west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Earl Ray Tomblin , Governor
Randy C. Huffman , Cabinet Secretary
www.dep.wv.gov

Monday, August 15, 2016
WELL WORK PERMIT
Vertical / Plugging - 2

CNX GAS COMPANY LLC
POST OFFICE BOX 1248

JANE LEW, WV 263786506

Re: Permit approval for 7965
47-033-01525-00-00

This well work permit 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 any additional specific 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: 7965
Farm Name: BOGGESS, S.
U.S. WELL NUMBER: 47-033-01525-00-00
Vertical / Plugging - 2
Date Issued: 8/15/2016

Promoting a healthy environment.

3301525P

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 within two years of the date of issuance of this permit.

3301525P

WW-4B
Rev. 2/01

1) Date August 5, 2015
2) Operator's Well No. 7965
3) API Well No. 47- 033 - 01525

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 1118.36' Watershed Limestone Run
District Coal -03 County Harrison Quadrangle Wolf Summit -692

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

7) Designated Agent Anthony Kendziora
Address P.O. Box 1248
Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified
Name Sam Ward
Address P.O. Box 2327
Buckhannon, WV 26201

9) Plugging Contractor
Name See Attached
Address

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

See attached work order

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

Work order approved by inspector Sam D Ward Date 4/11/16

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Attachment – Form WW-4B:

Potential Plugging Contractors:

Waco Oil & Gas
P.O. Box 397
Glenville, WV 26351

Viking Well Service
8113 Sissonville Drive
Sissonville, WV 25320

Stalnaker Energy
220 West Main Street
Glenville, WV 26351

Contractor Services Inc.
929 Charleston Road
Spencer, WV 25276

Coastal Drilling
130 Meadow Ridge Rd, STE 24
Mount Morris, PA 15349

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Plugging Work Order for Permit 47-033-01525

CNX Gas - Well DTI 7965

1. Verify TD. PULL 2" TUBING, IF ANY LEFT IN WELL.
2. TIH w/ 2-3/8" work string. SPOT GEL.
3. Pump bottom cement plug from TD to 2974'. TO WAS 3116'. (TOP OF SHELL WAS 3074')
4. TOH w/ 2-3/8" work string. Wait on cement. CHECK TOC. ADD MORE CIA IF NEEDED.
5. TIH w/perf guns, perforate 5 3/16" casing from 2178'-1520' w/4 shots every 100'.
6. TIH w/ 2-3/8" work string to 2425'.
7. Pump cement plug from 2425' to ~~150'~~ 1520', (905' plug covers 5th sand, bottom of 5 3/16" csg and gas show).
8. TOH w/ 2-3/8" work string.
9. Pull 5 3/16" csg and shoe.
10. Attempt to pull 6 5/8" csg and packer from well. If unable to pull, free point and cut above packer. Pull all free 6 5/8" casing.
11. TIH w/ 2-3/8" work string to 1520'.
12. Pump cement plug from 1520'-1400' (plug covers 6 5/8" csg point and gas show).
13. Pull work string to 1170'.
14. Pump cement plug from 1170'-790' (plug covers elevation, gas, oil, & water shows).
15. Pull work string to 550'.
16. Pump cement plug from 550'-380' (plugs cover oil show).
17. Pull work string to 200'.
18. Pump cement plug 200' to surface.
19. TOH w/ 2-3/8" work string, and top off cement to surface.
20. Install 6" diameter x 14' monument (10' below grade, 4' above grade) API 47-033-01525.

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Work Order approved by Inspector [signature] Date: 4/11/16

Note: All cement will be Class A. All spacers between plugs will be 6% gel. Any casing unable to be recovered will be perforated every 200' w/4-shots and 100' cement plugs will be set to cover all cut points.

3301525P

SYREWS WELL SERVICE, INC.

Route 3, Box 178-S • Weston, West Virginia 26452
(304) 269-1245

6

TICKET 3143

SERVICE RIG #: 2

DATE: 8/20/99

Customer Billing Address:

Name CNG TRANSMISSION

Address

City State Zip

Well Name No.: 7965

Rework:

Location: County State

New Well:

DESCRIPTION OF SERVICE

Bottom perfs 3076 5 3/16 pipe 2178
well is caved in
well would not test
(used tank truck)

Well T.D. 2214

Tubing PSI

Annulus PSI

Tubing Depth ft.

End Tank Reading:

Well Type: Gas Oil

Beginning Tank Reading:

5 min. Test 1.

Total For Day:

2.

Total Barrels:

3.

Approximate Fluid Level In Hole:

4.

5.

SERVICES & SUPPLIES

HOURS		QUANTITY	
Rig Time (Operating)	2 1/2	1 1/2" V Swab Cup	
		1 1/2" UF Swab Cup	
Rig Time (Moving)	1/2	1 1/2" TA Swab Cup	
		1 1/2" OSI, 154-HD Swab Cup	
Total	3	2" V Swab Cup	
		2" MV Swab Cup	
		2" TUF Swab Cup	
		154 HL Swab Cup	
		Oil Saver Rubbers	
		4 1/2 V Cups	

E
175.00

Form R 180-10 Bks.-2-30

7965

3301525P

Reserve Gas Company

REPAIR RECORD

Well No. ~~605~~

Farm Name Sarrah Boggess

Repairs Commenced October 23, 1933

Harrison District

N S 11 E 13 W

Repairs Completed Dec. 29, 1933

CASING AND TUBING RECORD

Size	Before Repairs	Pulled	Put in Well	After Repairs	Disposition of Amount Pulled
6-5/8"	1455.6/12 ft.			1455.6/12 ft.	Left Back
5-3/16"			2178 ft.	2178 ft.	Left Back
2"	2430.6/12ft.	2430.6/12ft.			

FEB 7 1934 J.C.L.

H.H.S. FEB 8 1934

SHOOTING RECORD

Date	Quarts	Top of Shell	Bottom of Shell	Diameter	Sand	TEST BEFORE SHOT Reading	Liquid	Opening	TEST AFTER SHOT Reading	Liquid	Opening	Test Taken After Shot No. Hours	By Whom Shot
Dec.15,1933.	20	3074	3082	4"	Spch.	24/10	W	1½	22/10	W	1½	288	M.T.Co.
						80010			79376				

RECORD OF ANY DEEPER DRILLING

Formation	Top	Bottom
Commenced drilling at depth of	2424 ft.	
Speechley	3073 ft.	3085 ft.
Gas	3076 ft.	
Total Depth	3116 ft.	

Names of Drillers	Time (Days)
Conrad E. Fischer	
Nathan S. Doy Wise	
Cassel E. Criss	

Names of Tool Dressers	Time (Days)
Clarence A. Ash	
William L. Greynolds	
Howard B. Stroup	

PACKER RECORD
(ALSO NOTE BELOW IF ANY PACKERS ARE PULLED)

Size	Kind	Anchor	Amount Above Anchor
8¼ x 6-5/8"	B.H.Packer		
6-5/8 x 5-3/16"	Anchor Packer.	40ft.	1460 ft.
2-5 3/16"	Steel Casing Shoes		

OIL AND GAS DISCOVERIES IN DEEPER DRILLING

Oil at Ft. in Sands

Gas at 3076 Ft. in Speechley Sands

VOLUME AND PRESSURE REPORT

BEFORE REPAIRS

Reading	Liquid	Opening	Rock or Minute Pressure	Sands Gas From
11/10	Water	1"	24977	Fourth & Fifth

AFTER REPAIRS

VOLUME TEST

Date of Test	Flow Meter ~~Kanley~~	Size of Opening	PITOT TUBE Reading	Liquid Used	OPEN FLOW Lbs.	Sands Gas From
Dec. 29,1933		1½	22/10	Water	79376	Injun, 50ft. 30ft. 4th, 5th. & Speechley
Time Blown						

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PRESSURE TEST

Date of Test	Opening	1 Min.	2 Min.	3 Min.	4 Min.	5 Min.	6 Min.	7 Min.	8 Min.	9 Min.	10 Min.	30 Min.	60 Min.	90 Min.	Rock
12-29-33	5 3/16 Casing	0	2	2	5	6	7	8	10	10	11	25	49	24	85
	" Tubing														

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History of work done on well # 605 in regard to running 5-3/16" Casing.

Run 2178 ft. 5-3/16" Casing with 5-3/16" Steel ~~xxxxx~~ Casing shoe on shoulder, with 6 ft. 5-3/16" Perferation set at 2167 ft. Unscrewed 5-3/16" Casing at 1500 ft. which we had a right & left hand nipple at this point, pulled 1500 ft. 5-3/16" Casing and rerun on 5-3/16" Steel casing shoe and 6-5/8 x 5-3/16" Anchor Packer with 5'8" of 5-3/16" Pefferation at 1465 ft. Packer set at ~~xxxxxxx~~ 14600-ft. bringing Injun, 50ft. 30ft., 4th. 5th. & Speechley sand gas in 5-3/16" Casing.

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Entered
2-34

Reserve Gas Company

DEFECTIVE WELL

No. 605

Report and Instructions

Estimate Cost of Repairs.

Cost of Hauling Rig & Tools	$ 185.00
Cost of Building Rig	150.00
Cost of Labor on Repairs	220.00
	555 00

This well was drilled Dec.14,1916. and has never been cleaned out, it now requires bailing very often ~~xx~~ in order to produce any gas, as the 8" Tubing has gone bad letting water in on 4th & 5th sand gas. also 6-5/8" Casing is leaking.

Prod. Dept.
OCT - 3 1933
Date

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FORM R 487 20 BKS 7-26

150 Yr 11-9

N.....S. 11 E. 12 W.....

Reserve Gas Company

Report on Defective Well

Well No. ~~605~~ 7965

Harrison Working District

Name Sarrah Boggess 193 Coal 160 a District Harrison County

ORIGINAL TEST						TEST TAKEN FOR THIS REPORT					
Date	Reading	Liquid	Opening	Rock	Sand	Date	Reading	Liquid	Opening	Rock	Sand
12-14-16	6/10	Mer.	2	230	Inj, 50'30'	9-14-33	No Test	Water	1"		Inj, 50'30'
"	4/10	Mer.	2"	170	4th & 5th.	"	11/10	Water	1"		4th & 5th.

Record of Casing and Tubing in this Well:

13 inch - 10 inch - 8¼ inch - 6⅝ inch 1455 5⅜ inch - Tubing { ....of....inch; 2430 of 2 inch }

History of Well:

Depth of Pittsburgh Coal Below Original Depth: 2424 Present Depth: 2424

Well Producing { Gas. Inj, 50'30'4th.5th Sand; Oil ....Sand } at depths of { 1465-1955-2046; 2285- 2375 } Condition of Rig: None

Well has made - bbl. of Oil from - Sand. Now making - bbl. Weekly Daily by - (How Produced)
(Daily—Weekly—Monthly)

Amount of cavings in hole: - Amount of Water: - Amount of Oil: -

Date well ~~shot~~ bailed out: Sept. 14, 1933 Result: Test Before Bailing, No Test Water " Opn. after Bailing 11/10 water 1" Opn. (FM)

Date of Shot	Size	Sand	Result
12-11-16	30 qt.	5th.	66/10 water 3" Opening.

What should be done with well in my opinion: Clean out & Report.
6 5/8 Casing Leaking & 2" Tubing Gone bad letting water
Test on 4th & 5th Sand Gas. Drop Pump string 5 3/16 Casing
Test 6 5/8 Casing Leaking
Gas Coming up either 6 5/8 Opening

Date Sept. 14, 1933 District Superintendent

I would recommend Clean out and repair. C. E. Hamath

Date Sept. 18-33 Approved Division Superintendent General Superintendent

Instructions from Pittsburgh office—**Repair as per recommendation of Superintendent**

Date SEP 20 1933 General Manager

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Form [illegible] 6-10

RESERVE GAS COMPANY

ORIGINAL WELL RECORD 7965

FARM [illegible] WELL No. [illegible]

DIST. [illegible] CO., W. VA.

DRILLING COMMENCED Oct 21 [illegible] OK 1916

DRILLING COMPLETED Dec 8 1916

CONTRACTOR [illegible]

FORMATION	TOP	BOTTOM	FORMATION	TOP	BOTTOM
Native Coal			Shelly Squaw	1575	1588
Pgh. Coal					
			Berea	1645	[illegible]
Little Dunkard	[illegible]	[illegible]			
			Gantz		
Big Dunkard		705			
			Fifty Foot	[illegible]	[illegible]
Gas Sand	745	765	Gas	[illegible]	
			Thirty Foot	2043	2069
1st Salt Sand	780	840	Gas	2046	
			Gordon Stray	2161	2180
2nd Salt Sand	[illegible]	915			
			Gordon	2183	[illegible]
~~Maxon~~	[illegible]	1010			
			Fourth	[illegible]	2290
Little Lime	1357	1378	Gas	2285	
Pencil Cave	1378	1383	Fifth	2374	2387
Big Lime	1383	1438	Gas	2375	
			Bayard		
Big Injun	1438	[illegible]			
			Total Depth	2424	

CASING	PUT IN WELL		PULLED OUT		LEFT IN WELL	
SIZE	FEET	INCHES	FEET	INCHES	FEET	INCHES
[illegible]	1070		1070			
[illegible]	1445					

HAVE DRILLERS O. K. FOR AMOUNT OF HOLE DRILLED BY THEM.

[illegible]

[illegible]

[illegible]

[illegible]

OVER

3301525P

REMARKS:

6 5/8 Hole Rd at 2163

5 3/16 Hole " 2163

Set Packer 2210

Steel line measurements should be made of Top and Bottom of Pittsburgh Coal and all the principal sands.

Under Remarks note if any of principal sands are not found and if any peculiarities in sands, as looser or harder than ordinary, etc.

If any coal, other than native or Pittsburgh be found, give steel line measurements of Top and Bottom and nature of coal.

Note if water found is fresh or salt.

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Form 1965 Record of Peerless Gas Co. Company

Well No. 4047 District Harrison

Located on Sarah Boggess Farm

District Coal County Harrison State W. Va.

Location Made Feb 2, 1916 First Work Done April 15-16

Rig Commenced Aug 9, 1916 Rig Completed Aug 15, 1916

Drilling Commenced Oct 21, 1916 Drilling Completed Dec 2, 1916

Rig Contractor Peerless Gas Co. Drilling Contractor (If S. N. G. Co. Tools, String No.) Wm. Hogans

Drillers John Hogans L. G. Reinsting

Tool Dressers W. D. Huffman Chas. Fausnet

11 S 13 E 44

FORMATION	TOP	BOTTOM	Steel Line Measurements	Water Found Depth	Oil Found Depth	Gas Found Depth	REMARKS
ative Coal	---	---					
ittsburg Coal	Below						
ittle Dunkard	400	430	400				
ig Dunkard	505	705	505				
as Sand	745	765	745				
irst Salt	780	840	780	830			
econd Salt	850	915	850	855			
~~Maxon~~ 3rd Salt	940	1010	940				
ittle Lime	1357	1378	1357				
encil Cave	1378	1383	1378				
ig Lime	1383	1438	1383				
ig Injun	1438	1543	1438			1465	
quaw (Shelly)	1575	1588	1575				
erea	1645	1675	1645				
antz	None						
ifty Foot	1930	1973	1930			1955	6/10 Mercury 2" opening!
hirty Foot	2043	2063	2043			2046	
Gordon Stray	2161	2180	2161				
Gordon	2183	2222	2183				
ourth	2225	2290	2225			2285	4/10 Mercury 2" opening.
ifth	2374	2387	2374			2375	
ayard							
Total Depth		2424					

SIZE	Charged to Well Feet	In.	Put in Well Feet	In.	Pulled Out Feet	In.	Left in Well Feet	In.	Transferred Before Completing Feet	In.	Left at Well Not in Use Feet	In.	If more than two strings of casing are left in hole, give reasons for leaving additional strings
13" Csg.													
10" "	188	5	---		---		---		188	5	---		
8¼" "	1174	11	1078		1078		---		---		1174	11	
6 5-8" "	1526	9	1455	6	---		1455	6	---		71	3	Steel Line 1445
5 3-16" "													
2" Tbg.	2445	6	2430	6	---		2430	6	15		---		Steel Line 2424
"													

PACKER RECORD

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
5 3/16 X 2	Anchor	212.11/12	221 7/12	
6 5/8 X 8¼	B.H.			

SHOOTING RECORD (If shot before or upon completion of well)

DATE	Quarts	Top of Shell	Bottom of Shell	Diameter	Sand	Test Before Shot Reading	Test Before Shot Liquid	Test Before Shot Opening	Test After Shot Reading	Test After Shot Liquid	Test After Shot Opening	Test Taken After Shot No. Hours	By Whom Shot
12-11-16	30	2374	2385½	4"	5th	4 7/10	water	3	6 1/10	water	3	1 Hr.	Marietta Torpedo Co

CEMENTING RECORD

Date Cemented..... Size Hole Cemented..... Size Casing Cemented.....

Top Pittsburg Coal..... Top Cementing..... Amount Cement Used.....

Bottom Pittsburg Coal..... Bottom Cementing..... Amount Sand Used.....

Mr..... of..... Coal Company on ground when coal was cemented

Remarks:..... Signature of person who cemented well

Well Book Oct 12 1917 E.E.G.

Lease Book

Well Map JAN 17 1917 J.O.L.

Line Map FEB 10 1917 A.J.D.

Sheets FEB 5 1917 H.H.S.

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Approved by ..... Foreman

LEASE NO. 6057955 Sarah Woggess LEASE NO. 52702 ~~193~~ ACRES 160 N. S. 11 E. ~~12~~ 13 W. DISTRICT ~~Harrison~~

DISTRICT Coal

COUNTY Harrison

LOCATED Feb. 3, 1916

COMMENCED Apr. 15, 1916

COMPLETED Dec. 9, 1916

CONTRACTOR Wm. Hogan $ 1.15 Per Foot

PURCHASED FROM * 47-033-1525

DATE PURCHASED

DATE SHUT IN

DATE CONNECTED

DATE TURNED ON

DATE TURNED OFF

DATE DISCONNECTED

SOLD TO

DATE SOLD

DATE RE-PURCHASED

DATE PLUGGED

DATE ABANDONED

MERGER 12/30/39 TO HOPE NATURAL GAS CO. *

RECORD

FORMATION	TOP	BOTTOM	OIL AT	GAS AT	WATER AT	FRESH OR SALT
Pittsburgh Coal	Below					
Dunkard Sand	400	705	(430-505)			
Salt Sand	745 / 780	765 / 1010	(840-950)		830	
Maxon Sand L.L. / B.L.	1357 / 1378	1378 / 1438	(915-940)		855	
Injun Sand	1438	1543		1465		
Berea Sand	1575 / 1645	1588 / 1675				
Gantz Sand						
Fifty Foot Sand	1930	1973		1955		
Thirty Foot Sand	2043	2063		2046		
Stray Sand	2161	2180				
Gordon Sand	2183	2222				
Fourth Sand	2225	2290		2285		
Fifth Sand	2374	2387		2375		
Speechley ~~Bayard~~ Sand	3073	3085		3076		
TOTAL DEPTH		2424 S.L.				
	Deeper	3116 12/29/30				

CASING AND TUBING

SIZE	PUT IN WELL	PULLED	CEMENTED
13 In. Casing	SA/EM		Date
10 In. Casing			Size Casing
8¼ In. Casing	1078	1078	Top
6⅝ In. Casing	1455'6"		Bottom
5⅜ In. Casing	2178		
2 In. Tubing	2430'6"	2430'6"	
In. Tubing			
In. Tubing			

SHOOTING

DATE	QTS.	SAND	VOLUME BEFORE	VOLUME AF
12-11-16	30	Fifth	700,000	880,0
12-15-33	20	Speechly	83010	793

VOLUME AND PRESSURE TESTS

Elevation 1120'

DATE TAKEN			READING	LIQUID	OPENING	POUNDS PRESSURE	1 MIN.	5 MIN.	10 MIN.	30 MIN.	60 MIN.	ROCK	VOLUME	SAND	SIZE	MAKE	SET
Dec.	1	1916	8/10	M.	2"								497,280	30 ft.	5x2	A.	221
"	9	"	14/10	"	2"								655,776	" + Fifth	6x8	B.H.	
"	11	"	66/10	W.	3"								880,000	" "	6x5	A	14
F "	14	"	6/10	M.	2"			70	100	180	200	230	431,040	Injun 50 ft. + 30 ft.	2-5"	Floor	
F "	14	"	4/10	"	2"		40	85	90	105	135	170	350,880	4th + 5th			
Oct.	5	1920 B	11/10	W	2"		27	50	57	70	75	85	157,440	" + "			
Jan.	7	1922 B	6/10	W	2"		10	28	38	50	55	72	115,968	" + "			
May	29	" B	4/10	W	2"		18	32	38	50	52		94,560	" + "			
Jan.	11	1924 B	60/10	W.	1"								92,160	Injun - 50 ft - 30 ft			
"	11	" B	65/10	"	1"								97,000	Fifth			
May	12	1925 B	40/10	"	1"		4	9	16	38	60	90	76,080	Injun, 50 ft + 30 ft.			
"	12	" B	29/10	"	1"		6	16	22	30	34	49	65,000	Fifth			
Jul	31	1929 B	32/10	"	1"		2	10	20	35	45		67252	Do. ok.			
Apr	11	1932 B	24/10	"	1"		2	13	18	24	35		36893	Do. ok.			
Dec	29	1933	22/10	"	1½		0	6	11	25	49	85	79376	Inj. 50' 30' 4" 5" Speech			
Sept.	4	1943 B	30/10	"	1" P.M.		1	5	10	30	34	—	41,222	" " " " " "			

PACKERS

INITIAL OIL PRODUCTION

DATE	BARRELS	SAND

ESTIMATED BBL. W

33015257

FORM H 466 6000-9-13

3301525P

OP-8
Rev. 1/12

BOND NUMBER CMS0260746

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
BLANKET BOND FOR OIL OR GAS WELLS,
LIQUID INJECTION WELLS OR WASTE DISPOSAL WELLS

KNOW ALL MEN BY THESE PRESENTS:

(1) That we, CNX Gas Company LLC

(2) CNX Center, 1000 CONSOL Energy Drive, Canonsburg, PA 15317-6506

As Principal, and (3) RLI Insurance Company

(4) P.O. Box 3987, Peoria, IL 61612

a firm and/or a corporation authorized to do business in the State of West Virginia, as Surety, are held and firmly bound unto the State of West Virginia in the just and full sum of (5) two hundred and fifty thousand dollars ($ 250,000) to the payment thereof well and truly to make, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the above bound Principal in pursuance of the provisions of Chapter 22, Article 6 and/or 6A, of the Code of West Virginia, 1931, as amended, and the regulations promulgated thereunder, has made or intends to make application to the Chief of the Office of Oil and Gas, Department of Environmental Protection, the State of West Virginia for a permit to perform well work (as defined in Chapter 22, Article 6 and/or 6A), on oil or gas wells and/or liquid injection wells and/or waster disposal wells, or has acquired or purchased, or shall hereafter acquire or purchase such wells, or has been or shall be assigned operating responsibility for such wells located in West Virginia; and

WHEREAS, THE Obligee as a condition precedent to the issuance of such Permit or release of other obligation has required the Principal to furnish a SURETY BOND acceptable to the Obligee guaranteeing the performance of said provisions of Chapter 22, Article 6 or 6A, of the Code of West Virginia, 1931, as amended, and the regulations promulgated thereunder;

NOW THEREFORE, the condition of this obligation is such that if the Principal, its personal representatives, successors, heirs and assigns shall in performing well work (as defined in Chapter 22, Article 6 and/or 6A) or operating such wells shall furnish all reports, information and affidavits as may be required by the Department of Environmental Protection, Office of Oil and Gas, documenting that said wells have been plugged and abandoned in accordance with Chapter 22, Article 6, of the Code of West Virginia, 1931, as amended, and the regulations promulgated thereunder, then this obligation to be void; otherwise to remain in full force and effect.

This bond shall be effective from the (11) 02nd day of May, 2012, until released by the Department of Environmental Protection.

IN WITNESS WHEREOF the said Principal has hereunder set his or its hand and affixed his or its seal, and the said surety has caused its corporate name to be signed hereto and its corporate seal to be hereunto affixed by its duly authorized officer or agent this instrument this (12) 02nd day of May, 2012.

(15) Principal Corporate Seal (13) CNX Gas Company LLC (Seal)
(Principal)

(14) By: _____
(Title) Nicholas J. DeLuliis, Manager
(Must be President or Vice President)

(18) Surety Corporate Seal (16) RLI Insurance Company (Seal)
(Surety)

(17) By: _____
Sandra L. Rom, Attorney-In-Fact

19) Countersigned: N/A
(Resident West Virginia Agent)

(20) Address: _____

(21) Telephone: _____

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(LEASE)

ACKNOWLEDGMENTS

Acknowledgment by Principal If Individual or Partnership

1. STATE OF _____
2. County of _____ to-wit:
3. I, _____, a Notary Public in and for the
4. county and state aforesaid, do hereby certify that _____ whose name is signed to the foregoing writing, has this day acknowledged the same before me in my said county.
5. Given under my hand this _____ day of _____ 20_____.
6. Notary Seal 7 _____

(Notary Public)

8. My commission expires on the _____ day of _____ 20 ___.

Acknowledgment by Principal If Corporation or Limited Liability Company

9. STATE OF Pennsylvania
10. County of Washington to-wit:
11. I, Kathryn A. Galie, a Notary Public in and for the
12. county and state aforesaid, do hereby certify that Nicholas J. DeIuliis
13. who as, Manager signed the foregoing writing for
14. CNX Gas Company, LLC a corporation/LLC, has this day, in my said county, before me, acknowledged the said writing to be the act and deed of the said corp/LLC.
15. Given under my hand this 3rd day of May 20 12.
16. Notary Seal (Notary Public) — COMMONWEALTH OF PENNSYLVANIA; Notarial Seal; Kathryn A. Galie, Notary Public; Upper St. Clair Twp., Allegheny County; My Commission Expires Oct. 1, 2015; MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES
17. Kathryn A. Galie
18. My commission expires on the 1st day of October 20 15.

Acknowledgment by Surety

19. STATE OF Missouri
20. County of St. Louis City to-wit:
21. I, JoAnn R. Frank, a Notary Public in and for the
22. county and state aforesaid, do hereby certify that Sandra L. Ham
23. who as, Attorney-In-Fact signed the foregoing writing for
24. RLI Insurance Company a corporation has this day, in my said county, before me, acknowledged the said writing to be the act and deed of the said corporation.
25. Given under my hand this 02nd day of May 20 12.
26. Notary Seal (Notary Public) — JOANN R. FRANK; Notary Seal; State of Missouri; Commissioned for St. Louis City; My Commission Expires: June 20, 2014; Commission Number: 10305672
27. JoAnn R. Frank
28. My commission expires on the 20th day of June 20 14.

Sufficiency in Form and Manner Of Execution Approved

This _____ day of _____ 20 ___

Attorney General

By _____
(Assistant Attorney General)

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RLI Surety
P.O. Box 3967 | Peoria, IL 61612-3967
Phone: (800)645-2402 | Fax: (309)689-2036
www.rlicorp.com

POWER OF ATTORNEY
RLI Insurance Company

Know All Men by These Presents:

That this Power of Attorney is not valid or in effect unless attached to the bond which it authorizes executed, but may be detached by the approving officer if desired.

That **RLI Insurance Company**, an Illinois corporation, does hereby make, constitute and appoint:
Pamela A. Beelman, Cynthia L. Choren, Heidi A. Notheisen, Debra C. Schneider, JoAnn R. Frank, Karen L. Roider, Sandra L. Ham, jointly or severally.

in the City of Saint Louis, State of Missouri its true and lawful Agent and Attorney in Fact, with full power and authority hereby conferred, to sign, execute, acknowledge and deliver for and on its behalf as Surety, the following described bond.

Any and all bonds provided the bond penalty does not exceed Twenty Five Million Dollars ($25,000,000.00).

The acknowledgment and execution of such bond by the said Attorney in Fact shall be as binding upon this Company as if such bond had been executed and acknowledged by the regularly elected officers of this Company.

The **RLI Insurance Company** further certifies that the following is a true and exact copy of the Resolution adopted by the Board of Directors of **RLI Insurance Company**, and now in force to-wit:

"All bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or Agents who shall have authority to issue bonds, policies or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile."

IN WITNESS WHEREOF, the **RLI Insurance Company** has caused these presents to be executed by its Vice President with its corporate seal affixed this 11th day of July, 2011.

RLI INSURANCE COMPANY CORPORATE SEAL ILLINOIS

RLI Insurance Company

By: _____
Roy C. Die Vice President

State of Illinois
County of Peoria } SS

On this 11th day of July, 2011, before me, a Notary Public, personally appeared Roy C. Die, who being by me duly sworn, acknowledged that he signed the above Power of Attorney as the aforesaid officer of the **RLI Insurance Company** and acknowledged said instrument to be the voluntary act and deed of said corporation.

By: Cherie L Montgomery
Cherie L. Montgomery Notary Public

"OFFICIAL SEAL"
CHERIE L. MONTGOMERY
NOTARY PUBLIC STATE OF ILLINOIS
COMMISSION EXPIRES 02/02/12

2433313020212

CERTIFICATE

I, the undersigned officer of **RLI Insurance Company**, a stock corporation of the State of Illinois, do hereby certify that the attached Power of Attorney is in full force and effect and is irrevocable; and furthermore, that the Resolution of the Company as set forth in the Power of Attorney, is now in force. In testimony whereof, I have hereunto set my hand and the seal of the RLI Insurance Company this 02nd day of May

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RLI Insurance Company

By: _____
Roy C. Die Vice President

A0058707

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WW-4A
Revised 6-07

1) Date: August 5, 2015
2) Operator's Well Number
7965

3) API Well No.: 47 - 033 - 01525

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: Marilyn D. Hamrick
Address: RR 6 Box 238
Clarksburg, WV 26301

(b) Name
Address

(c) Name
Address

6) Inspector: Sam Ward
Address: P.O. Box 2327
Buckhannon, WV 26201
Telephone: 304-389-7583

5) (a) Coal Operator
Name: See Attached
Address

(b) Coal Owner(s) with Declaration
Name: See Attached
Address

Name
Address

(c) Coal Lessee with Declaration
Name: None of Declaration
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.

Well Operator: CNX Gas Company LLC
By: Matthew Hanley
Its: Permitting Manager
Address: 1000 CONSOL Energy Drive
Canonsburg, PA 15317
Telephone: 724-485-3011 - Matthew Hanley, Permitting Manager

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Office of Oil and Gas
MAY 0 2 2016
WV Department of
Environmental Protection

Subscribed and sworn before me this 27th day of April, 2016
Katherine L. Jursa
Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Katherine L. Jursa, Notary Public
Cecil Twp., Washington County
My Commission Expires Oct. 29, 2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

My Commission Expires 10-29-2017

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.

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Attachment WW-4A – for P&A Well #7965

Coal Owner(s) and Coal Operator(s):

Consolidation Coal Company
1000 Consol Energy Drive
Canonsburg, PA 15317

Three Musketeers Inc./
Tripple Enterprise, LLC
P.O. Box 466
Lumberport, WV 26386

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SURFACE OWNER WAIVER

Operator's Well Number 7965

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

1) The proposed well work will constitute a hazard to the safety of persons.
2) The soil erosion and sediment control plan is not adequate or effective;
3) Damage would occur to publicly owned lands or resources;
4) The proposed well work fails to protect fresh water sources or supplies;
5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON ETC.

Marilyn D. Hamrick Date 3-17-15
Signature

FOR EXECUTION BY A CORPORATION, ETC.

Name _____
By _____
Its _____ Date _____

Signature Date

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WW-9
(2/15)

API Number 47 - 033 - 01525
Operator's Well No. 7965

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) Limestone Run Quadrangle Wolf Summit

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 ☑ Steel Container / Rolloff Box MTN

If so, please describe anticipated pit waste: Fluids associated with the plugging of existing gas wells

Will a synthetic liner be used in the pit? Yes ☐ No ☐ If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes: SDW 4/11/16

- ____ Land Application
- ____ Underground Injection (UIC Permit Number _____)
- ____ Reuse (at API Number _____)
- ■ Off Site Disposal (Supply form WW-9 for disposal location)
- ■ Other (Explain Waste Management or Ryan Environmental will use vacuum trucks, and properly dispose of fluid and waste returns.

Will closed loop system be used? If so, describe: _____

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 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 27th day of April, 20 16

Katherine L. Jursa Notary Public

My commission expires 10-29-2017

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Katherine L. Jursa, Notary Public
Cecil Twp., Washington County
My Commission Expires Oct. 29, 2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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Form WW-9

Operator's Well No. 7965

CNX Gas Company LLC

Proposed Revegetation Treatment: Acres Disturbed 1.00 acres Prevegetation pH 6.5

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

Fertilizer type Granular or Liquid

Fertilizer amount 500 lbs/acre

Mulch hay or straw @ 2 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: [signature]

Comments:

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Title: OOG Inspector Date: 4/11/16

Field Reviewed? ( ) Yes (✓) No

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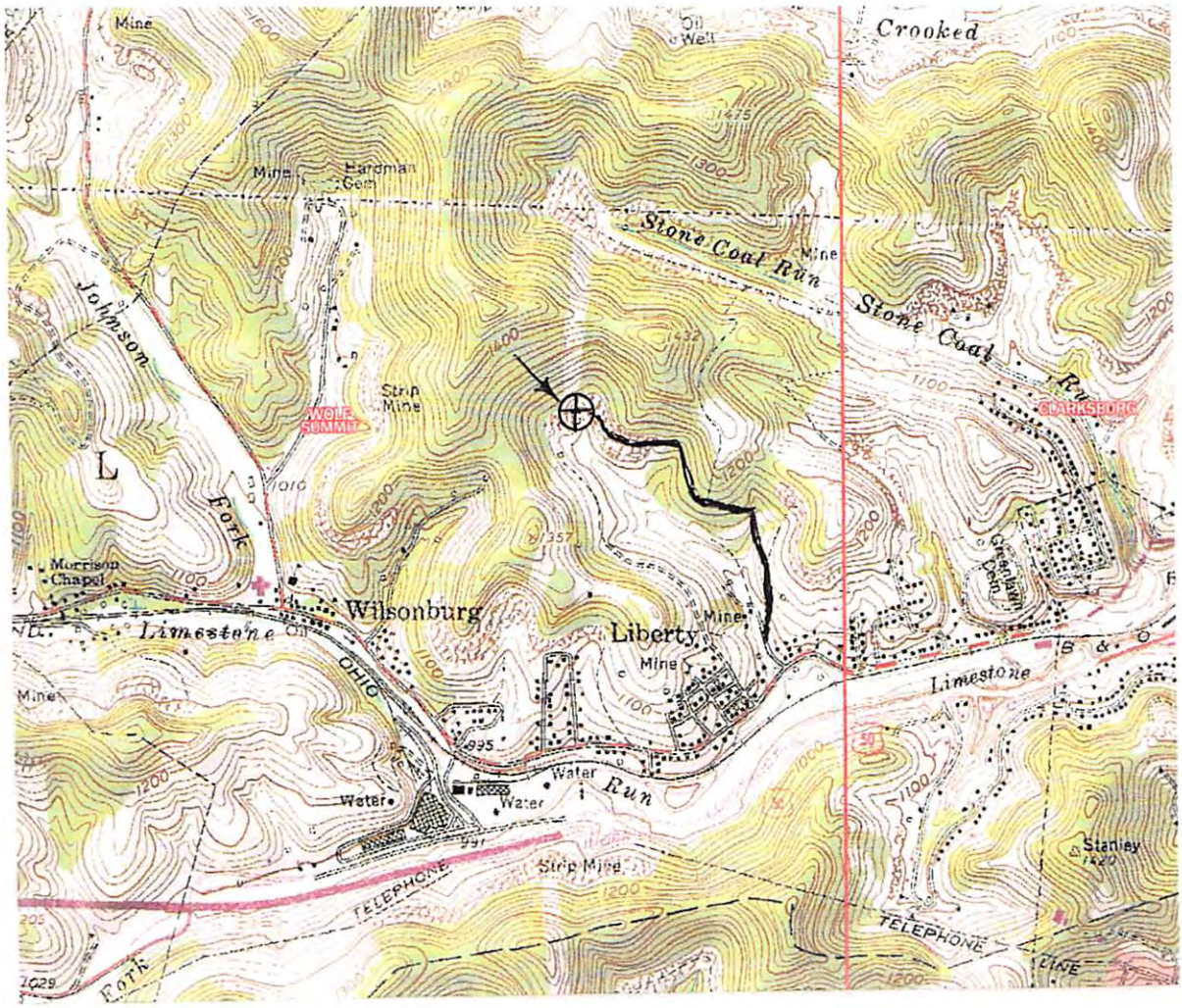

SDW
4/11/16

DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY LLC

P. O. BOX 1248

JANE LEW, WV 26378

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WATERSHED: LIMESTONE RUN

DISTRICT: COAL COUNTY: HARRISON

QUADRANGLE: WOLF SUMMIT WELL NO.: 7965

DATE: 11/19/14 PAGE ____ of ____

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

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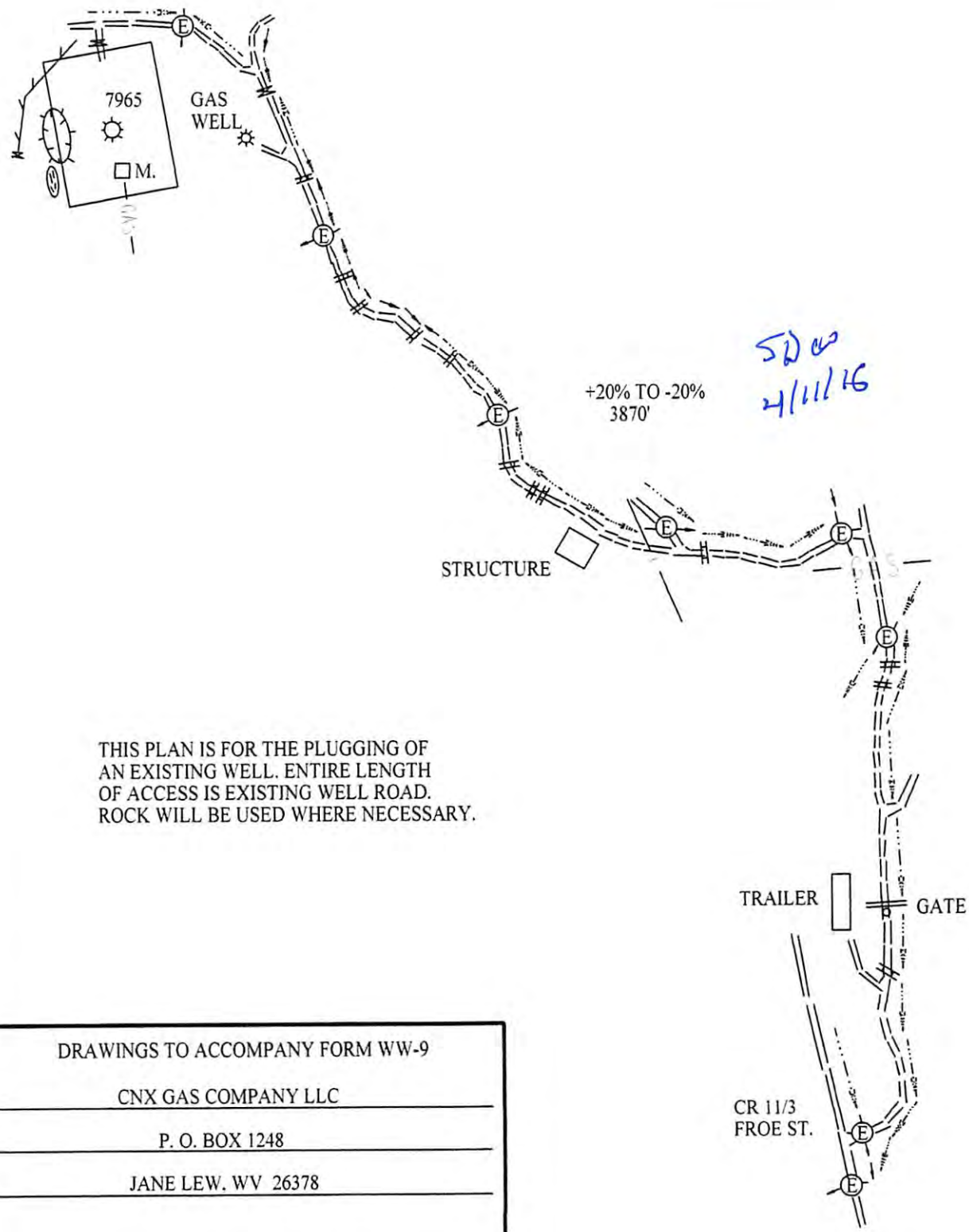

SD 4/11/16

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

DRAWINGS TO ACCOMPANY FORM WW-9

CNX GAS COMPANY LLC

P. O. BOX 1248

JANE LEW, WV 26378

WATERSHED: LIMESTONE RUN

DISTRICT: COAL **COUNTY:** HARRISON

QUADRANGLE: WOLF SUMMIT **WELL NO.:** 7965

DATE: 11/19/14 **PAGE** ____ **of** ____

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

3301525 P

WW-7
5-02

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

API: 47-033-01525 WELL NO.: 7965

FARM NAME: S. BOGGESS

RESPONSIBLE PARTY NAME: CNX GAS COMPANY LLC

COUNTY: HARRISON DISTRICT: COAL

QUADRANGLE: WOLF SUMMIT

SURFACE OWNER: MARILYN D. HAMRICK

ROYALTY OWNER: CNX GAS COMPANY LLC

UTM GPS NORTHING: 4,350,065.97 METERS

UTM GPS EASTING: 553,029.96 METERS GPS ELEVATION: 340.88 METERS (1118')

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 ____ Real-Time Differential X

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

Date 11/19/14

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MAY 02 2016
WV Department of
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STEPHEN D. LOSH
LICENSED
No. 0674
STATE OF
WEST VIRGINIA
PROFESSIONAL SURVEYOR

CNX USE: NAD 27 WV NORTH SPC: 7965 = 291,977.12' 1,749,492.43' ELEV. = 1118.36'