

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 22, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10902188, 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.

Jan Jour

Operator's Well No: 6067

Farm Name: POCAHONTAS LAND CORP.

API Well Number: 47-10902188 Permit Type: Plugging

Date Issued: 04/22/2016

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-4B Rev. 2/01

1)Date				20	
2) Operator	's				
Well No.	6067				
3) API Well	No.	47-	109	- 02188	

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

	APPLICATION FOR A PERM	III IO PLUG AND ABANDON	
4)	Well Type: Oil/ Gas X/ Liquid	d injection / Waste disposal /	
17		derground storage) Deep/ Shallow	X
5)	Location: Elevation 2820 ft.	Watershed Milam Fork of Barkers Creek	
	District Barkers Ridge	County Wyoming Quadrangle Rhodell	
6)	Well Operator CNX Gus 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		
	Name_ Brian Ferguson BCF	Name L&D Well Services	
	Address 708 Manor Drive	Address PO Box 1192	
	Beckley, WV 25801	Vansant, VA 24656	
10)	Work Order: The work order for the mann see attached plugging procedures		
10)			



API 47-109-02188 Plugging Procedure

Well # 6067

- Verify total depth 4463'.
- 2. Run free-point survey on 4-1/2" 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 Weir Perforations (2334' 2344').
- 4. Cut 4-1/2" casing at free-point.
- 5. 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. 942') Pull remaining 4-1/2" out of well.
- 6. Run bond log on 7" casing. 7" appears to be CTS.
- 7. Run tubing to previous cement top (942'). Cement from 942' to surface if the 7" is CTS. If not, the free 7" will be pulled before cementing to surface.
- 9. Install 4-1/2" X 4' steel monument with API# and Date.

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.

#6067 47-109-02188

WR-35 Rev (5-01)

Farm name: Pocahontas Land Corp

LOCATION: Elevation: 2819.97'

DATE: 12-19/2002 API#: 47 109 02188

State of West Virginia Department of Environmental Protection Office of Oil and Gas

Well Operator's Report of Well Work

_Operator Well No.: 6067

Quadrangle: Rhodell

			į	Free Land	
District: Barkers Ridge		nty: Wyoming			.
Latitude: 14,295 Feet South of 37 Deg.				JA31 5 8 21	773
Longitude 2660 Feet West of 81 Deg. 15	Min. 00 Sec	•	1	2	-30
			-	Problems:	mux 🕴
Company: Dominion Exploration & Production, In-	-				ರ್ಷ-ಪ್ರ <u>ಕ್ಷಣ</u>]
	Casing &	Used in	Left in well	Cement fill	C
	Tubing	drilling		up Cu. Ft.	_
Address: PO Box 1248		<u> </u>			_
Jane Lew, WV 26378					_
Agent: Rodney J. Biggs					_
Inspector: Jerry Tephabock	ļ	<u> </u>			_
Date Permit Issued: 08/14/2002					
Date Well Work Commenced: 10/14/2002	12 3/4"	201	20'	Sand In	_
Date Well Work Completed: 10/21/2002					_
Verbal Plugging: N/A	7"	842'	842'	140 sks	-
Date Permission granted on: N/A					-
Rotary X Cable Rig	4 1/2"	4463'	4463'	135 sks	-
Total Depth (feet): 4521 '					-
Fresh Water Depth (ft.): N/A		1			-
					-
Salt Water Depth (ft.): N/A					-
	1				-
Is coal being mined in area (N/Y)? N					-
Coal Depths (ft.): 270-271, 470-471					-
	•	•		•	
OPEN FLOW DATA					
Weir	_		4334-4344	1 '	
Producing formation <u>U Maxton</u>	Pay z	one depth (ft)	<u>2334-</u> 234	1 '	
Gas: Initial open flow Trace MCF/d Oil:					
Final open flow 470 MCF/d F	inal open flow	B	bl/d		
Time of open flow between initial and f	inal tests	12 Hour	S		
Static rock Pressure 200 psig (surfac	e pressure) afi	ter <u>12</u> Hot	ITS		
Second producing formation	Pay zon	e depth (ft)			
Gas: Initial open flow MCF/d Oil:	Initial open fle	ow F	bl/d	7/00	Oil and Gas
Final open flow MCF/d Fi	inal open flow	B	bl/d	of	Ou
Time of open flow between initial and f	inal tests	Hour	s		Oll and -
Static rock Pressure psig (surfac	c pressure) aft	er Hou	ırs	APD -	G_{a_i}
	- p,		,	· π. /	A 20. 2
NOTE: ON BACK OF THIS FORM PUT THE F	OLLOWING:	I). DETAILS (OF PERFORATI	学へ	~ < U16 \
INTERVALS, FRACTURING OR STIMULATIN	G, PHYSICAL	CHANGE, E	TC. 2). THE YY	LL Dena	
LOG WHICH IS A SYSTEMATIC DETAILED	GEOLOGICAL	RECORD OF	ALL FORMÁT	ions Pari	90
INCLUDING COAL ENCOUNTERED BY THE V	WELLBORE.	1		"Entar	-
	P-16	'		۹7,	. જ્
Final open flowMCF/d F. Time of open flow between initial and f. Static rock Pressurepsig (surfaction of the proof of the	12/3/	<u> </u>	ρ		~~
By: Rodney J. Biggs		7	M		,
Date:	15/36,	107	yur		04/00/0040
	. (04/22/2016

१७१० २१८८२

10/21/02 FRACED AS FOLLOWS:

11/05/2002

WEIR, 4334 - 4344', 20 HOLES, 75Q FOAM FRAC, TOT SAND 30,458#, 189 BBLS, 275 MSCFN2, 8D 0#, AVG RATE 20 BPM, AVG PRESS 1615#, ISIP 1600#

U MAXTON, 2334 - 2344'. 20 HOLES, X-LINK GEL FRAC, TOT SAND 25,329#, 393 BBLS, 84 MSCFN2, BD 900#, AVG RATE 18 BPM, AVG PRESS 1615#, ISIP 1115#.

1138

Overburdon	0	10
Sandstone	10	40
Sandy Shale	40	120
Sandstone	120	270
Coal	270	271
Sandstone	271	300
Shale	300	340
Sandy Shale	340	400
Sandstone	400	470
Coal	470	471
Sandstone	471	500
Sahle	500	670
Sandy Shale	670	1000
Sandstone	1000	1070

1070

FORMATION TOPS

Red Shale

1138	1175
1409	1467
1501	1544
1565	1611
2292	2399
2568	2604
2749	2800
2886	3243
3243	4008
'4008	4523
4296	4350
	4523'
	1409 1501 1565 2292 2568 2749 2886 3243

APR 14 2016

Environments

			10 21 88P
	:	LATITUDE 37-32-30	$\vec{}$
WELL REFERENCES:		•	2
S24-39E, 84.50' TO 8" RED OAK S35-30W, 55.00' TO 6" STRIPED MAPLE	DEP 6068 O 1872'	SCALED COOR.:	81-15-00 0
1	2'	14,295' SOUTH 2,660' WEST	∞
	DEP 6067	- 9 1	
Milam Fork	DEP 6067 1412.11 DEP 5835		E
	DEP 5835	' \$',	
	\ \		ONGITUDE
DEP 55	TRI. STA. 222		3
2385			
== 16/3		110	٠٠.
CF14 ==		"" "" "	
		The same of the sa	`
	10°07'48" W		
Cap N			
		}}	
· //			
Ĵ		"11	
ii	The state of the s		· :
13		<i>i</i> / 1	
"	, e		
	- 1E	"	
NAD 27 WV SOUTH SPC:		l)	::
		NAD 27:	
6067 = 183,040.83' 1,924,852.91'	TRI. STA. 175 A	37-30-08.62 81-15-32.52	
POCA LAND COOR:	Anstall		
6067 = 49,529.09'	OK	, "	
84,617.22		NOTE: NO OTHER WE WITHIN 2,400 FEET	
+) DENOTES LOCATION OF WELL ON UNITE	D STATES TOPOGRAPHIC MAPS	WILLIAM TOOL	
PILE NUMBER:	I THE UNDERSIGNED, HEREBY CERTIFY THAT TO TO THE BEST OF MY KNOWLEDGE AND BELLEY	HIS PLAT IS CORRECT	**************************************
SCALE:1" = 2000'	INFORMATION REQUIRED BY LAW AND THE REPRESCRIBED BY THE DEPARTMENT OF ENERGY	FULATIONS ISSUED AND # #	18 M
MINIMUM DEGREE OF ACCURACY: 1 IN 2500			<i>]*</i> }
PROVEN SOURCE OF ELEVATION: <u>DGPS SURVEY 07/03/0</u> 2	(SIGNED)	C NO. 87	A STATE OF THE STA
SUBMETER SYSTEM	STEPHEN D. LOSH, P.S.	#674 PLACE SEAL H	ERE
STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION		DATE:JULY 08, 2002	
OFFICE OF OIL AND GAS FORM YW-6 PIO MAJURKIN ROAD	1 11011Fr 201-049-2016 OV 449-2109	OPERATORS WELL NO.: 6067	
NITRO, WV 25143-1506		API WELL NO. 47 — 109 — 02/88	
WELLTYPE: OIL GAS X LIQUID INJECT (IF "GAS") PRODUCTION X ST	TION WASTE DISPOSAL TORAGE DEEP STIALLOW_X	STATE COUNTY PERMIT	
LOCATION: ELEVATION2819.97'_ WATE	RSHEDMILAM FORK	:	
DISTRICT BARKERS	RHODELL COUNTY	WYOMING LEASE NUMBER 79917	
40.0.00.0	CORP. (SS 281 - R. M. DELAPLAIN - 384		Z IND
		LEASE ACREAGE103,420	
	DRILL DEEPER REDRILL FRACTURE OF	RSTIMULATEPLUG OFF OLD FORMATION	M _ A
PERFORATE NEW FORMATIO	ON OTHER PHYSICAL CHANGE (SPECIFY)	IG & ABANDON CLEAN OUT & REPLAIG	_ = 0
TARGET FORMATION WEI	_	TIALATED DEPTH 4770'	- 88 88
WELL OPERATOR		ATED AGENT RODNEY BIGGS	- I`
ADDRESS P. O. BOX 1248 JANE LET	W. WV 26378 ADDRESS P.O. B	OX 1248 JANE LEW, WV 26378	1

WW-4A Revised 6-07		Date: Operator's Well Number
		6067
		3) API Well No.: 47 - 109 - 02188
D	EPARTMENT OF ENVIRONMENTA	WEST VIRGINIA L PROTECTION, OFFICE OF OIL AND GAS TO PLUG AND ABANDON A WELL
4) Surface Ow (a) Name	ener(s) to be served: Pocahontas Land Company 5) (a)	Coal Operator Name
Address	PO Box 1517	Address
	Bluefield, WV 24701-1517	
(b) Name	Penn Virginia Oil and Gas Corp. 💆	(b) Coal Owner(s) with Declaration
Address	-840 Gessner Suite 800	Name same
	·Houston TX 77024 —	Address
(c) Name		News
Address		Name Address
Address	-	Audress
6) Inspector	Brian Ferguson BKF	(c) Coal Lessee with Declaration
Address	708 Manor Drive	Name
murcos	Beckley, WV 25801	Address
Telephone	304-550-6265	
Take notice accompany Protection, the Applica	ou are not required to take any action at all. that under Chapter 22-6 of the West Virginia Code, the ing documents for a permit to plug and abandon a well with respect to the well at the location described on the	egarding the application which are summarized in the instructions on the reverses side. The undersigned well operator proposes to file or has filed this Notice and Application and with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental attached Application and depicted on the attached Form WW-6. Copies of this Notice, extified mail or delivered by hand to the person(s) named above (or by publication in the Chief.
	Well Operator CN By:	IX Gas Company LLC
	Its:	Manager - Gas Permitting
	Address 627	Claypool Hill Mall Road
	Ced	dar Bluff, VA 24609
	Telephone 276	5-596-5137
Subscribed and	sworn before me this 28th day o	March, 2016 MONWEAUTH OF PENNSYLVANIA
My Commission	Expires03/11/2019	Sara M. Micoli, Notary Public Gad
Oil and Gas Priva	cy Notice	Cecil Twp. Washington County My Commission Expires MacCong 2019
regulatory duties. business or as nee office will appropr	Your personal information may be disclose ded to comply with statutory or regulatory	MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES on, such as name, address and phone number, as a part of our sed to other State agencies or third parties in the hormaticourse of requirements, including Freedom of Information Act requests Our you have any questions about our use of your personal Otopprivacy office www.gov.

WW-9 (2/15)

API Number	47 -	109	-	02188	
Ona	entario	Wall No		6067	

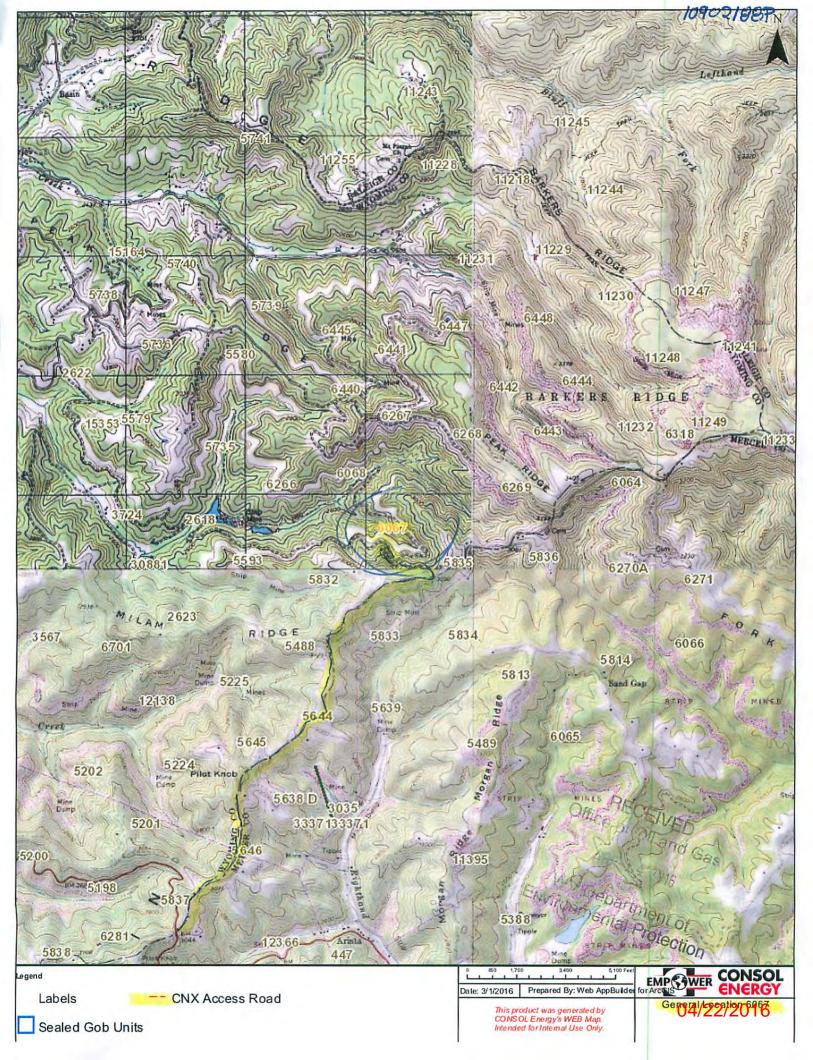
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name CNX Gas Company LLC	OP Code 494458046	
Watershed (HUC 10) 0507010103 Quadrang		
Do you anticipate using more than 5,000 bbls of water to complete the propose Will a pit be used? Yes No V		_
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 2DC		
Reuse (at API NumberOff Site Disposal (Supply form WW-9 for disposal Other (Explain	I location)	
Will closed loop system be used? If so, describe: a pumper truck with a flow b	ack tank will be used in lieu of a nit	
Drilling medium anticipated for this well (vertical and horizontal)? Air, fresh	The state of the s	
-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? (cemen	t, lime, sawdust)	
-Landfill or offsite name/permit number?		
Permittee shall provide written notice to the Office of Oil and Gas of any load West Virginia solid waste facility. The notice shall be provided within 24 hour where it was properly disposed.	of drill cuttings or associated waste rejecters of rejection and the permittee shall also	ed at any disclose
I certify that I understand and agree to the terms and conditions of the on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department or or consistency of the permit are enforceable by law. Violations of any term or consumer or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and application form and all attachments thereto and that, based on my inquisiblationing the information, I believe that the information is true, accurate, as	ent of Environmental Protection. I unders condition of the general permit and/or other d am familiar with the information submirry of those individuals immediately researed complete. I am aware that there are	etand that the er applicable itted on this ponsible for
penalties for submitting false information, including the possibility of fine or in		
Company Official Signature Manue Thanky	Di	
Company Official Signature Matt Hanley Matt Hanley	On RE	CEIVED
Company Official Signature Manue Thanky	Om _{Ce} o	CEIVED f Oil and G

		10105188
Operator's Well No.	6067	

	ment: Acres Disturbe	d 1.5	Prevegetation pH	to be determined
Lime based on p	H Tons/acre or to c	correct to pH7		
Fertilizer type)			
Fertilizer amount 5	50	lbs/acre		
Mulch	2	Tons/acre		
		Seed Mixtures		
Tei	mporary		Perma	nent
Seed Type	lbs/acre		Seed Type	lbs/acre
orchard grass	25			
birdsfoot trefoil	15			
lidino clover	10			
Plan Approved by: 15 cm	• •			
				Oss. AFO.
Title: Oll 4 GAS INSP	SC/TOL	Date:	3/25/2016	Office of Oil as
Field Reviewed?	(CTOC.	Date:	3/25/2016 Envir	Office OF OIL at
			3/25/2016 Envir	Office of Oil a APR 14 2010 Onmental Protect





West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

WELL ESCATION TORM. GIS
API: 47-109-02188 WELL NO.: 6067
FARM NAME: Pocahontas Land Corp
RESPONSIBLE PARTY NAME: CNX GAS Company LLC COUNTY: Wyoming DISTRICT: Barkers Ridge
COUNTY: Wyoming DISTRICT: Barkers Ridge
QUADRANGLE: Rhodell
SURFACE OWNER: Pocahontas Land Corp
ROYALTY OWNER: Penn VA Oil & Gas Comp
UTM GPS NORTHING: 4,150,662.9 M
UTM GPS EASTING: 477,133.2 M GPS ELEVATION: 2820 ft.
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 one belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas. Production Forces 338666
Signature Title Title