

BENJAMIN B. BROWN III, ET AL
MINERAL

W. F. GOSHORN HEIRS, ET AL
SURFACE

DB 2253 P6 430
TM 40 PARC 1
1161 ACRES

NOTES: FB 2364 P6 13 - 16
INV MAP 424B/460
"BM" USC & GS Standard Disk
Set In Monument At
NYC R/R Overpass Over
County Road N.E. Corner
Of Trestle & 5.5' Lower Than
Tracks Stamped 231-SKS,
1956 - 652'
Elev. = 651.63'

CHARGE: Gen-Aux-Activ-Tr Cntr
163-2000-W2625-2801
Farm map # 48 SQ 72 - 61

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS (7 1/2')

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 300'
MINIMUM DEGREE OF
ACCURACY 1/200
PROVEN SOURCE OF
ELEVATION "See Note Above"

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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT OF ENERGY.
(SIGNED) *Charles Douglas Davidson*
R.P.E. _____ L.L.S. 819



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



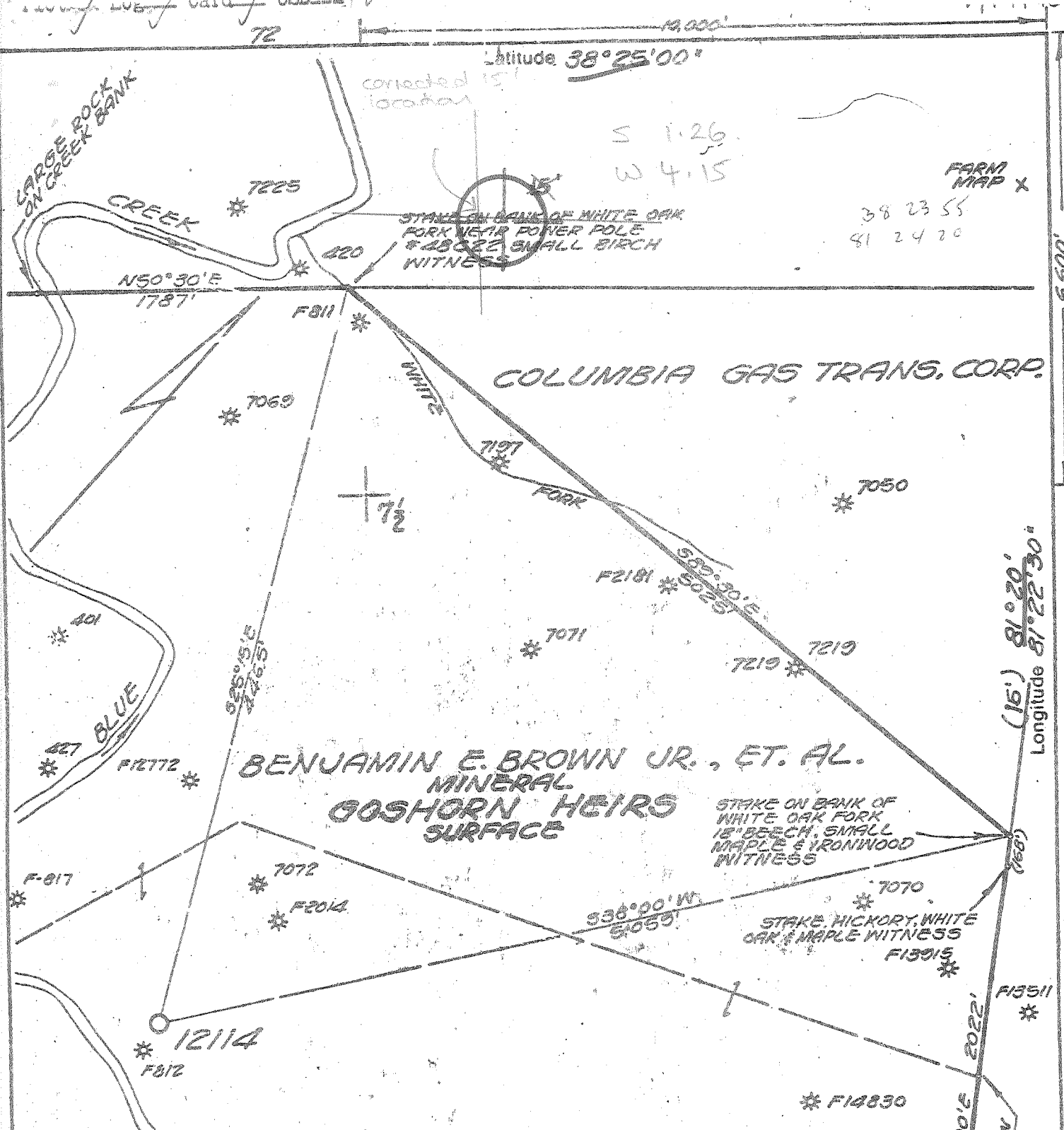
DATE July 20, 19 94
OPERATOR'S WELL NO. 12114
API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 703.14' WATER SHED Blue Creek
DISTRICT Eik COUNTY Kanawha
QUADRANGLE Blue Creek, WV COORDINATES LAT: 38°23'54" LONG: 81°24'36"
SURFACE OWNER W. F. Goshorn Heirs, Et al ACREAGE 1161
OIL & GAS ROYALTY OWNER Benjamin B. Brown III, Et al LEASE ACREAGE 787
COAL OWNER _____ LEASE NO. 48180 & 48341

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
Well drilled in 1978 TO - 5004'
PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION Oriskany ESTIMATED DEPTH 5004' Drill Depth 100'
WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT ROBERT C WEIDNER
ADDRESS PO Box 1273, Charleston, WV ADDRESS PO Box 1273, Charleston, WV
25325-1273 25325-1273

KANAWHA COUNTY NAME PERMIT 3212

DEC 6 - 1996



BENCH MARK DESCRIPTION

U.S.C. & G.S. STANDARD DISK SET
 IN MONUMENT AT NEW YORK CENTRAL
 RAILROAD OVERPASS - STAMPED
 231 SKS-1956-652 ELEV. 651.63'

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

"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 the rules and regulations of the oil and gas section of the mining laws of WEST VIRGINIA. Minimum degree of accuracy is one part in 200

L. L. S. No 102
 BOX 1273 CHARLESTON, W. VA.

Signed *Amogh Patel*

Company COLUMBIA GAS TRANS. CORP.
 Address BOX 1273 CHARLESTON, W. VA.
 Farm BENJAMIN E. BROWN JR., ET. AL. Coshorn Hrs.
 Lease 48180-48341 Acres 787
 Well Farm No. _____ Ser. No. 12114
 Elevation - Spirit Level 703.14'
 Quadrangle BLUE CREEK, CLENDENIN 15'
 Township or District ELK
 County KANAWHA
 Sec., Lot, Gr. _____ T _____ R _____
 Coordinates LAT. 38°23'54" LONG. 81°24'36"
 File No. 72-61 Dwg. No. _____
 Date 6-12-78 Scale 1" = 800'

FORM 1495 CE & CSD
 COLUMBIA GAS SYSTEM
 COLUMBIA GAS TRANSMISSION CORPORATION
WELL LOCATION MAP
STATE OF WEST VIRGINIA
 (+) Denotes Values Of Well On United States Topographic Maps
KAN-3212
 Scale 15' 7 1/2'
47-039 JUL 31 1978

Deep Well 5130 (Coshorn) 9-0 Blue Creek (218) 216



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

OIL & GAS DIVISION
DEPT. OF MINES

Rotary
Spudder
Cable Tools
Storage

Quadrangle Blue Creek
Permit No. Kan-3212

WELL RECORD

Oil or Gas Well Oil
(KIND)

Company Columbia Gas Transmission Corp.
Address P.O. Box 1273 Charleston, WV
Farm Benjamin Brown Acres 787
Location (waters) Blue Creek
Well No. 12114 Elev. 703.14'
District Elk County Kanawha
The surface of tract is owned in fee by Goshorn Heirs
Address _____
Mineral rights are owned by Benjamin Brown, Trustee
Address PO Box 2746 Chas. WV
Drilling commenced September 9, 1978
Drilling completed September 19, 1978
Date Shot _____ From _____ To _____
With _____
Open Flow 7/10ths Water in _____ Inch
1/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) Hydraulic Frac. Using 753 BBLs. and 28,50 LBS. 20/40 Sand

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16.			
13-3/8"	118.40	118.40	
XN 9-5/8"	1720.25	1720.25	Size of
8 1/4			
XN 7"	4962.15	4962.15	Depth set
5 3/16			
4 1/2			
3			Perf. top
2-3/8"		4948.35	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED 13-3/8" SIZE 118.4 No. Ft. 9-10-78 Date
Amount of cement used (bags) 150 sks. Neat
Name of Service Co. Halliburton Serv.
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 2.4 Million @ 850 PSIG
ROCK PRESSURE AFTER TREATMENT 850 PSIG HOURS -
Fresh Water _____ Feet _____ Salt Water Salt Sand Feet 670 to 1040
Producing Sand Oriskany Sand Depth 4970-5004

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand			0	80			
Coal	Black		90	95			
Sand			95	100			
Shale			100	134			
Sand			134	180			
Shale			180	450			
Sand			450	670			
Salt Sand			670	1040			
Red Rock			1040	1150			
Maxon			1150	1175			
Shale			1175	1185			
Little Lime			1185	1220			
Shale Pencil Cave			1220	1240			
Big Lime			1240	1424			
Injun Sand			1424	1452			
Weir Sand			1452	1690			
Shale			1690	4858			
Onadoga Lime			4858	4970			
Oriskany			4970	5004			

APR 10 1979



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JUL 17 1978

Oil and Gas Division
OIL & GAS DIVISION
DEPT. OF MINES
OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE July 17, 1978
Company Columbia Gas Transmission Corp.
Address P.O. Box 1273, Charleston, W. Va.
Farm Benjamin E. Brown Acres 787
Location (waters) Blue Creek
Well No. 12114 Elevation 703.14
District Elk County Kanawha
Quadrangle Blue Creek

Surface Owner Goshorn Heirs
Address _____
Mineral Owner Benjamin E. Brown, Trustee
Address P.O. Box 2746, Charleston, W. Va. 25330
Coal Owner Same as above
Address _____
Coal Operator Unoperated
Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling _____. This permit shall expire if operations have not commenced by 11-17-78.

INSPECTOR
TO BE NOTIFIED Martin Nichols
ADDRESS P. O. Box 554, Clendenin, W. Va.
PHONE 548-6993

Robert S. Goshorn
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated May 1, 1950 by Goshorn Heirs made to United Fuel Gas Company and recorded on the _____ day of _____ 19__ in Kanawha County, Book 123 Page 401

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours,
(Sign Name) Robert S. Goshorn
Manager, Drilling
P. O. 1273
Street
Charleston
City or Town
West Virginia 25325
State

*SECTION 3 ... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

KAN-3212 PERMIT NUMBER

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME Larry Friend
 ADDRESS _____ ADDRESS P.O. Box 610, Clendenin, W. Va.
 TELEPHONE _____ TELEPHONE 965-3317
 ESTIMATED DEPTH OF COMPLETED WELL: 5030' ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL _____ GAS _____ COMB. _____ STORAGE DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FILL UP, OR SACKS - CUBIC FT.
20 - 16			
13 - XX 3/8	240'		To surface
9 - 5/8	1790'		To surface
8 - 5/8			
7	4920'		
5 1/2			
4 1/2			
3			
2 3/8	4940'		Perf. Top
			Perf. Bottom
1 1/2			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET

APPROXIMATE COAL DEPTHS _____

IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title

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

1045° (4)

288

22923

1) Well Operator: COLUMBIA GAS TRANSMISSION CORP.

2) Operator's Well Number: 12114 3) Elevation: 703

4) Well type: (a) Oil / or Gas X /
 (b) If Gas: Production / Underground Storage X /
 Deep X / Shallow /

Issued 12/04/96
 Expires 12/04/98

Proposed Target Formation(s): 475 CRISKANY

Proposed Total Depth: 5105 feet

Approximate fresh water strata depths: N/A

Approximate salt water depths: N/A

9) Approximate coal seam depths: 80' - 95'

10) Does land contain coal seams tributary to active mine? Yes / No X /

11) Proposed Well Work: Run Tubing Drill 100' Deeper, Stimulate CRISKANY, AND RERUN TUBING.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		Weight per ft.	For drilling	FOOTAGE INTERVALS	Left in well	CEMENT
	Size	Grade					
Conductor							
Fresh Water	13 3/8"	H-40	46	118'	118'	150 SX	
Coal							
Intermediate	9 5/8"	H-40	32	1720'	1720'	600 SX	
Production	7"	N-80	23	4958'	4958'	200 SX	
Tubing	2 3/8"	J.55	4.6	4948'	4948'		
Liners		C. H. 10-33-96					

RECEIVED
 NOV 18 1996
 Division of Environmental Protection
 Office of Oil & Gas Permitting

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)

RECEIVED
Division of Environmental Protection
NOV 18 1996
Permitting
Office of Oil & Gas

- 1) Date: 10/29/96
- 2) Operator's well number
COCO-A WELL #12114
- 3) API Well No: 47 - 039 - 03212 -D
State - County - 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 James F. Brown III - Trustee
 Address P. O. Box 1793
Charleston, WV 25326
 b) Name _____
 Address _____
 c) Name _____
 Address _____

5) (a) Coal Operator:
 Name _____
 Address _____
 (b) Coal Owner (s) with Declaration
 Name James F. Brown III - Trustee
 Address P. O. Box 1793
Charleston, WV 25326
 Name _____
 Address _____

6) Inspector Carlos W. Hiviely
 Address 223 Pinch Ridge Road
Elkview, WV 25071
 Telephone (304) - 965-6069

(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 & know the 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.

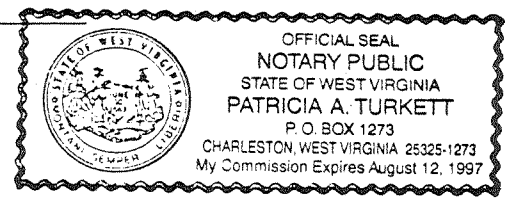
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, 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
 My commission expires August 12, 1997 Notary Public



WR-35

03-Dec-96
API #: 47- 39-03212-D

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

Reviewed *[Signature]*

Well Operator's Report of Well Work

Farm name: BROWN, JAMES F. III Operator Well No.: COCO-A 12114

LOCATION: Elevation: 703.14 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA
Latitude: 6600 Feet South of 38 Deg. 25Min. 0 Sec.
Longitude 10000 Feet West of 81 Deg. 22 Min. 30 Sec.

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

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY
Permit Issued: 12/04/96
Well work Commenced: 08/05/98
Well work Completed: 08/19/98
Verbal Plugging
Permission granted on: _____
Rotary Cable Rig
Total Depth (feet) 5004'
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"		118'	150 sx
9-5/8"		1720'	600 sx
7"	231b, N-80	4958'	200 sx
2-3/8"	4.6 lb	4970'	

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 80' - 90'

OPEN FLOW DATA

Producing formation Oriskany Storage Pay zone depth (ft) 4970' - 5004'
 Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
 Final open flow N/A MCF/d Final open flow N/A Bbl/d
 Time of open flow between initial and final tests N/A Hours
 Static rock Pressure N/A psig (surface pressure) after N/A 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.

RECEIVED
Office of Oil & Gas Permitting
For: COLUMBIA GAS TRANSMISSION CORP.

MAR 01 1999

By: *[Signature]*
Date: 2/22/99

WV Division of Environmental Protection

MAR 16 1999

KAN 3313 D

Pulled 4948' of 2-3/8", 4.6 lb tubing, cleaned out to TD, and re-ran 4970' of 2-3/8", 4.6 lb tubing.