

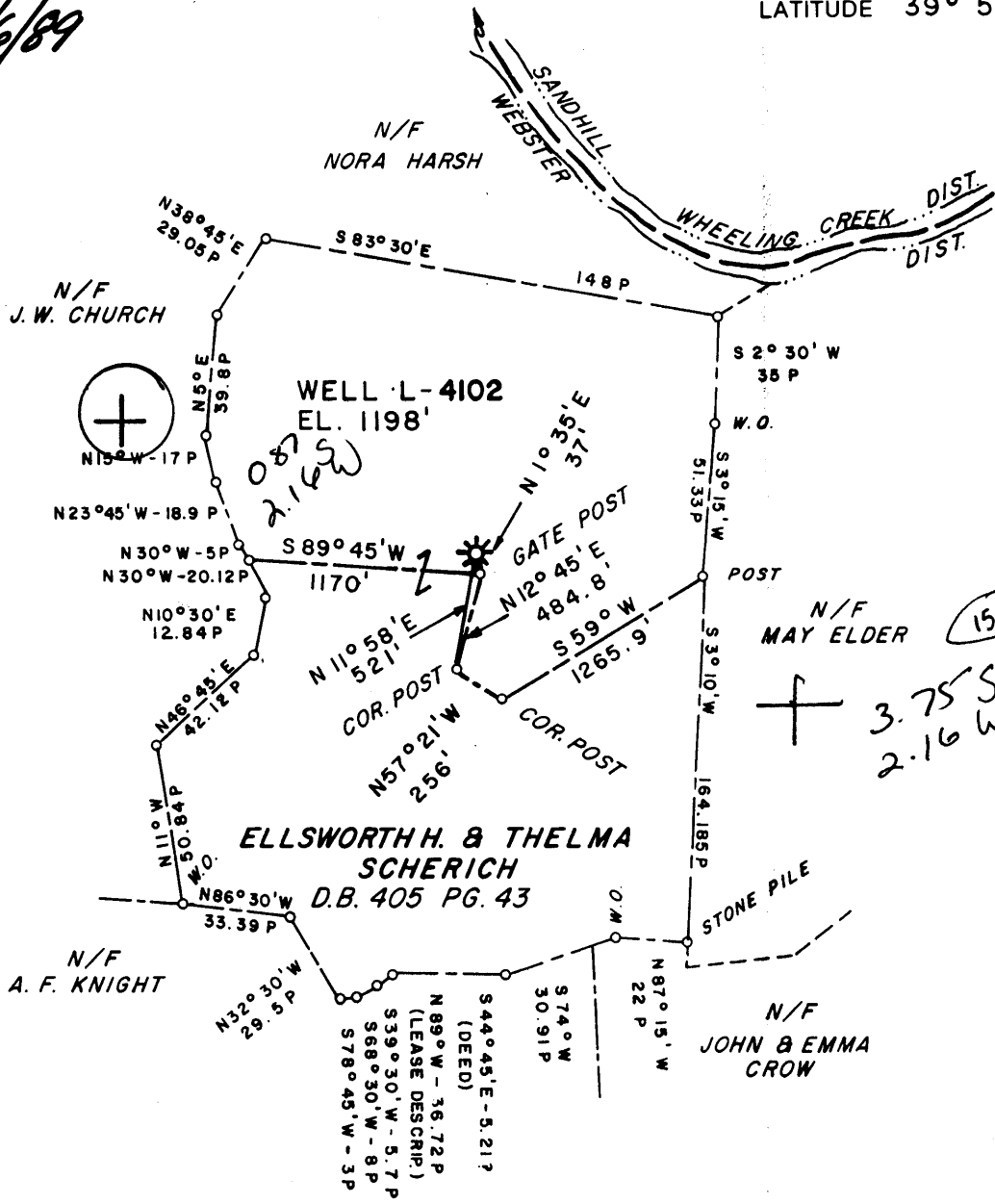
Jamie 6/6/89

11590

40

LATITUDE 39° 57' 30"

LONGITUDE 80° 08' 30"



LAT 39° 56' 41"
 LONG. 80° 32' 18"
 F.B. 1566 N PG. 61 (R.C.F.)
 F.B. 1603 N PG. 14 (R.C.J.)
 4420 N
 536 E

NOTE: SURVEY BEARINGS ARE DEED MERIDIAN.
 NO BUILDINGS WITHIN 300' OF WELL.

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

FILE NO. _____
 DRAWING NO. L-4102
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/2500'
 PROVEN SOURCE OF ELEVATION USGS BM 1357' AT MT. HOPE CEMETERY

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE FEB. 9, 1989
 OPERATOR'S WELL NO. L-4102
 API WELL NO. 051

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

LOCATION: ELEVATION 1198' WATERSHED WHEELING CREEK
 DISTRICT WEBSTER 9 COUNTY MARSHALL

QUADRANGLE MAJORSVILLE - 7 1/2' 453 019 3 Cameron NE
 SURFACE OWNER ELLSWORTH H. & THELMA SCHERICH ACREAGE 212
 OIL & GAS ROYALTY OWNER E.H. & T. SCHERICH LEASE ACREAGE 212
 LEASE NO. 19484

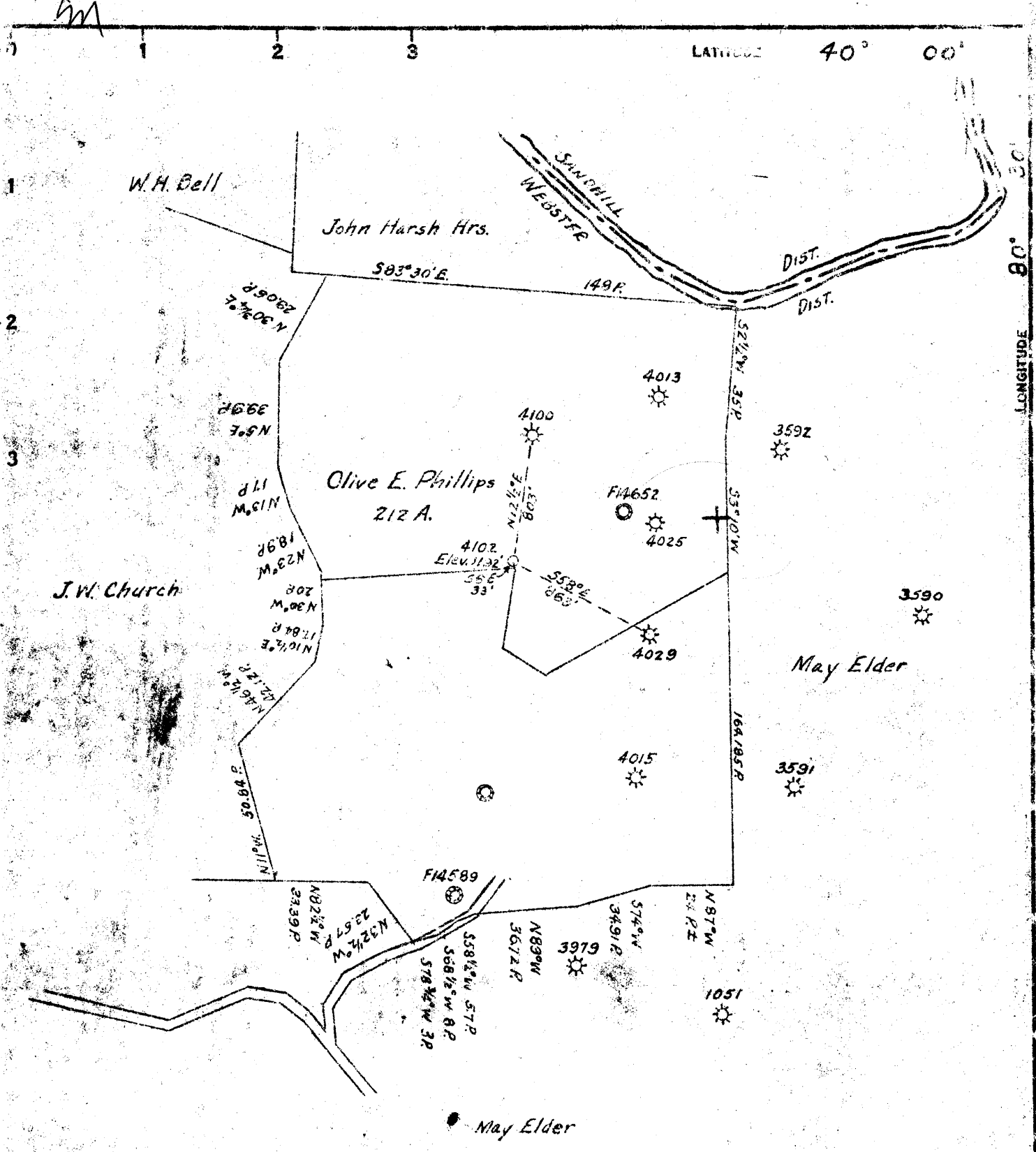
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) STORAGE RECONDITION

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Big Injun Sand ESTIMATED DEPTH 1855'
 WELL OPERATOR COLUMBIA GAS TRANS. CORP. DESIGNATED AGENT R. A. SCHOFF
 ADDRESS P.O. BOX 1273 0175 ADDRESS P.O. BOX 498
CHARLESTON, WV 25325 WASHINGTON, PA 15301

JUN 16 1989

MARS COUNTY NAME
 224 PERMIT

Majorsville (622)



WELL OWNED BY Everett F. Moore, Esq. Moundsville, W. Va.

WELL LOCATION
 DRILL DEEPER
 ABANDONMENT

COMPANY The Manufacturers Light & Heat Co
 ADDRESS 800 Union Trust Bldg, Pittsburgh, Pa.
 FARM Olive E. Phillips
 TRACT _____ ACRES 212 LEASE NO. 19494
 WELL (FARM) NO. 6 SERIAL NO. 4122
 ELEVATION (SPIRIT LEVEL) 1122'
 QUADRANGLE Cameron
 COUNTY Marshall DISTRICT Webster
 ENGINEER H. Laugel
 ENGINEER'S REGISTRATION NO. _____
 FILE NO. _____
 DATE July 5, 1951 SCALE 1" = 80'

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

WELL LOCATION MAP

FILE NO. MARS-224

+ 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.

WR-352
 RECEIVED
 MAR 22 83
 Permitting
 Office of Oil & Gas

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

Well Operator's Report of Well Work

Form name: SCHERICH, ELLSWORTH ETUX. Operator Well No.: L-4102

LOCATION: Elevation: 1198.00 Quadrangle: MAJORSVILLE

District: WEBSTER County: MARSHALL
 Latitude: 4620 Feet South of 39 Deg. 57Min. 30 Sec.
 Longitude 11590 Feet West of 80 Deg. 30 Min. 0 Sec.

Company: COLUMBIA GAS TRANSMISSION
 P. O. BOX 1273
 CHARLESTON, WV 25325-0000

Agent: ROBERT E. WEIDNER

Inspector: MIKE UNDERWOOD
 Permit Issued: 06/12/89
 Well work Commenced: 07/27/89
 Well work Completed: 08/16/89

Verbal Plugging
 Permission granted on: -----
 Rotary X Cable _____ Rig
 Total Depth (feet) 1850
 Fresh water depths (ft) NOT

NOTED ON DRILLERS LOG
 Salt water depths (ft) 1467
 (FROM ORIGINAL DRILLERS LOG)
 Is coal being mined in area (Y/N)? N
 Coal Depths (ft): 651-657

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			(200 sks)
10 3/4" OD	697'	697'	236
8 5/8" OD	1290'	1290'	(180 sks) 212
7" OD	1753'	1753'	(90 sks) To surface
4 1/2" OD	1851'	1851'	(100 sks) 126

OPEN FLOW DATA

Producing formation BIG INJUN SAND Pay zone depth (ft) 1807' to 1818
 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

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. MAR 16 1993

Reviewed TM6
 Recorded _____

By: Ronald A. Shoff
 Date: March 16, 1993

1) Perforated 4 1/2" casing on 10/26/89

<u>FROM</u>	<u>TO</u>	<u>SHOTS/FT</u>
1807'	1818'	4

2) Well Log (from service company logs):

<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>
Pittsburgh Coal	651'	657'
Gas Sand	1290'	1354'
1st Salt Sand	1422'	1462'
3rd Salt Sand	1624'	1702'
Big Injun Sand	1746'	----
Drilled TD	----	1850' ✓
Logged TD	----	1846'

DF }
DF T } 375

h&lo

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. MARS-224
Cameron Quad.

Gas

CASING & TUBING

Company Manufacturers Light & Heat Co.
Farm Olive E. Phillips Acres 212
Well No. 4102
District Webster County - Marshall
Commenced 10/2/51
Completed 11/6/51
Open Flow 56/10 Merc. 3"
Volume 1,948,000 Big Injun
R.P. 655# 24 Hrs.

Cond.	16	16
10	697	697
8 1/2	1298	1298
6 5/8	1762	1762
4"		1845

Anchor Packer 6 5/8 x 4"
1774'

Clay	0	15	Red Rock	1019	1060
Slate	15	35	Slate	1060	1115
Lime	35	45	Sand	1115	1150
Slate & Lime	45	108	Slate	1150	1165
Red Rock	108	115	Sand	1165	1190
Slate & Shells	115	190	Lime	1190	1254
Lime	190	225	Slate & Shells	1254	1285
Slate & Shells	225	260	Lime	1285	1297
Lime	260	355	Slate	1297	1310
Slate	355	361	Sand	1310	1357
Coal	361	364	Slate	1357	1360
Lime	364	550	Sand Salt Sand	1360	1472
Slate	550	555	Slate	1472	1565
Coal	555	557	Lime	1565	1575
Slate	557	590	Slate	1575	1650
Lime	590	622	Sand	1650	1720
Slate	622	656	Lime	1720	1752
Pittsburgh Coal	656	662	Big Injun Sand	1752	
Lime	662	710	TOTAL DEPTH	1833	
Slate	710	745			
Red Rock	745	753			
Lime	753	773	Show of Gas 1455		
Red Rock	773	858	Gas 1445-1447 54/10 W 1 1/2"		
Slate & Shells	858	912	Hole full water at 1467'		
Red Rock	912	970	Gas 1618-1619		
Lime	970	987	Gas 1625-1626 - 50/10 Merc. in 3"		
Sand	987	997			
Slate & Shells	997	1019			

(575)

1720
1192
528

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 JUN 26 1989

051-0224-^{Work}Re

Issued 6/12/89 Expires 6/12/91

Page 3 of 4

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

- 1) Well Operator: ¹⁷⁵ Columbia Gas Transmission Corp. 10450, 9, 453
- 2) Operator's Well Number: L-4102 3) Elevation: 1198'
- 4) Well type: (a) Oil / or Gas x/
 (b) If Gas: Production / Underground Storage x/
 Deep / Shallow x/
- 5) Proposed Target Formation(s): Big Injun Sand
- 6) Proposed Total Depth: 1855 feet
- 7) Approximate fresh water strata depths: estimated @100'
- 8) Approximate salt water depths: 1467'
- 9) Approximate coal seam depths: Pittsburgh Coal @ 656'-662'
- 10) Does land contain coal seams tributary to active mine? Yes x/ No /
- 11) Proposed Well Work: Recondition well as follows: 1) Remove existing 4½" csg.; 2) Cement 7" csg. with 50 sks, if possible; 3) Drill Deeper from 1833' to 1855'; 4) Run & cement new 4½" csg. with 100 sks; and 5) Perforate the Big Injun Sand as determined by well logs.
- 12) **CASING AND TUBING PROGRAM - EXISTING**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (XXXXXX)
Conductor						(30CSR18-11.3)
Fresh Water						(30CSR18-11.2.2)
Coal	10-3/4" OD	H-40	32.75#	697'	697'	200 sks
Intermediate	8-5/8" OD	H-40	24#	1290'	1290'	180 sks
	7" OD	J-55	20#	1753'	1753'	None
Production	4½" OD	J-55	11.6#	1833'	1833'	None
Tubing						
Liners						

PACKERS : Kind Bottom Hole Packer Anchor Packer Anchor Packer
 Sizes 7" x 8-5/8" 7" x 8-5/8" 4½" x 7"
 Depths set 1753' 1390' 1774'

For Division of Oil and Gas Use Only

1/4 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Agent
 (Type)

1420 4504

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JUN 06 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

- 1) Date: May 5, 1989
- 2) Operator's well number
MARS L-4102
- 3) API Well No: 47 - MARS - 224-Re-Wor
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Ellsworth H. & Thelma Scherich
Address Rt. 4, Box 252
Moundsville, WV 26041
 - (b) Name --
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name Consolidation Coal Co.
Address Consol Plaza, 1800 Washington Rd.
Pittsburgh, PA 15241
(b) Coal Owner(s) with Declaration
Name _____
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Mike Underwood
Address Rt. 2, Box 135
Salem, WV 26426
Telephone (304)- 782-1043

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 4 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: Ronald A. Schoff
Its: Senior Storage Engineer
Address P. O. Box 498
Washington, PA 15301
Telephone 412/223-2794

Subscribed and sworn before me this 12 day of May, 1989

Reene Gawronski Notary Public

My commission expires REENE GAWRONSKI, Notary Public
Washington County