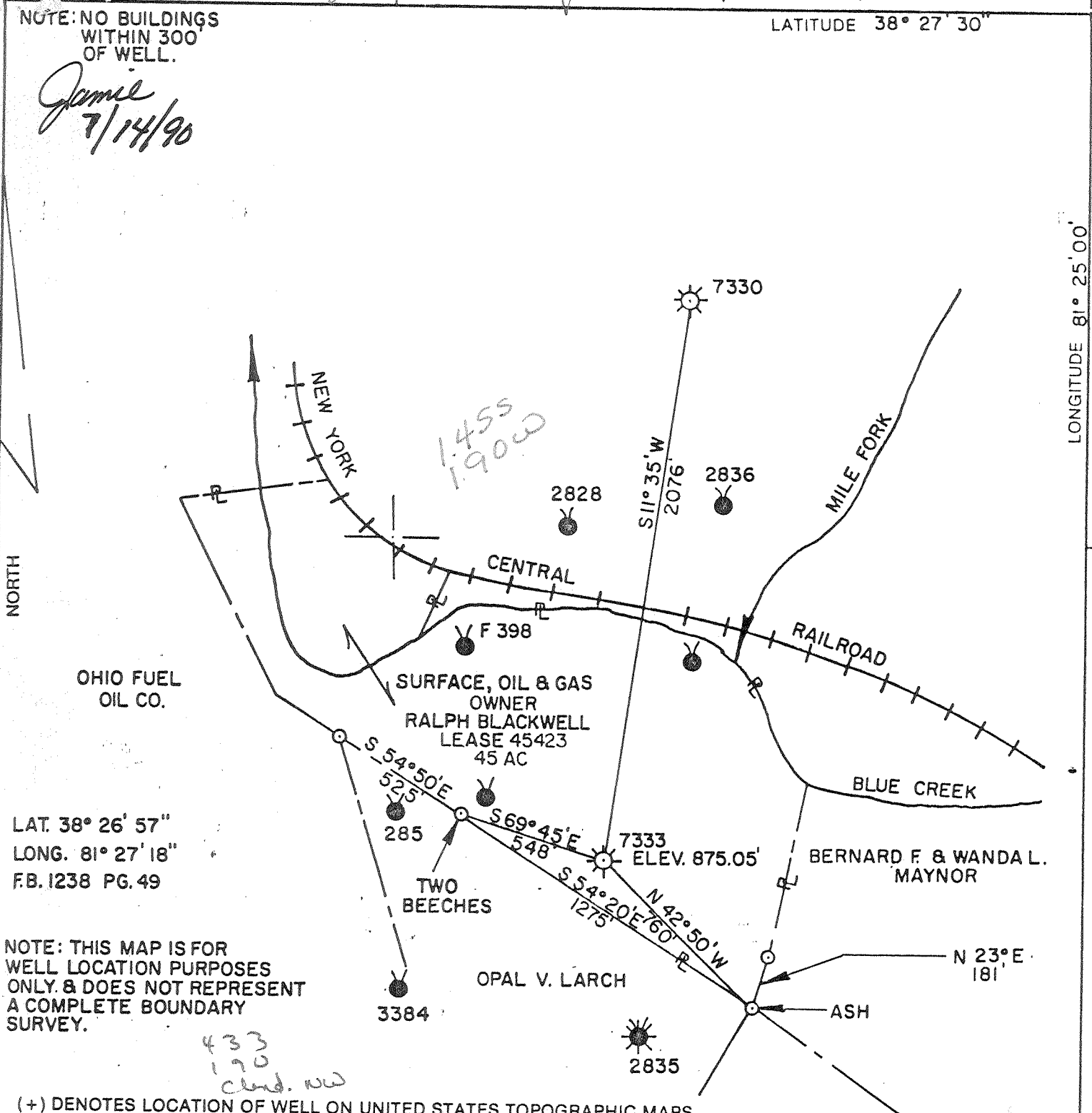


NOTE: NO BUILDINGS
WITHIN 300'
OF WELL.

LATITUDE 38° 27' 30"

Jamie
7/14/90



LAT. 38° 26' 57"
LONG. 81° 27' 18"
F.B. 1238 PG. 49

NOTE: THIS MAP IS FOR
WELL LOCATION PURPOSES
ONLY & DOES NOT REPRESENT
A COMPLETE BOUNDARY
SURVEY.

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

FILE NO. _____
DRAWING NO. 7333
SCALE 1" = 500'
MINIMUM DEGREE OF
ACCURACY 1/200
PROVEN SOURCE OF
ELEVATION WELL 6151

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) *Edward Nicholas*

R.P.E. 9936 L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE JUNE 27, 19 90
OPERATOR'S WELL NO. 7333
API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___
LOCATION: ELEVATION 875.05 WATER SHED BLUE CREEK
DISTRICT ELK 4 COUNTY KANAWHA
QUADRANGLE BLUE CREEK
SURFACE OWNER RALPH BLACKWELL ACREAGE 42.57
OIL & GAS ROYALTY OWNER RALPH BLACKWELL LEASE ACREAGE 45
LEASE NO. 45423

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION _____ ESTIMATED DEPTH _____
WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT ROBERT C. WEIDNER
ADDRESS P.O. BOX 1273 CHARLESTON, W.V. 25325 ADDRESS P.O. BOX 1273 CHARLESTON, W.V. 25325

JUL 27 1990

175

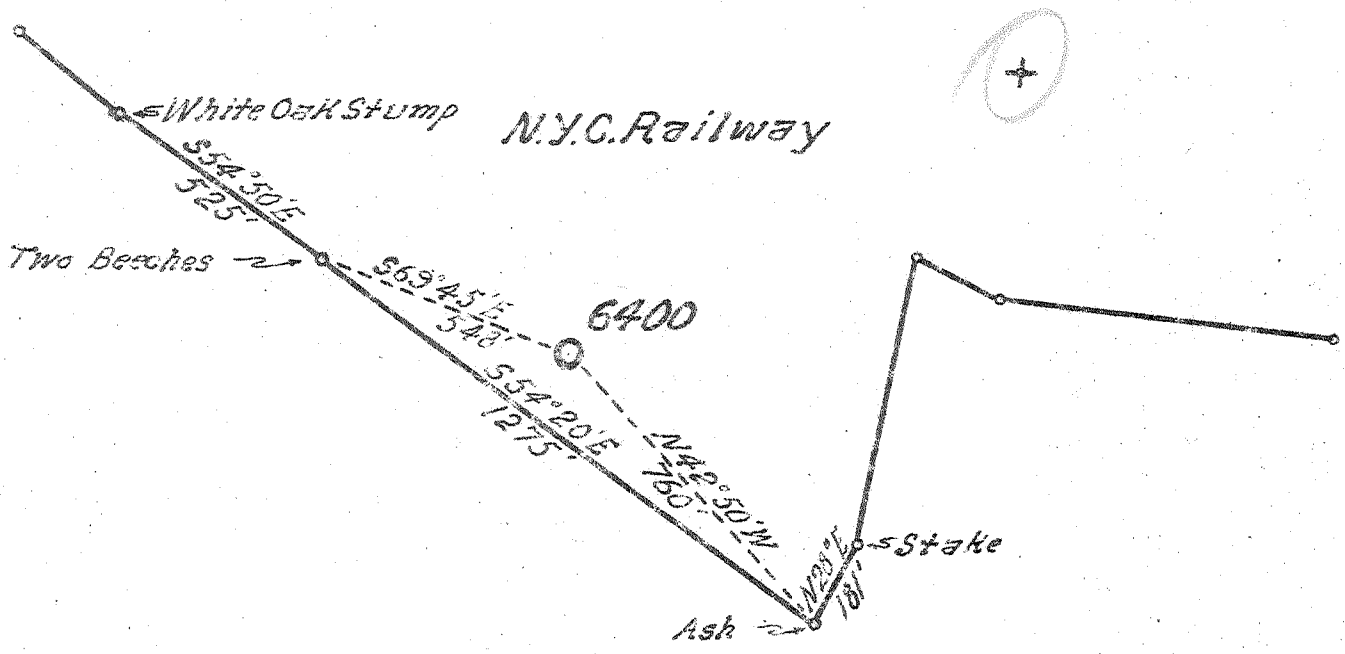
DEEP WELL

COUNTY NAME KAN
PERMIT 1458

FORM WW-6

Latitude 38 30

Longitude 81 25



John Mitchell

7.5 0615 topo loc 15.1oz
 38° 27' 30" 1.475 4.355
 81° 25' 00" 1.91W 1.91W

(Handwritten initials)

1.88 W
 Y. V. A

New Location
 Drill Deeper
 Abandonment

AUG 24 1948

Company UNITED FUEL GAS CO.
 Address CHARLESTON, W.VA.
 Farm N.Y.C. RAILWAY, ET AL.
 Tract 72 Acres 45 Lease No. 48609 45423
 Well (Farm) No. 1 Serial No. 6400
 Elevation (Spirit Level) 875.05
 Quadrangle CLENDENIN
 County HANAWHA District ELM
 Engineer J. W. Moore
 Engineer's Registration No. 562
 File No. 70-65 Drawing No. _____
 Date JULY 19, 48 Scale 1"=400'

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

WELL LOCATION MAP
 FILE NO. KAN-1458

+ 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.

66 218

4.5 S. 38° 30'
1.58 W. 81° 25'

P

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

355 (3-6)

Permit No. Kan 1458					Gas Well
NW- Clendenin Quad.					CASING & TUBING
Company	United Fuel Gas Co.				
Address	P.O. Box 1273, Charleston 25, W.Va.				
Farm	New York Central R.R. Co et al. A 117				
Location	Blue Creek of Elk River	13 3/8	38'3	Same	
Well No.	6400 Elev. 875.05 Gr.	10 3/4	326'3	"	
District	Elk Kanawha County	8 5/8	1558'8	"	
Surface		7	5161	"	
Mineral	John Wehrle et al, 1416 Virginia St. Chas., W.Va.				
Commenced	7-21-48				
Completed	11-8-48				
Date shot	11-9-48 Depth 5263 to 5314 with 566 2/3# EL 409 and 50# Gel.				
Open flow	14/10ths M in 7"				
Volume	5,955 M CF Oriskany				
Rock Pressure	1550 lbs. 33 hrs.				

Surface	0	10 Oriskany gas 5277-5287 4/10 M 7" 22# 3,181
Red Rock	10	80 M
Slate	80	150 Test B.S. 5/10 W 7" 22# 964 M
Sand	150	160 Shot 11-9-48 with 566 2/3# EL 409 and
Lime	160	200 50# Gel. from 5263-5314
Sand	200	261 Test 1 hr. A.S. 14/10 M 7" 22# 5,955 M
Slate	261	305
Sand	305	350 Open flow 5,955 M Oriskany
Slate	350	500 33 hr. R.P. 1550#
Sand	500	530 Shut in 11-9-48 in 2" tubing
Slate	530	560
Slate	560	615
Sand	615	640
Slate	640	700
Lime	700	750
Slate	750	800
Sand	800	840
Slate	840	900
Lime	900	993
Slate	993	1003
Salt Sand	1003	1403
Black Slate	1403	1438
Maxon	1438	1495
Slate	1495	1501
Red Rock	1501	1523
Lime	1523	1557
Slate	1557	1566
Lime - L. Lim	1566	1601
Pencil Cave	1601	1606
Big Lime	1606	1785
Slate	1785	1795
Injun Sand	1795	1820
Slate	1820	1840
Sand - Squaw	1840	1895
Blate	1895	2430
Black Lime	2430	2460
Slate & Shells	2460	3960
Brown Shale	3960	4110
White Slate	4110	4677
Brown Shale	4677	5040
White Slate	5040	5090
Black Slate	5090	5136
Corniferous Lime	5136	5263
Oriskany Sand	5263	5318
Total Depth		5318

5136 5263
875 875

4261 4388

UPG Production reports indicate
that the 1924 produced gas
for 2 years for a total of
11,000 MCF
Dum 6/22/94

Deep Well

SEP 20 1994

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: BLACKWELL, RALPH Operator Well No.: 7333

LOCATION: Elevation: 875.00 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA
Latitude: 7875 Feet South of 38 Deg. 27Min. 30 Sec.
Longitude 10100 Feet West of 81 Deg. 25 Min. 0 Sec.

Company: COLUMBIA GAS TRANSMISSION
1700 MacCORKLE AVENUE S.E.
CHARLESTON, WV 25314-0000

Agent: ROBERT E. WEIDNER

Inspector: CARLOS W. HIVELY
Permit Issued: 07/23/90
Well work Commenced: 8/24/90
Well work Completed: 10/18/90
Verbal Plugging
Permission granted on: _____
Rotary _____ Cable _____ Rig _____
Total Depth (feet) 5318
Fresh water depths (ft) 150' Est.

Salt water depths (ft) 386' Est.

Is coal being mined in area (Y/N)? (N)
Coal Depths (ft): 1000' Est.

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
4 1/4"			
13-3/8"	48'	38'	38'
10-3/4"	40.5'	326'	326'
8-5/8"	28'	1559'	1559' 20 sacks 8 1/2 gal
7"	22'	5204'	5204' 20 sacks
2-3/8"	4.6'		5279'

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 5318'
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

N/A 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

over

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: Richard L. Coyle
Date: 9/19/94

OCT 8 1994

Physical Changes

- 1.) - Pulled 5207' of 2-3/8" - 10 RD Hog - and replaced with ~~222222~~ 5279' of new 2 3/8" Hog - 4.6 #/ft J-55 - NUE - Baker setting nipple on bottom.
- 2.) Pulled 1521' of 5 1/2" CSG - AND replaced w/ cross-over-sub and new 5 1/2" - 17 #/ft CSG -
- 3.) Perforated 7" CSG @ 1465' for squeeze -
- 4.) Removed and replaced top jt of 7" CSG -
- 5.) Squeezed 7" CSG w/ 100 SKS class A cement w/ Haland 344 and 60 sacks Class A Neat -
- 6.) Ran new, 2 3/8" tubing (4.6 #/ft J-55) and set same at 5279'.

Note: See previously submitted geological record

039-1458 W
Issued 7/23/90
Page 3 of 4

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

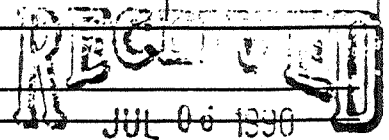
- 1) Well Operator: COLUMBIA GAS TRANSMISSION CORP. 10450 (4) 258.
- 2) Operator's Well Number: 7333 3) Elevation: 875'
- 4) Well type: (a) Oil or Gas
(b) If Gas: Production Underground Storage
Deep Shallow
- 5) Proposed Target Formation(s): Oriskany Sand
- 6) Proposed Total Depth: 5318 feet
- 7) Approximate fresh water strata depths: 150' Est.
- 8) Approximate salt water depths: 380' Est.
- 9) Approximate coal seam depths: 1000' Est.
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: A) pull and replace the 2-3/8" tubing, partial replacement of the 5-1/2" casing and replace top joint of the 7" and 8-5/8" casing. B) perforate & squeeze
- 12) the 7" & 8-5/8" casing. C) Install 3000 psi API flanged wellhead assembly.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	13-3/8"		48#	38'	38'	<i>Rework</i>
Coal	10-3/4"		40.5#	326'	326'	<i>existing well</i>
Intermediate	8-5/8"		28#	1,559'	1,559'	20 sks. of 8% ge
Production	7" O.D.		22#	5,204'	5,204'	20 sks.
Tubing	2-3/8"		4.6#	5,300'	5,300'	
Liners						

Storage Well -

PACKERS : Kind none
Sizes _____
Depths set _____



10/12/17 For Division of Oil and Gas Use Only DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

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

Plat WW-9 WW-2B Bond Blanket sure Agent

(Type)

10923

RECEIVED
JUL 06 1990

Date: June 22, 1990
Operator's well number
Coco C - #7333
API Well No: 47 - 039 - 01458-REWORK
State - County - Permit

DIVISION OF OIL & GAS 3)
DEPARTMENT OF ENERGY

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|---|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Ralph Blackwell</u>
Address <u>P. O. Box 299</u>
<u>Elkview, WV 25701</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>none</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>Ralph Blackwell</u>
Address <u>P. O. Box 299</u>
<u>Elkview, WV 25701</u></p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>none</u>
Address _____</p> |
| <p>6) Inspector <u>Carlos Hively</u>
Address <u>223 Pinch Ridge Road</u>
<u>Elkview, WV 25071</u>
Telephone (304)- <u>965-6069</u></p> | |

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 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B 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:

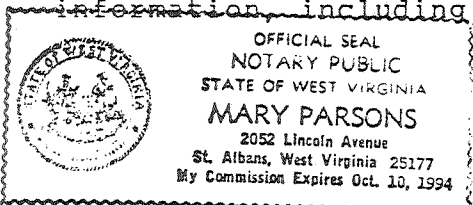
- _____ Personal Service (Affidavit attached)
- x Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B 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: R. [Signature]
Its: Director, Drilling & Maintenance
Address P. O. Box 1273
Charleston, WV 25325-1273
Telephone (304) 357-2459



Subscribed and sworn before me this 25th day of June, 1990

Mary Parsons Notary Public
My commission expires October 10, 1994