

United Fuel Gas Co. Geological Survey
Shot Hole Nº117. A Metal Tag Stamped
Nº 117 With An Arrow Pointing To The
Shot Hole Bears Due East About 75' From
Shot Hole. Said Metal Tag Is Located Approx. 700' 5. E.
Along W. Va. Sec. Rt. 1/2 From The Junction Of Routes
1/3 & 1/2 & 2/6. Elev. 1664.00' Degree Of Accuracy : One Part In 200' ] Stone Pile & Pointers 3 W.O. In Fence . C.O. In Fence CornerLowerSide Of load 9303 Set Stone REVISED 4-17-64 I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 6 of the rules and regulations of New Location ... the oil and gas section of the Drill Deeper ...... Abandonment..... Company UNITED FUEL GAS CO. Address CHARLESTON, W.VA. Form JASPER T. COMBS ET. AL. \_\_ Acres <u>235</u> Lease No. <u>586/8</u> \_Serial No. 9303 Well (Farm) No.\_\_\_\_ Quadrangle NOOREFIELD -- Denotes location of well on United States County HAROY Topographic Maps, scale 1 to 62,500, lat-Engineer office A itude and longitude lines being represented by border lines as shown. Engineer's Asgistration No. <u>2529</u> File No. 2/2 -/05 Drawing No. Denotes one inch spaces on border line of original tracing. TO THE PROPERTY OF 320

Samples 7.2

BENCH MARK DESCRIPTION

DeepWell

Well No.

Drilling completed\_\_\_

Date Shot\_\_\_\_

Volume 16.200M

Rock Pressure 2310#

WELL FRACTURED\_\_\_\_

With\_\_\_

Oil\_\_\_



## STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION 7

Moorefield. Quadrangle \_

Company United Fuel Gas Company

Location (waters) Camp Branch 9303

Address P. O. Box 1273 - Charleston, W. Va. Farm Jasper T. Combs. Et Al Acres 541

The surface of tract is owned in fee by Jasper T. Combs

7-4-64

WELL ACIDIZED 7-5-64 - with 40,000 gal.

Mineral rights are owned by Same as above

\_/10ths Merc. in\_\_\_\_

Address Needmore, W. Va.

\_\_Address\_\_

\_\_From\_\_\_\_\_To\_\_\_

\_\_\_lbs.\_\_\_

\_County\_\_\_Hardy

Permit No\_\_\_ <u> Hardy 1</u>2

District Scyla FORK

Drilling commenced 4-26-64

Open Flow /10ths Water in\_\_\_\_\_

## WELL RE

AA ETT	RECORD		Oil or	Gas Well Gas
y eston, W. Va. Acres_541	Casing and Tubing	Used in Drilling	Left in Well	Packers
Elev. 1841.12 Hardy	Size 1 <b>XX 20"</b> 13-3/8	37° 220	37°	Kind of Packer
per T. Combs edmore, W. Va.	1 <b>3 9-5/8</b> 8¼	2000	2000	Size of
lbove	5 3/16	6262	6262	Depth set
	32			Perf. top Perf. bottom
ToInch	Liners Used			Perf. bottom
Inch Cu. Ft.	CASING CEME	NTED	SIZE	No. FtDate
hrs. bbls., 1st 24 hrs. 40,000 gal.	COAL WAS EN			FEETINCHES
t. N <sub>2</sub>	FEET_	INCH	ES	FEETINCHES

RESUI	T	AFTER	T	REATM	ENT	27.	. 04	<u>7</u> ≥	<u> </u>	
ROCK	PR	ESSUE	F .	ם שיתים	מים מים	יא או או איז איז איז איז איז איז איז איז איז א		2	21	

15% HCL - and 273 M St. Cu. Ft. N<sub>2</sub>

Fresh WaterFeet				Salt WaterFeet						
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks			
Sand & Shale			0	4725	Fresh W Hole wet 1-bbl/hr	ater 105° 225°	:			
Grey Shale Marcellus	Sh.	·	4725 5715	5715 6155	Hole full	1100'				
Metabenton Needmore S	Sh.	at	6155	6155 6252	Top Onondag	a				
Oriskany &	A D A		6252 6295	6295 6315	Gas 6270 - Gas inc. fr	516M om 6273 - 62	78			
Oriskany 8 Helderberg			6315	6477 6498	Gas inc. at	6236				
	T.D.		6498	1/46)						
			C.							
		6155	6252	6477	ET 18 19 211 71	323				
		4314	4417	4636	RECTIVE OF MINE	2000				
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Formation	Color	Hard or	pros Ay		Oil, Gas		
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					Portegio		
0 - 1			British Control of the Control of th	× · · ·			- Marie - Mari
Casing:		Constitution of the Consti					The state of the s
	20" set a	= 37°		l to surface			
	13-3/8 se 9-5/8 set	at 220°		to surface to surface			
	7" set at	6262		i with 200 s			
•			Silver market of the silver of				
Stimulat	ion:		PORTE INTERNAL INTERN				
٠	Well acid	lzed 7-5-64	with 40,000 c	al 15% Nc1	and 273M S*	C., E	
	1 (		1 1		ł .	1	
	ane	cleaned up	eakdown acid before 40,00	spotted on O gal treat	pottom and want	ell brought	to life
	Test befor		16.200M		ing Suntana sa pi		
	Test after	acid	27.047M				
	Rock Press	ure	2310#				
		1 S. C.					
Logging -	Schlumber	ger - 7-5-6	1.134				
	Gamma Ray		and control of the co				
	Sonic Ampl	itude	Section of the Control of the Contro			Hart St.	
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APPROVED Metel fuel to Com

By Homeffered Supr

DATE: <u>2/27/07</u> API#: <u>47-031-00012</u>

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

## Well Operator's Report of Well Work

Farm name: Roland & Nancy Combs	Op	Operator Well No.: 9303					
LOCATION: Elevation: 1835 ft	Qu:	Quadrangle: Needmore					
District: Lost River  Latitude: 2,614 Feet South of Longitude 8,828 Feet West of	39 Deg. <u>0</u>	g. <u>02</u> Min. <u>30</u> Sec.					
Company: Columbia Gas Transmission Corp	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.			
Address: 1700 MacCorkle Ave SE	Tubing	- unuing		Tup Out I i			
Charleston, WV 25325-1273	This is an e	xisting production	n well that was c	onverted to a			
Agent: Paul Amick		storage well – no			٠		
Inspector: Bill Hatfield / Craig Duckworth		pulled and re-ran					
Date Permit Issued: 12/16/05							
Date Well Work Commenced: 7/14/06	<u> </u>						
Date Well Work Completed: 10/20/06	1			<del> </del>			
Verbal Plugging:	<del> </del>						
Date Permission granted on: not applicable							
Rotary X Cable Rig							
Total Depth (feet): not applicable							
Fresh Water Depth (ft.): not applicable	1						
Tresh Water Depair (183). Not applicable							
Salt Water Depth (ft.): not applicable							
Dait Water Depth (11.). not approach	1						
Is coal being mined in area (N/Y)? no							
Coal Depths (ft.): ft							
Cour Depend (11.).	ı	1	l	i e			
OPEN FLOW DATA							
Producing formation Oriskany Sand	Pay zone	lepth (ft) 631:	<u> 5 – 6477                                   </u>				
Gas: Initial open flow <u>not applicable</u>	MCF/d Oi	l: Initial open fl	ow <u>not applie</u>	cable Bbl/d			
Final open flow 13,000 MCF/6	d Final o	en flow 0	Bbl/d				
Time of open flow between initial and	final tests _	not applicable	Hours		No.		
Static rock Pressure 1300	_ psig (surfa	ice pressure) aft	ter <u>72+</u>	Hours	I.		
		-			X		
Second Producing formation <u>not applica</u>	ible Pa	y zone depth (f	t) not applica	ble	0		
Gas: Initial open flow MCF/	d Oil: Initial	open flow		Bbl/d	0		
Final open flow MCF/	d Final o	oen flow	Bbl/d		P		
Time of open flow between initial and					D l		
Static rock Pressure psig (s	surface press	sure) after	Hours	FECENVE Office of Oil &	iniei		
	•			A Olivo			
				TED MAR - 2	2007		
NOTE: ON BACK OF THIS FORM PUT THE	FOLLOWIN	G: 1). DETAILS	OF PERFORA	red MAR -	-		
INTERVALS, FRACTURING OR STIMULATI	NG, PHYSIC	CAL CHANGE,	ETC. 2). THE W	TIONS W Depar	tment of		
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Signed:  By: James E. Amos – Senior Storage Engineer – Columbia Gas Transmission Corp							
	Storage Engi	neer – Columbia	Gas Transmissio	n Corp			
Date: / 2/27/07	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		•				

APR 2 7 2007

This is an existing production well that was converted to a natural gas storage well. Below is a summary of work performed.

- 1) Well was killed, tubing pulled, logged, tubing re-ran, and new API wellhead installed.
- 2) Baker Atlas' GR-Neutron-CCL, Segmented Bond Log, and MicroVertilog.
- \* Note that no earthen pit was utilized. Flowback treatment fluids recovered via steel tanks and transported to LAD in Wheeling, WV for disposal/processing.