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

August 27, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4100955, 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 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: 7077 (10389)
Farm Name: SAULS RUN LTD.
API Well Number: 47-4100955
Permit Type: Plugging
Date Issued: 08/27/2013

Promoting a healthy environment.

4100955P

WW-4B
Rev. 2/01

1) Date May 7, 2013
2) Operator's Well No. 7077
3) API Well No. 47 - 041 - 00955

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 X or Underground storage ____) Deep ____/ Shallow X

5) Location: Elevation 1252.56 Watershed Stonecoal Creek
District Hackers Creek 04 County Lewis 41 Quadrangle Weston 670

6) Well Operator CNX Gas Company LLC
Address P.O. Box 1248
Jane Lew, WV 26378

7) Designated Agent Jeremy Jones
Address P.O. Box 1248
Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified
Name Barry Stollings
Address 601 57th Street SE
Charleston, WV 25304

9) Plugging Contractor
Name Viking Well Service
Address 8113 Sissonville Drive
Sissonville, WV 25320

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

See attached work order

Received
AUG - 1 [illegible]
Office of Oil and Gas

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 5-10-13

4100955P

Plugging Work Order for Permit 47-041-00955

WN 7077 (10389)

1. Verify total depth of 4.5"csg. Bottom perf @ 1788'
2. Pump cement plug 1550' – TD
3. Displace with gell to 1550'
4. Free point and cut 4.5"csg and cut pipe above free point. (est.1350')
5. Pull one joint
6. Pump cement plug 1220' – 1320'
7. Displace with gell
8. Attempt to pull 8.625" casing. If unable to pull then perforate casing at 870', 500',300'
9. Pump cement plugs 700' – 870'
10. Pump cement plugs 400' – 500'
11. Pump cement plugs 0' -300'
12. Install 7" x 4' monument with API 47-41-955

Work Order approved by inspector Barry Stump Date 5-10-13

Note: All cement will be Class A with 6% gell spacers between all plugs.

RECEIVED
AUG - 1
Office of Oil
W Dept. of En

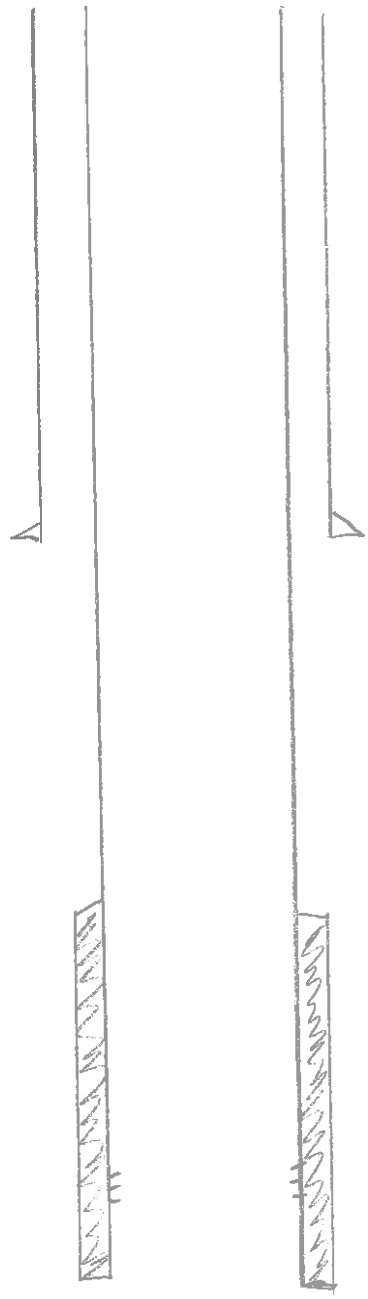
4100955P

WN 7077 (HOPE 10389)

PERMIT 47-41-955
ELEV. 1259'

WATER 820'

NO COAL



NO CEMENT

PERFS.

1757 - 1788

RECEIVED
AUG
Office of Oil and Gas
WV Dept. of Environmental Protection

WELL No. 1038 NAME Sally McGary LEASE No. ~~44520~~ ACRES 240 N. S. 29 E. 8 W. DISTRICT Weston

District Hackers Creek
County Lewis 47-041-955
Permit Granted 2-26-62
Located 2-2-62 Chgd - 2-9-62
Commenced 3-27-62
Completed : Drlg. 10-27-62 Well. 11-8-62
Contractor Guy L. Warner $3.75
Purchased from Per Foot
Date Purchased
Date Shut In WESTON QUAD
Date Connected 7-16-63 H-19787
Date Turned on 4-7-64 Off
Date Disconnected
Sold to
Date Sold
Date Re-Purchased
Date Plugged
Plug Cert. Sent D. of M.
Date Abandoned
Elevation 1259'

RECORD

FORMATION	TOP	BOTTOM	OIL AT	GAS AT	WATER AT	FRESH OR SALT
1st Salt	1104	1132			820	
2nd Salt	1153	1268				
Maxon	1492	1526				
L. Lime	1564	1578				
B. Lime	1610	1708	1618-24	1618-24		
Injun	1708	1797		1751-60		
Gamma Ray						
1st Salt	1110	1147				
2nd Salt	1162	1242				
Maxon	1476	1540				
L. Lime	1570	1591				
B. Lime	1614	1717				
Injun	1717	1802		1757-65 1786-88		
Total Depth		1872				

Filled To 1830 11-8-62

CASING AND TUBING

SIZE	PUT IN WELL	PULLED	CEMENTED
8 5/8 in. Casing S.L.	944		Date
4½ in. Casing S.L.	1852		Size Casing
in. Casing			Top Ft.
in. Casing			Bottom Ft.
in. Casing			4½" Cem. w/100 Bags.
in. Tubing			
in. Tubing			

Perf. 1757-65 - 1786-88

SHOOTING

DATE	QTS.	SAND	VOLUME BEFORE	VOLUME AFTER
11-6-62	Frac	Injun	5M	1,750M

Gamma Ray - Induction - Density - Temp. - 10-29-62
Corr. Gamma - Collar Log - 11-5-62

VOLUME AND PRESSURE TESTS

DATE TAKEN			READING	LIQUID	OPENING	POUNDS PRESSURE	1 MIN.	5 MIN.	10 MIN.	30 MIN.	60 MIN.	ROCK	VOLUME	SAND
Oct		1962	30/10	W	2" OF	While Drilling							231,000	B. Lime
Oct	27	"	2/10	W	3/4" Fn	When Drilling Comp.							5,900	B.L. & Injun
Nov	8	"	8/10	M	4½" OF	No Pick-up Taken						(14 Ins) 680#	1,750,000	Injun
"	22	"				14 Da Special R.P.						(14 Ins) 803#		"

PACKERS

SIZE	MAKE	SET AT S.L.
8 5/8	Shoe	944
4½	"	1852

INITIAL OIL PRODUCTION

DATE	BARRELS	SAND

ESTIMATED BBL. WELL

Lease # L012519

4100955

Form 466 1M-4-54

4100955P

WW-4A
Revised 6-07

1) Date: May 7, 2013
2) Operator's Well Number
7077

3) API Well No.: 47 - 041 - 00955

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Sauls Run Limited
Address: P.O. Box 1234
Weston, WV 26452

(b) Name
Address

(c) Name
Address

6) Inspector
Address

Telephone

5) (a) Coal Operator
Name: None of Declaration
Address

(b) Coal Owner(s) with Declaration
Name
Address

Name
Address

(c) Coal Lessee with Declaration
Name
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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
CAROLINDA FLANAGAN
PO Box 609
Lumberport WV 26386
My Commission Expires September 15, 2021

Well Operator: CNX Gas Company LLC
By: Jeremy Jones
Its: General Manager WV Operations
Address: P.O. Box 1248
Jane Lew, WV 26378
Telephone: 304 - 884 - 2000

Received

Subscribed and sworn before me this 29TH day of JULY 2013
Notary Public
My Commission Expires 9/15/2021

AUG - 1

Office of Oil and Gas
WV Dept. of Environmental Protection

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 depprivacyoffier@wv.gov.

WW-9
Rev. 05/10

Page _____ of _____

API NUMBER 47- 041 - 00955 P

Operator's Well No. 7077

STATE OF WEST VIRGINIA
DIVISION 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 CNX GAS COMPANY LLC OP CODE 494495754

Watershed STONECOAL CREEK Quadrangle WESTON

Elevation 1252.56' County LEWIS District HACKERS CREEK

Description of anticipated Pit Waste: FLUIDS ASSOCIATED WITH THE PLUGGING OF EXISTING GAS WELLS

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? YES If so, what ml.? ~~10~~ 20 MIL.

Proposed Disposal Method For Treated Pit Wastes:

X Land Application

____ Underground Injection (UIC Permit Number ____)

____ Reuse (at API Number ____)

____ Off Site Disposal (Supply for WW-9 for disposal location)

____ Other (Explain) ____

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. AIR

If oil based, what type? Synthetic, petroleum, etc. NOT OIL BASED

Additives to be used? NONE

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

If left in pit and plan to solidify what medium will be used? Cement, lime, sawdust CEMENT

Landfill or offsite permit number? NONE

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 Division 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 [signature]

Company Official (Typed Name) JEREMY JONES

Company Official Title GENERAL MANAGER WV OPERATIONS - DESIGNATED AGENT

Subscribed and sworn before me this 29TH day of JULY, 20 13

[signature] Notary Public

My commission expires 9/15/2021

AUG - 1

Office of Oil and Gas
WV Dept. of Environmental Protection

4100955P

LEGEND

Property Boundary

Road

Existing Fence

Planned Fence

Stream

Open Ditch

Rock

North

Water wells

Drill Site

Diversion

Spring

Wet Spot

Drain Pipe with size in inches

Waterway

Cross Drain

Artificial Filter Strip

Pit: cut walls

Pit: compacted fill walls

Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed 2.50 Prevegetation pH 6.5

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

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

Mulch HAY OR STRAW 2 Tons/acre

Seed Mixtures

Area I

Seed Type	lbs/acre
ORCHARDGRASS	25
BIRDSFOOT TREFOIL	15
LADINO CLOVER	10

Area II

Seed Type	lbs/acre
ORCHARDGRASS	25
BIRDSFOOT TREFOIL	15
LADINO CLOVER	10

Attach:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Received

AUG - 1

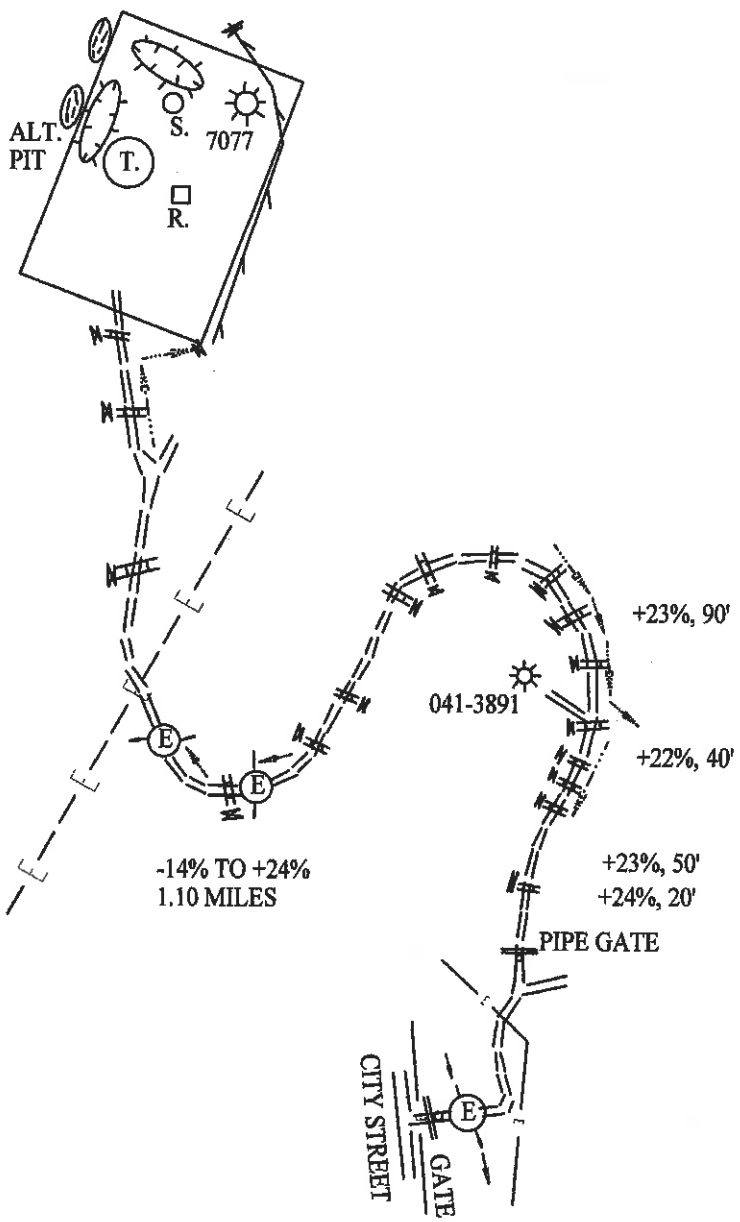
Office of Oil and Gas
WV Dept. of Environmental Protection

Plan Approved by: Barry Stalnaker

Title: inspector Date: 5-10-13

Field Reviewed? (✓) Yes ( ) No

4100955P



THIS PLAN IS FOR THE PLUGGING OF AN EXISTING GAS WELL. ENTIRE LENGTH OF ROAD IS OLD EXISTING WELL ROAD. ROCK WILL BE USED WHERE NECESSARY.

ALL GRADES OVER 20% ARE NOTED.

BS 5-10-13

DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY LLC

P. O. BOX 1248

JANE LEW, WV 26378

WATERSHED: STONECOAL CREEK

DISTRICT: HACKERS CK. COUNTY: LEWIS

QUADRANGLE: WESTON WELL NO.: 7077

DATE: 05/06/13 PAGE ____ of ____

LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018 OR 5762

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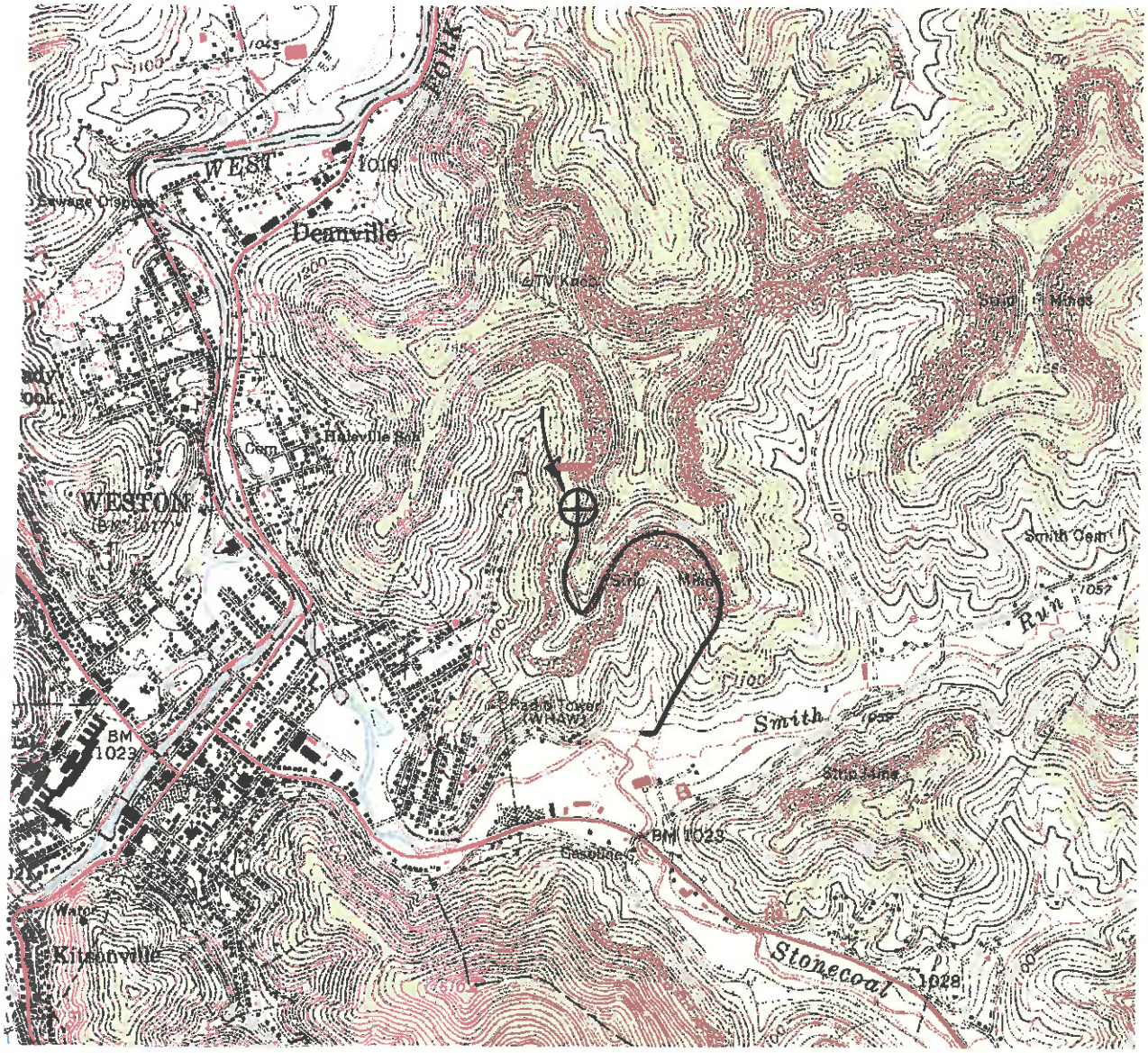
Office of Oil and Gas
Environmental Protection
WV Dep

4100955P



DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY LLC

P. O. BOX 1248

JANE LEW, WV 26378

WATERSHED: STONECOAL CREEK

DISTRICT: HACKERS CK. COUNTY: LEWIS

QUADRANGLE: WESTON WELL NO.: 7077

DATE: 05/06/13 PAGE ____ of ____

LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018 OR 5762

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AUG - 1
Office of Oil and Gas
WV Dept. of Environmental Protection

4100955 P

WW-7
5-02

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

API: 47-041-00955 WELL NO.: 7077

FARM NAME: SALLY MCGARY

RESPONSIBLE PARTY NAME: CNX GAS COMPANY LLC

COUNTY: LEWIS DISTRICT: HACKERS CREEK

QUADRANGLE: WESTON 7.5 MIN.

SURFACE OWNER: SAULS RUN LTD.

ROYALTY OWNER: ELIZABETH SWITZER, ET. AL.

UTM GPS NORTHING: 4,322,108.11 METERS

UTM GPS EASTING: 547,493.72 METERS GPS ELEVATION: 381.78 METERS 1252.56 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 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 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 _X_ Real-Time Differential ____

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

Signature _____ Title WV Professional Surveyor #674
Stephen D. Losh, PS #674

Received
AUG - 1
Office of Oil and Gas
WV Dept. of Environmental Protection

Date 05/06/13

STEPHEN D. LOSH LICENSED No. 0674 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

CNX USE: NAD 27 WV NORTH SPC: 7077 = 200,535.60' 1,729,798.19' ELEV. = 1,252.56'