

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.
 F.B. 2633 - PG. 65-68

FILE NO. _____
 DRAWING NO. 7512
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION USGS Standard disc, Almond 42 JEA, set in conc. mark, by SEC. RI. 82 about 1.3 mi. N. west of RI. 80. Elev. 2398.70'

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. _____ L.L.S. 798



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

DATE OCTOBER, 19 96
 OPERATOR'S WELL NO. 7512
 API WELL NO. 47 077 00090W
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 2634.21' WATER SHED GARLIC RUN OF SALT LICK
 DISTRICT UNION COUNTY PRESTON
 QUADRANGLE AURORA, WV COORDINATES LAT: 39°21'13" LONG: 79°36'29"
 SURFACE OWNER WILLIAM L. NICE, et al ACREAGE 200 Ac.
 OIL & GAS ROYALTY OWNER LINDSLEY NICE LEASE ACREAGE 281 Ac.
 COAL OWNER WILLIAM L. NICE, et al LEASE NO. 522

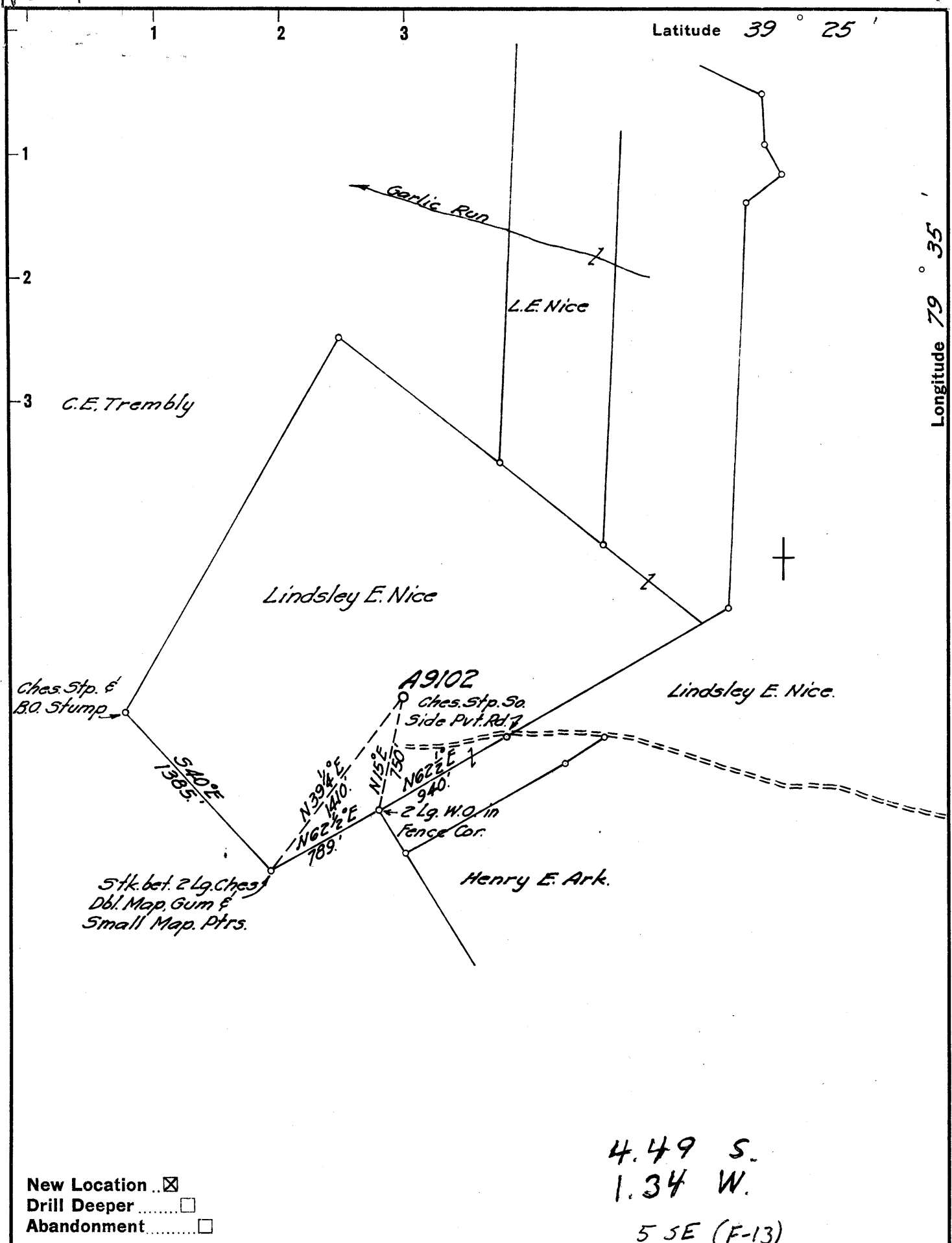
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) STORAGE RECONDITION Well drilled in 1961 by Atlantic Seaboard PD 6190'

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Chest-Oxispony ESTIMATED DEPTH 6190'
 WELL OPERATOR COLUMBIA GAS TRANS. CORP. DESIGNATED AGENT RICHARD L. COFF
 ADDRESS P.O. BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS P.O. BOX 1273, CHARLESTON, WV 25325-1273

DEC 6 1996

PRESTON COUNTY NAME PERMIT 00090

DEEPWELL



New Location
 Drill Deeper
 Abandonment

4.49 S.
 1.34 W.
 5 SE (F-13)

Company	ATLANTIC SEABOARD CORP.	
Address	CHARLESTON W.VA.	
Farm	LINDSLEY E. NICE	
Tract	Acres 281	Lease No. A5522
Well (Farm) No.	Serial No. A-9102	
Elevation (Spirit Level)	2571.78'	
Quadrangle	KINGWOOD - C	
County	PRESTON	District UNION
Engineer	Hubert Russell	
Engineer's Registration No.	2529	
File No.	170-127	Drawing No.
Date	6-7-61	Scale 1"=400'

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

WELL LOCATION MAP
 FILE NO. PRES-90

+ 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.

6-6-280

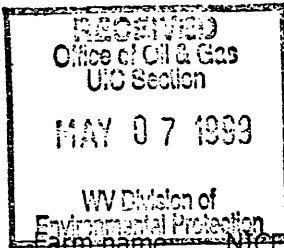
K&E 158 IMPERIAL TRACING CLOTH T.M. 60046
 Samples 17-A (5000-6190')

Deep Well

WR-35

04-Dec-96

API # 47- 077-00090 W



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

Reviewed *[Signature]*

Well Operator's Report of Well Work

Farm name: NICE, THELMA-LIFE ESTATE Operator Well No.: TERRA ALTA 7512

LOCATION: Elevation: 2,634.21' Quadrangle: AURORA

District: UNION County: PRESTON
 Latitude: 7,800 Feet South of 39 Deg. 22 Min. 30 Sec.
 Longitude: 7,100 Feet West of 79 Deg. 35 Min. 0 Sec.

Compay: 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: 07/31/97
 Well work Completed: 11/14/97
 Verbal Plugging _____
 Permission granted on: _____
 Rotary _____ Cable _____ Rig _____
 Total Depth (feet) 6,190'
 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.
PULLED & RETIRED 6,224' OF 2-3/8" EUE J-55 4.7#/FT TUBING			
RE-PERFORATED 5-1/2" CASING; SEE BACK FOR DETAILS			
STIMULATION; SEE BACK FOR DETAILS			

OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 6,020' - 6,150'
 Gas : Initial open flow 70 MCF/d Oil : Initial open flow _____ Bbl/d
 Final open flow 1074 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 498 Days Hours
 Static rock Pressure 2098 psig (surface pressure) after 1 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. Foraker*
 Date : *May 4, 1999*

MAY 17 1999

PRE 0090 W

WR-35

04-Dec-96

API # 47- 077-00090 W

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

Well Operator's Report of Well Work

RE-PERFORATED

Re-perforated 5-1/2" Casing 10/01/97 & 10/02/97 with Western Atlas Logging Services from:
6,106'-6,016', 6,120'-6,124', 6,084'-6,090', 6,094'-6,100', 6,060'-6,080', 6,026'-6,044', 6,050'-
6,054', 6,058'-6,060', 5,958'-5,968', 5,938'-5,958', 5,920'-5,926', 5,932'-5,938', 5,900'-5,920', and
5,880'-5,900' with 6 shots/foot.

STIMULATION

- Acidized on 10-22-97
- Halliburton Coiled Tubing Conveyed -Selective Injection Packer -Acid Job.
- Acidized with 16,500 gals 15% Halliburton FE Acid setting selective injection packer and treating with five foot intervals as follows:

6,124'-6,120'	6,116'-6,111'	6,111'-6,106'	6,106'-6,102'	6,100'-6,095'	6,095'-6,090'
6,090'-6,085'	6,080'-6,075'	6,075'-6,070'	6,070'-6,065'	6,065'-6,060'	6,060'-6,058'
6,054'-6,050'	6,044'-6,039'	6,039'-6,034'	6,034'-6,029'	6,029'-6,024'	5,968'-5,963'
5,963'-5,958'	5,958'-5,953'	5,953'-5,948'	5,948'-5,943'	5,943'-5,938'	5,938'-5,933'
5,926'-5,921'	5,921'-5,916'	5,916'-5,911'	5,911'-5,906'	5,906'-5,901'	5,901'-5,896'
5,896'-5,891'	5,891'-5,886'	5,886'-5,881'			



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Kingwood

Permit No. PRES-90

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Atlantic Seaboard Corporation

Address P.O. Box 1273; Charleston 25, W. Va.

Farm Lindsley E. Nice Acres 281

Location (waters) Big Run of Salt Lick Creek

Well No. A-9102 Elev. 2571.78

District Union County Preston

The surface of tract is owned in fee by _____

Address _____

Mineral rights are owned by Lindsley E. Nice

P. O. Box 299 Address Rawlesburg, W. Va.

Drilling commenced - -

Drilling completed 8-14-61

Date Shot _____ From _____ To _____

With _____

Open Flow 15 /10ths Water in _____ Inch

4 /10ths Merc. in _____ Inch

Volume 2,398,000 - Oriskany Cu. Ft.

Rock Pressure 1870 lbs. 48 hrs.

Oil _____ bbls., 1st 24 hrs.

WELL ACIDIZED _____

WELL FRACTURED _____

RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16		33'	
13			
10x 11-3/4		314	Size of
8x 5/8		422	
6x			Depth set
5 3/16 1/2		6190'	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand			0	550	Show gas in	Chert	
Slate & Shells			550	1160			
Sand & Shale			1160	2200	Gas	6022' and 6100-6110'	total 1,055 M
Slate & Shells			2200	2550			
Sand & Shale			2550	3050	Test before acidized	61/10 W 4"	1,311 M
Shale			3050	5375	Acidized 8-31-61 with 500 gallons	10% MCA	
Tully Lime			5375	5405	Test after acidized	10/10 Merc. 4"	
Shale			5405	5849			1,958 M
Onondaga			5849	5869			
Chert			5869	6000	Acidized 9-1-61 with 2,000 gallons	15% Pent. acid	
Shale			6000	6020	Test after acidized	15/10 Merc. 4"	
Oriskany			6020	6150			2,398 M
Helderberg			6150		Acidized 9-7-61 with 1,000 gallons	7 1/2% MCA	
Total Depth			6190'		Acidized 9-8-61 with 4,000 gallons	15% Pent. acid	
			5849	6020			
			2572	2572			
			3277	3448			
				6150			
				2572			
				3578			
					Acidized 9-16-61 with 12,000 gallons	7 1/2% Pent. acid	
					Final open flow	15/10 Merc. 4"	2,398 M
					FINAL OPEN FLOW-	2,398 M - Oriskany	
					48 Hr. R.P.	1870#	
					Shut in 9-19-61 in	5 1/2" casing.	

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

077 90 Frac.

Handwritten initials

- 1) Well Operator: COLUMBIA GAS TRANSMISSION CORPORATION 10450 (D) 227
- 2) Operator's Well Number: Terra Alta South Stg # 7512 (API 47-077-00090) 3) Elevation: 2,571.78 feet
- 4) Well type : (a) Oil / or Gas X /
(b) If Gas : Production / Underground Storage X /
Deep X / Shallow /
- 5) Proposed Target Formation (s) : Chert-Oriskany 475
- 6) Proposed Total Depth : 6,190 feet
- 7) Approximate fresh water strata depths : NONE RECORDED
- 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 kill the well with a fresh-water polymer mud system, remove the tubing and modify the wellhead. The well will be cleaned out to total depth. 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

22938

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

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
conductor	16"			33'	33'	10 sks cmt
Fresh Water	11-3/4"		47#	324'	314' 324'	150 sks cmt
Coal						
Intermediate	8-5/8"	J-55	32#	416'	4,16'	126 sks cmt
Production	5-1/2"	J-55 Hydril	17#	6,190'	6,190'	160 sks latex cmt squeezed w/ 388 sks
Tubing						
Liners						

Existing from well records

PACKERS : Kind None
Sizes
Depths set

00162125/38

For Division of Oil and Gas Use Only

Fee (s) paid : Well Work Permit Reclamation Fund
 Plat WW-1B WW-2B Bond Blanket (Type) WPCP Agent

RECEIVED
WV Division of
Environmental Protection
NOV 18 1996

1) Date: 10/24/96
2) Operator's well number
TERRA ALTA WELL 7512
3) API Well No: 47 - 077 - 00090 - w
State - County - Permit

Permitting
Office of Oil & Gas
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 Thelma Nice - Life Estate
Address 2429 Park Ave.
Norwood, Ohio 45212
Name William L. Nice / James Michael Nice
Address 2429 Park Ave.
Norwood, Ohio 45212
b) Name Lindsley E. Nice
Address 2429 Park Ave.
Norwood, Ohio 45212

5) (a) Coal Operator:
Name _____
Address _____

(b) Coal Owner(s) with Declaration
Name SAME
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:

 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)

*Copies of lease
in Col. B. V.
Office in
Kanawha
etc.*

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:

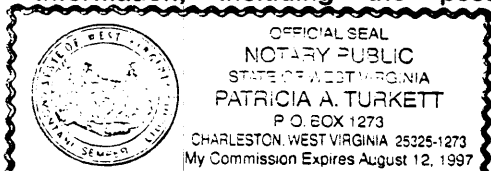
- Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

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. H. Foraker
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 Notary Public
My commission expires August 12, 1997