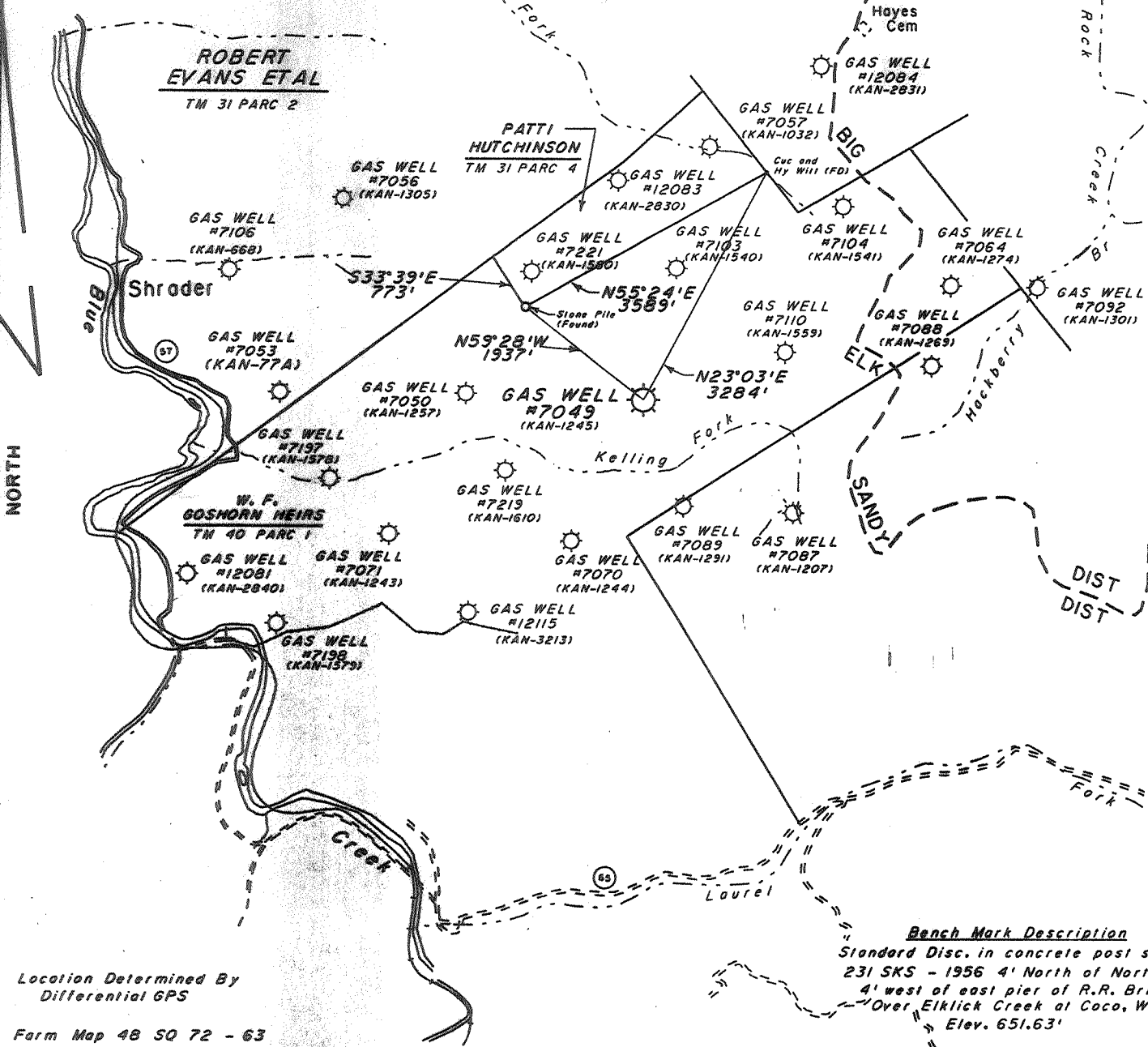


Jamie  
11/21/96

7,000'  
LATITUDE 38° 25' 00"

LONGITUDE 81° 22' 18"



Location Determined By  
Differential GPS

Farm Map 48 50 72 - 63

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

**Bench Mark Description**  
Standard Disc. in concrete post stamped  
231 SKS - 1956 4' North of North rail,  
4' west of east pier of R.R. Bridge  
Over Elklick Creek at Coco, W.V.  
Elev. 651.63'

FILE NO. \_\_\_\_\_  
DRAWING NO. 7049  
SCALE 1"=2000'  
MINIMUM DEGREE OF  
ACCURACY 1:200  
PROVEN SOURCE OF  
ELEVATION USGS BM Stamped  
" 231-SKS-1956"

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) Ray R. Smith  
R.P.E. \_\_\_\_\_ L.L.S. 499

PLACE SEAL HERE

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



DATE OCTOBER 18, 19 96  
OPERATOR'S WELL NO. 7049  
API WELL NO. \_\_\_\_\_

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS," ) PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 1141 WATER SHED KELLING FORK OF BLUE CREEK  
DISTRICT ELK COUNTY KANAWHA  
QUADRANGLE BLUE CREEK, WY COORDINATES LAT: 38° 24' 45" LONG: 81° 23' 57"  
SURFACE OWNER W. F. GOSHORN, HRS. ACREAGE 1161  
OIL & GAS ROYALTY OWNER COLUMBIA GAS TRANS CORP LEASE ACREAGE 455.4  
COAL OWNER W. F. GOSHORN, HRS. LEASE 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  
Drill existing well deeper, well drilled by United Fuel in 1946  
PLUG AND ABANDON  CLEAN OUT AND REPLUG   
TARGET FORMATION Chickany ESTIMATED DEPTH 5575  
WELL OPERATOR COLUMBIA GAS TRANS CORP DESIGNATED AGENT RICHARD L COTY  
ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS PO BOX 1273, CHARLESTON, WV  
25325 - 1273 25325 - 1273

DEC 6 1996

KANAWHA COUNTY NAME PERMIT 224

DEEP WELL

Latitude 38 25

P

J.V.R. Skinner

W.H. Mc Gorkle

R.G. Hubbard

Upper Horse Mt. Cucumber & Swd

Longitude 81 20

EGO GALLATI  
Coal not operated

Stone Pile  
C.O. & Hy.  
pointers.

S 72° 15' E  
2065.

5730

S 32° E  
2627

N 19° 24' E  
1948

N 57° 25' E  
(3996)

5296

Lg. Poplar  
on line.

784

White Oak Fl.

Stk. 2 small  
30. # 2 dead  
Ch pointers.

Fred J. Thabet

0.3 S  
3.65 W

Gashorn, Heirs.

New Location   
Drill Deeper   
Abandonment

5' NW (J-6)

Company	UNITED FUEL GAS CO
Address	CHARLESTON W.VA.
Farm	EGO GALLATI
Tract	Acres 5554 Deed No. 14334
Well (Farm) No.	Serial No. 5730
Elevation (Spirit Level)	<del>1205 BAR</del> 1141
Quadrangle	GLENDENIN - C
County	KANAWHA District EDK
Engineer	W.A. Cunningham
Engineer's Registration No.	659
File No.	74-63 Drawing No.
Date	Aug. 27, 1945 Scale 1" = 660'

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

WELL LOCATION MAP  
FILE NO. KAN-1245

+ 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

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

Permit No. Kan 1245  
Clendenin Quad.

Gas Well  
CASING & TUBING

Company	United Fuel Gas Company		
Address	P.O. Box 1273, Charleston 25, W.Va.	13 3/8	652
Farm	Ego Gallati Acres 455.4	10 1/4	1723
Location	White Oak Fork	8 1/2	2160
Well No.	5730 Elev. <u>1141.27</u> Gr	7	5341
District	Elk Kanawha County		
Surface			
Mineral	U.F. G. Co. P.O. Box 1273, Chas. 25, W.Va.		
Commenced	1-16-46		Coal at 330' 60"
Completed	5-15-46		471' 48"; 547' 48"
Net shot			
Rock Pressure	1440 lbs. 48 hrs.		

Surface	0	14	
Slate	14	145	
Sand	145	243	
Slate	243	265	
Sand	265	330	
Coal	330	335	
Sand	335	452	
Slate	452	471	
Coal	471	475	
Slate	475	495	
Sand	495	519	
Slate	519	547	
Coal	547	551	
Slate	551	562	
Sand	562	581	
Slate & Shells	581	985	
Sand	985	1517	
Red Rock	1517	1537	
Lime	1537	1635	
<del>Pencil Cave</del>	1635	1643	
Lime	1643	1680	
Slate	1680	1685	
Lime Big	1685	1872	Gas 1775 show
Injun Sand	1872	1940	
Weir Sand	1940	2115	
Slate	2115	2135	
Lime	2135	2165	
Slate & Shells	2165	4925	
Brown Shale	4925	5200	
White Shale	5200	5250	
Brown Shale	5250	5326	
Corniferous Lime	5326	5448	
Oriskany Sand	5448	5473	Gas 5453 & 5454
TOTAL DEPTH		5473	Gas 5461, 5467, 5471, 5473

RECEIVED  
WV Division of  
Environmental Protection

WR-35

03-Dec-96  
API # 47- 39-01245-D

JAN 21 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: BROWN, JAMES F. III Operator Well No.: COCO-A 7049

LOCATION: Elevation: 1,141.00 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA  
Latitude: 1500 Feet South of 38 Deg. 25Min. 0 Sec.  
Longitude: 7000 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 HIVELEY  
Permit Issued: 12/04/96  
Well work Commenced: 09/08/97  
Well work Completed: 10/07/97  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary Cable Rig  
Total Depth (feet) 5473'  
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.
13 3/8"		652'	
10 3/4"		1723'	
8 5/8"		2160'	
7"		5347'	135SX
4 1/2"		5418'	50SX

OPEN FLOW DATA

Producing formation ORISKANY STORAGE Pay zone depth (ft) 5448'-5473'  
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

Replace top joint of 4 1/2" casing and installed new 7" X 4 1/2" API 3000 wellhead.  
Stimulated, ORISKANY with N<sup>2</sup>-Assist Deltafrac treatment using 388 bbls water,  
164 MSCF N<sup>2</sup>, and 22,400 lbs., 20/40 sand.

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

16450 (4) 288

1) Well Operator: Columbia Gas Transmission Corp.

Operator's Well Number: 7049 3) Elevation: 1141

Well type: (a) Oil \_\_\_ / or Gas X /

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

Proposed Target Formation(s): Oriskany<sup>475</sup> Sandstone

Proposed Total Depth: 5575 feet

7) Approximate fresh water strata depths: N/A

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: 330'-335', 471'-475', 547'-551'

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

11) Proposed Well Work: Install API 3000 Wellhead. Drill well 100' deeper. Log. Stimulate Oriskany. Install tubing if needed.

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"		48	656'	656'	
Fresh Water	10 3/4"		32.75	1737'	1737'	
Coal	8 5/8"		28	2174'	2174'	
Intermediate	7"		24	5347'	5347'	135 sks
Production	4 1/2"	J-55	11.6	5418'	5418'	50 sks
Tubing						38CSR16M1
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

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)

22916

Issued 12/04/96  
expired 12/04/99

RECEIVED  
Environmental Protection  
Division of  
Office of Oil & Gas  
Permitting  
NOV 18 1998

02/16/2005  
3A

13

**RECEIVED**  
WV Division of  
Environmental Protection  
NOV 18 1996  
Office of  
Permitting

- 1) Date: 10/25/96  
2) Operator's well number  
COCO-A WELL #07049  
3) API Well No: 47 - 039 - 01245 - 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**

- |  |  |
|--|--|
| <p>4) Surface Owner(s) to be served:<br/>a) Name <u>James F. Brown</u><br/>Address <u>One Valley Square</u><br/><u>Charleston, WV</u><br/>b) Name <u>Bank One</u><br/>Address <u>Charleston, WV</u><br/>c) Name <u>Dorothy D. Alexander</u><br/>Address <u>P. O. Box 745</u><br/><u>St. Albans, WV 25177</u></p> | <p>5) (a) Coal Operator:<br/>Name _____<br/>Address _____<br/>(b) Coal Owner (s) with Declaration<br/>Name <u>Same as Surface Owners</u><br/>Address _____<br/>(c) Coal Lessee with Declaration<br/>Name _____<br/>Address _____</p> |
| <p>6) Inspector <u>Carlos W. Hiviely</u><br/>Address <u>223 Pinch Ridge Road</u><br/><u>Elkview, WV 25071</u><br/>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 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)

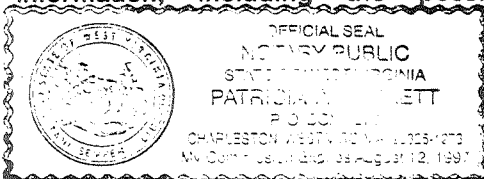
I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

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. Turbett Notary Public  
My commission expires August 12, 1997