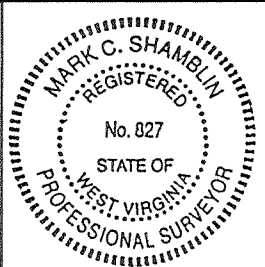


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No 96X208  
 DRAWING No. W-7107  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 : 200  
 PROVEN SOURCE OF ELEVATION EXISTING WELL

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 DEPARTMENT OF MINES

(SIGNED) Mark C. Shumlin



DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL & GAS  
 #10 McJUNKIN ROAD  
 NITRO, WEST VIRGINIA 25143-2506



DATE NOVEMBER 19, 19 96  
 OPERATOR'S WELL No. W-7107  
 API WELL No. 47

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  STATE 47 COUNTY 039 PERMIT 01536-0  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 724 WATER SHED BLUE CREEK  
 DISTRICT ELK COUNTY KANAWHA  
 QUADRANGLE BLUE CREEK, 7.5' COORDINATES Lat: 38°-24'-15" Long: 81°-25'-25"

SURFACE OWNER JULIA ANDERSON ACREAGE 37 AC  
 OIL & GAS ROYALTY OWNER UNITED FUEL GAS CO. MINERAL LEASE ACREAGE 30AC  
 LEASE No. 14476

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  
drill existing storage well 100' deep.

PLUG AND ABANDON  CLEAN OUT AND REPLUG  ESTIMATED DEPTH 5125'

TARGET FORMATION Oriskany DESIGNATED AGENT RICHARD L. COTY  
 WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP. ADDRESS P.O. BOX 1723 CHARLESTON, WV 25325

FORM IV-6 (8-78)

JAN 21 1997



DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL RECORD

Permit No. KAN-1536

Oil or Gas Well Gas  
(KIND)

Company United Fuel Gas Co.  
Address P. O. Box 1273, Charleston 25, W. Va.  
Farm United Fuel Gas Co. Acres 30  
Location (waters) Blue Creek  
Well No. X-52A-7107 Elev. 724  
District Elk County Kanawha  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by United Fuel Gas Co.  
P. O. Box 1273, Address Chas. 25, W. Va.  
Drilling commenced 7-1-50  
Drilling completed 10-23-50  
Date Shot Not Shot From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow 120 10ths Water in 7" (22#) Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume 4,926 M - Oriskany Cu. Ft.  
Rock Pressure 765 lbs. 48 hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
Salt water 574, 675 feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	47'	47'	Kind of Packer
18 3/8"	330'	330'	
10	1124'	1124'	Size of
8 1/2"	1350'	1350'	
6 3/4"	4904'	4904'	Depth set
5 3/16			
8			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

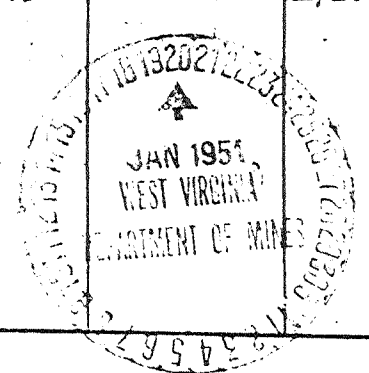
CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_

COAL WAS ENCOUNTERED AT 16 FEET 36 INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	16			
Coal			16	19			
Sand			19	59			
Slate			59	100			
Sand			100	180			
Slate			180	285			
Sand			285	360			
Slate			360	405			
Sand			405	421			
Slate			421	429			
Sand			429	490			
Slate			490	530			
Sand			530	1102	Oil	574'	Show
Slate			1102	1115	Water	675'	Hole full
Red Rock			1115	1120			
Lime Shell			1120	1129			
Slate			1129	1134			
Red Rock			1134	1143			
Slate & Shells			1143	1165			
Lime			1165	1175			
Slate & Shells			1175	1220			
Maxon Sand			1220	1252			
Lime Shells			1252	1295			
Little Lime			1295	1325			
Pencil Cave			1325	1330			
Big Lime			1330	1440	B.Lime Gas	1345'	Show
Injun Sand			1440	1483	B.Lime Gas	1435-1440'	Show
Lime			1483	1502	Weir Gas	1502'	36/10 W 2"
Weir Sand			1502	1700	253M blew down to		21/10 Merc. 1"
Slate & Shells			1700	3075			178 M
Brown Shale			3075	3110			
Slate & Shells			3110	3500			
Brown Shale			3500	3530			
Slate & Shells			3530	3770			
Brown Shale			3770	3890			
White Slate			3890	4390			
Brown Shale			4390	4747			
White Slate			4747	4795			



(Over)

DEEP WELL

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Brown Shale			4795	4891			
Corniferous	Lime		4891	5004	Oriskany Gas	5009-5019'	4,726 M
Oriskany			5004				
Total Depth			5019'		NOT SHOT		
					FINAL OPEN FLOW - 4,726 M - Oriskany		
					48 Hr. R.P. 765#		
					Shut in 10-23-50 in 7" casing.		

Date January 19,

APPROVED

United Fuel Gas Co.

By

J. D. Moore  
Chief Engineer (Title)

R.

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WELL WORK PERMIT APPLICATION

- 1) Well Operator: Columbia Gas Transmission Corp. <sup>10450</sup> (4) 258
- 2) Operator's Well Number: 7107 3) Elevation: 724
- 4) Well type: (a) Oil      / or Gas X /   
 (b) If Gas: Production      / Underground Storage X /   
 Deep X / Shallow      /
- Issued: 01/13/97  
 Expires 01/13/99
- Proposed Target Formation(s): Oriskany Sandstone <sup>475</sup>
- Proposed Total Depth: 5125 feet
- Approximate fresh water strata depths: 675' (no distinction between fresh or salt water)
- Approximate salt water depths: N/A
- Approximate coal seam depths: 16' - 19'
- 10) Does land contain coal seams tributary to active mine? Yes      / No X /
- 11) Proposed Well Work: Install API 3000 wellhead. Drill well 100' deeper. Log. Stimulate Oriskany. Install tubing if needed.
- 12)

RECEIVED  
 Environmental Protection  
 W.V. Division of  
 DEC 27 1996  
 Office of Oil and Gas  
 Permitting

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	16"		42	36'	36'	
Fresh Water	13 3/8"		48	330'	330'	327
Coal	10 3/4"			1124'	-0-	
Intermediate	8 5/8"		28	1350'	1350'	1350
Production	7"		23	4904'	4904'	245 sks
Tubing	2 3/8"		4.6	-	-	
Liners		C.H. 10-22-96				3800 18-11.1

PACKERS : Kind       
 Sizes       
 Depths set     

For Office of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP

Plat  WW-9  WW-2B  Bond Blanket  Agent

(Type)

23043

00171760  
 92

File Copy

RECEIVED  
West Virginia  
Division of  
Environmental Protection

DEC 27 1996

- 1) Date: 10/29/96
- 2) Operator's well number  
COCO- WELL # 7107
- 3) API Well No: 47 - 039 - 01536 -DD  
State - County - Permit

Permit  
STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
  - a) Name Julia Anderson, Heirs  
Address %Dora P. Blankenship  
Big Creek Gauley, Gauley Bridge, WV 25085
  - b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Carlos W. Hiviely  
Address 223 Pinch Ridge Road  
Elkview, WV 25071  
Telephone (304) - 965-6069

- 5) (a) Coal Operator:
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (b) Coal Owner (s) with Declaration  
Name State of West Virginia  
Address \_\_\_\_\_
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

     Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

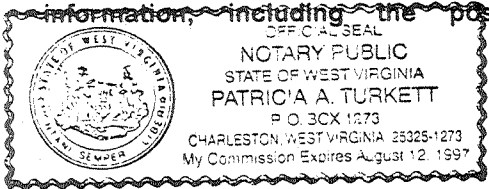
*Copy of lease in Kan City Office*

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through      on the above named parties, by:

- Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment.



Well Operator COLUMBIA GAS TRANSMISSION CORP.  
By: [Signature]  
Its: Storage Engineer / Well Services  
Address P. O. Box 1808  
St. Albans, WV 25177-1808  
Telephone (304) 722-8612

Subscribed and sworn before me this 4th day of November, 19 96  
Patricia A. Turkett Notary Public  
My commission expires August 12, 1997

RECEIVED

WR-35 Environment Protection

JAN 2 1997

07-Jan-97  
API # 47- 39-01536 D

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Permitting  
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: ANDERSON, JULIA HEIRS Operator Well No.: 7107

LOCATION: Elevation: 724.00 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA  
Latitude: 4580 Feet South of 38 Deg. 25Min. 0 Sec.  
Longitude 2000 Feet West of 81 Deg. 25 Min. 0 Sec.

Company: COLUMBIA GAS TRANSMISSION  
P. O. BOX 1273  
CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY  
Permit Issued: 01/13/97  
Well work Commenced: 09-25-97  
Well work Completed: 10-18-97  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 5084'  
Fresh water depths (ft) \_\_\_\_\_  
Not Reported \_\_\_\_\_  
Salt water depths (ft) \_\_\_\_\_  
675'

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): Not Reported

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"		36'	
13 3/8"		330'	
8 5/8 "		1350'	
7"		4904'	245SX
4 1/2", 11.6 lb, N-80		5084'	75SX

OPEN FLOW DATA

Producing formation ORISKANY STORAGE Pay zone depth (ft) 4986'-5008'  
 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

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
 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

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.

For: COLUMBIA GAS TRANSMISSION CORP.

By: [Signature]  
Date: 1-15-98

JAN 23 1998

