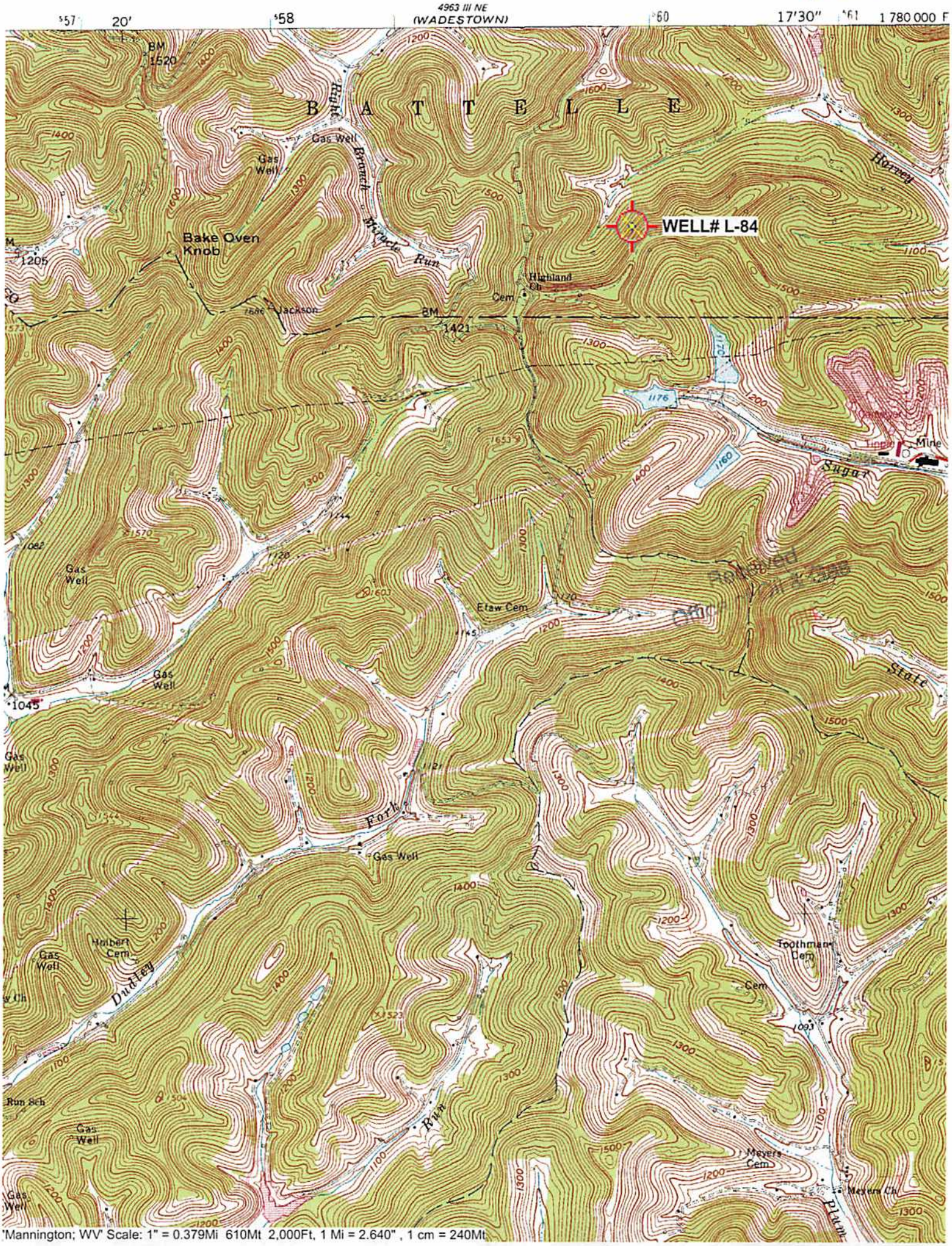
Received
Office of Oil & Gas
OCT 17 2014

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

6101466CP



'Mannington; WV' Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640" , 1 cm = 240Mt

6101466cP

WW-7
8-30-06

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

API: 47-061-01466 **WELL NO.:** L-84

FARM NAME: Consolidation Coal Company

RESPONSIBLE PARTY NAME: Consolidation Coal Company

COUNTY: Monongalia **DISTRICT:** Battelle

QUADRANGLE: Mannington 7.5' 457

SURFACE OWNER: Consolidation Coal Company

ROYALTY OWNER:

UTM GPS NORTHING: 4,385,333 m

UTM GPS EASTING: 559,933 m **GPS ELEVATION:** 413 m (1354')

Received
Office of Oil & Gas
OCT 17 2014

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 __X__: 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.

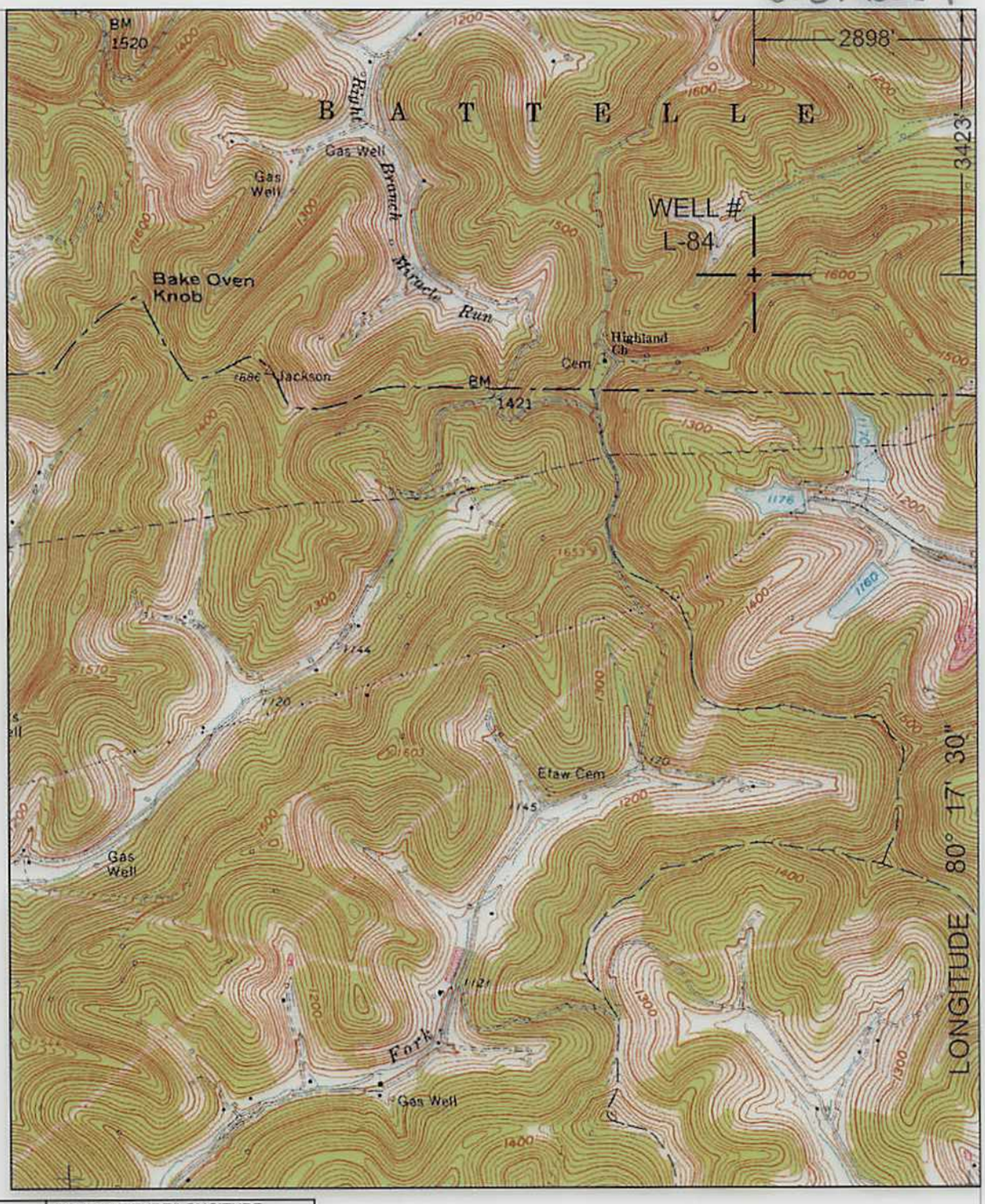
_____ **Professional Surveyor**
Signature Title

October 14, 2014
Date

4101466c P

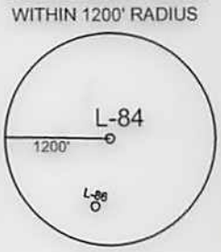
FORM WW 6

LATITUDE
39° 37' 30"



NORTH

SURROUNDING WELLS WITHIN 1200' RADIUS



UTM ZONE 17 COORDINATES			TRUE LATITUDE/LONGITUDE
NORTHING	4,385,333	M	39° 36' 56.4" N
EASTING	559,933	M	80° 18' 06.4" W

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENERGY.

P.S. 2002

TROY D. FREELS LICENSED No. 2002 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE OCTOBER 14 , 20 14

OPERATORS WELL NO. L-84

API WELL NO. 47 – 61 – 01466 c P
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY: 1 / 2500 FILE NO.: MANNINGTON1.DWG

SCALE: 1"=2000'

PROVEN SOURCE OF ELEVATION: GPS METADATA OR COMPANY NETWORK TIED INTO U.S.G.S.

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

WELL TYPE : OIL ____ GAS X LIQUID INJECTION ____ WASTE DISPOSAL ____ "GAS" PRODUCTION ____ STORAGE ____ DEEP ____ SHALLOW X

LOCATION :
ELEVATION: 1354' WATERSHED: PAW PAW CREEK
DISTRICT: BATTELLE COUNTY: MONONGALIA QUADRANGLE: MANNINGTON, WV 7.5'
SURFACE OWNER: CONSOLIDATION COAL COMPANY ACREAGE: 150+/-
ROYALTY OWNER: ____ LEASE ACREAGE: ____
PROPOSED WORK : ____ LEASE NO.: ____
DRILL: ____ CONVERT: ____ DRILL DEEPER: ____ REDRILL: ____ FRACTURE OR STIMULATE: ____ PLUG OFF OLD: ____
FORMATION: ____ PERFORATE NEW FORMATION: ____ PLUG AND ABANDON: X CLEAN OUT AND REPLUG: ____ OTHER: ____
PHYSICAL CHANGE IN WELL (SPECIFY): ____ TARGET FORMATION: NONE
ESTIMATED DEPTH: ____

COUNTY NAME
PERMIT

WELL OPERATOR: CONSOLIDATION COAL COMPANY DESIGNATED AGENT: RONNIE HARSH
ADDRESS: 1 BRIDGE ST., MONONGAH, WV 26554 ADDRESS: 1 BRIDGE ST., MONONGAH, WV 26554