

NOTE:  
No houses or water wells  
are within 200'.

LATITUDE 39°02'30"

2.294'

LONGITUDE 78°50'00"

Vivian Combs  
WB 21 Pg. 220  
Tax Map 347 P 5

Surface Owner  
James and Virginia Rupert (Life)  
DB 245 Pg. 42  
Tax Map 347 P 4

Existing Location  
Well No. 9301 (031-00009)

Lease  
C.P. Wilkins et al  
Lease No. 56330  
131 Acres

Vivian Combs  
WB 21 Pg. 220  
Tax Map 347 P 9

NORTH

NOTE:  
This map is for well location  
only and does not represent  
a complete property survey.

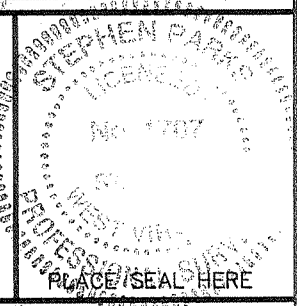
All wells within 1200' are as shown

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

Coordinates Well No. 9301  
WV-N Nad83 U.S. Feet  
N 187,854.46  
E 2,155,711.15

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 400'  
MINIMUM DEGREE OF  
ACCURACY 1 in 200  
PROVEN SOURCE OF  
ELEVATION \_\_\_\_\_  
GPS CP No. 25 Elevation 2043.39'

I THE UNDERSIGNED, HEREBY CERTIFY THAT  
THIS PLAT IS CORRECT TO THE BEST OF MY  
KNOWLEDGE AND BELIEF AND SHOWS ALL THE  
INFORMATION REQUIRED BY LAW AND THE  
REGULATIONS ISSUED AND PRESCRIBED BY  
THE DIVISION OF ENVIRONMENTAL PROTECTION  
(SIGNED) Stephen Parks  
R.P.E. 8982 L.L.S. 1707



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



DATE Sept. 24 2004  
OPERATOR'S WELL NO. 9301  
API WELL NO.

47 - 031 - 00009 F  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION \_\_\_ STORAGE X DEEP \_\_\_ SHALLOW \_\_\_  
LOCATION: ELEVATION 2042.88' WATER SHED Tid Row Run of Kimsey Run  
DISTRICT Lost River COUNTY Hardy  
QUADRANGLE Needmore

SURFACE OWNER James and Virginia Rupert (Life) ACREAGE 85  
OIL & GAS ROYALTY OWNER C.P. Wilkins et al LEASE ACREAGE 131  
LEASE NO. 56330

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Storage Recondition

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION \_\_\_ ESTIMATED DEPTH \_\_\_  
WELL OPERATOR Columbia Gas Transmission Corp. DESIGNATED AGENT Paul Arnick  
ADDRESS P.O. Box 1273 ADDRESS P.O. Box 1273  
Charleston, WV 25325-1273 Charleston, WV 25325-1273

MAR 17 2006

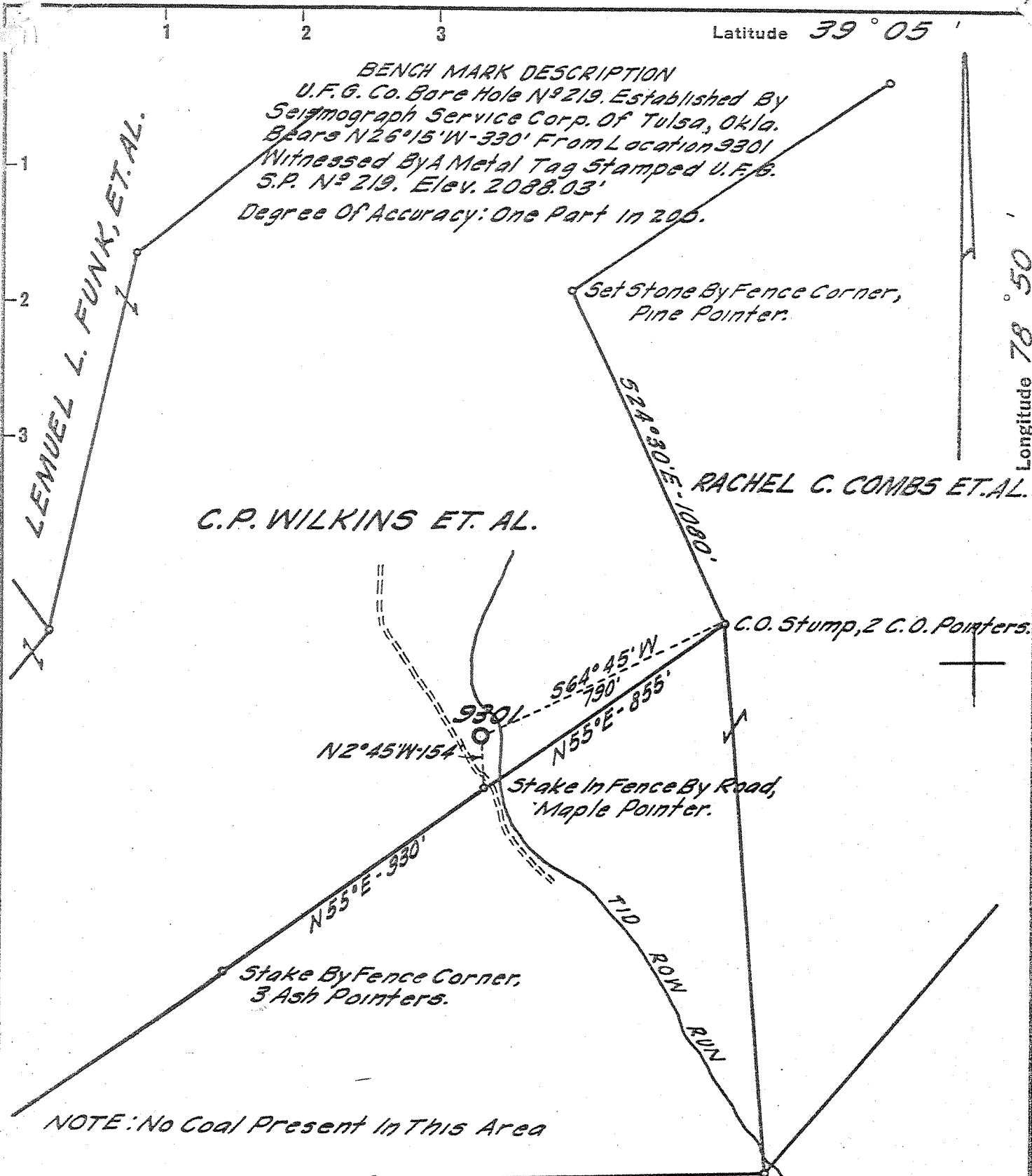
FORM WW-6

COUNTY NAME PERMIT  
HARDY 0009 F

Latitude 39° 05'

BENCH MARK DESCRIPTION  
U.F.G. Co. Bore Hole N° 219. Established By  
Seismograph Service Corp. Of Tulsa, Okla.  
Bears N26°15'W-330' From Location 9301  
Witnessed By A Metal Tag Stamped U.F.G.  
S.P. N° 219. Elev. 2088.03'  
Degree Of Accuracy: One Part In 200.

Longitude 78° 50'



NOTE: No Coal Present In This Area

4.78 S.  
0.42 W

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 the oil and gas section of the mining laws of West Virginia.

8 SE (G-16)

*Sybert R. Ferrell*

Company	UNITED FUEL GAS CO.		
Address	CHARLESTON, W. VA.		
Farm	C. P. WILKINS, ET. AL.		
Tract	Acres	131	Lease No. 56330
Well (Farm) No.	Serial No. 9301		
Elevation (Trig. )	2054.86'		
Quadrangle	MOREFIELD - SC		
County	HARDY	District	<del>LOST RIVER</del> SOUTH FORK
Engineer	<i>Sybert R. Ferrell</i>		
Engineer's Registration No.	2529		
File No.	212-105	Drawing No.	
Date	9-17-63	Scale	1" = 400'

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
CHARLESTON

WELL LOCATION MAP  
FILE NO. HARDY-9

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

46 Samples not received yet 6-6-328 Deep Well



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Morefield

Permit No. HARDY-9

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Company United Fuel Gas Company  
Address P. O. Box 1273 Charleston, W. Va. 25325  
Farm C. P. WILKINS, ET AL Acres 506 Marger  
Location (waters) Tid Row Run  
Well No. 9301 Elev. 2054.86'  
District SOUTH FORK County Hardy  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by C. P. Wilkins, et al  
Address Needmore, W. Va.

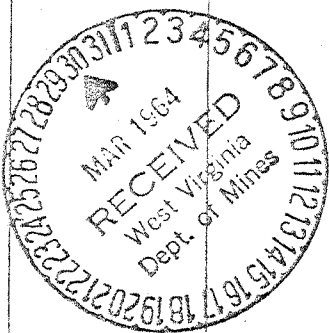
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
<del>20"</del>	38' Cemented	15 sacks	Kind of Packer
13 3/8	339'	"	325 "
10			Size of
8 1/2	9-5/8 2187'	"	725 "
<del>7"</del>	6761'	"	<del>63</del> 250 sacks
5 3/16			Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

Drilling commenced 9-27-63  
Drilling completed 11-22-63  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume 1,500 M - Oriskany Cu. Ft.  
Rock Pressure 2310 lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED \_\_\_\_\_  
WELL FRACTURED \_\_\_\_\_

CASING CEMENTED	SIZE	No. Ft.	Date
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
_____ FEET	_____ INCHES	_____ FEET	_____ INCHES
_____ FEET	_____ INCHES	_____ FEET	_____ INCHES

RESULT AFTER TREATMENT  
ROCK PRESSURE AFTER TREATMENT  
Fresh Water 35 69 Feet 150 505 Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand - Shale			0	4750			
Shale			4750	5800			
Marcellus Shale			5800 ?	6660			
Metablonite			6660				
Needmore Shale			6660	6756	Gas at 6900', 200 M		
Oriskany Sand			6756	7005			
Zelderberg Lime			7005	7020			
Total Depth			7020'				
			(495)				
			6660				
			2055				
			4605				
			6756	7005			
			2055	2055			
			4701	4950			



Shut in 12-3-63 in 7" casing  
LOGS RUN:  
Gamma Ray 0-7020  
Density 6750-7020  
Induction 6750-7020  
Temperature 6750-7020

WR-35  
Rev (5-01)

DATE: 5/3/07  
API #: 47-031-00009 W

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

Well Operator's Report of Well Work

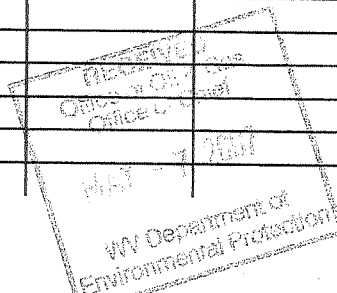
Farm name: James & Virginia Rupert Operator Well No.: 9301

LOCATION: Elevation: 2043 ft Quadrangle: Needmore

District: Lost River County: Hardy  
Latitude: 10,163 Feet South of 39 Deg. 02 Min. 30 Sec.  
Longitude 2,294 Feet West of 78 Deg. 50 Min. 00 Sec.

Company: Columbia Gas Transmission Corp

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 1700 MacCorkle Ave SE Charleston, WV 25325-1273				
Agent: Paul Amick	This is an existing production well that was converted to a natural gas storage well - no casing was pulled or ran - tubing was pulled and re-ran			
Inspector: Bill Hatfield / Craig Duckworth				
Date Permit Issued: 3/13/06				
Date Well Work Commenced: 7/20/06				
Date Well Work Completed: 5/1/07				
Verbal Plugging:				
Date Permission granted on: not applicable				
Rotary X Cable Rig				
Total Depth (feet): 7020 ft				
Fresh Water Depth (ft.): not applicable				
Salt Water Depth (ft.): not applicable				
Is coal being mined in area (N/Y)? no				
Coal Depths (ft.): _____ ft				



OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 6756 - 7005  
Gas: Initial open flow not applicable MCF/d Oil: Initial open flow not applicable Bbl/d  
Final open flow 2000 MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests not applicable Hours  
Static rock Pressure 1200 psig (surface pressure) after 72+ Hours

Second Producing formation not applicable Pay zone depth (ft) not applicable  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

JUN 22 2007

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: James E. Amos  
By: James E. Amos - Senior Storage Engineer - Columbia Gas Transmission Corp  
Date: 5/3/07

HARVY 0009N

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, new API wellhead installed, and acid stimulation.
- 2) Baker Atlas' GR-Neutron-CCL, Segmented Bond Log, and MicroVertilog.  
Schlumberger GR-Density-CNL-Lateralog and FMI.

\* Note that no earthen pit was utilized. Flowback treatment fluids recovered via steel tanks and transported to LAD in Wheeling, WV for disposal/processing.

JUN 22 2007

JUN 22 2007