



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

April 25, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8100109, 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: 9175

Farm Name: TRUMP, EMMA

API Well Number: 47-8100109

Permit Type: Plugging

Date Issued: 04/25/2016

Promoting a healthy environment.

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.

81001097

WW-4B
Rev. 2/01

1) Date _____, 20____
2) Operator's
Well No. 9175
3) API Well No. 47-081 - 00109

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 2082 Watershed Breckenridge Creek
District Trap Hill County Raleigh Quadrangle Arnett

6) Well Operator CNX Gas Company LLC 7) Designated Agent Anthony Kendziora
Address 627 Claypool Hill Mall Road Address One Dominion Drive
Cedar Bluff, VA 24609 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Gary Kennedy Name L&D Well Services
Address PO Box 268 Address PO Box 1192
Nimitz, WV 25978 Vansant, VA 24656

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

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MAR 15 2016

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

Work order approved by inspector *Gary Kennedy* Date 3/9/16

API 47-081-00109 Plugging Procedure

Well # 9175

1. Verify total depth 2063'.
2. Run free-point survey on 6-5/8" casing.
3. Run tubing to TD. Set plug of Class A 3% CaCl cement from established TD to approximately 50' below free point or a point at least 100' above the 6-5/8" casing shoe.
4. Cut 6-5/8" casing at free-point and remove from well.
5. Cement from top of bottom plug to approximately 100' below the 8" casing shoe. (Approx. 949').
6. Run free-point survey on 8" casing.
7. Run tubing to previous cement top (949'). Cement across the 8" shoe to a minimum of 50' above shoe, bringing cement top to approximately 50' below the 8" free-point.
8. Cut 8" casing at free-point and remove from well.
9. Cement from top of previous cement to approximately 100' below the 10" casing shoe (Approx 408').
10. Run free-point survey on 10" csg.
11. Pull 10" and 13" casing if free.
12. Cement from 408' to surface.
13. Install ~~4 1/2" x 4"~~ steel monument with API# and Date.

*minimum of 6" dia. pipe filled with concrete shall be created over the well, no less than 30" above surface and 10' below surface
STW*

NOTE: A 100' gel spacer will be placed at approximately half the well depth. Class A 3% CaCl cement will be utilized throughout the entire cementing process.

STW
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Well# 9175 (1947) 47-081-00109

13" @ 20'

10" @ 308'

8¹/₄" @ 849' Gelled to Surface

6⁵/₈" @ 1471' 15 bags Cement

Drill TD @ 2063'

Shot Off 2032' to 2060'



#9175
47-081-00109

8/00109P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Feet

WELL RECORD

Permit No. RAL 109

Oil or Gas Well _____
(KIND)

Company Hope Natural Gas Company
 Address 445 West Main St. Clarksburg, W. Va.
 Farm Emma P. Trump Acres 161
 Location (waters) _____
 Well No. 9175 Elev. 2082
 District Trap Hill County Raleigh
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by _____
 Address _____
 Drilling commenced October 18, 1947
 Drilling completed December 15, 1947
 Date Shot 12 17 '47 From 2032 To 2060
 With 30 lbs
 Open Flow /10ths Water in _____ Inch
 /10ths Merc. in _____ Inch
 Volume 2,192,000 Cu. Ft.
 Rock Pressure 520# lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water 137 360 feet 1001 feet
 Salt water none recorded feet _____ feet

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|----------------|
| Size | | | Kind of Packer |
| 16 | | | |
| 13 | 20 | 20 | |
| 10 | 308 | 308 | Size of |
| 8 1/4 | 849 | 849 | |
| 6 1/2 | 1471 | 1471 | Depth set |
| 5 3/16 | | | |
| 3 | | | Perf. top |
| 2 | | | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
8" jelled to surface- 7" set in 15 bags cement
 COAL WAS ENCOUNTERED AT 360 FEET ± 24 INCHES
500 FEET 60 INCHES 765 FEET 60 INCHES
815 FEET 60 INCHES 1001 FEET 60 INCHES
1075 48

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-------------|-------|--------------|------|--------|----------------------------------|-------------|---------|
| Clay | | | 0 | 20 | | | |
| Sand | | | 20 | 60 | | | |
| Slate | | | 60 | 195 | water | 137 | |
| Sand | | | 195 | 239 | | | |
| Slate | | | 239 | 250 | | | |
| Sand | | | 250 | 299 | | | |
| Slate shell | | | 299 | 353 | | | |
| Sand | | | 353 | 360 | | | |
| Coal | | | 360 | 362 | hole fill water 360 | | |
| Sand | | | 362 | 438 | | | |
| Slate shell | | | 438 | 448 | | | |
| Sand | | | 448 | 460 | | | |
| Slate | | | 460 | 467 | | | |
| Sand | | | 467 | 500 | | | |
| Coal | | | 500 | 505 | | | |
| Slate | | | 505 | 554 | | | |
| Sand | | | 554 | 714 | | | |
| Slate | | | 714 | 720 | | | |
| Sand | | | 720 | 765 | | | |
| Coal | | | 765 | 770 | | | |
| Slate | | | 770 | 792 | | | |
| Sand | | | 792 | 815 | | | |
| Coal | | | 815 | 820 | | | |
| Slate shell | | | 820 | 870 | | | |
| Lime | | | 870 | 882 | | | |
| Sand | | | 882 | 963 | | | |
| Lime | | | 963 | 988 | | | |
| Shell | | | 988 | 1001 | | | |
| Coal | | | 1001 | 1006 | water 1001 1 1/2 bailers per hr. | | |
| Lime | | | 1006 | 1050 | | | |
| Sand | | | 1030 | 1075 | | | |
| Coal | | | 1075 | 1079 | | | |
| Sand | | | 1079 | 1084 | | | |
| Slate shell | | | 1084 | 1116 | | | |
| Lime | | | 1116 | 1122 | | | |
| Sand | | | 1122 | 1180 | show gas | 1126 | |
| Slate | | | 1180 | 1224 | | | |
| Sandy lime | | | 1224 | 1250 | | | |
| Sand | | | 1250 | 1272 | | | |



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| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-------------|-------|--------------|------|-------------|-------------------|-------------|---------|
| Slate shell | | | 1272 | 1304 | | | |
| Red rock | | | 1304 | 1360 | | | |
| Slate shell | | | 1360 | 1416 | | | |
| Sand | | | 1416 | 1427 | | | |
| Slate shell | | | 1427 | 1440 | | | |
| PRINCEPON | | | 1440 | 1495 | | | |
| Slate shell | | | 1495 | 1545 | | | |
| Sand | | | 1545 | 1589 | | | |
| Red rock | | | 1589 | 1602 | | | |
| RAVENCLIFFE | | | 1602 | 1630 | | | |
| AVIS LIME | | | 1630 | 1645 | | | |
| Red rock | | | 1645 | 1875 | | | |
| Lime | | | 1875 | 1903 | | | |
| Slate shell | | | 1903 | 1950 | | | |
| Black lime | | | 1950 | 2012 | | | |
| Broken sand | | | 2012 | 2026 | | | |
| MAXON | | | 2026 | | gas 2032-50-56-61 | | |
| Total depth | | | | 2063 | | | |

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ARK

Date December 30, 1947, 19

APPROVED Hope Natural Gas Company., Owner

By *(Signature)*



WW-4A
Revised 6-07

1) Date: 3/10/2016
2) Operator's Well Number _____
9175

3) API Well No.: 47 - 081 - 00109

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>David & Deanna Gwinn</u> | Name _____ |
| Address <u>PO Box 304</u> | Address _____ |
| <u>Bolt, WV 25817</u> | |
| (b) Name <u>OHW Partnership c/o Johnnie C Shumate</u> | (b) Coal Owner(s) with Declaration |
| Address <u>321 Glenlock Lane</u> | Name _____ |
| <u>Stockbridge, GA 30281</u> | Address _____ |
| (c) Name _____ | Name _____ |
| Address _____ | Address _____ |
| 6) Inspector <u>Gary Kennedy</u> | (c) Coal Lessee with Declaration |
| Address <u>PO Box 268</u> | Name _____ |
| <u>Nimitz, WV 25978</u> | Address _____ |
| Telephone <u>304-382-8402</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.

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Katherine L. Jursa, Notary Public
Cecil Twp., Washington County
My Commission Expires Oct. 29, 2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Well Operator CNX Gas Company LLC
By: Mackenzie Namley
Its: Permitting Manager
Address 627 Claypool Hill Mall Road
Cedar Bluff, VA 24609
Telephone 276-696-5137

Subscribed and sworn before me this 10th day of March, 2016
Katherine L. Jursa Notary Public
My Commission Expires 10-29-2017

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.

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WW-9
(2/15)

API Number 47 - 081 - 00109
Operator's Well No. 0176

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) 0505000902 Quadrangle Arnett

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
- Underground Injection (UIC Permit Number 2D0550319)
- 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: a pumper truck with a flow back tank will be used in lieu of a pit.

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

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

Additives to be used in drilling medium? _____

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

-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 *Matt Hanley*

Company Official (Typed Name) Matt Hanley

Company Official Title Manager Gas Permitting

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Subscribed and sworn before me this 10th day of March, 20 16

Kathleen L. Jursa Notary Public

My commission expires 10-29-2017

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Katherine L. Jursa, Notary Public
Cecil Twp., Washington County
My Commission Expires Oct. 29, 2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

CNX Gas Company LLC

Proposed Revegetation Treatment: Acres Disturbed 1.5 Prevegetation pH to be determined

Lime based on pH Tons/acre or to correct to pH 7

Fertilizer type ¹⁰⁻²⁰⁻²⁰ _____

Fertilizer amount 550 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

| Temporary | | Permanent | |
|-------------------|----------|-----------|----------|
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| orchard grass | 25 | | |
| birdsfoot trefoil | 15 | | |
| lidino clover | 10 | | |

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: *[Signature]*

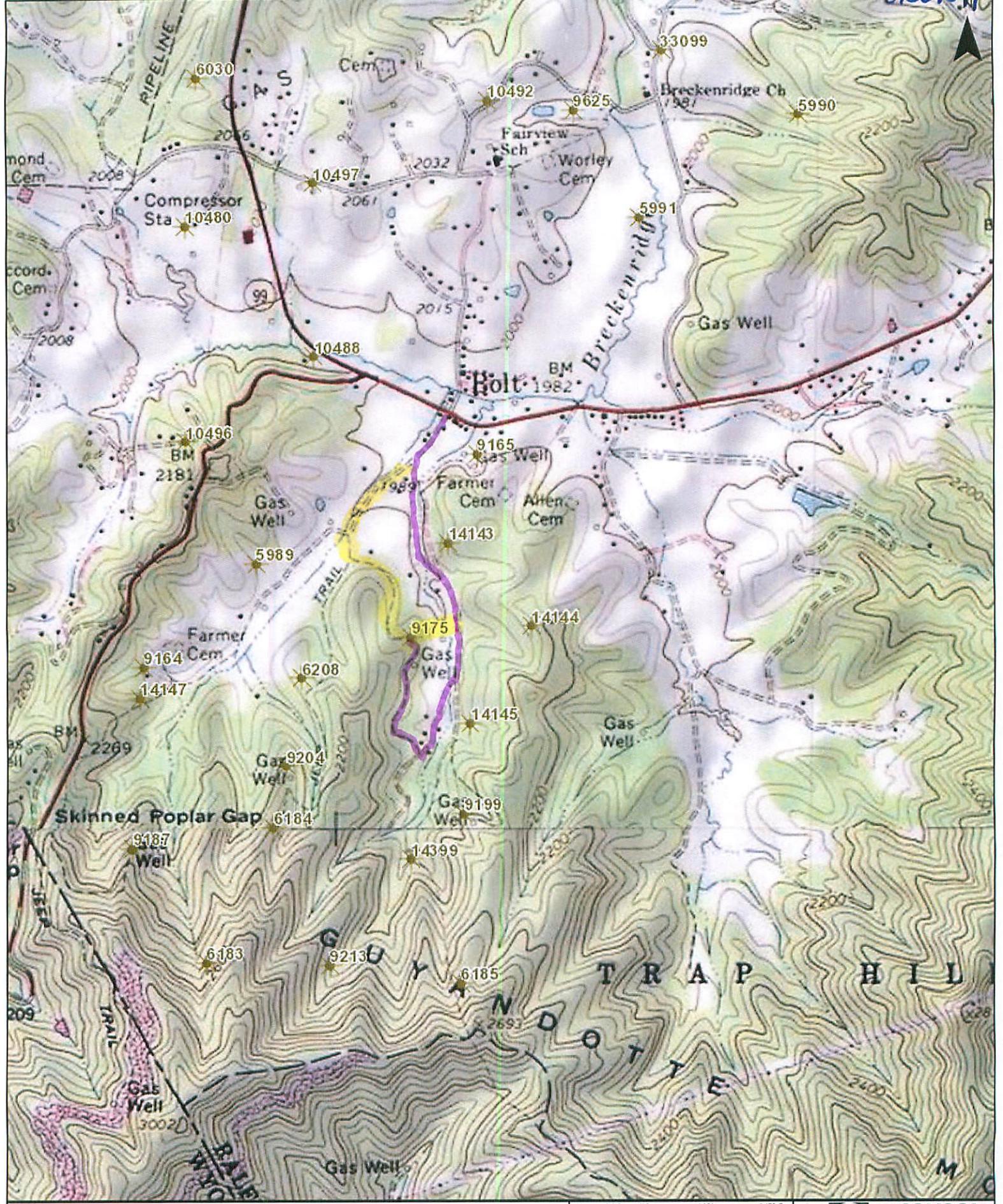
Comments: _____

Title: Inspector Date: 3/9/16

Field Reviewed? (x) Yes () No

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8100109P



| | |
|---|--|
| Legend | |
| Mine Labels | <input type="checkbox"/> buch_d_20151028 - CNX Access Road |
| <input type="checkbox"/> vp_mines_mined_area_polyline | Labels |
| <input type="checkbox"/> buchanan_mined_out_a_b_c | <input type="checkbox"/> Sealed Gob Units |

0 412.5 825 1650 2475 Feet

Date: 2/3/2016 Prepared By: Web AppBuilder for ArcGIS

This product was generated by CONSOL Energy's WEB Map. Intended for Internal Use Only.

EMPPOWER ENERGY

ArcGIS Web Map

WW-7
8-30-06



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

API: 47-081-00109 WELL NO.: 9175
 FARM NAME: Emma Trump
 RESPONSIBLE PARTY NAME: Consol Gas Company
 COUNTY: Raleigh DISTRICT: Trap Hill
 QUADRANGLE: Arnett
 SURFACE OWNER: David & Deanna Gwinn
 ROYALTY OWNER: OHW Partnership
 UTM GPS NORTHING: 4,178,786.9 M
 UTM GPS EASTING: 463,581.1 M GPS ELEVATION: 2082 ft.

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

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.

Jason Kelly
Signature

Production Foreman
Title

3/10/16
Date