

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: 47-8101203, 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.

Operator's Well No: 51

Farm Name: ROWLAND LAND CO.

API Well Number: 47-8101203

Permit Type: Plugging
Date Issued: 04/25/2016

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.

WW-41	3
Rev.	2/01

1)Date	, 20
2)Operator's	
Well No. 11894	
3) API Well No. 47-	- 081 - 01203

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

	(If "Gas, Production X or Un	nderground storage) Deep/ Shallow_x
	2225	Watershed Drews Creek
5)	Location: Elevation 2225	
	District Marsh Fork	County Raleigh Quadrangle Pilot Knob
6)	Well Operator CNX Gas Company LLC	7) Designated Agent Anthony Kendziora
07	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	NameL&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 management see attached plugging procedures	nner of plugging this well is as follows:
10)		nner of plugging this well is as follows:
10)		Received Office of Oil & Gas

API 47-081-01203 Plugging Procedure

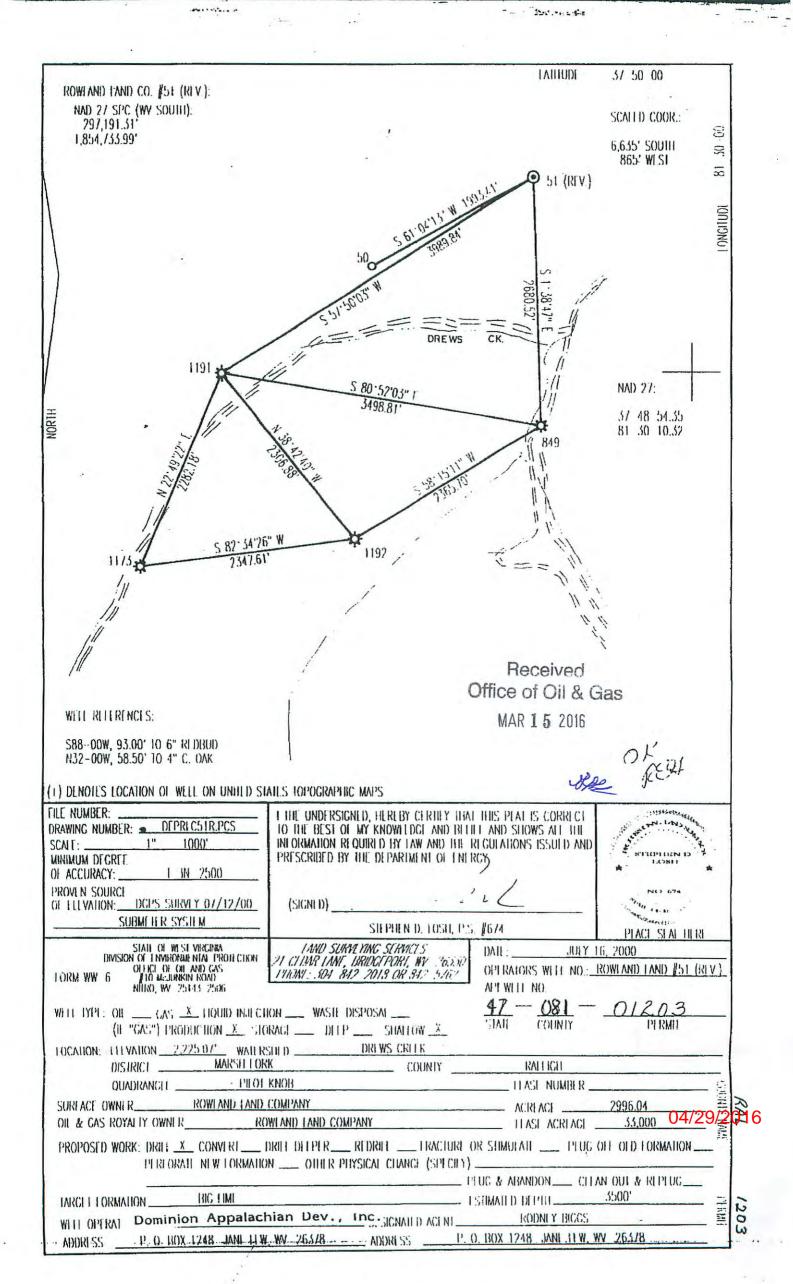
Well# Rowland 51 (11894)

- Verify total depth 3462'.
- 2. Run free-point survey on 4-1/2" casing. Driller's report states TOC @ 1856' per bond log.
- 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 Big Lime Perforations (3085' 3116').
- 4. Cut 4-1/2" casing at free-point.
- Cement through 4-1/2" csg. while pulling 4-1/2", from top of bottom plug to approximately 100' below the 7" casing shoe. (Approx. 852') Pull remaining 4-1/2" out of well.
- 6. Run bond log on 7" casing.
- 7. Run tubing to previous cement top (852'). Cement across the 7" shoe to a minimum of 50' above shoe, bringing cement top to approximately 50' below the 7" free-point or to surface, whichever is necessary.
- If necessary, cut and pull free 7" casing.
- 9. Repeat free-point and cutting procedures for 9-5/8" if 7" is cut and pulled.
- Cement from previous cement top to surface.
- 11. Install 4-1/2" X 4' steel monument with API# and Date.

 MINIMUM OF 6" DIAM. PIPE FILLED WITH CONCRETE SHALL BE
 ERECTED OVER THE WELL NO LESS THAN 30" ABOUR SURFACE AND
 10' BELOW SURFACE. gamm

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.

Received Office of Oil & Gas MAR 1 5 2016



Rowland #5/ (11894)

WR-35			TE: 10-04-		13
			1#: 47 081	01203	
	f West Virginia		Wish ! 18		
Division of En		Olection	11.2.1		
Section	of Oil and Ga	S	-		
Well Operator	's Report of Wo	ell Work			
Farm name: Rowland Land Co.	Oper	ator Well No.:	Rowland L	and#51 (11	1894)
LOCATION: Elevation: 2225.07	Quad	irangle: P	ilot Knob		
District: Marsh Fork	Cou	nty: Rale:	igh		
Latitude: 6635 Feet South of 37	Deg. 5		O Sec.		- -
Longitude 865 Feet West of 81	Deg. 3		O Sec.		· -
Company: Dominion Exploration & Pr	coduction	Inc.			1
P O Box 1248		The state of the s	1 x aft :	l C 511	
Jane Lew, WV 26378	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Address:	reping	diaming	-	up Cit. FL	
11001000					
Agent: Rodney J. Biggs				7	•
Inspector: Rodney Dillon					
Date Permit Issued: 08/02/00					
Date Well Work Commenced: 09/01/00	12 3/4	21'	21'	Sand In	
Date Well Work Completed: 09/11-13/00					
Verbal Plugging: N/A	9 5/8	308'	308'	88 Sks	2
Date Permission granted on: N/A	7.11	7501	5501		
Rotary X Cable Rig	7" .	752.	752'	117 sks	
Total Depth (feet): 3519'	4 1/2	24621	24601	00 1	
Fresh Water Depth (ft.): N/A	4 1/2	3462'	3462'	90 sks	
Salt Water Depth (ft.): N/A			1	OR STREET	1
Date Wester Depart (197)				Promised	1
Is coal being mined in area (N/Y)? N				- Marine 273	1
Coal Depths (ft.): 190-192,220, 221			1 0	CT 16 2000	
OPEN FLOW DATA				WV Division of roamstal Protestion	
P. I. S. C. S. PS- Ti	n	1 4 (0)	2005-2116	-	_
Producing formation Big Lime					2
Gas: Initial open flow 33 MCF/d Oil: 1 Final open flow 59 MCF/d Fi			bl/d bl/d		Received
Final open flow 59 MCF/d Final of open flow between initial and fi	inal open flow	12 Hours	1	Offic	20 01 011 0
Static rock Pressure 500 psig (surfac				۸	MAR 1 5 2016
Second producing formation	Pay zon	e depth (ft)		10	TAN 1 5 2016
	Initial open flo		bVd /		Î
	inal open flow		ol/d	the	7
Time of open flow between initial and fi		Hours			4
Static rock Pressure psig (surface					F
					-
NOTE: ON BACK OF THIS FORM PUT THE I					80
INTERVALS, FRACTURING OR STIMULATIN	IG, PHYSICAL	L CHANGE, E	TC. 2). THE WI	ELL	1203
LOG WHICH IS A SYSTEMATIC DETAILED		L RECORD O	F ALL FORMA	TIONS,	
INCLUDING COAL ENCOUNTERED BY THE	/)			
Signed:	Red B	351	0		04/29/2016

COMPANY/WELL NO .: DOMINION-ROWLAND #51

09/07/2000 LOGGED TD AT 3519, RAN CAL,GR, DENS, NEU, IND, TEMP, AUDIO LOGS

10/04/2000

RAN 81 JNTS 4.5# M-63 CSG, 3469 THRDS ON, 3456 THRDS OFF, SET FLT SHOE AT 3462' KB, LD BAFF AT 3452', 3 5/16" BAFF AT 2944' KB, 3 9/16" BAFF AT 2774' KB, BJ CMT W/BO SKS TUFFLITE, PLUS 44 BBLS TREAT H2O BEHIND PLUG, PLUG DOWN AT 12:15 AM 9/8/2000, WELL GRC 24 BBL TO PIT.

09/11/2000 RAN CBL LOG, LTD 3450', CMT TOP 1855', PERF BIG LIME 3085'-3116'

14 HOLES, ACIDIZED BIG LIME, BREAK 710#, MAX

TREAT PSI 1000#, AVG RATE 6 BPM, AVG PSI 850#, JOB COMPLETE 2:25PM, USED 2500 GAL 28% ACID, 139 BBLS TREAT GEL H20, N2 RATE 150 SCF/8BL. AVG HHP 167, DROPPED 5 PERF BALLS IN LAST HALF OF JOB.

TTL N2 22,800 SCF. ISIP 125# 5 MIN 125#. OPEN TO PIT AT 3:00 PM.

09/13/2000 DRILLED OUT FRAC BAFFLES. CHECKED TD AT 3455'. SWABBING ACID H20 TO PIT. CLEAN UP AFTER FRAC.

09/14/2000 600# PRESSURE, OPEN WELL, DID NOT FLOW. CLEANED UP WELL, WELL MAKING 350' SALT WATER EVERY 1/2 HOUR. WELL DID KICK OFF AND FLOW, WILL TAKE PRESSURE AND OPEN FLOW 9/14.

09/15/2000 SICP = 600#. D.F. = 103 MCF.

485# CSG PSI. CORRECT OPEN FLOW IS 6/10 X 1" WW= 25 MCF/D. WAITING ON PIPELINE.

09/19/2000 EVALUATING

09/20/2000 EVALUATING. MOVING IN SWAB RIG.
09/27/2000 SICP = 750#. SWABBED WELL. FIRST FLUID LEVEL 1200' FROM SURFACE

09/28/2000 SWABBING CASING.

09/28/2000 SWABBING CASING. WELL MAKING 150' EVERY HOUR.

09/29/2000 SICP = 500#.

10/03/2000 WAITING ON PIPELINE

F.O.F. = 59 MCF/D

Ravencliff	2171	-	2252'		
Avis Limestone	2266	-	2306'		
Upper Maxton	2528	-	2564'		
Middle Maxton	2642	-		11.	1-1 - 1-1-1-1
Lower Maxton	2832		2908		
Little Lime	2918	=	2996'		
Big Lime	3008	÷	3403'		

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MAR 1 5 2016

Date: Operator's Well Number 11894
API Well No.: 47 - 081 - 01203 ARGINIA ECTION, OFFICE OF OIL AND GAS G AND ABANDON A WELL rator as I Owner(s) with Declaration same
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hich sets out the parties involved in the work and describes th 6.
pplication which are summarized in the instructions on the reverses side
well operator proposes to file or has filed this Notice and Application and
of the Office of Oil and Gas, West Virginia Department of Environmenta
r delivered by hand to the person(s) named above (or by publication in
(or by publication in
iny LLC
8/- 1. 7
Markey
Manager Mail Road
4609
ADOQ.
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Notary Public Received
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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.

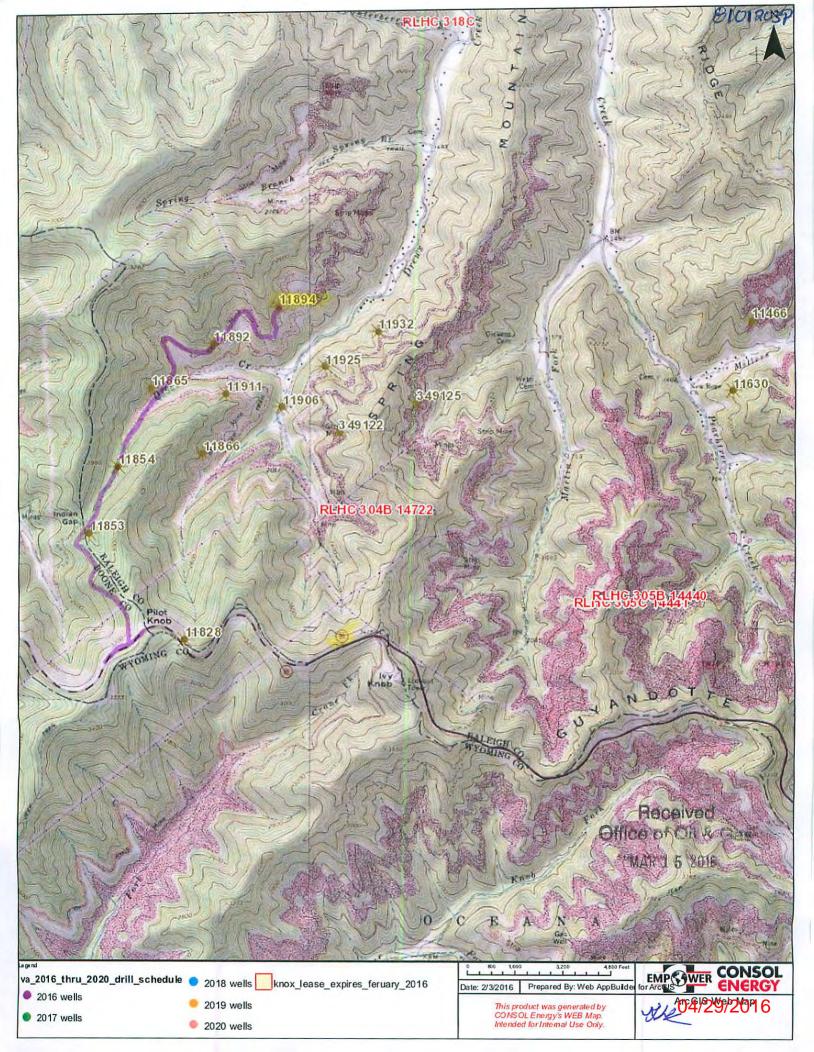
WW-9 (2/15)

API Number 47 - 081	01203
Operator's Well No.	11894

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN	
Operator Name Consol Gas Company OP Code 494495	754
Watershed (HUC 10) 0505000 902 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	100 1
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 NumberOff 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 lie	The state of the s
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 when the organization of the organ	
West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the pern where it was properly disposed.	nittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERAL WATER PC on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Prot provisions of the permit are enforceable by law. Violations of any term or condition of the general pe law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the intapplication form and all attachments thereto and that, based on my inquiry of those individuals in obtaining the information, I believe that the information is true, accurate, and complete. I am awar penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature	ection. I understand that the armit and/or other applicable formation submitted on this mmediately responsible for that there are significant
Company Official (Typed Name) Matt Hanley	Received
Company Official Title Manager Gas Permitting	Office of Oil & Gas
	MAR 1 5 2016
Subscribed and sworn before me this of day of March , 20 16	
V-TO 11	
Notary Public	
My commission expires 16-29-2017	COMMONWEALTH OF PENNSYLVANIA Notarial Seal
	Katherine L. Jursa, Notary Public Cecil Twp., Washington County My Commission Expires Oct. 29, 2017 IEMBER, PENNSYLVANIA ASSOCIATION OF THE MERITARIA ASSOCIATION OF THE PROPERTY OF THE PROPE

Consol Gas Comp	pany		Operator's V	Vell No11894
Proposed Revegetation Treats		1_1.5	Prevegetation pl	to be determined
Lime based on p	Tons/acre or to co	orrect to pH7		
Fertilizer type	D			
Fertilizer amount 5	50	lbs/acre		
Mulch	2	Tons/acre		
		Seed Mixtures		
Te	mporary		Perma	nnent
Seed Type	lbs/acre		Seed Type	lbs/acre
orchard grass	25			
oirdsfoot trefoil	15			
idino clover	10			
Plan Approved by:	7	7		
Comments:				
	Ale:			
Title: Irspect	N	Date:_	3/9/16	Received
Field Reviewed? (_) Yes	() No		Office of Oil & G
				MAR 1 5 2016





West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LO	CATION FORM: Gr	25	
API: 47-081-01203	WELL NO.	Roland 51 (11894)	
FARM NAME: Rowland L	and Company		
RESPONSIBLE PARTY NAME:	Consol Gas Con	npany	
COUNTY: Raleigh	DISTRICT:	Marsh Fork	
QUADRANGLE: Pilot Kno	ob		
surface owner: Rowla	nd Land Company		
ROYALTY OWNER: Rowlan			
UTM GPS NORTHING: 4,18	5,451.3 m.		
UTM GPS EASTING: 455,7	61.9 GPS ELEV	ATION: 2225 ft.	
height above mean sea le 2. Accuracy to Datum – 3.4 3. Data Collection Method Survey grade GPS: Post P Real-7 Mapping Grade GPS X: Post Re	For a plugging permit or assigned as will not accept GPS coordinate. The interest of the inter	ed API number on the nates that do not meet meters, Altitude: Received Office of Oil & Ga MAR 1 5 2016 e well location. my knowledge and	ıs
2	Production Forman	3/10/16	
Signature	Title	Date	