



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

November 19, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4100406, 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: 10247
Farm Name: SEE, C.
API Well Number: 47-4100406
Permit Type: Plugging
Date Issued: 11/19/2015

Promoting a healthy environment.

4100406P

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.

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WW-4B
Rev. 2/01

1) Date October 12, 2015
2) Operator's
Well No. 10247
3) API Well No. 47-041 - 00408

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 7 or Underground storage ___) Deep ___/ Shallow ___
- 5) Location: Elevation 1184 Watershed Skin Creek
District Skin Creek County Lewis Quadrangle Roanoke
- 6) Well Operator CNX Gas Company, LLC 7) Designated Agent Anthony Kendziora
Address 1000 Consol Energy Drive Address 1 Dominion Dr
Canonsburg PA 15317 Jane Lew, WV 26378
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Barry Stollings Name See attached list
Address 28 Conifer Drive Address _____
Bridgeport WV 26330

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

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

Work order approved by inspector Barry Stollings Date 10-21-15

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Plugging Work Order for Permit 47-041-00406

CNX Gas - Well 10247

1. Verify 4-1/2" casing TD (~4351')
2. TIH w/ 2-3/8" EUE work string to TD and establish circulation with water
3. Pump cement plug 4000' to TD (~4351') (Benson plug)
4. Displace cement with 6% gel to 4000'
5. TOH w/ 2-3/8" EUE work string
6. Wait on cement before pulling 4-1/2"
7. Bond Log 4-1/2" casing, TD and verify bottom cement plug
8. Cut 4-1/2" above T.O.C. (est. ~3700'), pull one joint, replace top joint, return to cut
9. Through 4-1/2 casing, pump 100' Cement Plug across cut, displace with 6% gel
10. Pull up to 2350'
11. Pump cement plug 1914' to 2350' (50' and 4th sand plug)
12. Pull up to 1900' circulate hole with 6% gel
13. TOH w/ 4-1/2" casing
14. TIH with wireline and "Split Shot" a 7" collar above the packer (~1650')
15. TOH w/ 7" casing
16. If unable to Pull 7", perf w/4 holes ea @ 1650', 1550', 1450', 1350', 1250', 1150', 1050'
17. TIH w/ 2-3/8" work string to 1772'
18. Pump Cement Plug 1600' to 1772' (hole change, Big Lime show), displace w 6% gel
19. Pull 2-3/8" up to 1234'
20. Pump 100' Cement Plug across elev. from 1134' to 1234' (elevation is 1184')
21. TOH w/ 2-3/8" EUE work string
22. Attempt to Pull all 8-5/8" casing (826')
23. If unable to pull all 8-5/8", perf w/4 holes @ 800', 725', 650', 575', 500', 425', 350'
24. Cut 8-5/8" at 300'. TOH w/ top section of 8-5/8" casing
25. Attempt to Pull all 10-3/4" casing 185'
26. If unable to pull 10-3/4" casing perf w 4/holes ea @ 150', 100', 50'
27. TIH w/ 2-3/8" EUE work string to 876'
28. Pump Cement Plug from 876' to 625', displace with 6% gel (csg & water @725')
29. Pull 2-3/8" EUE up to 200'
30. Pump cement plug from 200' to surface
31. TOH with 2-3/8" EUE, and top off cement to surface
32. Install 6" x 14' monument (10' below grade, 6' above grade) API 47-041-00406

Work Order approved by Inspector

Bary Stalder

Date: 10-21-15

Note: All cement will be Class A, no additives. All spacers between plugs will be 6% gel.

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle CRAWFORD

Permit No. LEW-406

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Hope Natural Gas Company
Address Clarksburg, W/ Va.
Farm Catherine A. See Acres 573
Location (waters) _____
Well No. 10247 Elev. 1184
District Skin Creek County Lewis
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced July 17, 1959
Drilling completed Aug. 26, 1959
Date Shot 8-27-59 From 2220 To 2235
With 30 Qts. Nitro
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 1,632 M Cu. Ft.
Rock Pressure 380# lbs. _____ hrs.
Oil Show bbls., 1st 24 hrs.
WELL ACIDIZED No
WELL FRACTURED No

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			
14	<u>14</u>	<u>None</u>	
10	<u>185</u>	<u>185</u>	Size of _____
8 1/2	<u>826</u>	<u>826</u>	
6 3/4	<u>1672</u>	<u>1672</u>	Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
No cementing

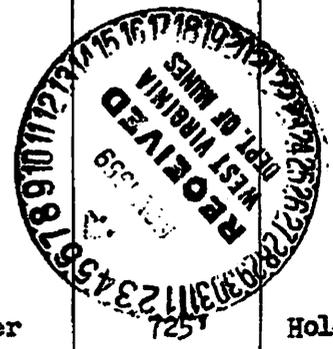
COAL WAS ENCOUNTERED AT 136 FEET 36 INCHES
662 FEET 96 INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water 725' Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	18			
Red Rock			18	51			
Lime			51	136			
Coal			136	139			
Slate			139	358			
Sand			358	498			
Lime			498	608			
Sand			608	645			
Slate			645	662			
Coal			662	670			
Gas Sand			670	893	Water		
Slate & Shells			893	984			Hole Full
Broken Sand			984	1114			
Slate & Shells			1114	1218			
3rd Salt Sand			1218	1286			
Red Rock			1286	1512			
Slate			1512	1525			
LITTLE LIME			1525	1546			
Slate			1546	1580			
BIG LIME			1580	1785	Oil	1602'	Show
Slate & Shells			1785	1861	Gas	1602'	440 M
GANTZ			1861	1885			
Slate & Shells			1885	2014			
50' sand			2014	2032			
Slate			2032	2050			
Red Lime			2050	2090			
Gritty Lime			2090	2210			
FOURTH SAND			2210		Gas		
Total Depth				2236'		2222'-2226'	



(over)

November 5, 1959
Jack Bailey
W. N. G. Co.

41 00406P

WW-4A
Revised 6-07

1) Date: October 7 2015
2) Operator's Well Number
10247
3) API Well No.: 47 - 041 - 00406

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>Mary B See & Ralph Edward See</u>	Name <u>N/A - None of Declaration</u>
Address <u>365 Rangers Run Road</u>	Address _____
<u>Roanoke WV 26447-8251</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Surface Owner</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Barry Stollings</u>	(c) Coal Lessee with Declaration
Address <u>28 Conifer Drive</u>	Name <u>N/A - None of Declaration</u>
<u>Bridgeport WV 26330</u>	Address _____
Telephone <u>304-552-4194</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
Douglas E. Smith, Notary Public
Franklin Twp., Greene County
My Commission Expires Oct. 31, 2016
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Well Operator CNX Gas Company LLC
By: Matthew Hanley
Its: Manager - Gas Permitting
Address 1000 CONSOL Energy Drive
Canonsburg PA 15636
Telephone 724 485 3011

Subscribed and sworn before me this 12th day of October
[Signature] Notary Public
My Commission Expires 10-31-2016

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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Attachment – Royalty Owners for Well 10247

Donna L. Davis
2128 Kincheloe Road
Jane Lew, WV 26378

Mabel See Weidlich
431 Copen Drive
Charleston, WV 25302

Carol M Haddix
576 Old Route 33
Weston, WV 26452

Barbara M. Loudin
13 Lincoln Way
Buckhannon, WV 26201

Mary B. See
365 Range Run Road
Roanoke, WV 26447

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List of possible plugging contractors:

Stalnaker Energy Services
220 West Main Street
Glennville, WV 26351

WACO Oil & Gas
P.O. Box 397
Glennville, WV 26351

Viking Well Service, Inc.
8113 Sissonville Drive
Sissonville, WV 25320

Contractor Services Inc.
929 Charleston Road
Spencer, WV 25276

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4100406A

WW-9
(2/15)

API Number 47 - 041 - 00406
Operator's Well No. 10247

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Comapany, LLC OP Code 494458046

Watershed (HUC 10) 0502000201 (Skin Creek) Quadrangle Roanoke

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.? 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: Closed loop system used for tank storage.

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. Hauled off site for disposal

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

-Landfill or offsite name/permit number? Waste Management or Ryan Environmental; Use vac truck and properly dispose of waste.

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 Matthew Hanley

Company Official (Typed Name) Matthew Hanley

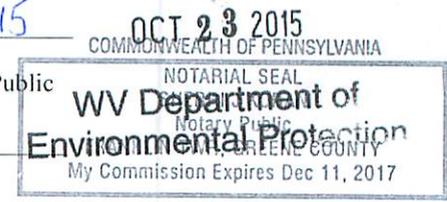
Company Official Title Manager - Gas Permitting

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Subscribed and sworn before me this 21st day of October, 20 15

Shirley J. Keenan Notary Public

My commission expires 12-11-17



41 00406A

CNX Gas Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 1.5 Prevegetation pH unknown

Lime to pH test _____ Tons/acre or to correct to pH 7.0

Fertilizer type (10-20-20 or equivalent) 500 lbs/acre

Fertilizer amount 500 lbs/acre

Mulch Hay or Straw Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	25	Orchard Grass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino 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: Barry Shillip

Comments: _____

Title: Inspector Barry Shillip

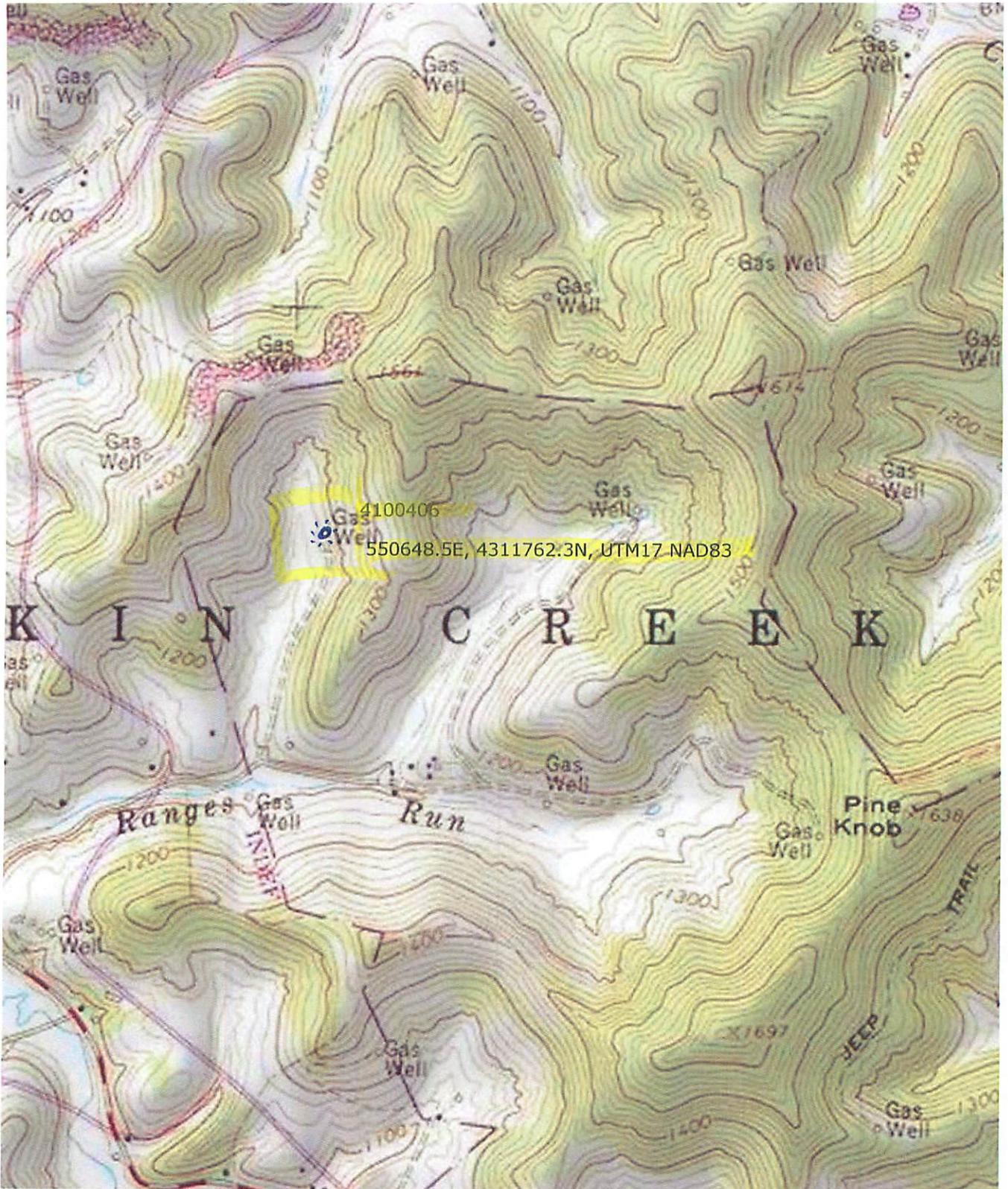
Date: 10-21-15

Field Reviewed? Yes No

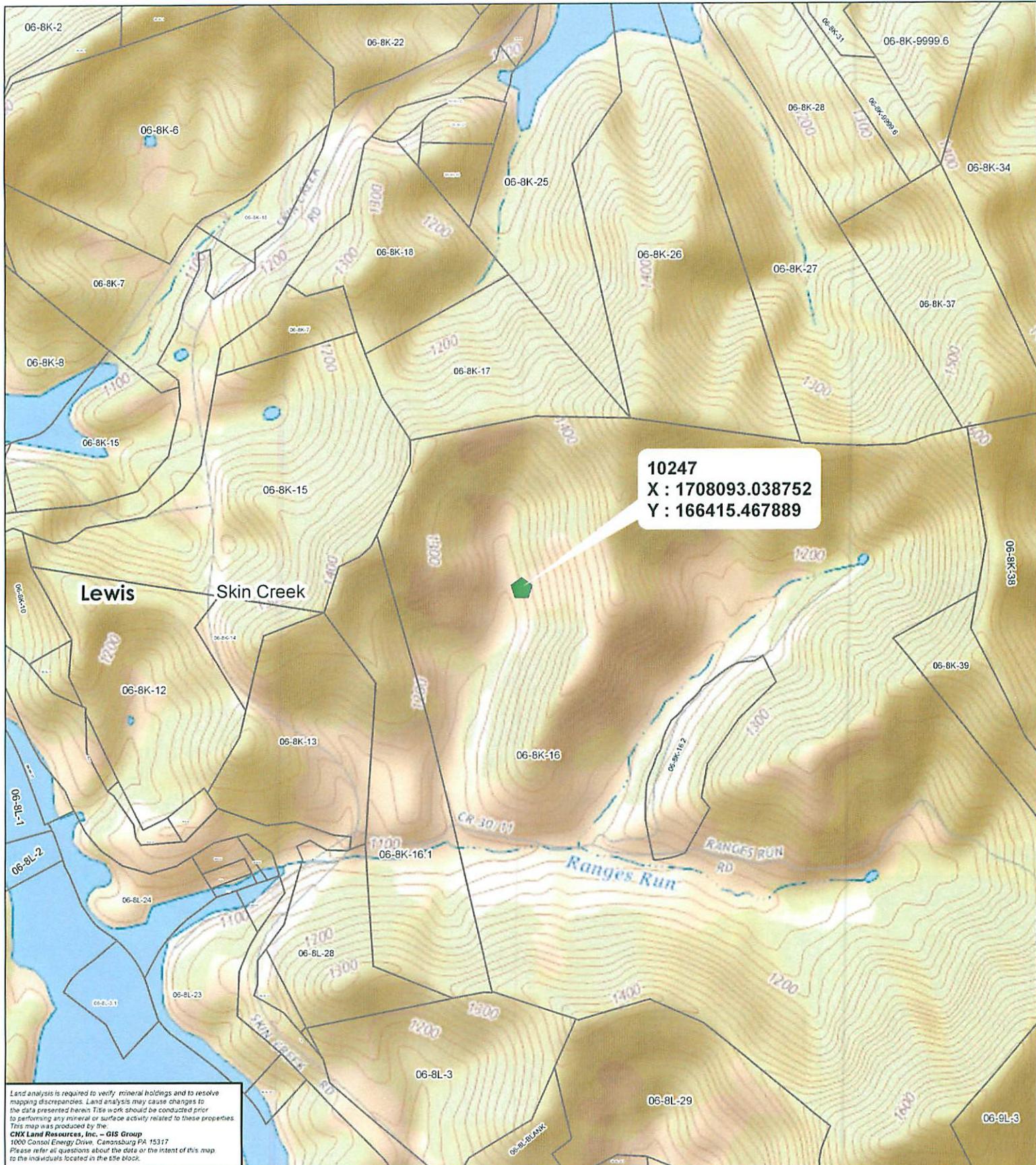
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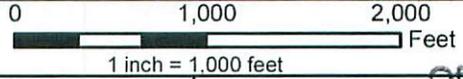
4100406P



10247
X : 1708093.038752
Y : 166415.467889

Land analysis is required to verify mineral holdings and to resolve mapping discrepancies. Land analysis may cause changes to the data presented herein. Title work should be conducted prior to performing any mineral or surface activity related to these properties. This map was produced by the:
CNX Land Resources, Inc. - GIS Group
 1000 Consol Energy Drive, Canonsburg PA 15317
 Please refer all questions about the date or the intent of this map to the individuals located in the title block.

Legend
 10247
 Surface Parcel Updates



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CONSOL ENERGY
 CNX Center, Canonsburg, PA
 Office of Oil and Gas

Original Date: 10/8/2015	Prepared By: Julie Long
Revision Date: 10/8/2015	Approved By: K. Pritchard

OCT 23 2015
 GP207
 10247
 Lewis County, WV
WV Department of Environmental Protection

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NOV 09 2015

WW-7
8-30-06

WV Department of
Environmental Protection



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-041-00406 WELL NO.: 10247
FARM NAME: Catherine A. See
RESPONSIBLE PARTY NAME: CNX Gas Company LLC
COUNTY: Lewis DISTRICT: Skin Creek
QUADRANGLE: Crawford
SURFACE OWNER: Mary B See & Ralph Edward See
ROYALTY OWNER: See Attached
UTM GPS NORTHING: 4,311,204.422 (UTM83) = 4311762.3
UTM GPS EASTING: 550,519.873 (UTM83) = 550648.5 GPS ELEVATION: 1184'

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 X: Post Processed Differential _____

Real-Time Differential X

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.

Mary Naulty Permitting Manager 11/09/2015
Signature Title Date

