



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

October 20, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5100928, issued to CNX GAS COMPANY LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

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

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

James Martin
Chief

Operator's Well No: MH-18 REV
Farm Name: CONSOLIDATION COAL CO.
API Well Number: 47-5100928
Permit Type: Plugging
Date Issued: 10/20/2015

Promoting a healthy environment.

10/23/2015

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 _____, 20_____
2) Operator's
Well No. MH18
3) API Well No. 47-051 - 00928

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X / Liquid injection ____/ Waste disposal ____/
(If "Gas, Production ____ or Underground storage ____) Deep ____/ Shallow ____

5) Location: Elevation 930.0 939.69 Watershed PA Fork Fish Creek
District Liberty County Marshall Quadrangle Littleton

6) Well Operator CNX Gas Company, LLC 7) Designated Agent Anthony Kendziora
Address 200 Evergreene Drive Address 1 Dominion Dr
Waynesburg, PA 15370 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name James Nicholson Name Contractor Services Inc. (CSI)
Address PO Box 44 Address 929 Charleston Rd.
Moundsville, WV 26041 Spencer, WV 25776

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

See attached.

Received
Office of Oil & Gas
OCT 01 2015

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

Work order approved by inspector James Nicholson Date 9/28/15

10/23/2015

MH18

API 47-051-00928

Liberty District

Marshall County

Location: Littleton Quad

Northing: 4399992.74 (datum: UTM 17-NAD83)

Easting: 539385.65

Elevation: 939.69

JL 9/28/15

Proposed Plug & Abandonment Procedure:

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

The wellbore will be cleaned out to the total depth. An attempt to remove all casing shall be made by pulling a minimum of 150% of the casing string weight. From the total depth to the surface, casing will be removed so that only fully cemented casing strings will be left in the wellbore. 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, 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, Class A cement with no more than 3% CaCl₂ and no other additives shall be used to fill the wellbore. A monument with the API number will be set on the wellbore at the surface. All plugging shall comply with WV Code Chapter 22 Article 6. The disturbed areas shall be graded, seeded and mulched as required. Site to be reclaimed as soon as possible.

TJW *IF casing is cemented to surface then do not Remove, Rip or Perforate.*

Received
Office of Oil & Gas
OCT 01 2015

10/23/2015

WR-35
Rev (5-01)

DATE: 10/5/04
API #: 47-5100928

M4
✓

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

Farm name: Consolidation Coal Co. Operator Well No.: DOE MH-18

LOCATION: Elevation: 930' Quadrangle: Cameron, WV Quad

District: Liberty County: Marshall

Latitude: 11292' Feet South of 39 Deg. 45 Min. 00

Sec.

Longitude: 395' Feet West of 80 Deg. 30 Min. 00 Sec.

Company: CNX Gas Company, LLC

	Casing & Tubing	Used in drilling	Left in well	Cement Fill Up (# of Sacks)
Address: 1800 Washington Road	13-3/8"	30'	30'	
Pittsburgh, PA 15241	9-5/8"	300'	300'	100sks <i>CS</i>
Agent: Joseph P. Aman	7"	1520.80'	1520.80'	250sks <i>CS</i>
Inspector: Terry Urban				
Date Permit Issued: 5/18/2004				
Date Well Work Commenced: 8/9/04				
Date Well Work Completed: 8/29/04				
Verbal Plugging: N/A				
Date Permission granted on: 5/19/04				
Rotary Cable <u>Rig</u>				
Total Depth (feet): 1525'				
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 597', 665', 1204', 1260'				

OPEN FLOW DATA

Producing formation Freeport Coal depth (ft) 1260
Gas: Initial open flow 0 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

Second producing formation _____ 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



Received
Office of Oil & Gas
OCT 01 2015

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.

Gas Well DOE MH-18 (API No. 47-510-0927) is a horizontal well for CNX Gas Company, LLC. Refer to the attached information for additional information.

Signed: Geoff Fanning
By: Geoff Fanning, Drill Foreman

10/23/2015

IAN 07 2005

0928

ATTACHMENT A**Marshall County CBM Well No. MH-18 Drill Log**

Depth	Description
0-30	Top
30-597	Sand/Shale
597-600	Coal Swickley
600-665	Shale/Sand
665-670	Coal Pittsburgh
670-770	Shale
770-775	Red Rock
775-1204	Shale
1204-1208	Coal Mahoning
1208-1258	Sand/Shale
1258-1261	Coal Upper Freeport
1261-1525(TD)	Sand/Shale

Received
Office of Oil & Gas
OCT 01 2015

10/23/2015
JAN 07 2005

WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
MH18 _____
3) API Well No.: 47 - 051 - 00928

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

Received
Office of Oil & Gas
OCT 01 2015

4) Surface Owner(s) to be served:		5) (a) Coal Operator	
(a) Name	Consolidation Coal Company	Name	_____
Address	1000 Consol Energy Drive Canonsburg, PA 15317	Address	_____
(b) Name	_____	(b) Coal Owner(s) with Declaration	
Address	_____	Name	Consolidation Coal Company
(c) Name	_____	Address	1000 Consol Energy Drive Canonsburg, PA 15317
Address	_____	Name	_____
		Address	_____
6) Inspector	James Nicholson	(c) Coal Lessee with Declaration	
Address	PO Box 44 Moundsville, WV 26041	Name	_____
Telephone	304-552-3874	Address	_____

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.

COMMONWEALTH OF PENNSYLVANIA
 NOTARIAL SEAL
 Lori L. Walker, Notary Public
 Richhill Twp., Greene County
 My Commission Expires Feb. 23, 2019
 PENNSYLVANIA ASSOCIATION OF NOTARIES

Well Operator CNX Gas Company, LLC
 By: Erika Whetstone *Erika J Whetstone*
 Its: Permitting Supervisor
 Address 200 Evergreene Drive
 Waynesburg, PA 15370
 Telephone 724-627-1492

Subscribed and sworn before me this 17th day of September 2015
Lori L. Walker
 My Commission Expires February 23, 2019

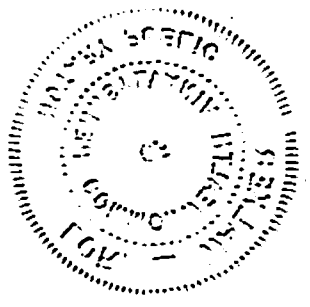
 Notary Public

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.

10/23/2015

• PENNSYLVANIA ASSOCIATION OF NOTARIES
 My Commission Expires Feb. 23, 2019
 Richd. Twp., Greene County
 For J. Walter Hotaly, Notary Public
 NOTARIAL SEAL



WW-9
(2/15)

API Number 47 - 051 - 00928
Operator's Well No. MH18

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company, LLC OP Code 494458046

Watershed (HUC 10) PA Fork Fish Creek Quadrangle Littleton

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: N/A

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

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

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

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

-Landfill or offsite name/permit number? _____

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 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 Erika J Whetstone

Company Official (Typed Name) Erika Whetstone

Company Official Title Permitting Supervisor, CNX Gas Company, LLC

RECEIVED
Office of Oil & Gas
OCT 01 2015

Subscribed and sworn before me this 17th day of September, 2015

Lori L Walker
Notary Public

My commission expires February 23, 2019

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Lori L. Walker, Notary Public
Richhill Twp (Greene County)
My Commission Expires Feb. 23, 2019
MEMBER PENNSYLVANIA ASSOCIATION OF NOTARIES

CNX Gas Company, LLC

Proposed Revegetation Treatment: Acres Disturbed less than 1 acre Prevegetation pH _____

Lime 2-3 Tons/acre or to correct to pH _____

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Landino Clover	5	Landino Clover	5

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Jan Wilborn*

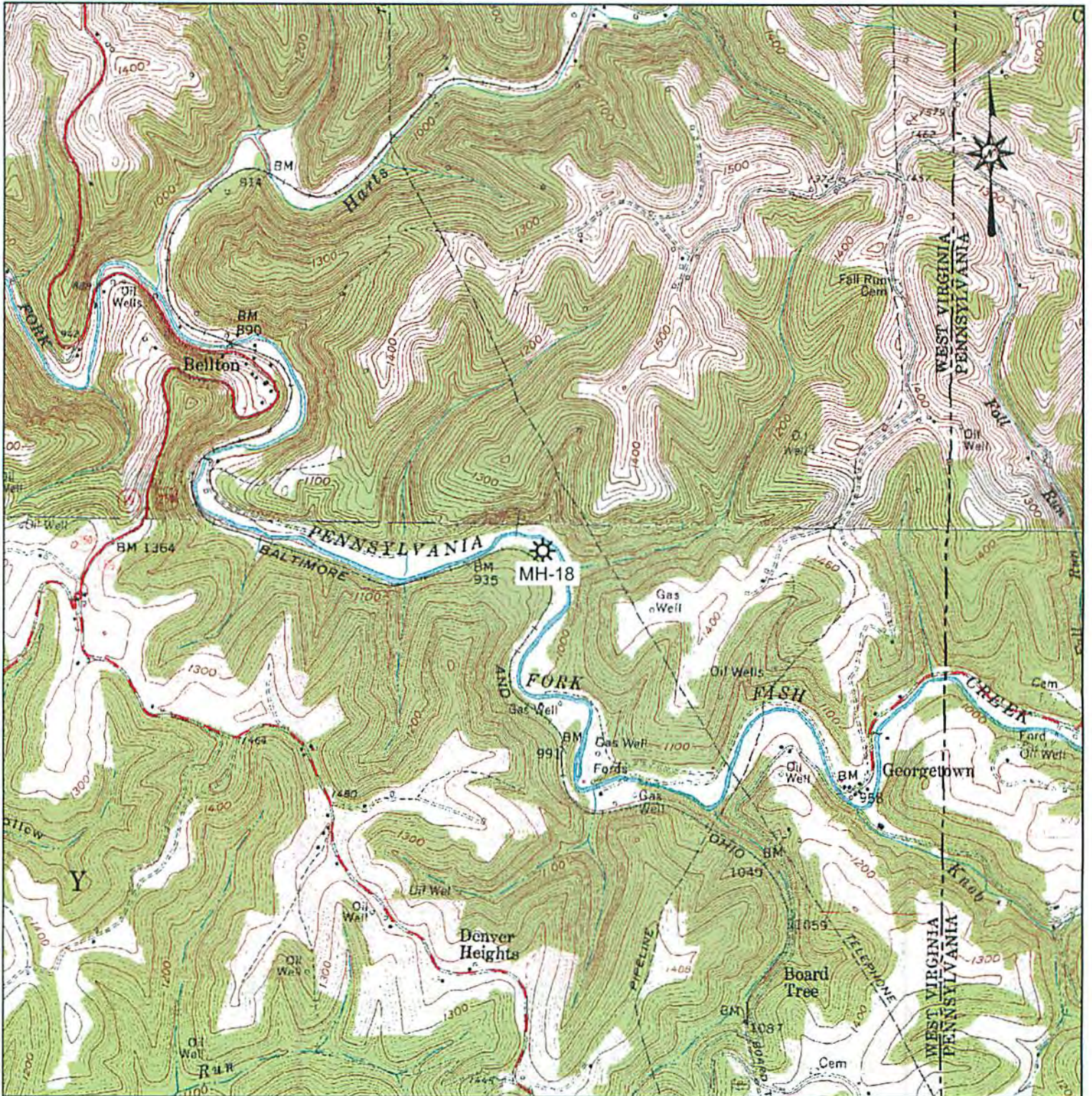
Comments: _____

Title: Oil + Gas Inspector

Date: 9/28/15

Field Reviewed? () Yes () No

Received
Office of Oil & Gas
OCT 01 2015



Blue Mountain Inc.
 10125 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

Received
 Office of Oil & Gas
 OCT 01 2015

PREPARED FOR:
 CNX GAS COMPANY LLC
 200 EVERGREENE DRIVE
 WAYNESBURG, PA 15370

COORDINATES:
 UTM 17-NAD83: N:4399992.74
 (METERS) E:539385.65
 NAD27, WV NORTH: N:456554.536
 (FEET) E:1707448.963
 EL:939.69

**MH-18
 LOCATION MAP
 MARSHALL COUNTY
 LIBERTY DISTRICT
 WEST VIRGINIA**

TOPO QUAD: LITTLETON, WV

SCALE: 1" = 2000'

DATE: SEPTEMBER 17, 2015

WW-7
8-30-06



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

API: 47-051-00928 WELL NO.: MH18
 FARM NAME: Consolidation Coal Company
 RESPONSIBLE PARTY NAME: Erika Whetstone
 COUNTY: Marshall DISTRICT: Liberty
 QUADRANGLE: Littleton
 SURFACE OWNER: Consolidation Coal Company
 ROYALTY OWNER: Consolidation Coal Company
 UTM GPS NORTHING: 4399992.74
 UTM GPS EASTING: 539385.65 GPS ELEVATION: 939.69'

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.

Erika Whetstone

Signature

Permitting Supervisor, CNX Gas

Title

9/17/15

Date

Received
Office of Oil & Gas

OCT 01 2015

10/23/2015