

(FEE TRACT)
 WINFRED COMBS MAUPIN, et al
 SEE JOSEPH & DOROTHY CASSIDY, et al
 D.B. 538 - PG. 677 1/4 INT.
 T.M. 41 - PAR. 21
 219 Ac.

0925
 2060

NOTES
 THIS MAP IS FOR WELL LOCATION ONLY AND DOES NOT REPRESENT A COMPLETE PROPERTY SURVEY.
 ALL PROPERTY OWNERS WITH IN 2000' LISTED ON PLAT ARE ON WELL WATER.

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

FILE NO. _____
 DRAWING NO. 7386
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION USG UE Spike in root of double w. oak on north side of road, 800' below Kinsinger Run. Elev. 1676.10'

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 J. Hobbs
 R.P.E. _____ L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL & GAS
 NITRO, WEST VIRGINIA 25143



DATE OCTOBER, 1996
 OPERATOR'S WELL NO. 7386
 API WELL NO. _____

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

LOCATION: ELEVATION 2021' WATER SHED GAWNEY RUN OF SALTICK CREEK
 DISTRICT UNION COUNTY PRESTON

QUADRANGLE TERRA ALTA COORDINATES LAT. 39°24'13" LONG. 79°32'50"

SURFACE OWNER COLUMBIA GAS TRANSMISSION CORP. ACREAGE 123 Ac.

OIL & GAS ROYALTY OWNER CLARA L. BARRY, et al LEASE ACREAGE 123 Ac.

COAL OWNER CLARA L. BARRY, et al LEASE NO. 90326

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 1955 by Cumberland & Allegheny Cos

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____

TARGET FORMATION Chert - Clinton ESTIMATED DEPTH 5721

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

FORM WW-6

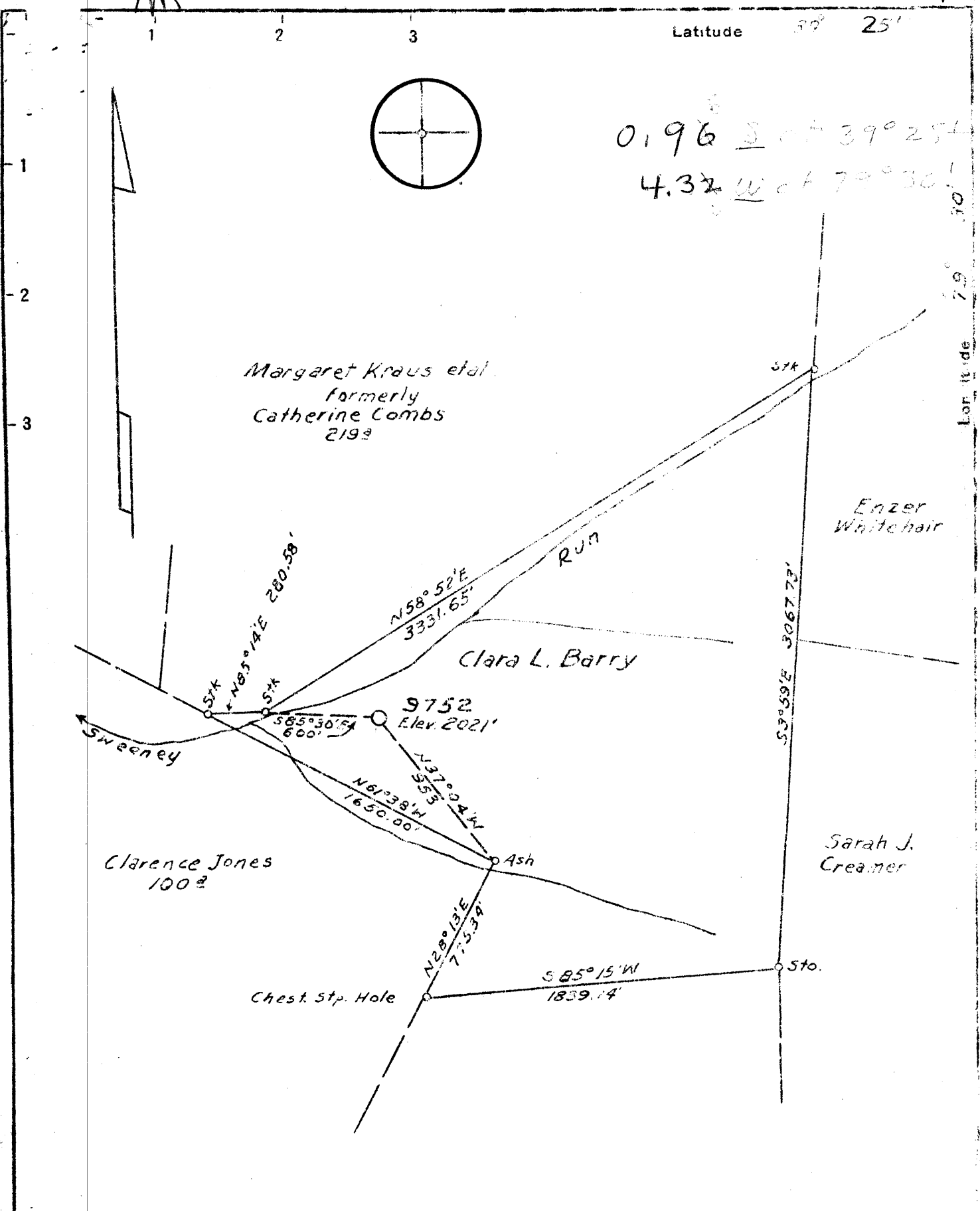
PRESTON COUNTY NAME PERMIT 00047

Deep well

DEC 6 1996

Latitude 39° 25'

0.96 S at 39° 25'
4.32 W at 79° 30'



- New Location
- Drill Deeper
- Abandonment

Map Sht. 14-C-56 E.56 - F.8,1046-P 20,21,22,23

Company HOPE NATURAL GAS CO.
 Address CLARKSBURG, W. VA.
 Farm CLARA L. BARRY
 Tract Acres 123 Lease No. 63659
 Well (Farm) No. Serial No. 9752
 Elevation (Spirit Level) 2021'
 Quadrangle KINGWOOD, W. VA. EC
 County PRESTON District UNION
 Engineer Guy H. Bradley
 Engineer's Registration No. 2425
 File No. Drawing No.
 Date June 2, 1952 Scale 1" = 40 Poles

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

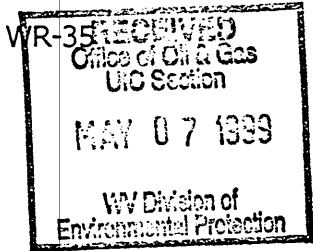
WELL LOCATION MAP
FILE NO. PRES-47

+ 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

Deep Well

3495



03-Dec-96
API # 47-077-00047-W

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

Reviewed AS

Well Operator's Report of Well Work

Farm name: COLUMBIA GAS TRANSMISSION Operator Well No.: TERRA ALTA 7386

LOCATION: Elevation: 2,021.00' Quadrangle: TERRA ALTA

District: UNION County: PRESTON
Latitude: 4,810 Feet South of 39 Deg. 35 Min. 0 Sec.
Longitude: 10,390 Feet West of 79 Deg. 32 Min. 30 Sec.

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

Agent: RICHARD L. COTY
Inspector: PHILLIP TRACY
Permit Issued: 12/04/96
Well work Commenced: 09/02/97
Well work Completed: 09/21/97
Verbal Plugging
Permission granted on: _____
Rotary _____ Cable _____ Rig
Total Depth (feet) 5,121'
Fresh water depths (ft) See Original Records
Salt water depths (ft) See Previous
Is coal being mined in area (Y/N) ? N
Coal Depths (ft) : See Previous

Casing & Up Tubing Size	Used in Drilling	Left in Well	Cement Fill Cu. Ft.
STIMULATION; SEE BACK FOR DETAILS			

OPEN FLOW DATA

Producing formation Chert & Oriskany Pay zone depth (ft) 4,713'-4,858' 4,858'-5,064'
Gas : Initial open flow 5391 MCF/d Oil : Initial open flow _____ Bbl/d
Final open flow 11071 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 527 Days Hours
Static rock Pressure 2109 psig (surface pressure) after 2 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 : William H. Fraker
Date : May 5, 1999

MAY 17 1999

PRE 0047 W

WR-35

03-Dec-96

API # 47- 077-00047-W

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

Well Operator's Report of Well Work

STIMULATION

- Acidized on 09-03-97
- Halliburton Coiled Tubing Conveyed -Selective Injection Packer -Acid Job.
- Acidized with 10,080 gals 10% Halliburton FE Acid setting selective injection packer and treating with five foot intervals as follows:
5,049'-5,044', 5,044'-5,039', 5,039'-5,037', 4,956'-4,951', 4,951'-4,946', 4,921'-4,916', 4,889'-4,884', 4,884'-4,879', 4,879'-4,874', 4,874'-4,869', 4,869'-4,864', 4,765'-4,760', 4,760'-4,755', 4,752'-4,747', 4,747'-4,742', 4,742'-4,737', 4,737'-4,736', 4,732'-4,729', 4,725'-4,720', 4,720'-4,716'.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Kingwood
Permit No. *Gas-47*

Oil or Gas Well Gas
(KIND)

Company CUMBERLAND & ALLEGHENY GAS COMPANY
Address 800 Union Trust Bldg., Pittsburgh, Penna.
Farm Clara L. Barry Acres 119.02
Location (waters) _____
Well No. 1-502 (Hole #97752) Elev. 2021'
District Union County Preston
The surface of tract is owned in fee by _____

Mineral rights are owned by _____
Address _____

Drilling commenced October 20, 1952
Drilling completed February 4, 1953
Date Shot not From _____ To _____
With _____

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 2,291,000 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 110 feet
Salt water none feet

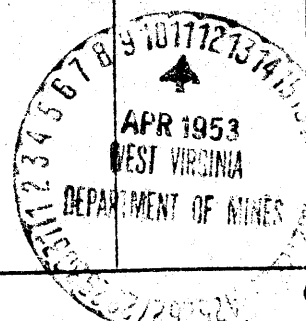
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13	38'	38'	
10	397'	397'	Size of
8"	1279'	1279'	
7"	4720'	4720'	Depth set
5 8/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

8" set in 40 bags of cement 800 lbs. Gel. Date
CASING CEMENTED _____ SIZE _____ No. Ft. _____
7" set in 60 bags of cement
COAL WAS ENCOUNTERED AT none FEET _____ INCHES
_____ FEET _____ INCHES
_____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	20			
Lime			20	410	Water at 100'		
Slate Shell			410	800			
Lime (Grey)			800	960			
Slate			960	975			
Lime			975	1143			
Benson Sand			1143	1180	Show gas	1175'	
Slate Shells (White)			1180	1990			
Slate Shells (Brown)			1990	2075			
Slate Shells (White)			2075	2100			
Brown Slate Shells			2100	3460			
Brown Shale			3460	3680			
Dark Shale			3680	3950			
Grey Shale			3950	4050	8" Casing set in 40 Bags cement and 800# Gel.		
Dark Shale			4050	4195	7" Casing set in 60 Bags cement		
Tully Lime			4195	4225			
Dark Shale			4225	4255			
Lime			4255	4305			
Grey Shale			4305	4325			
Brown Shale			4325	4485			
Dark Shale			4485	4558			
Black Shale			4558	4697			
Brown Break			4697	4700			
Onedago Lime			4700	4719			
Chert Sand			4719	4866	Gas 4734, 4769		
Oriskany Sand			4866	5064	Gas 4873, 5000, 5033-45'		
Helderberg Lime			5064	5121			
Total Depth			5121				

4700 4866 5064
2021 2021 2021
2679 2845 3043

Converted to:
Atlantic Seaboard
Storage (7386)



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

077 47 Frac.

1) Well Operator: ¹⁷⁵ COLUMBIA GAS TRANSMISSION CORPORATION ¹⁰⁴⁵⁷ (7) ⁶³⁷

Operator's Well Number: Terra Alta Stg # 7386 (API 47-077-00047) 3) Elevation: 2,021 feet

Well type: (a) Oil ___ / or Gas X /

(b) If Gas: Production ___ / Underground Storage X /
Deep X / Shallow ___ /

Proposed Target Formation (s): ⁴⁷⁵ Chert- Oriskany

Proposed Total Depth: 5,121 feet

7) Approximate fresh water strata depths: 110'

8) Approximate salt water strata depths: NONE RECORDED

9) Approximate coal seam depths: NONE RECORDED

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

11) Proposed Well Work: Columbia proposes to clean the well out to total depth with coiled tubing. The well will be logged with cased and open hole logs. The well will be re-perforated, acidized or fractured depending on log results. Cleaned up, flow tested & place back in service.

12) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	CEMENT			
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill - up (cu. ft.)
conductor	13-3/8"	J-55	54#	37'10"	37'10"	not recorded
	10-3/4"	H-40	32.75#	400'	397'	not recorded
Fresh Water	8-5/8"	J-55	24#	1,296'	1,279'	40 sks alpha & 800 sks gel
Coal						
Intermediate cmt	7"	J-55	23#	4,769'	4,720'	60 sks uniflo
Production	4-1/2"	J-55 & N-80	12.6#	5,133'	5,133'	two stg 445 sks cmt
Tubing						
Liners						

Issued 12/04/96
Expired 12/04/98
RECEIVED
NOV 18 1998
Environmental Protection
The Division of
Permitting
Office of Oil & Gas

PACKERS : Kind None
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only
 Fee (s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW - 8 WW - 2B Bond Agent
(Type)

00162 12/33

Existing well records
385818-11.1

RECEIVED
Division of Environmental Protection
NOV 18 1996

1) Date: 10/24/96
2) Operator's well number
TERRA ALTA WELL 7386
3) API Well No: 47 - 077 - 00047 - 2
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 SEE ATTACHED LISTING
Address _____
b) Name _____
Address _____
c) Name _____
Address _____

5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner (s) with Declaration
Name SAME AS ATTACHED LIST
Address _____
Name _____
Address _____

6) Inspector Phillip Tracy
Address Route 2, Box 37-A
Montrose, WV 26283
Telephone (304) - 636-8798

(c) Coal Lessee with Declaration
Name _____
Address _____

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

*Copy of lease in
Col. D. Trus office
in Kanawha
City*

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

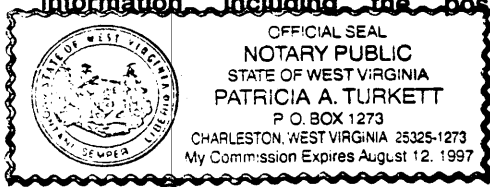
I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- 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.H. Farker*
Its: Senior Storage Engineer / Well Services
Address Route 3, Box 216
Elkins, WV 26241
Telephone 304/636-8629

Subscribed and sworn before me this 4th day of November, 19 96

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