



**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

September 03, 2014

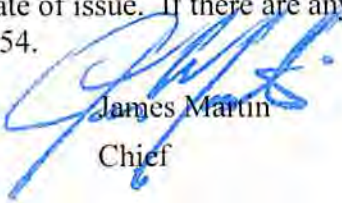
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-3301322, 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 penalties 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: 7010 (2086)  
Farm Name: WILLIAMS, H. W.  
**API Well Number: 47-3301322**  
**Permit Type: Plugging**  
Date Issued: 09/02/2014

**Promoting a healthy environment.**

**09/05/2014**

## 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. Failure to adhere to the specified permit conditions may result in enforcement action.

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### CONDITIONS

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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.

1) Date 8/6, 20 14  
2) Operator's  
Well No. 7010  
3) API Well No. 47-033 - 01322

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 1111.00' Watershed West Fork River  
District Union County Harrison Quadrangle West Milford

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

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Sam Ward Name See Attached  
Address P.O. Box 2327 Address \_\_\_\_\_  
Buckhannon, WV 26201

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

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Office of Oil and Gas  
WV Dept. of Environmental Protection

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

Work order approved by inspector Sam O. Ward Date 2/31/14

Attachment – Form WW-4B:

**Potential Plugging Contractors:**

Yost Drilling  
313 Steel Hill Rd.  
Mount Morris, PA 15349

Viking Well Service  
8113 Sissonville Drive  
Sissonville, WV 25320

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

Waco  
P.O. Box 397  
Glenville, WV 26351

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09/05/2014

## Plugging Work Order for Permit 47-033-01322

### CNX Gas - Well 7010

1. Verify 5-3/16" casing TD, and swab well dry.
2. Attempt to pull all 5-3/16", if unable to pull, free point, & cut above packer (1841').
3. Pull up 2 feet and pump cement plug from TD to 1400'. TOH with 5-3/16 casing.
4. Attempt to pull all 6-5/8", if unable to pull free point, and cut above packer (1387').
5. Pull 6-5/8" up to 1200', and pump cement plug across elev.(1091') to 1000'.
6. TOH with 6-5/8" casing.
7. Attempt to pull all 8-1/4" casing (870').
8. If unable to pull free point, cut, and pull as much as possible, perforate remainder.
9. TIH w/ 2-3/8" EUE work string to 950' pump cement plug to 750'.
10. Pull 2-3/8" EUE up to 300', and pump cement plug from 300' to surface.
11. TOH with 2-3/8" EUE, and top off cement to surface.
12. Install 6" x 14' monument (10' below grade) API 47-033-01322

Work Order approved by Inspector

S. J. Warrill

Date: 7/31/14

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

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Office of Oil and Gas  
WV Dept. of Environmental Protection

09/05/2014

Record of Hope Natural Gas Company  
 Well No. 2086 District W. H. Williams  
 Located on Union County Tarrison State W. Va.  
 Location Made 11-28-10 First Work Done 3-19-12  
 Rig Commenced 4-22-12 Rig Completed 4-27-12  
 Drilling Commenced 5-10-12 Drilling Completed 7-8-12  
 Rig Contractor H. J. Lee Rig Bldg Dept Drilling Contractor Jno. J. Williams  
 Drillers H. J. Lee H. J. Lee If H. N. G. Co. Tools. String No. \_\_\_\_\_  
 Tool Dressers J. E. Coffey Orlet Burnside

ENTERED  
 WELL BOOK JUL 19 1912 G.A.K.  
 LEASE RECORD  
 LEASE DOCKET  
 WALL MAP REMARKS 9 1012 J.C.L.  
 LINE MAP JUL 25 1912 H.S.  
 LOCATION BOOK  
 CONTRACTORS PLAT  
 CONTRACTOR \_\_\_\_\_  
 TITLE \_\_\_\_\_

FORMATION	TOP	BOTTOM	Steel Line Measurements	Water Found Depth	Oil Found Depth	Gas Found Depth
Native Coal						
Pittsburg Coal	about 140	Below				
Little Dunkard	440	450				
Big Dunkard	578	564				
Gas Sand	748	788				
First Salt	806	836		857		
Second Salt	840	870				845 Small Shoring
Saxon	960	1024				
Little Lime	1294	1310				
Pencil Cave						
Big Lime	1331	1389				
Big Injun	1389	1464				
Squaw	1470	1500				
Serea	1565	1570				
Santz	1715	1770				
Fifty Foot	1835	1895				
Thirty Foot	1922	1937				1925 8 3/10 m 2" spg
Gordon Stray	1997	2020				2100-2102 3 1/10 H 2" spg
Gordon	2045	2196				2165-2169 7 0/10 H 2" "
Fourth						
Fifth	2260	2275				
Bayard						
Total Depth		2423				

SIZE	Charged to Well		Put in Well		Pulled Out		Left in Well		Transferred Before Completing		Left at Well Not in Use		If more than two strings of casing are left in hole, give reasons for leaving additional strings
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
13" Csg.													Received AUG 7 2014 Office of Oil and Gas WV Dept. of Environmental Protection
10" "	341	3	307		307				341	3			
8 1/2" "	940	6	870				870				70	6	
6 5/8" "	1525		1387				1387				138		
5 3/16" "	2158	5	2009	6			2009	6			148	9	
2" Tbg.	2591	3	2429				2429				162	3	

**PACKER RECORD**

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
8 1/4 x 6 1/8	12H			
6 5/8 x 5 3/8	12H			
5 3/16 x 7	Anchor	346	2083	Purf set 2309

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

DATE	Quarts	Top of Shell	Bottom of Shell	Diameter	Sand	Test Before Shot			Test After Shot			Test Taken After Shot No. Hours	By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		
7/10/12	30	222	2273 1/2	4 1/2	5 1/2	5 1/10 H	2	9 1/10 H	5 1/2	3	Ray Marvella		

**CEMENTING RECORD**

Date Cemented Not Cemented Size Hole Cemented \_\_\_\_\_ Size Casing Cemented \_\_\_\_\_ **09/05/2014**  
 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 persons who cemented well

Approved by W. J. Drayton Foreman

# HOPE NATURAL GAS COMPANY

## ORIGINAL WELL RECORD

FARM H. W. Williams WELL No. 2081  
Banacha DIST. CO., W. VA.  
 DRILLING COMMENCED 191  
 DRILLING COMPLETED July 8- 1912  
 CONTRACTOR

FORMATION	TOP	BOTTOM	FORMATION	TOP	BOTTOM
Native Coal			Squaw	1470	1500
Pgh. Coal	<u>140 Below</u>		Berea	1565	1570
Little Dunkard	440	450	Gantz	1715	1770
Big Dunkard	528	564	Fifty Foot	1835	1895
Gas Sand	748	788	Thirty Foot	1932	1937
1st Salt Sand	806	836	Water	837	
2nd Salt Sand	840	870	Gordon Stray	1997	2020
Maxon	960	1024	Gordon	2045	2196
Little Lime	1294	1310	Fourth		
Pencil Cave			Fifth	2260	2275
Big Lime	1331	1399	Bayard	2268	2267
Big Injun	1389	1464			
	1464	1470			
			Total Depth	2423	

CASING SIZE	PUT IN WELL		PULLED OUT		LEFT IN WELL	
	FEET	INCHES	FEET	INCHES	FEET	INCHES
10"	307		307			
8 1/4"	870					
6 5/8"	1397					
5 3/16"	2009	6				

*W. J. Doggins*

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

*H. W. Williams*  
*J. E. West*  
*J. E. West*  
*J. E. West*

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Office of Oil and Gas  
 WV Dept. of Environmental Protection

Arrison  
 Apr. 17, 1912  
 Mar. 19, 1912  
 July 8, 1912  
 Contractor John T. Williams  
 Purchased from 47-033-1322  
 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  
 Elevation 1091'

RECORD						CASING AND TUBING			
FORMATION	TOP	BOTTOM	OIL AT	GAS AT	WATER AT	FRESH OR SALT	SIZE	PUT IN WELL	PULLEY PLACEMENT
Pittsburgh Coal	140' below						13 in. Casing		Date
Dunkard Sand	440	564					10 in. Casing	307	307 Size Casing
Salt Sand	806	870		845	857		8 1/2 in. Casing	870	Top
Maxon Sand	960	1024					6 1/2 in. Casing	1387	Bottom
Injun Sand	1389	1464					5 1/2 in. Casing	2009'6"	2009'6"
Berea Sand	1565	1570					2 in. Tubing	2429	2429
Gantz Sand	1715	1770					2 in. Tubing	2745	2745
Fifty Foot Sand	1835	1895					3 in. Tubing		
Thirty Foot Sand	1922	1937		1925					
Stray Sand	1997	2020							
Gordon Sand	2045	2176		2100-2					
Fourth Sand									
Fifth Sand	2260	2275		2265-7					
Speckley Sand	2955	2958		2958					
TOTAL DEPTH		2423							
Driller plugged to		2984							
		2020	1-14-39						

SHOOTING				
DATE	QTS.	SAND	VOLUME BEFORE	VOLUME
7-10-12	30	5th	330,720	661
4-12-22	20	Speckley	76,080	201
5-17-39	40	30'	14,674	625

VOLUME AND PRESSURE TESTS

DATE TAKEN	READING	LIQUID	OPENING	POUNDS PRESSURE	VOLUME					ROCK	SAND	SIZE	MAKE	SET	
					1 MIN.	5 MIN.	10 MIN.	30 MIN.	60 MIN.						
June 10 1912	11/10	Water	6 5/8								1,650,000	30ft	6x8	B.H.	
" 15 "	83/10	Merc.	2"		150	335	355	360	365		1,590,000	"	5x6	"	
" 29 "	10/10	Water	2"								150,720	Gordon	2x5	A.	20
July 5 "	70/10	"	2"								400,000	" 4 5th	2x5	A.	279
" 10 "	5/10	"	5"								661,200	" 4 "	5 9/16"	Hook Wall	1824
" " "	20/10	Merc.	2"		90	225	340	495	540	740	786,720	Fifth			
Aug 29 1919	18 1/10	Water	1"			20	35	75	90	110	50,400	"			
Sept 12 1920	22 1/10	"	1"			25	50	95	110	135	55,776				
Oct 4 1921	10/10	"	1"			16	26	48	56	70	37,680				
April 22 1922	6/10	"	1/2"					5	15		7,248				
" 22 "	19/10	"	2"			75	125	220	465		150,720				
April 22 1932	6 1/10	"	1"			5	10	30	45	110	18,466	Speckley			
" 22 "	8 1/10	"	1"			10	20	50	100	225	21,300	Speckley			
June 20 1935	12/10	"	3/4"						65		14,674	"			
June 14 1939	40/10	"	1 1/4" P.M.		2	10	19	39	77	60	74,420	30'			
Nov. 12 1945	18/10	"	1" P.M.		0	4	7	14	24	-	31,950	"			

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INITIAL OIL PRODUCTION

DATE	BARRELS	SAND

3301322 P



DATE	TIME SHUT IN	SAND	ROCK	LINE PRESSURE	SHUT IN PRESSURE	DATE	TIME SHUT IN	SAND	ROCK	PR	Date	TR
Oct 1912	72 hrs	30 ft.	290			Sept 1919	2 mo 10 da	Speechley	101		1-17-50	16
" 1913	1 mo 25 da	Fifth	745			"	2 " 1 "	Speechley	337		7-20-50	14
Sept 1914	15"	30 ft.	250			Sept 1920	2 mo 19 da	5th	105		7-16-51	16
"	15"	Fifth	595	208	230	"	5 da	Speechley	300		7-18-51	16
Sept 1915	7 da	Thirtieth	94	208	270	Sept 1932	1 yr 3 mo 12 da	5th	110		1-19-53	1
Sept 1916	1 mo 1 da	Fifth	330			"	3 mo 11 da	Speechley	255		7-17-53	2
Sept 1917	3 da	30 ft.	112			Sept 1933	8 mo 5 da	5th	125		1-20-54	11
"	"	Fifth	260			"	6 mo 2 da	Speechley	216		7-26-54	11
Sept. 1918	"	30	107			Sept 1934	5 mo 7 da	5th	100		1-25-55	12
"	"	5th	155			"	3 da	Speechley	208		7-19-55	7
Sept 1919	"	30 ft.	60			Sept. 1935	4 mo 5 da	5th	95		1-18-56	12
"	"	5th	82			"	2 mo 10 da	Spch	200		7-17-56	7
Sept 1920	"	30 ft.	120			Sept 1936	4 mo 9 da	5th	95		1-21-57	9
"	"	5th	125			"	3 da	Spchly.	175		7-11-57	9
Sept 1921	3 da	30 ft.	50			Sept 1937	2 mo 28 da	5th	80		12-16-57	7.2
"	"	5th	75			"	4 da	Spch	165		7-19-58	13.0
Sept 1922	3 da	30 ft.	35			Sept 1938	3 mo 17 da	5th	85		1-21-59	11
"	"	5th	85			"	1 da	Speechley	150		7-21-59	15
Sept 1923	3 da	Speechley	100			Sept. 1939	2 Mo 16 Days	30'	60		1-26-60	14
"	"	5th	915			"	"	"	760		7-60	12.7
Sept 1924	2 mo 3 da	Speechley	100			Sept. 1940	1 Mo 11 Days	80'	55		1-61	13.2
"	"	Speechley	670			Aug. 1941	4 " 3 "	30'	50		7-61	9.9
"	"	"	"			Sept. 1942	5 "	30'	55		1-62	13.6
"	"	"	"			"	"	"	7-62		7-62	11.3
"	"	"	"			"	"	"	1-63		1-63	8.9
10-27	7 mo 3 da	5th	110			July 1947	7 da	30'	25		7-63	11.3
"	3 mo 19 da	Speechley	440			" 1949	7 "	"	26		1-64	10.7
Sept 1928	3 mo 26 da	5th	95			" 1950	7 "	"	22		7-64	11.8
"	3 mo 11 da	Speechley	405			June 52	7 "	"	25		1-65	7.9
"	"	"	"			" 54	8 "	"	20		"	"
"	"	"	"			Aug 56	7 "	"	19		"	"

Office of Oil and Gas  
WV Dep. of Environmental Protection

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REPAIRS TO WELL

COMMENCED	COMPLETED	DRILLED DEEPER		SHOT	VOLUME		ROCK PRESSURE		Date
		From (Ft.)	To (Ft.)		Before	After	Before	After	
16-22	4-22-22	2423	2984	7/2	7,987	7248	44	60	5-18-37-11
28-39	6-14-39			5-17-39		150,720			3-24-39-8M
						74,420			2-24-39-5M
									5-10-40-7M
									1-13-41-63M
									5-5-42-71M
									12-7-47-72M
									7-29-44-46M

ROYALTY 300.00 yr. 7-8  
 REDUCED TO 37.50 Quar. 7-8-39  
 REDUCTION SENT  
 REFUSED. 8-24-70,

3301322P

**Hoop Natural Gas Company**

Well No. 2086 <sup>1. 21. 590</sup> H. H. Williams Farm May 9- 1922

District Kanawha Commenced 2-16-22  
 N S 18 E 11 W Completed 4-22-22

**REPAIRS**

**CASING AND TUBING RECORD**

Size	Before Repairs	Pulled	Put in Well	After Repairs	Disposition of Amount Pulled
2 1/2	2429	2429	2995	2995	
2 1/2	6	6	none	none	
2 1/2	6 1/2	6 1/2	14 1/2	14 1/2	
3	none	none	58 1/2	58 1/2	See 14 1/2 page

**SHOOTING RECORD**

Date	Quarts	Top of Shell	Bottom of Shell	Diameter	Sand	TEST BEFORE SHOT			TEST AFTER SHOT			Test Taken After Shot No. Hours	By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		
4-12-22	20	2951	2961	3 1/2	Sphty	4 1/10	W	1	18 1/10	W	2	24	M. L. Co.

**RECORD OF ANY DEEPER DRILLING**

Formation	Top	Bottom	Names of Drillers	Time (Days)
Commenced drilling at depth of	2423		Harry Nelly - Harry Williams	48
Speckley	2955	2958	Names of Tool Dressers Frank Wilson Julian Nutter	48

**PACKER RECORD**

Size	Kind	Anchor	Amount Above Anchor
5 1/16 x 2	Anchor	189	2795

**OIL AND GAS DISCOVERIES IN DEEPER DRILLING**

Total Depth	Oil at	Ft. in	Sands
2984	Gas at 2958	Ft. in Speckley -	Sands

**VOLUME AND PRESSURE REPORT**

**BEFORE REPAIRS**

Reading	Liquid	Opening	Rock or Minute Pressure	Received
		90	Just	AUG 7 2014

**AFTER REPAIRS**

**VOLUME TEST**

Date of Test	Opening	PITOT-TUBE		OPEN FLOW	Sands Gas From	Office of Oil and Gas WV Dept. of Environmental Protection
		Reading	Liquid Used	Lbs.		
4-22-22	1/2 " Casing	6 1/10	Water		17h.	7,245
Time Blown	2 " Tubing	10 1/10	Water		Speckley	150,720

**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.	Hrs.	Rock
4-22-22	5 3/4 casing	0	0	0	0	0	0	0	0	0	0	5	15		
Time Blown	2 Tubing	15	35	50	62	75	87	97	105	120	135	220	465		

OIL: From Sand 2" Subj runs thru 3" then shot hole  
 Estimated Production Bbl. per Day  
 Remarks:

*M. J. Williams*  
 FOREMAN  
 09/05/2014

# Hope Natural Gas Company

N. S. 18 E. 11 W.

Well No. 2086

## Report on Defective Well

Kanawha Working District

Name H. W. Williams

Union

Harrison County

GAS  
OIL

**ORIGINAL TEST**

**TEST TAKEN FOR THIS REPORT**

Date	Reading	Liquid	Opening	Rock	Sand	Date	Reading	Liquid	Opening	Rock	Sand
4-22-28	18/10	Water	2"	465	Sphly.	2-24-39	18/10	Water	1 1/2"	44 # 1	Hr. Sphly
Barrels (Daily / Monthly)						Barrels (Daily / Monthly)					

**Record of Casing and Tubing in this Well:**

13 inch 10 inch 8 1/4 inch 870 6 5/8 inch 1387 5 3/16 inch 2009 Tubing { 5009' 2" of 2 inch  
58' 3" of 3 inch

**History of Well:**

Depth of Pittsburgh Coal Below Original Depth: 2984 Present Depth: 2982

Well Producing { Gas Sphly- 5-Gor-30' Sand at depths of { 2958-2565-67 2100-3 1925 Oil Produced by Sand Condition of Rig None

Amount of Cavings in hole: 2' Amount of Water: None Amount of Oil: None

Date well bailed out: 2-24-39 Result: 1.4M. Increase

Date of Shot	Size	Sand	Result
7-10-12	30 qts	Fifth.	Increase from 50/10 W. 2" to 5/10 W. 5"
4-12-22	20 qts	Speechley	Increase 40/10 W. 1" to 18/10 W. 2"

What should be done with well in my opinion: Plug off Lower sands and Test Gordon and 30'

Date 2-24-39 District Superintendent

I would recommend: when well was drilled 30' sand test 33/10 water  
at 2" opening Gordon test 34/10 water

Suggest Abandon lower hole and test upper zone

Date July 27, 39 Approved: [Signature] General Superintendent

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

Date MAR 1 1939 [Signature] Vice President

District Superintendent

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AUG 7 2014

33013227

WELL No. 2086

## Estimated Cost Of Repairs

## HOPE NATURAL GAS COMPANY

## Defective Well Report

## HISTORY OF WELL (Additional)

This well was drilled in July 1912- to depth 2423' gas being found at 1925' in 30' Gas at 2100-2102' in Gordon- Gas at 2265-2267' in Fifth,- 5th. sand being shot with 30 Qts- well Tubed and shut in. Well Bailed July 1920- 500' water Gas test 22/10 W. 1" Opg. Bailed Mar. 1921- 600' Water Gas test 20/10 W. 1"- Bailed Sept. 1922- 800' water gas test 18/10 W. 1" April 1922 well was drilled through Speechley sand to depth 2984' gas being found at 2958' Speechley shot with 20 Qts, well tubed and shut in. Well Bailed Apr. 1932- 100 Gal Water gas test 21.5M. Bailed June 1935- 40 Gal. water- Gas test 14.6M. Bailed May 1937 50 Gal. water Gas test 8.8M. Bailed Feb. 1939- 10 Gal. water gas test 8M. from Speechley and 3.5M from 5th. as Speechley is practically exhausted it should be plugged off- and upper sands tested for gas.

Repairing Road

Teaming:

Rig

Drilling Machine

Tools

Supplies

Rig:

Steel

Wood

Repairing:

(Labor

(Material

Building

Taking Down

Setting up machine

Water line

Pumping Water

Fuel Gas

Use of Tools:

Cleaning Out

Drilling

Pulling and running casing or tubing

Cleaning Out—Labor

Drilling Deeper "

Running Liner "

Torpedoes

Materials &amp; Supplies

Cleaning up around well

TOTAL

Estimated Cost	Actual Cost Treas. Dep't.
30. 00	
120. 00	
80. 00	
25.000	
150. 00	
50. 00	
10. 00	
90. 00	
90. 00	
100. 00	
300. 00	
50. 00	
50. 00	
1145. 00	

Office of Oil and Gas  
WV Dept. of Environment and Pollution

AUG 7 1939

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TREAS. DEPT. NOTICED

APR 6 1939

3301322P

Well No. 2086

## HOPE NATURAL GAS COMPANY

Form H 546-3M-2-17

H.W. WilliamsFarm, Stana WhiteDistrict, N. S. 18 E. 11 W.

## SHOOTING RECORD

Date	Quarts	Top of Shell	Bottom of Shell	Diameter	Sand	TEST BEFORE SHOT			TEST AFTER SHOT			Test taken after shot No. Hours	By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		
<u>5/17-30</u>	<u>40</u>	<u>1923</u>	<u>1938</u>	<u>4 1/4</u>	<u>30ft</u>	<u>12 1/10</u>	<u>W</u>	<u>3/4</u>	<u>28 1/10</u>	<u>N</u>	<u>1 1/4</u>	<u>15 1/2</u>	<u>M.T. Co</u>
						<u>14.674</u>			<u>62.222</u>				

## BAILING RECORD

TEST BEFORE BAILING			TEST AFTER BAILING			Sand Water is From
Reading	Liquid	Opening	Reading	Liquid	Opening	

## TUBING RECORD

Date Tubed	Size	Amount put in Well	Remarks

Remarks: Open Sand Temp shot.S.E. Mcmill Foreman

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AUG 7 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

3301322 P

# Hope Natural Gas Company

## REPAIR RECORD

Well No. 2086

Kanawha District

Farm Name B. W. Williams

N. 18 S. 11 W.

Repairs Commenced 3-28-39

Repairs Completed 6-14-39

### CASING AND TUBING RECORD

Size	Before Repairs	Pulled	Put in Well	After Repairs	Disposition of Amount Pulled
8 1/2"	870	None	None	870	
6 5/8"	1387	None	None	1387	
5 3/16"	2009.6	2009.6	1849	1849	S.L. 1841
2" 3"	3009.2 58.3	2745 None	None None	264.2 58.3	Inc. 14' 2" Perf. Bottom on hole. 14' 3" Perf. Bottom of hole.

### SHOOTING RECORD

Date	Quarts	Top of Shell	Bottom of Shell	Diameter	Sand	TEST BEFORE SHOT			TEST AFTER SHOT			Test Taken After Shot No. Hours	By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		
5-17-39	40	1923	1938	4 1/2"	30'	12/10	W.	3"	23/10	W.	1 1/2"	15 Days	M.T.Co. Sand Temp.

### RECORD OF ANY DEEPER DRILLING

Formation	Top	Bottom	Names of Drillers	Time (Days)
Commenced drilling at depth of	2384		J. W. Hinerman, - H. L. Atkins	
			S. L. Amm, & J. W. Reed	48
Fished out tubing to 2745' and drove a Wood Plug on top of tubing, 3 Bags cement on wood Plug. Filled with clay to 2440' and drove Wood Plug- 3 bags cement on plug, Bridged 2300' Clay to 2240 drove wood plug and 3 bags cement on wood plug. Bridged 2037- drove wood plug and cement at 2030'			Names of Tool Dressers	Time (Days)
			G. L. Lowther- J. E. Winton.	
			Frank Winton- & Oriett Burnside	48
PACKER RECORD (ALSO NOTE BELOW IF ANY PACKERS ARE PULLED)				
Size	Kind	Anchor	Amount Above Anchor	
5 3/16"	Hook Wall		1841	
OIL AND GAS DISCOVERIES IN DEEPER DRILLING				
Oil at		Ft. in	Sands	
Gas at		Ft. in	Sands	

### VOLUME AND PRESSURE REPORT

#### BEFORE REPAIRS

Reading	Liquid	Opening	Rock or Minute Pressure	Sands Gas From
18/10	Water	3"	442	speechley

#### AFTER REPAIRS

#### VOLUME TEST

Date of Test	Flow Meter or open Flow	Size of Opening	PITOT TUBE		OPEN FLOW	Sands Gas From
			Reading	Liquid Used	Lbs.	
6-14-39	P.M.	1 1/2"	40/10	Water	74.4	30 Feet.
Time Blown						

#### 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.	Hrs.	Rock
6-14	5 3/16"	2	4	6	8	10	12	14	16	18	19	39	47	16	
	" Tubing														

OIL: From \_\_\_\_\_ Sand. Plugged off to 2030' and shut in on 5 3/16" casing.  
 Estimated Production \_\_\_\_\_ Bbl. per Day \_\_\_\_\_  
 Remarks: \_\_\_\_\_

*S. E. McDowell*  
 District Superintendent  
 09/03/2014

# HOPE NATURAL GAS COMPANY.

*use*

## LOCATION FOR WELL No. 2086

HOPE NATURAL GAS CO.

LOCATION FOR WELL



DISTRICT

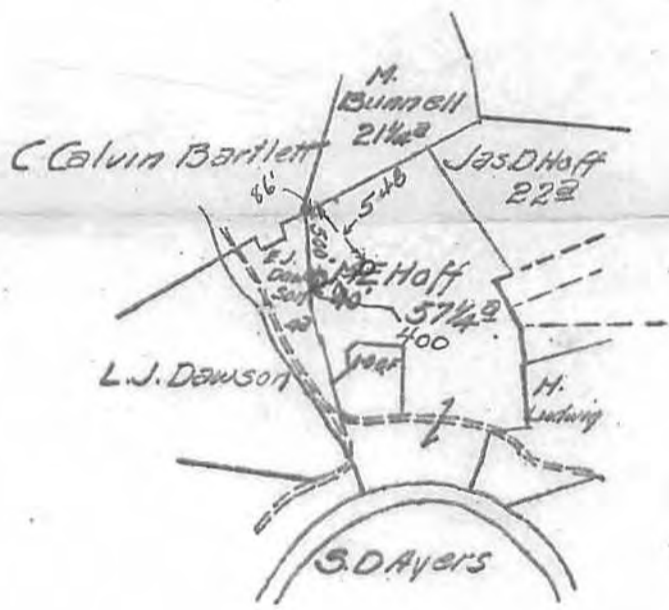
Farm, on waters of *West Fork River*  
District *Harrison* County, West Virginia.

Lease No. *5243* Acres *30* N. *18* E. *11* W

Scale, one inch equals *80 Poles* Sent to *M. J. C. 11-19-1910*

Location to be *500 feet from M. Bunnell farm line and 40 feet from E. J. Dawson farm line*

*55*  
*56*



### Received

AUG 7 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

RESERVE *None*

SPECIAL INSTRUCTIONS

09/05/2014

*Do not start this well unless West goes ahead with this well on 4th day of July 1912*  
Location made *11-28-10* by *J. M. Alden* as per plat, except as noted. On field map...

*4-19-12* Returned to Pittsburgh *4-19-12*  
*11-29-10*

Location changed on account of *Instructions from Pittsburgh*

Authorized by *J. O. Carver* Date *4-15-12* Signed by *M. A. Brodley*

WW-4A  
Revised 6-07

1) Date: 8/6/14  
2) Operator's Well Number  
7010  
3) API Well No.: 47 - 033 - 01322

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Samuel Stephen Stark</u> ✓	Name <u>None of Declaration</u>
Address <u>RR 5 Box 584</u>	Address _____
<u>Clarksburg, WV 26301</u>	_____
(b) Name <u>Robin Ann Stark</u> ✓	(b) Coal Owner(s) with Declaration
Address <u>RR 5 Box 584</u>	Name <u>Samuel Stephen Stark</u> ✓
<u>Clarksburg, WV 26301</u>	Address <u>RR 5 Box 584</u>
(c) Name _____	<u>Clarksburg, WV 26301</u>
Address _____	Name <u>Robin Ann Stark</u> ✓
	Address <u>RR 5 Box 584</u>
	<u>Clarksburg, WV 26301</u>
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 2327</u>	Name <u>None of Declaration</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-389-7583</u>	_____

**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: Matt Imrich *[Signature]*  
 Its: Designated Agent - District Operations Superintendent, WV Gas Operations  
 Address P.O. Box 1248  
Jane Lew, WV 26378  
 Telephone 304-884-2009 - Amanda Wright, Permitting Supervisor

Subscribed and sworn before me this 6<sup>TH</sup> day of AUGUST 2014  
*[Signature]* Notary Public  
 My Commission Expires 9/15/2021

**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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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Office of Oil and Gas  
WV Dept. of Environmental Protection  
09/05/2014



7013 1090 0001 6080 0475

U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
OFFICIAL USE	
Postage	\$ 245
Certified Fee	330
Return Receipt Fee (Endorsement Required)	276
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 8.45
Robin Ann Stark	
Sent To	RR 5 Box 584 ✓
Street, Apt. No., or PO Box No.	Clarksburg, WV 26301
City, State, ZIP+4	P&A Well #7010 Surface & Coal Owner



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Office of Oil and Gas  
WV Dept. of Environmental Protection

7013 1090 0001 6060 0468

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Postage	\$ 245
Certified Fee	330
Return Receipt Fee (Endorsement Required)	270
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 8.45



Samuel Stephen Stark  
 Sent To RR 5 Box 584  
 Street, Apt. No., or PO Box No. Clarksburg, WV 26301 ✓  
 City, State, ZIP+4 P&A Well #7010  
 Surface & Coal Owner

PS Form 3800, August 2006 See Reverse for Instructions

Received

AUG 7 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

3301322P

WW-9  
Rev. 5/08

Page 1 of 2  
API Number 47 - 033 - 01322  
Operator's Well No. 7010

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

Operator Name CNX Gas Company LLC OP Code 494458046

Watershed West Fork River Quadrangle West Milford

Elevation 1111.00' County Harrison District Union

Description of anticipated Pit Waste: Fluids associated with the plugging of existing gas wells

Will a synthetic liner be used in the pit? \_\_\_\_\_

*ALL WELL EFFLUENT MUST BE CONTAINED IN STEEL TANKS OR A LINED PIT AND IT MUST BE DISPOSED OF PROPERLY*  
*SDW 7/31/14*  
*gwm*

Proposed Disposal Method For Treated Pit Wastes:

- \_\_\_\_\_ 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 use vacuum trucks, and properly disposes fluid and waste returns )

Proposed Work For Which Pit Will Be Used:

- \_\_\_\_\_ Drilling
- \_\_\_\_\_ Workover
- \_\_\_\_\_ Other ( Explain \_\_\_\_\_ )
- \_\_\_\_\_ Swabbing
- Plugging

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 *Matt Imrich*

Company Official (Typed Name) Matt Imrich

Company Official Title Designated Agent - District Operations Superintendent, WV Gas Operations

Received

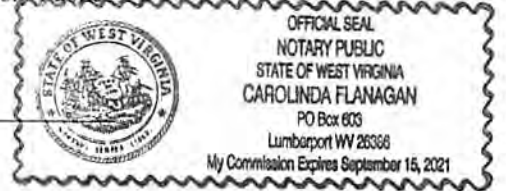
AUG 7 2014

Subscribed and sworn before me this 6<sup>TH</sup> day of AUGUST, 2014

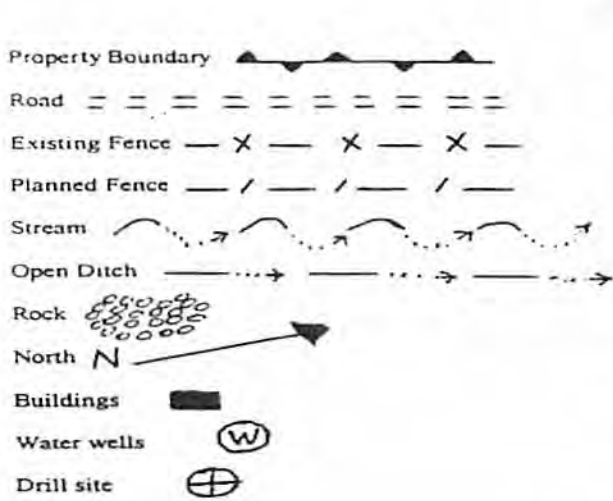
*Carolinda Flanagan*

Notary Public

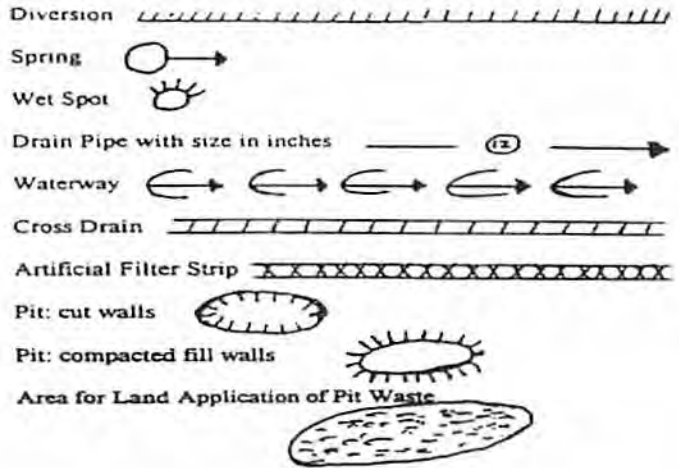
My commission expires 9/15/2021



09/05/2014



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 0.75 acres Prevegetation pH 6.5  
 Lime according to pH test Tons/acre or to correct to pH 7.0  
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)  
 Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

Area I		Area II	
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.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: S. J. O'Warren

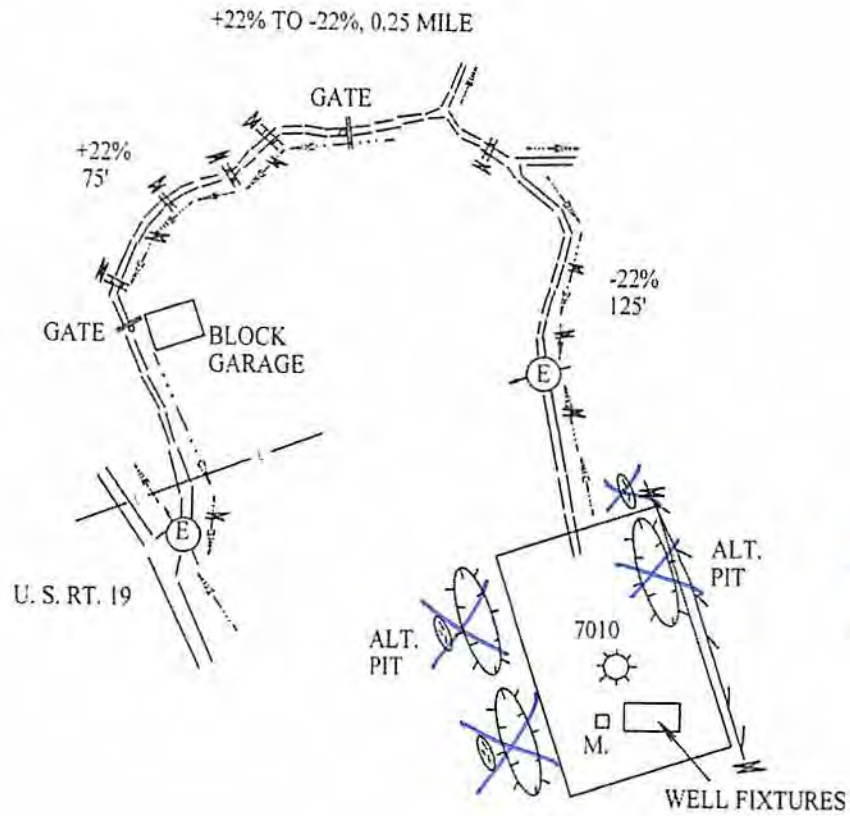
Comments: Seed & mulch all disturbed areas as soon as reasonably possible. Add ETS as necessary.

Received

Title: Oil Gas Inspector Date: 7/31/14

AUG 7 2014

Field Reviewed? ( ) Yes ( X ) No



NO PITS  
OR LAND  
APPLICATION

SDW  
7/31/14

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

Received

AUG 7 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

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

DRAWINGS TO ACCOMPANY FORM WW-9	
CNX GAS COMPANY LLC	
P. O. BOX 1248	
JANE LEW, WV 26378	
WATERSHED:	WEST FORK RIVER
DISTRICT:	UNION COUNTY: HARRISON
QUADRANGLE:	WEST MILFORD WELL NO.: 7010
DATE:	07/21/14 PAGE ___ of ___

## LAND SURVEYING SERVICES

Stephen D. Losh, PS J. Michael Evans, PS 21 Cedar Lane Bridgeport, WV 26330  
Phone & Fax (304) 842-2018 or 842-5762 [sdlosh@frontier.com](mailto:sdlosh@frontier.com)

July 21, 2014

### DRIVING DIRECTIONS FOR 7010

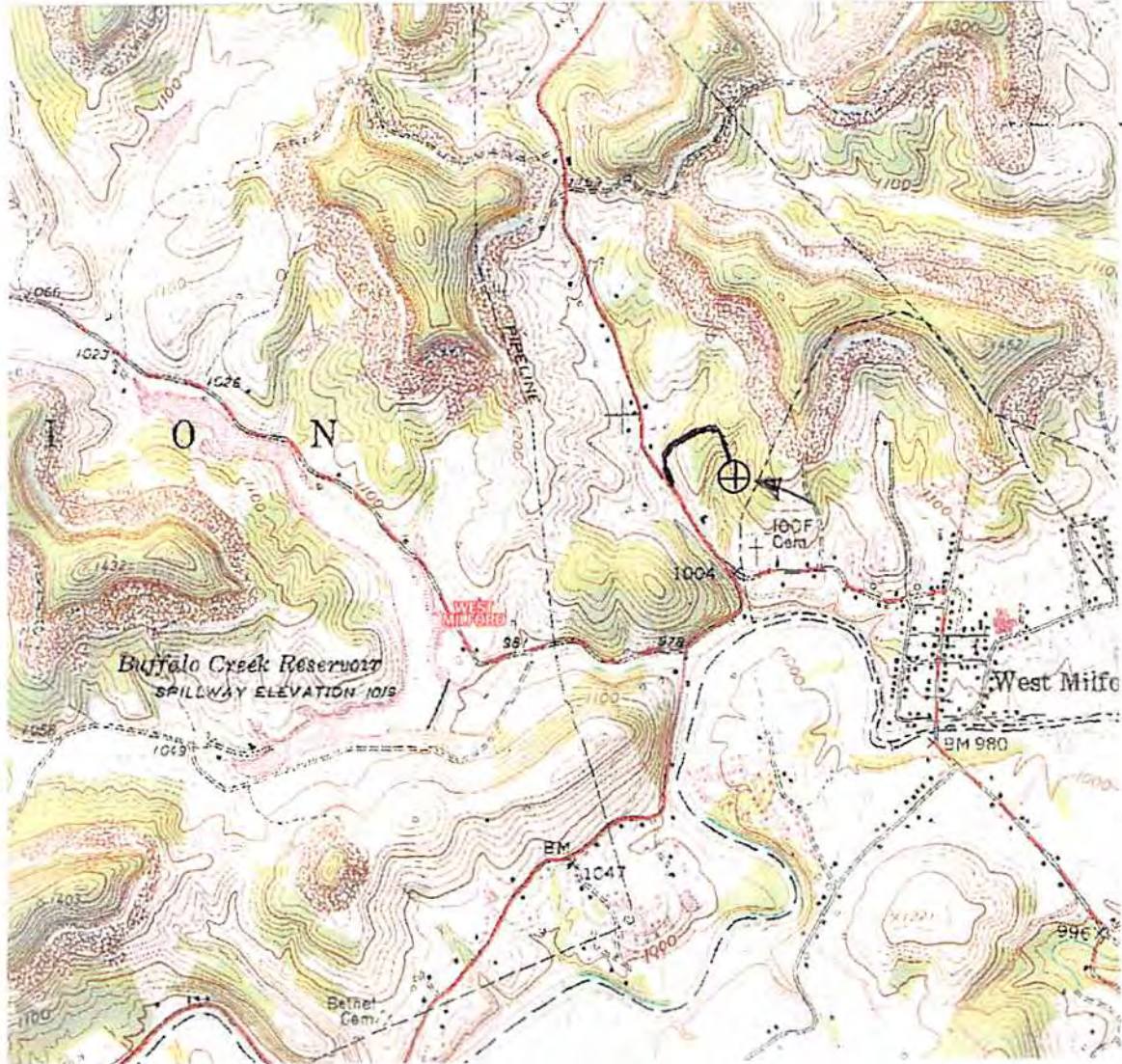
From the junction of State Route 270 and U. S. Route 19 at West Milford, proceed north on U. S. Route 19 for 0.20 mile and turn right on the well road.

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AUG 7 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

09/05/2014



SDW  
7/31/14

Received

AUG 7 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

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

DRAWINGS TO ACCOMPANY FORM WW-9	
CNX GAS COMPANY LLC	
P. O. BOX 1248	
JANE LEW, WV 26378	
WATERSHED:	WEST FORK RIVER
DISTRICT:	UNION COUNTY: HARRISON
QUADRANGLE:	WEST MILFORD WELL NO.: 7010
DATE:	07/21/14 PAGE ___ of ___

WW-7  
5-02



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

API: 47-033-01322 WELL NO.: 7010  
FARM NAME: H. W. WILLIAMS  
RESPONSIBLE PARTY NAME: CNX GAS COMPANY LLC  
COUNTY: HARRISON DISTRICT: UNION  
QUADRANGLE: WEST MILFORD 7.5 MIN.  
SURFACE OWNER: SAMUEL STARK, ET. AL.  
ROYALTY OWNER: SAMUEL STARK, ET. AL.  
UTM GPS NORTHING: 4,339,857.64 METERS  
UTM GPS EASTING: 550,754.57 METERS GPS ELEVATION: 338.64 METERS 1111.00 FT

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- 1. Datum: NAD 1983, Zone: 17 Coordinate Units: meters Altitude: Height above mean sea level (MSL) - meters
- 2. Accuracy to Datum - 3.05 meters
- 3. Data Collection Method: Survey Grade GPS  : Post Processed Differential  Real-Time Differential   
Mapping Grade GPS  : Post Processed Differential  Real-Time Differential

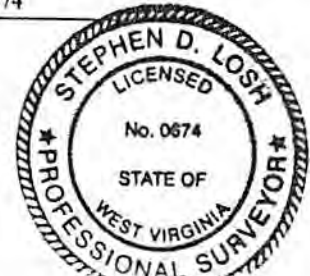
I the undersigned hereby state this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulation issued and prescribed by the Office of Oil and Gas.

Signature [Handwritten Signature]  
Stephen D. Losh, PS #674

Title Received WV Professional Surveyor #674

Date 07/21/14

AUG 7 2014



Office of Oil and Gas  
CNX USE: NAD 27 WV NORTH SPC: 7010 = 258,603.16' W, 1,741,468.20' N, ELEV: = 1111.00'

09/05/2014



3301322P



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



August 6, 2014

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

**RE: Well to be Plug and Abandoned: 7010**

To Whom it May Concern,

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

- 7010 – API #47-033-01322

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

Sincerely,



Carolinda Flanagan

Received

AUG 7 2014

Office of Oil and Gas  
WV Dept. of Environmental Protection

09/05/2014