

Janice
12/4/96

LATITUDE 38° 25' 00"

CHARLES W. SKINNER, JR. ETAL
SURFACE:
DEED BOOK 39 PAGE NO. 17
685.75 ACRES ±
TAX MAP NO. 31
PARCEL NO. 3

STAKE AT CALL OF
STAKE BY FALLEN
CHESTNUT WITH 8"
HICKORY WITNESS
SAID HICKORY FOUND
WITH OLD MARKS
4" DOGWOOD WITNESS

GAS WELL
NO. 7057
(KAN-1032)

ROBERT S. EVANS ETAL
SURFACE:
DEED BOOK 1899 PAGE 411
DEED BOOK 2025 PAGE 472
TAX MAP NO. 31
PARCEL NO. 2

IRON PIPE
BETWEEN 2 HICKORY .44'
PATTI T. HUTCHINSON
SURFACE:
DEED BOOK 1469 PAGE 273
84.1 ACRES ±
TAX MAP NO. 31
PARCEL NO. 4

S 57° 30' W
3575'

CALL OF
CUCUMBER
SOURWOOD &
6" HICKORY
POINTERS

S 57° 00' W
1670'

GAS WELL
NO. 7104
(KAN-1541)

STAKE BY
2 DOGWOODS
& SASSAFRAS
AT CALL OF
STAKE BY BIRCH,
BEECH SNAG
AND FALLEN
HICKORY POINTERS

W.F. GOSHORN
HEIRS ETAL
SURFACE: TAX MAP NO. 40
PARCEL NO. 1
1161 ACRES ±
DEED BOOK 1884 PAGE 96
DEED BOOK 2243 PAGE 142
DEED BOOK 2250 PAGE 267
MINERAL:
COLUMBIA GAS TRANSMISSION CORP.
455.4 ACRES ±
DEED BOOK 1624 PAGE 662

NORTH

GAS WELL
NO. 7103
(KAN-1540)

S 2° 00' E
1700'

S 17° 00' W
10961'

CHARGE:
GEN. PROJ. ACTIV. TRANS CNTR
107 03133 W1962 4141
FIELD BOOK 2344
PAGE NO. 648 65
FIELD BOOK 1372
PAGE NO. 24-26, 32
FARM MAP NO. 48
SQUARE 74-63

GAS WELL
NO. 7215
(KAN-1300)

RUTH D.
THABET
378.5 AC ±
TAX MAP NO. 32
PARCEL NO. 2
BIG SANDY DISTRICT

GAS WELL
NO. 7110
(KAN-1559)

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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF
ACCURACY 1/200
PROVEN SOURCE OF
ELEVATION CONNECTION AT OP EXIST-
ING GAS WELL NO. 7215 ELEVATION:
1158.61 FEET

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. _____ L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE FEBRUARY 4 1991
OPERATOR'S WELL NO. 7110
API WELL NO.

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1078' WATER SHED WATERS OF WHITE OAK FORK OF BLUE CREEK OF ELK RIVER
DISTRICT ELK COUNTY KANAWHA
QUADRANGLE BLUE CREEK, WVA CO-ORDINATES LAT: 38° 24' 54" LONG: 81° 23' 35"
SURFACE OWNER W.F. GOSHORN HEIRS ETAL ACREAGE 1161 ACRES ±
OIL & GAS ROYALTY OWNER COLUMBIA GAS TRANSMISSION CORP DEED ACREAGE 455.4 ACRES ±
DEED NO. 14334

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
will be existing well deeper 100' rework hole.
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Criskany ESTIMATED DEPTH 5550'
WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP. DESIGNATED AGENT RICHARD L COTY
ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325 ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325

DEC 6 1996

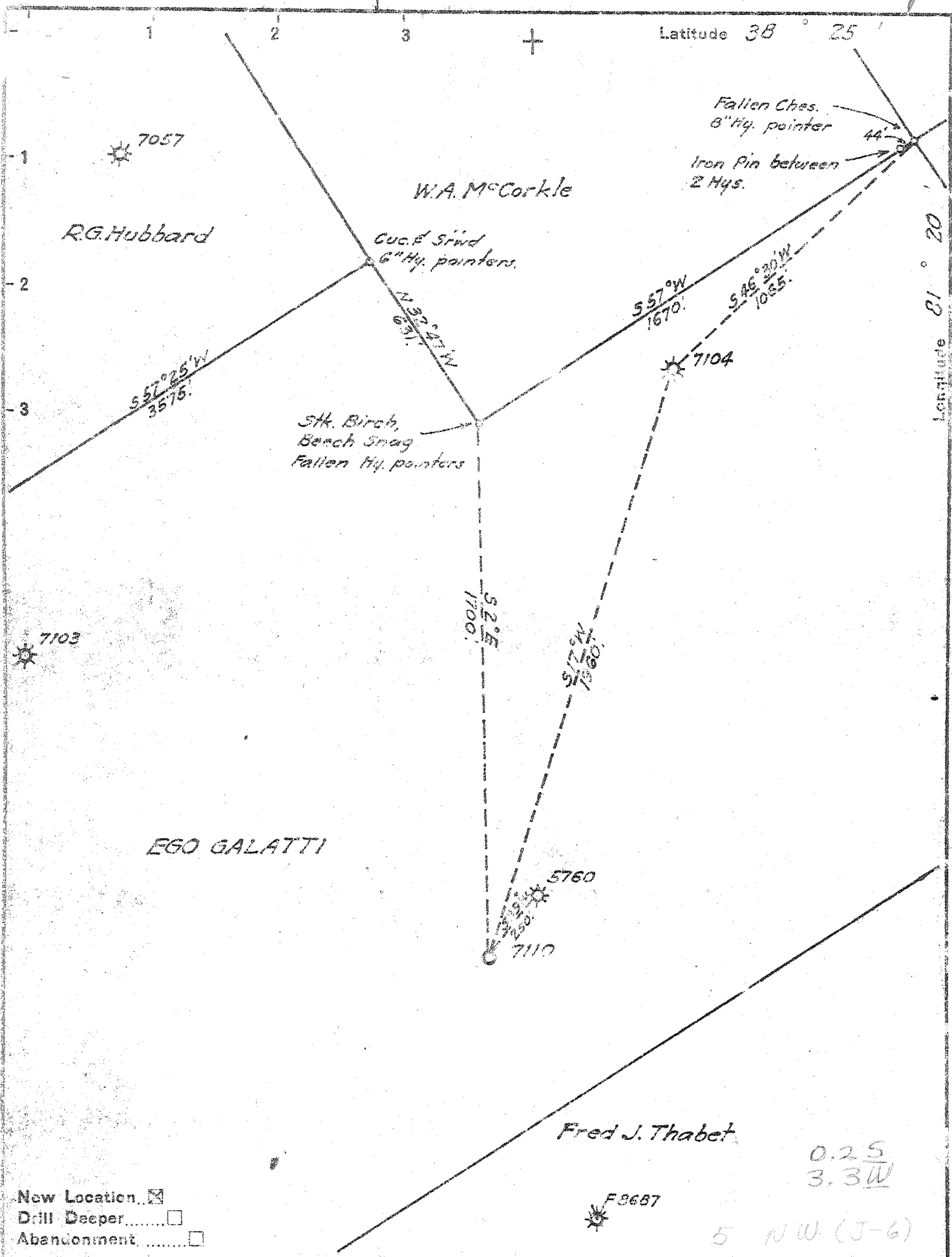
DEEP WELL

LONGITUDE 81° 22' 30"

KANAWHA
COUNTY NAME

1559
PERMIT

FORM WV-6
048065
HALLS INC.



Company	UNITED FUEL GAS CO.	
Address	CHARLESTON W. VA.	
Farm	EGO GALATTI	
Tract	Acres 455.4	Dead Lease No. 12334
Well (Farm) No.	8	Serial No. 7110
Elevation (Spirit Level)	1078.10	
Quadrangle	CLENDENIN - C	
County	KANAWHA	District ELK
Engineer	<i>[Signature]</i>	
Engineer's Registration No.	662	
File No.	74-63	Drawing No.
Date	7-3-51	Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. KAN-1559

+ 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 border line of original tracing.

Deep Well

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

Permit No. KAN-1559
Clendenin Quad.

Gas Well

Company	United Fuel Gas Co.	CASING & TUBING	
Address	Box 1273, Charleston, W. Va.		
Farm	Ego Galatti #8 Acres 455.4	10 3/4"	1467'
Location	White Oak Fk. of Blow Crk.	8"	1707'
Well No.	X-52A-7110 Elev. 1078.18	5 1/2"	5335'
District	Elk County - Kanawha		
Mineral	United Fuel Gas Co.		
Commenced	7/22/51		
Completed	12/26/51		
Open Flow	50/10ths Water in 2 1/2"		
Volume	3,051 M		
R.P.	1175# 1 hr.		

Soil	0	2	Red Rock	1445	1450
Slate	2	30	Lime	1450	1470
Sand	30	35	Slate & Shells	1470	1520
Slate	35	45	Red Rock	1520	1540
Sand	45	110	Slate	1540	1552
Slate	110	125	Maxon Sand	1552	1580
Sand	125	200	Slate	1580	1590
Slate	200	225	Lime	1590	1640
Sand	225	350	Slate	1640	1650
Slate	350	385	Lime	1650	1816
Sand	385	430	Injun Sand	1816	1855
Slate	430	463	Squaw Sand	1855	2065
Sand	463	500	Slate & Shells	2065	3210
Slate	500	523	Slate	3210	3230
Sand	523	615	Slate & Shells	3230	3814
Slate	615	641	Brown Shale	3814	4014
Sand	641	670	Slate & Shells	4014	4250
Slate	670	700	White Slate	4250	4850
Sand	700	715	Brown Shale	4850	5239
Lime	715	727	Black Shale	5239	5299
Sand	727	741	Corniferous Lime	5299	5420
Slate	741	756	Oriskany Sand	5420	5445'
Sand	756	865	TOTAL DEPTH	5445'	
Slate	865	935			
Sand	935	955	Hole Full Water 1090'		
Lime	955	964	Gas 5430' 50/10 W 7" 22# 3,051 M		
Salt Sand	964	1030	NOE SHOT		
Slate	1030	1033			
Sand	1033	1080	FINAL OPEN FLOW - 3,051 M - Oriskany		
Slate	1080	1083	1 Hr. R.P. 1175#		
Sand	1083	1445'	Shut in 12/21/51 in 5 1/2" Casing.		

JAN 2 1 1998

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

Permitting
 Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: GOSHORN, W.F. HEIRS Operator Well No.: COCO 7110

LOCATION: Elevation: 1,078.00 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA
 Latitude: 625 Feet South of 38 Deg. 25Min. 0 Sec.
 Longitude 5150 Feet West of 81 Deg. 22 Min. 30 Sec.

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

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY
 Permit Issued: 12/04/96
 Well work Commenced: 08/07/97
 Well work Completed: 11/14/97
 Verbal Plugging _____
 Permission granted on: _____
 Rotary X Cable _____ Rig _____
 Total Depth (feet) 5490'
 Fresh water depths (ft) _____
 Not Reported _____
 Salt water depths (ft) _____
 Not Reported _____
 Is coal being mined in area (Y/N)? N
 Coal Depths (ft): Not Reported

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
14"		39'	
8 5/8"		1707'	50SX
5 1/2"		5335'	800SX
3 1/2"	9.3 lbs, J-55	5484'	75SX

OPEN FLOW DATA

Producing formation ORISKANY STORAGE Pay zone depth (ft) 5408'-5432'
 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.

By: *[Signature]*

Date: 1-15-98

JAN 23 1998

Pulled 5420' of 2 3/8" tubing, installed 5 1/2" X 3 1/2" API 3000 wellhead,
Drilled new 4 3/4" hole 5430' - 5490', ran and cemented 5484' of 3 1/2",
9.3 lb, J-55 tubing using 75SX Class A cement. Perf'd ORISKANY 5408' - 5432'
with 6 SPF. Stimulated ORISKANY with N²-Assist Deltafrac using 427 bbls water,
97 MSCF N², and 24,700 lbs. 20/40 sand.

5420'	2 3/8"	
5430'	4 3/4"	
5490'	4 3/4"	
5484'	3 1/2"	
5408'	3 1/2"	
5432'	3 1/2"	

10/14/88
10/14/88
10/14/88

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

18450 (4) 358

22922

- 1) Well Operator: Columbia¹⁷⁵ Gas Transmission Corp.
- Operator's Well Number: 7110 3) Elevation: 1078
- Well type: (a) Oil ___ / or Gas X / Issued 12/04/96
Expires 12/04/98
- (b) If Gas: Production ___ / Underground Storage X /
Deep X / Shallow ___ /
- Proposed Target Formation(s): Oriskany⁴⁷⁵ Sandstone
- Proposed Total Depth: 5550 feet
- 7) Approximate fresh water strata depths: N/A
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: Install API 3000 wellhead. Drill well
- 12) 100' deeper. Log. Stimulate Oriskany. Install tubing if needed.

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

CASING AND TUBING PROGRAM

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	13 3/8"		42	38'	38'	
Fresh Water	10 3/4"		40.5	1929'	-0-	1467 10 3/4
Coal						
Intermediate	8 5/8"		38	1729'	1729'	1707 8"
Production	5 1/2"		15.5	5325'	5325'	600 sks
Tubing						535 5 1/2
Liners						

PACKERS : Kind None on Drill Stem Completion
Sizes Report Show Pipe
Depths set Report Show Pipe

For Office of Oil and Gas Use Only

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

01/21/96
38

RECEIVED
Environmental Protection
Office of Citizens
Permitting
NOV 18 1996

- 1) Date: 10/29/96
- 2) Operator's well number
COCO- WELL # 7110
- 3) API Well No: 47 - 039 - 01559 - D
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 sheet) _____
Address _____
 - b) Name _____
Address _____
 - c) Name _____
Address _____

- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner (s) with Declaration
Name (see attached sheet) _____
Address _____
 - Name _____
Address _____

6) Inspector Carlos W. Hiviely
Address 223 Pinch Ridge Road
Elkview, WV 25071
Telephone (304) - 965-6069

(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)

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: [Signature]
Its: Storage Engineer / Well Services
Address P. O. Box 1808
St. Albans, WV 25177-1808
Telephone (304) 722-8612

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

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

