

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 21, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4900775, 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: CNGD 563

Farm Name: EDDY, JAMES E.

API Well Number: 47-4900775

Permit Type: Plugging
Date Issued: 11/21/2014

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. <u>Failure to adhere to the specified permit</u> 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.

1)Date	10	11	7	2014		
2)Oper Well	ator'			YE		
3)API			47-049	- 00775	ari)	14

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

	(If "Gas, Production X c	or Underground storage) Deep/ Shallow >
5)	Location: Elevation 1378.76	Watershed Tygart Valley River
	District Union	County Marion Quadrangle Fairmont West
6)	Well Operator CNX Gas Company LLC	7) Designated Agent Matt Imrich
	Address P.O. Box 1248	Address P.O. Box 1248
	Jane Lew, WV	Jane Lew, WV
3)	Oil and Gas Inspector to be notifie	
	Name Bill Hendershot	Name See Attached
	Address 403 James Street	Address
	Mannington, WV 26582	

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

See attached work order

Office of Oil and Gas

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence. 0CT 22014

Work order approved by inspector

Mocket

Plugging Work Order for Permit 47-049-00775

CNX Gas - Well 563

- 1. Verify 4-1/2" casing TD (~3120'). TIH w 2-3/8" EUE to TD. Establish circulation.
- 2. Pump cement plug from TD to 3020'. 6% gel to 2470'.
- 3. Pull 2-3/8" EUE to 2470'.
- 4. Pump cement plug from 2470' to 2240'. 6% gel to 1550'
- 5. Pull 2-3/8" EUE to 1550'.
- 6. Pump cement plug from 1550' to 1150' (elevation). 6% gel to 950'.
- 7. TOH w 2-3/8" EUE. Wait on cement before pulling 4-1/2".
- 8. Free point, cut, 4-1/2" casing at 950'.
- 9. Pull 4-1/2" up 2 feet.
- 10. Pump cement plug from 950' to 770' (casing cut & water show). 6% gel 770' to 200'
- 11. Pull 4-1/2" to 200'.
- 12. Pump cement plug 200' to surface.
- 13. TOH with 4-1/2", and top off cement to surface.
- 14. Install 6" x 14' monument (10' below-grade) API 47-049-00775

Work Order approved by Inspector Bll/ Herlinst Date: 10-17-14

Note: All cement will be Class A. All spacers between plugs will be 6% gel.

REGEIVED
Office of Oil and Gas

OCT 2 2 2014



IV-35 (Rev 8-81)

The start this	Date July 10, 1984
State of West Virginia	Operator's Well No. CNGD 563
Bepariment of Mines	Farm Moore
Gil und Was Adrisian	API No. 47 - 049 - 0775

WELL OPERATOR'S REPORT

OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection	/ Wast	e Disposa	ı/.		
(If "Gas," Production / Undergrow LOCATION: Elevation: 1401.70 Watershed)/ Sha	11 <u>ov_x_/)</u>	
District: Union County Mari	_			· · · ·	
to the same of the		Cuaorangie	Pairmon	t West 7.5	(197)
			·	·	-
COMPANY: CNG DEVELOPMENT COMPANY	•				
ADDRESS P. O. Box 15746, Pittsburgh, Pa 15275	Caşing	Used in H	T of conflict	Cement	1
DESIGNATED AGENT Gary A. Nicholas	Tubing	Drilling	4 of Oil & Gas	fill up	
ADDRESS Rt. 2 Box 698, Bridgeport, WW 26330	Size			¢u. ft.	{
SURFACE CANER E. Moore	20-16	i 1 i	10 2000		
ADDRESS Rt. 3 Box 6-B, Fairmont, WV 26554	Cond.		V Civision of mental Protection		
MINERAL RIGHTS OWNER E. Moore	13-10"	-			
ADDRESS Rt. 3 Box 6-B, Fairmont, WV 26554	9 5/8	1057			
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8	1257	1257	To surf	
Donald Ellis ADDRESS Belmont, WV 26134	5 1/2	 			
PERMIT ISSUED 4-6-84		3174	3174	300 sks	
DRILLING COMMENCED 5-23-84	4 1/2	32,74	31/4	JOU BES	
DRILLING COMPLETED 5-30-84	3. 13	3046	3046		
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	9. 13	3040	3046		
REWORKING. VERBAL PERMISSION OBTAINED	Liners used				
CAY		<u> </u>			
GEOLOGICAL TARGET FORMATION Balltown/Speechley	<i>y</i>	Dept	h 320	00 feet	'
Depth of completed well 3250 feet R	otary	X / Cable			
Water strata depth: Fresh feet;	Salt				
Coal seam depths: 340 - 343	Is coal h	cing mine	d in the	area? No	
OPEN FLOW DATA Speechless		•			
Producing formation 5Eh Sand	Dave	zone dept	3078 - 2405 -	· 3083 · 2411_	
		zone dept tial open			
Final open flow 603 McF/d		al open fl			
Time of open flow between initi		_		Bb1/d	
Static rock pressure 650 psig(surface					
(If applicable due to multiple complation-	-)	2.07 02001	4 IIOUE	s shut in	EIVED
Second producing formation		zone de nt i	h C	of C	Oil and Gas
Gas: Initial open flow Mcf/d				BP1 \4	,
Final open flow Mcf/d				—nrr2	2 2014
Time of open flow between initia					
Static rock pressurepsig(surface:			bour	WV Depa	artment of
		_	Env	rironmen	tal Pratection
		(Continu	e on reve	erse side)'	- 1/2017

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMILATING, PHYSICAL CHANGE, ETC.

McCullough - Speechley, 3073 - 3083, 8 holes; 3-1/8 HSC (.39)

Halliburton Frac Speechley, 500 gals 15% MOD 202 + 1000 gals Enwar, 40,000 20/40 Sand,

30 / gal max sand conc.

McCullough Perf.-50 Sand 2405 - 2411, 8 holes with 3-1/8 HSC (.39)

Halliburton Frac 5th Sand - 500 gals 15% HCL + 1000 gals Enwar. 34,400 # 20/40 Sand

30 / gal max sand conc.

McCullough Perf - 4th Sand - 2292 - 2301, 4 holes; 2317 - 2322, 5 holes; 3-1/2 select fire

HSC (.39)

Halliburton Frac - 4th Sand - 500 gals 15% HCL + 1000 gals Enwar. 60,000 # 20/40 Sand.

34 / gal max sand conc.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
KB - GL	0	10	Hole Damp - ½" stream @ 60'
Soil .	10	20	Increase 1" stream @ 820'
Sd, Sh & RR	20	340	
Coal	340	343	•
Sd, Sh & RR	343	700	•
Coal	700	704	
Sd, Sh	704	980	
Sd, Sh & RR	980	1210	· "
Little Lime	1210	1225	
RR & Sh	1225	1235	
Big Lime	1235	1340	
Injun	1340	1415	•
Sd & Sh	1415	3250	
•			
· · · · · · · · · · · · · · · · · · ·			

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY	
Well grerator	
By: Har A Thelan	RECEIVED
Date: July 10, 1984	
	Office of Oil and Gas

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including with, succuntered in the drilling of a well."

OCT 2 2 2014

1) Date:	10/17/14	
	r's Well Number	
563		

00775

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

3) API Well No.: 47 -

Surface Ow		o) (a)	Coal Operator	
(a) Name	The Jerry L. Brown Trust	/	Name	None of Declaration
Address	4181 Barnes Road		Address	
	Santa Rosa, CA 95403			
(b) Name			(b) Coal Ow	vner(s) with Declaration
Address			Name	Eastern Royalty, LLC
			Address	P.O. Box 1233
				Charleston, WV 25324
(c) Name			Name	
Address			Address	
) Inspector	Bill Hendershot		(a) Cool Loo	ssee with Declaration
Address	403 James Street		(c) Coal Les Name	
- Mulicoo	Mannington, WV 26582		201100	None of Declaration
Telephone	304-206-7750		Address	¥
reichnoue	304-200-1130			
(2) The	its and the plugging work ore plat (surveyor's map) showing	ier; and g the well location o	on Form WW-6,	sets out the parties involved in the work and describes
(2) The The reason However, y Take notic accompany Protection, the Applic	plat (surveyor's map) showing you received these documents is you are not required to take any ac e that under Chapter 22-6 of the v ring documents for a permit to plu with respect to the well at the lo	der; and g the well location of that you have rights tion at all. West Virginia Code, the ug and abandon a well cation described on the tiled by registered or	on Form WW-6, regarding the application the undersigned well of with the Chief of the e attached Application certified mail or deli-	sets out the parties involved in the work and describes ation which are summarized in the instructions on the reverses supperator proposes to file or has filed this Notice and Application of Office of Oil and Gas, West Virginia Department of Environment and depicted on the attached Form WW-6. Copies of this Notice by hand to the person(s) named above (or by publication)
(2) The The reason However, y Take notic accompany Protection, the Applic	you received these documents is you are not required to take any ace that under Chapter 22-6 of the ving documents for a permit to ple with respect to the well at the location, and the plat have been ma umstances) on or before the day of	der; and g the well location of s that you have rights stion at all. West Virginia Code, th ug and abandon a well cation described on the tiled by registered or of mailing or delivery t	on Form WW-6, regarding the application the undersigned well of with the Chief of the e attached Application certified mail or deli-	perator proposes to file or has filed this Notice and Application of Oil and Gas, West Virginia Department of Environment and depicted on the attached Form WW-6. Copies of this Notice by hand to the person(s) named above (or by publication)
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Take notic accompany Protection, the Applic certain circ	or to and the plugging work ore plat (surveyor's map) showing you received these documents is you are not required to take any ace that under Chapter 22-6 of the Ving documents for a permit to pluwith respect to the well at the location, and the plat have been may umstances) on or before the day of the NOTARY PUBLIC BY NOTARY PUBLIC BY A CARCLING FLANAGAN ACCUMBATION FLANAGAN ACCUMBATION WESTON WES	der; and g the well location of the state of	ne Form WW-6, regarding the application of the entached Application of the entached Application of the Chief. NX Gas Company LL att Imrich esignated Agent - Dis O. Box 1248 une Lew, WV 26378	ation which are summarized in the instructions on the reverses supperator proposes to file or has filed this Notice and Application of Office of Oil and Gas, West Virginia Department of Environment and depicted on the attached Form WW-6. Copies of this Notivered by hand to the person(s) named above (or by publication of the person of th
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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.

Environmental Protection 11/21/2014

Pa	age 1		of	2
API Number 47 - 04	19	A	00775	
Operator's Well No.	563			

Environmental 17200 edition

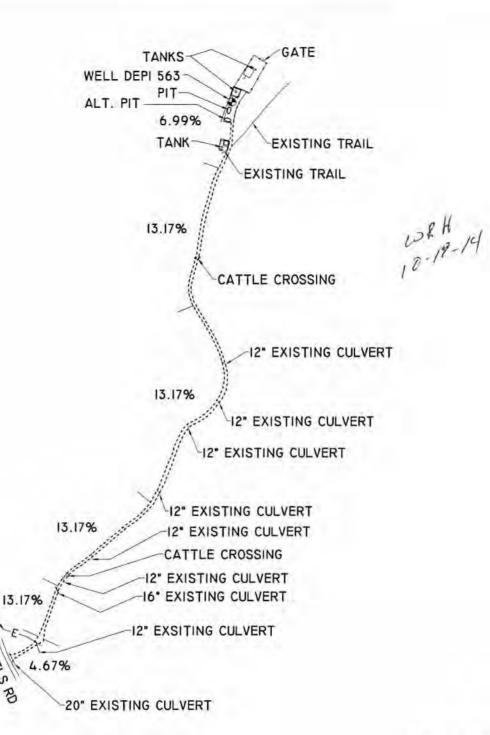
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

	lame CNX Gas Com		OP Code 494458046
Watershed	Tygart Valley River	Quadra	ngle Fairmont West
Elevation	1378.76'	County Marion	District_Union
Description	of anticipated Pit Was	te: Fluids associated with the	plugging of existing gas wells
Will a synt	hetic liner be used in th	e pit? N/A .	
Proposed I	Disposal Method For Tr		
		pplication	
		round Injection (UIC Permit Number_	
		(at API Number	and fraction
	X Other (Dispposal (Supply form WW-9 for dis Explain Waste Management or Ryan Environment	sposal location) tal use vacuum trucks, and properly disposes fluid and waste returns
Proposed V	Vork For Which Pit Wil	Il Be Used:	
	Drilling		wabbing
	Workov	verP	lugging
	Other (Evalain	
	certify that I understand	and agree to the terms and conditions	of the GENERAL WATER POLLUTION PERMIT
on August provisions law or regu I application obtaining penalties for Company (certify that I understand 1, 2005, by the Office of of the permit are enfor elation can lead to enfor certify under penalty of form and all attachm the information, I belie or submitting false infor Official Signature Official (Typed Name)	and agree to the terms and conditions of Oil and Gas of the West Virginia Depoceable by law. Violations of any term cement action. If law that I have personally examined tents thereto and that, based on my it is that the information is true, accurate mation, including the possibility of fine Matt Imrich	artment of Environmental Protection. I understand or condition of the general permit and/or other application and am familiar with the information submitted inquiry of those individuals immediately responsible, and complete. I am aware that there are significant.
on August provisions law or regular provisions application obtaining to penalties for Company (Company Company (Company	certify that I understand 1, 2005, by the Office of of the permit are enfor elation can lead to enfor certify under penalty of form and all attachm the information, I belied or submitting false infor Official Signature Official (Typed Name) Official Title	and agree to the terms and conditions of Oil and Gas of the West Virginia Depoceable by law. Violations of any term cement action. If law that I have personally examined tents thereto and that, based on my it eve that the information is true, accurate mation, including the possibility of fine Matt Imrich Matt Imrich The Content of Operations	artment of Environmental Protection. I understand or condition of the general permit and/or other apply and am familiar with the information submitted inquiry of those individuals immediately responsite, and complete. I am aware that there are signor imprisonment.
on August provisions law or regular provisions application obtaining to penalties for Company (Company Company (Company	certify that I understand 1, 2005, by the Office of of the permit are enfor elation can lead to enfor certify under penalty of form and all attachm the information, I belie or submitting false infor Official Signature Official (Typed Name)	and agree to the terms and conditions of Oil and Gas of the West Virginia Depoceable by law. Violations of any term cement action. If law that I have personally examined the the information is true, accurated that the information is true, accura	artment of Environmental Protection. I understand or condition of the general permit and/or other apply and am familiar with the information submitted inquiry of those individuals immediately responsible, and complete. I am aware that there are signor imprisonment.
on August provisions law or regular application obtaining penalties for Company (Company Company Compa	certify that I understand 1, 2005, by the Office of of the permit are enfor elation can lead to enfor certify under penalty of form and all attachm the information, I belied or submitting false infor Official Signature Official (Typed Name) Official Title	and agree to the terms and conditions of Oil and Gas of the West Virginia Depoceable by law. Violations of any term cement action. If law that I have personally examined the ents thereto and that, based on my inverted the information is true, accurated that the information is true, accurated that the information is true, accurated that Imrich Matt Imrich ated Agent - District Operations ated Agent - District Operations	artment of Environmental Protection. I understand or condition of the general permit and/or other application and am familiar with the information submitted inquiry of those individuals immediately responsible, and complete. I am aware that there are signor imprisonment. Superintendent, WV Gas Operations 1. 2014

ι	EGEND
Property Boundary	Diversion Comments of the Comm
Road = = = = = = = = = = = = = = = = = = =	Spring —
Existing Fence — X — X — X —	Wet Spot
Planned Fence / / /	Drain Pipe with size in inches (2)
Stream	$Waterway \;\; \longleftrightarrow \;\; \longleftrightarrow \;\; \longleftrightarrow \;\; \longleftrightarrow \;\; \longleftrightarrow \;\;$
Open Ditch	Cross Drain
Rock 635	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells W	Area for Land Application of Pit Waste
Drill site	
0.75.00	
Proposed Revegetation Treatment: Acres Disturbed 0.75 ac	Prevegetation pH 6.5
Lime Tons/acre or to correct to pH	7.0
500	
rertilizer (10-20-20 or equivalent)lbs/a	cre (500 lbs minimum)
Mulch_hay or straw @ 2	re
Seed	Mixtures
	. <u>.</u>
Area I Seed Type lbs/acre	Area II Seed Type lbs/acre
Orchard Grass 25	Orchard Grass 25
	
Birdsfoot Trefoil 15	Birdsfoot Trefoil 15
Ladino Clover 10	Ladino Clover 10
CHI.	
Attach:	
Drawing(s) of road, location,pit and proposed area for land applied	cation.
Photocopied section of involved 7.5' topographic sheet.	
Plan Approved by: Bell Harlush	
Plan Approved by: Bull 11 Sullist	
Comments:	
	RECEIVED
	Office of Oil and Gas
Title: I WULLINGERTAL INSVENTOR	Date: 10 - 17 14 NOT 9.9 2014
Title: Ewvirum ental Inspector Field Reviewed? (V) Yes (Contraction of the contraction o
Field Reviewed? () Yes (_) No WV Department of
	Environmental Protection





NOTE:

THIS PLAN IS FOR THE PLUGGING OF AN EXISTING GAS WELL. ENTIRE LENGTH OF ROAD IS EXISTING ROCK BASE WELL ROAD. ROCK WILL BE USED WHERE NECESSARY. ALL GRADES ARE NOTED.



POWERLINE-

11023 MASON DIXON HIGHWAY BURTON, WV 26562 PHONE: (304) 662-6486 DRAWINGS TO ACCOMPANY FORM WW-9
CNX GAS COMPANY LLC and Gas
P.O. BOX 1248
JANE LEW, WV 26376 2014

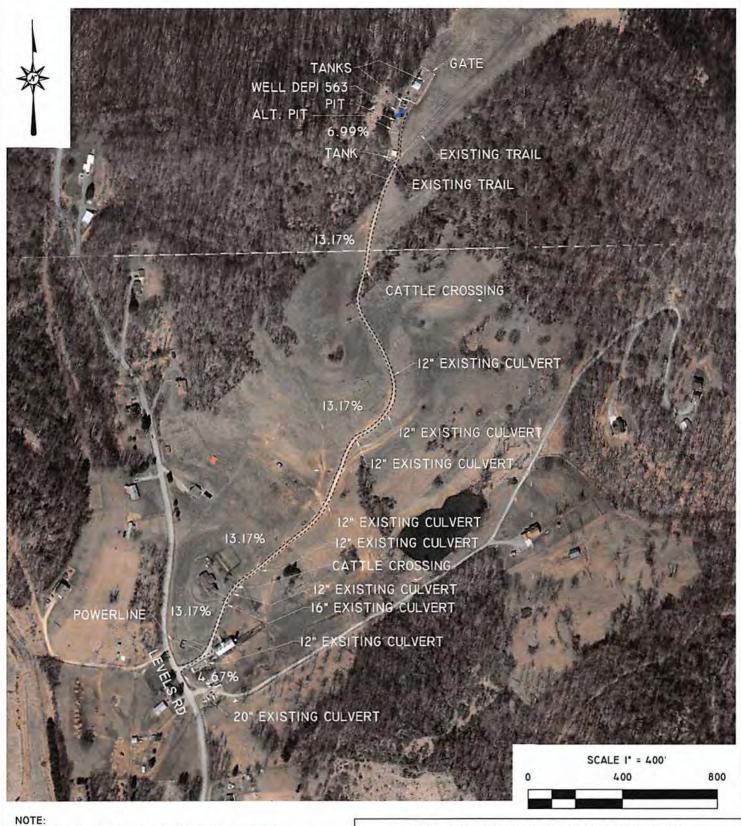
WATERSHED: TYGART VALUEY REPERTMENT OF
DISTRICT: UNION INVIRONMENTAL PROTECTION
QUADRANGLE: FAIRMONT WEST 7.5' WELL NO: DEPI 563

DATE: 08/04/14

PAGE 1/21/2014

SCALE I* = 400' 400

800



THIS PLAN IS FOR THE PLUGGING OF AN EXISTING GAS WELL. ENTIRE LENGTH OF ROAD IS EXISTING ROCK BASE WELL ROAD. ROCK WILL BE USED WHERE NECESSARY. ALL GRADES ARE NOTED.



11023 MASON DIXON HIGHWAY BURTON, WV 26562 PHONE: (304) 662-6486 DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPARTICETVED
P.O. DOTTOR 48 OII and Gas
JANE LEW, WV 26378

WATERSHED: TYGART VALLEY RIVER 2 2014

DISTRICT: UNION WY COUNTY: MARION
QUADRANGLE: FAIRMONT WEST OF THE STATE OF T

DATE: 08/04/14



11023 Mason Dixon Hwy, Burton WV 26562-9656 Phone: (304) 662-6486 E-mail: bmi@bluemtninc.com www.bluemtninc.com

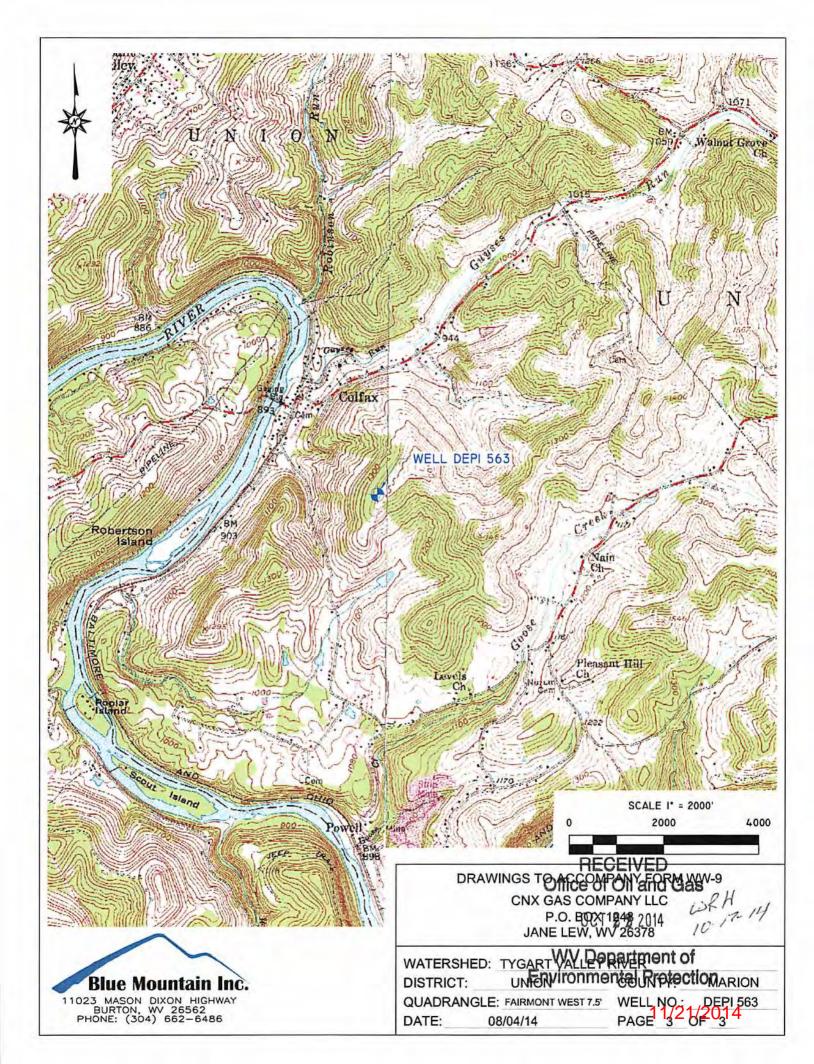
August 1, 2014

DRIVING DIRECTIONS FOR DEPI 563

From the junction of US Route 250 and County Route 60 (Colfax Road) travel East 3.0 miles on County Route 60. Turn right onto County Route 66/1 (Levels Road). Travel 0.9 miles on County Route 66/1. Turn left on well road.

RECEIVED
Office of Oil and Gas

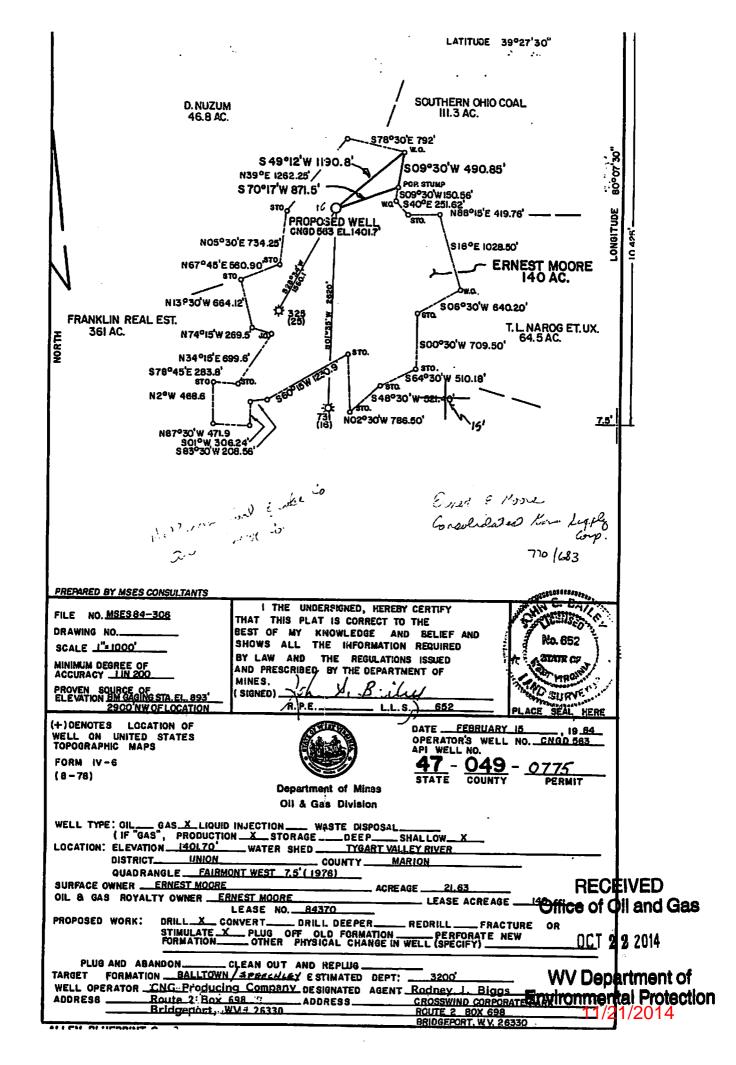
OCT 2 2 2014





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

API: 47-049-00775	WELL NO.: DEPI 563
FARM NAME: MOORE	
RESPONSIBLE PARTY NAME	: _ CNX GAS COMPANY LLC
COUNTY: MARION	DISTRICT: UNION 6
QUADRANGLE: FAIRMONT V	VEST 7.5' 343
SURFACE OWNER: _ JERRY L	BROWN
ROYALTY OWNER: ERNEST	MOORE
UTM GPS NORTHING: 43648	45.091 METERS
UTM GPS EASTING: 575265.	983 METERS GPS ELEVATION: 420.25 METERS
preparing a new well location plat above well. The Office of Oil and the following requirements: 1. Datum: NAD 1983, Zon height above mean sea 2. Accuracy to Datum - 3 3. Data Collection Method Survey grade GPS: Post I Real- Mapping Grade GPS: Post I	.05 meters d: Processed Differential
I the undersigned, hereby certify the	topography map showing the well location. his data is correct to the best of my knowledge TECEIVED on required by law and the regulations is TECEIVED of Gas. WV PROFESSIONAL SURVEYOR #2000 8-50/1/2 2 2014
Signature	Title WVat9epartment of Environmental Protection PC N:339257.370' E:1823263.239' ELEV:1378/261/2014





Carolinda Flanagan Permitting Analyst P.O. Box 1248 Jane Lew, WV 26378 (304) 884-2131

(CNIGAS

October 20, 2014

West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street, SE Charleston, WV 25304-2345

RE: Well to be Plug and Abandoned: 563

To Whom it May Concern,

Enclosed, please find the following plugging permit for your review and consideration:

563 – API #47-049-00775

Should you need any further information, please contact me at (304) 884-2057 or by email at carolindaflanagan@consolenergy.com. Thank you!

Sincerely,

Carolinda Flanagan

REGEIVED
Office of Oil and Gas

OCT 2 2 2014