

9400'

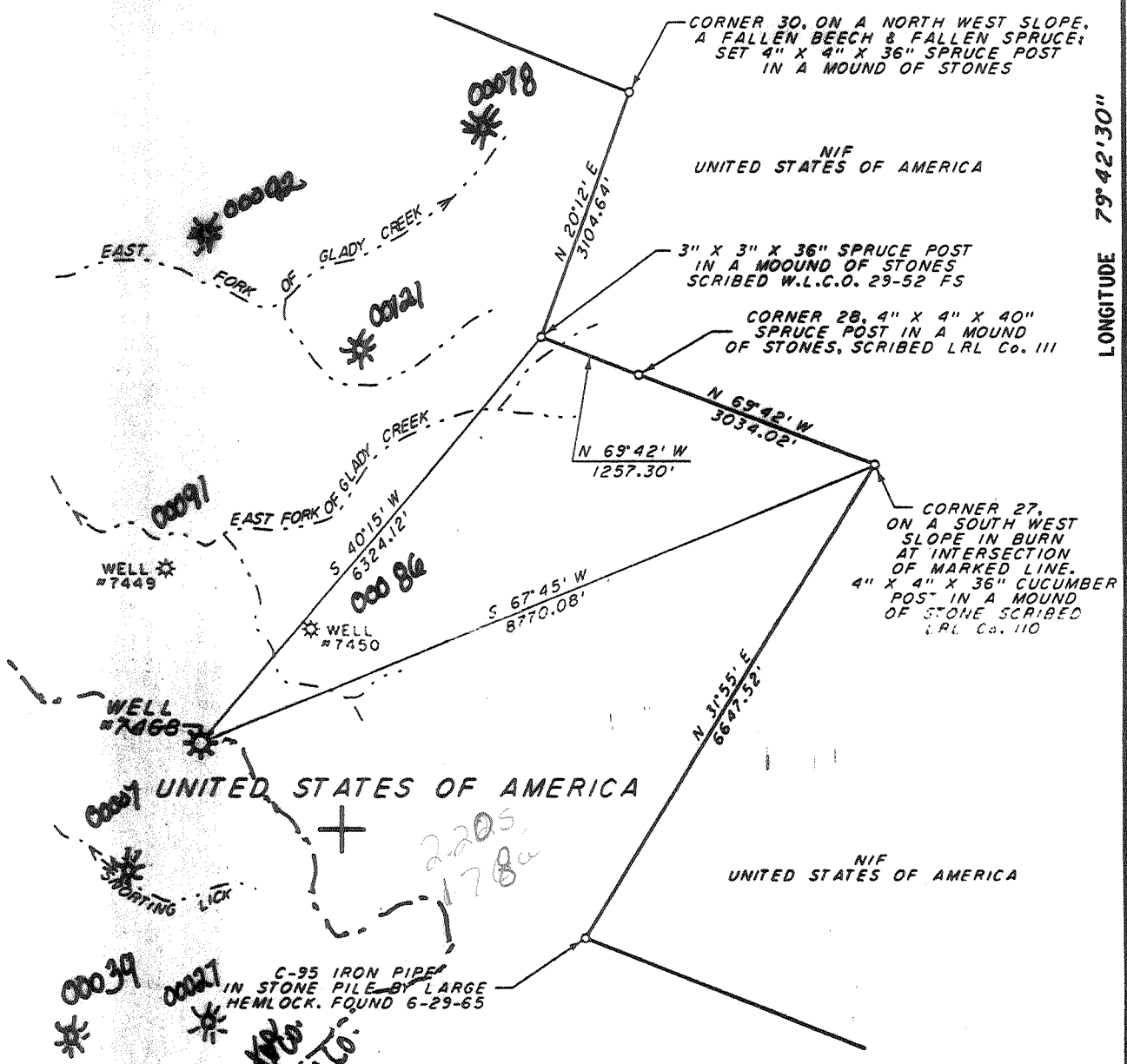
LATITUDE 38°45'00"

16511

LONGITUDE 79°42'30"

Janice 12/2/96

NORTH



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Nail in base of large bench on south side of Fox Run Road at intersection of Atlantic Seaboard Corp. well road. Elev. 3562.36'

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 ENERGY.

(SIGNED) Edward Nichols
 R.P.E. 9936 L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA



DATE OCTOBER 25, 19 96
 OPERATOR'S WELL NO. 7468
 API WELL NO. _____

DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE COUNTY PERMIT
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___

LOCATION: ELEVATION 3243' WATER SHED SNORTING LICK RUN OF WEST FORK OF GREENBRIER RIVER
 DISTRICT GREENBANK COUNTY POCAHONTAS
 QUADRANGLE SINKS OF GANDY COORDINATES LAT. 38°43'03" LONG. 79°44'04"

SURFACE OWNER UNITED STATES OF AMERICA DEPT. OF INTERIOR ACREAGE 1852.00 ±
 OIL & GAS ROYALTY OWNER USA DEPT OF INTERIOR LEASE ACREAGE 48212.33
 COAL OWNER _____ LEASE NO. 90700

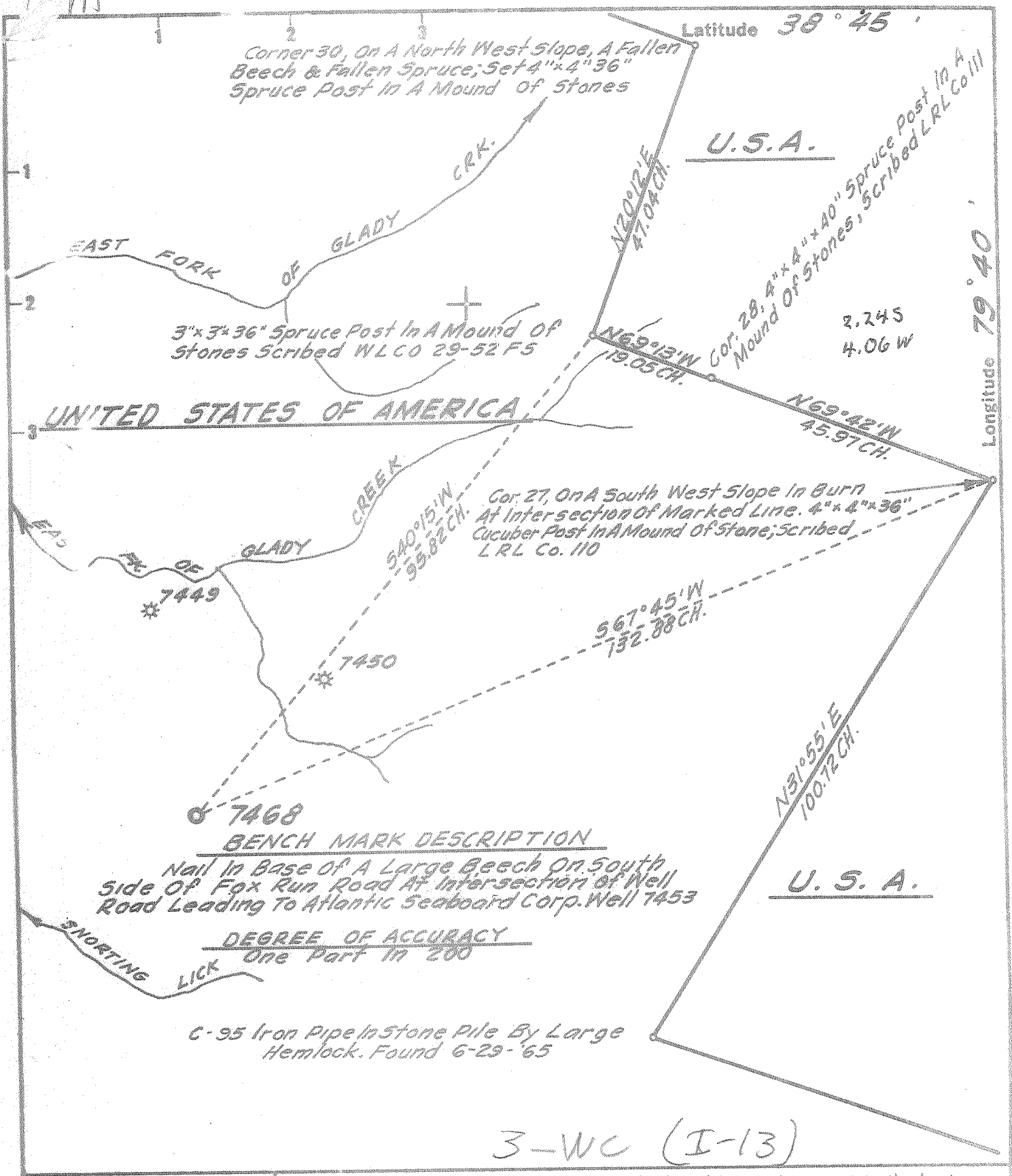
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR New Permitted work
 STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) STORAGE RECONDITION
well drilled in 1966 by Atlantic Seaboard.

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Oriskany ESTIMATED DEPTH 6,280' DEC 6 1996 20ft did deep

WELL OPERATOR COLUMBIA GAS TRANS. CORP. DESIGNATED AGENT RICHARD L. COTY
 ADDRESS P.O. BOX 1273, CHARLESTON, WV ADDRESS P.O. BOX 1273, CHARLESTON, WV
 25325-1273 25325-1273

POCAHONTAS COUNTY NAME PERMIT 00037

9-AM FORM



3-WC (I-13)

- Fracture Before 6/5/27
- New Location
- Drill Deeper
- Redrill
- Abandonment

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.
 The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.
 PROVEN ELEVATION 3562.39'

Company ATLANTIC SEABOARD CORP.
 Address CHARLESTON, W. VA.
 Farm UNITED STATES OF AMERICA
 Tract 52 Acres 1882 Lease No. 45-700
 Well (Farm) No. _____ Serial No. 7468
 Elevation (Spirit Level) 3743.62
 Quadrangle SPRUCE-KNOB-NW
 County POCAHONTAS District GREEN BANK
 Engineer O. L. Spinks
 Engineer's Registration No. 2712
 File No. 164-83 Drawing No. _____
 Date APRIL 14, '66 Scale 1" = 1320'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. POC 37

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Spruce Knob
Permit No. POC-37

WELL RECORD

Oil or Gas Well Gas Storage
(KIND)

Company Atlantic Seaboard Corp.
Address P.O. Box 1273 Charleston, W. Va. 25325
Farm United States of America Acres -
Location (waters) East Fork of Gladly Fork
Well No. X-77-7468 Elev. 3743.62'
District Green Bank County Pocahontas
The surface of tract is owned in fee by _____
Address _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8		39' Cemented	
10			Size of
8 1/2 9-5/8"		1430' Cemented	
6 1/2 7"		6048' Cemented	Open set
4 1/2			
3			Perf. top
2 3/8	6252'	6252'	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

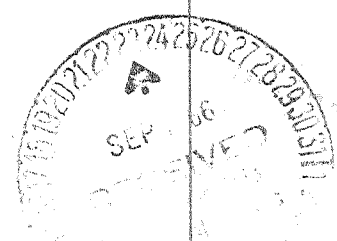
Mineral rights are owned by United States Geological Survey
3218 General Services Bldg. Washington D.C.
Drilling commenced 6-10-66
Drilling completed 6-23-66
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 37,000,000 - Oriskany Cu. Ft.
Rock Pressure 1530 lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) _____

Attach copy of cementing record.
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
Amount of cement used (bags) _____
Name of Service Co. _____
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) _____
ROCK PRESSURE AFTER TREATMENT _____ HOURS
Fresh Water 405' Feet _____ Salt Water _____ Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	22	Water 405'		
Sand			22	83			
Shale			83	445	Gas show 6199-6202'		
Sand			445	570			
Shale			570	1130	All gas test 3/10 W 4" 291 M when		
Sand			1130	1456	drilling completed.		
Shale			1456	2132			
Sand			2132	2300			
Shale & Sand			2300	3345	Test before acidized 3/10 W 4" 291 M		
Shale			3345	5397	Acidized 6-28-66 with 12,000 gallons		
Tully Lime			5397	5422	28% Hcl, 4,000 gallons overflush water		
Marcellus Shale			5422	5797	Test after acidized 88# spring gauge		
Onondaga Lime			5797	5850	4" 37,000 M		
Chert			5850	6005			
Needmore Shale			6005	6043			
Oriskany Sand			6043	6245	Shut in 6-30-66		
Helderberg			6245				
Total Depth			6260'				

5797 6043 6245
3744 3744 3744
2053 2299 2501



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

22926

Handwritten signature/initials

- 1) Well Operator: COLUMBIA GAS TRANSMISSION CORPORATION 16450 608
2) Operator's Well Number: Gladys Stg # 7468 (API 47-075-00037) 3) Elevation: 3,743.62 feet
4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production / Underground Storage X / Deep X / Shallow /
5) Proposed Target Formation (s): Oriskany 475
6) Proposed Total Depth: 6,280 (drill 20 feet deeper) feet
7) Approximate fresh water strata depths: 405'
8) Approximate salt water strata depths: 1200' (approx.)
9) Approximate coal seam depths: NONE
10) Does land contain coal seams tributary to active mine? Yes / No X /
11) Proposed Well Work: Columbia proposes to kill the well with a freshwater polymer based mud system. Remove the tubing and reconfigure or replace the wellhead. The well casing will be inspected with a casing inspection log and hydrostatically tested against a bridge plug. The wellbore will be cleaned out to the original TD and drilled an additional 20 feet into the Helderberg Lime for logging purposes. The open hole section will be logged. The well will be hydra-jetted with coiled tubing and acidized across the Oriskany section. The well will then be cleaned up, flow tested and placed back in service.

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

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

CASING AND TUBING PROGRAM

Table with columns: TYPE, SPECIFICATIONS, FOOTAGE INTERVALS, CEMENT. Rows include conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

PACKERS : Kind None
Sizes
Depths set

Handwritten note: 1/2 to be removed tubing

For Division of Oil and Gas Use Only

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

Handwritten date: 00162125/33

RECEIVED
Environmental Protection
Office of Oil and Gas
NOV 18 1996
Permitting

- 1) Date: 10/24/96
- 2) Operator's well number
GLADY WELL 7468
- 3) API Well No: 47 - 075 - 00037
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 United States Forest Service
Address Monongahela National Forest
P. O. Box 1548, Elkins, WV 26241
 - b) Name _____
Address _____
 - c) Name _____
Address _____
- 6) Inspector Phillip Tracy
Address Route 2, Box 37-A
Montrose, WV 26283
Telephone (304) - 636-8798

- 5) (a) Coal Operator :
 - Name _____
Address _____
 - (b) Coal Owner (s) with Declaration
Name United States Dept. Of Interior, Bureau Of Land Mgt.
Address P.O. Box 631
Milwaukee, WI 53201-0631 Attn: Tim Abing
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____

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

*Copy of Storage Lease
in Col. D. J.
Knausha's
office*

 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)

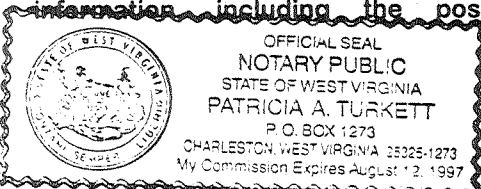
I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties, by:

- 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: W. Toan
Its: Senior Storage Engineer / Well Services
Address Route 3, Box 216
Elkins, WV 26241

Telephone 304/636-8129
Subscribed and sworn before me this 4th day of November, 19 96

Patricia A. Turkett Notary Public
My commission expires August 12, 1997