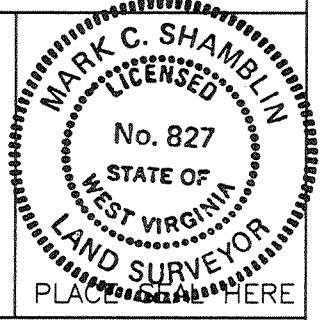


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No 96X208
 DRAWING No. W-7225
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 200
 PROVEN SOURCE OF ELEVATION EXISTING WELL

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 MINES.

(SIGNED) [Signature]



DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL & GAS
 #10 McJUNKIN ROAD
 NITRO, WEST VIRGINIA 25143-2506

DATE NOVEMBER 26, 19 96
 OPERATOR'S WELL No. W-7225
 API WELL No. 47

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

LOCATION: ELEVATION 729.6 WATER SHED BLUE CREEK
 DISTRICT ELK COUNTY KANAWHA
 QUADRANGLE BLUE CREEK, 7.5' COORDINATES Lat: 38°-24'-32" Long: 81°-25'-12"

SURFACE OWNER DAVID TURNER ACREAGE 6 AC 101 POLES
 OIL & GAS ROYALTY OWNER KANAWHA CRUDE OIL CO. LEASE ACREAGE 914 AC
 LEASE No. 881

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Drill existing storage well deeper. STORAGE RECONDITION Drilled 1952

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION Crustkens ESTIMATED DEPTH 5130'
 WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP. DESIGNATED AGENT RICHARD L. COTY
 ADDRESS P.O. 1273 CHARLESTON, WV 25325 ADDRESS P.O. BOX 1723 CHARLESTON, WV 25325

DEEP WELL



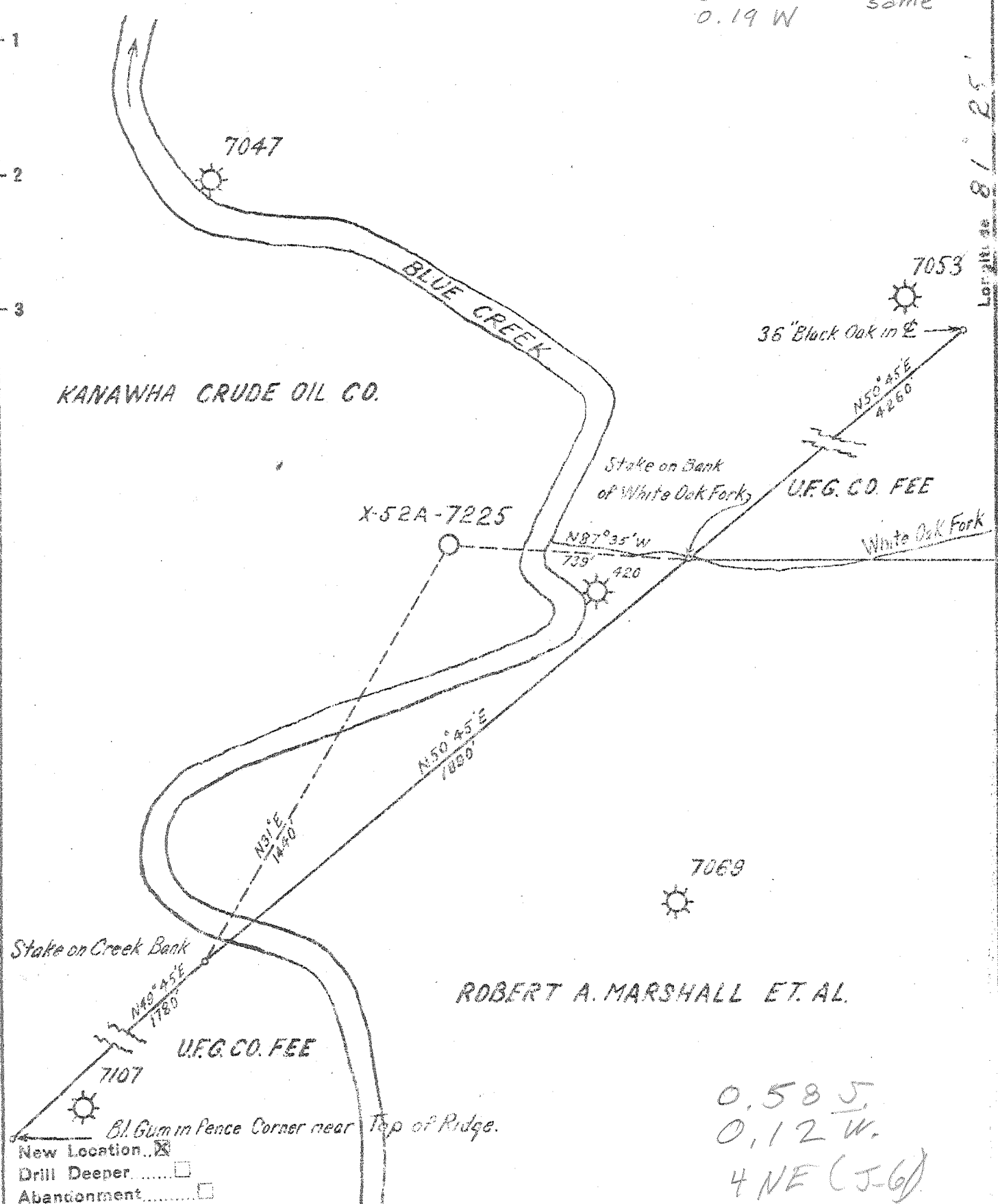
JAN 21 1997

Latitude 38 25

7.5' 0415 topo loc 15' 102 +

0.52 S
0.19 W same

Longitude 81 25'



Stake on Creek Bank
 Stake on Bank of White Oak Fork
 U.F.G. CO. FEE
 U.F.G. CO. FEE
 Bl Gum in Fence Corner near Top of Ridge.
 New Location
 Drill Deeper
 Abandonment

0.58 S
 0.12 W.
 4 NE (J-6)

Company UNITED FUEL GAS CO.
 Address CHARLESTON W. VA.
 Farm KANAWHA CRUDE OIL CO.
 Tract _____ Acres 914 Lease No. 881
 Well (Farm) No. 30 Serial No. X52A-7225
 Elevation (Spirit Level) 729.60
 Quadrangle CLENDENIN - W C
 County KANAWHA District EIK
 Engineer Robert A. Marshall
 Engineer's Registration No. 2529
 File No. 72-63 Drawing No. _____
 Date 3-19-52 Scale 1"=400'

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

WELL LOCATION MAP
 FILE NO. KAN-1583

+ 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.

4-0-2-15 Orisk storage Deep Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Glendennin

WELL RECORD

Permit No. KAN-1583

Oil or Gas Well Gas
(KIND)

Company UNITED FUEL GAS COMPANY
Address P. O. Box 1273, Charleston 25, W. Va.
Farm Kanawha Crude Oil Co. #30 Acres 914
Location (waters) White Oak Fork
Well No. X-52-A-7225 Elev. 729.60
District Elk County Kanawha
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Kanawha Crude Oil Co.
Chas. Nat. Bank Address Box 1113, Charleston 59/16
Drilling commenced 7-9-52
Drilling completed 11-12-52
Date Shot Not shot From _____ To _____
With _____
Open Flow 10ths Water in _____ Inch
42 /10ths Merc. in 7" Inch
Volume 10,314,000 Cu. Ft.
Rock Pressure 1450 lbs. 48 hrs.
Oil _____ bbls. 1st 24 hrs.
Fresh water _____ feet
Salt water 659' feet

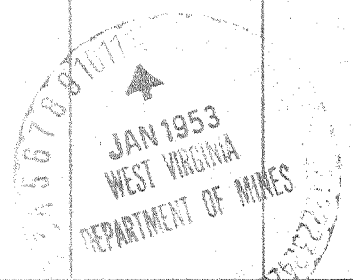
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
18			
12-3/8		452'	
10	Pulled	1322'	Size of
8 5/8"		1789'	Depth set
6 7"		4921'	
2			Perf. top
2			Perf. bottom
Line used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 393 FEET 12 INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	12	Salt water	659'	2 bailers per hour
Slate			12	65			
Sand			65	160	Hole full water	760'	
Slate			160	300			
Sand			300	393	Show gas	1047'	
Coal			393	394			
Sand			394	506	Gas	1361-1364'	30/10 W 3" 520 M
Slate			506	575			
Sand			575	1106	Show gas	1524'	
Gray Slate			1106	1110	Show gas	1565'	
Lime			1110	1125	Show gas	1605'	
Red Rock			1125	1131	Show gas	1703'	
Red Lime			1131	1141	Show gas	1709'	
Slate & Shells			1141	1149			
Lime			1149	1208	Show gas	4766'	
Maxon Sand			1208	1241			
Slate			1241	1244	Gas	5013'	10/10 W 7" 22# 1,364 M
Little Lime			1244	1283	Gas	5018'	24/10 Merc. 7" 22# 7,797 M
Slate			1283	1287	Gas	5021'	39/10 Merc. 7" 22# 9,941 M
Lime			1287	1293	Gas	5024'	42/10 Merc. 7" 22# 10,314 M
Pencil Cave			1293	1298	NOT SHOT		
Lime			1298	1458			
Slate			1458	1465	FINAL OPEN FLOW -	10,314 M - Oriskany	
Red Injun			1465	1488	48 Hr. R.P.	1450#	
Weir Sand			1488	1725			
Slate & Shells			1725	3060			
Brown Shale			3060	3160	Shut in	11-12-52	in 2" tubing.
Slate & Shells			3160	4395			
Brown Shale			4395	4780			
White Slate			4780	4820			
Brown Shale			4820	4891			
Corniferous			4891	5002			
Oriskany Sand			5002	5027			
Total depth			5027'				

FEB 1 1953

(Over)



KANAWHA CRUDE OIL Co. No. 30 (X-52-A-7225) - U. F. G. Co. - KAN-1583

RECEIVED
WV Division of
Environmental Protection

JAN 21 1998

Permitting
Office of Oil & Gas

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

Well Operator's Report of Well Work

Farm name: PEAL, JAMES A.

Operator Well No.: 7225

LOCATION: Elevation: 729.60 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA
Latitude: 2700 Feet South of 38 Deg. 25Min. 0 Sec.
Longitude 960 Feet West of 81 Deg. 25 Min. 0 Sec.

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

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY
Permit Issued: 01/13/97
Well work Commenced: 10/02/97
Well work Completed: 10/25/97
Verbal Plugging _____
Permission granted on: _____
Rotary _____ Cable _____ Rig _____
Total Depth (feet) 5027'
Fresh water depths (ft) _____
Not Reported _____
Salt water depths (ft) _____
659', 760'
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"		452'	
8 5/8"		1789'	50SX
7"		4922'	600SX
4 1/2"		4955'	50SX

OPEN FLOW DATA

Producing formation ORISKANY STORAGE Pay zone depth (ft) 5002'-5027'
 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

Replaced top joint of 4 1/2" casing and installed new 7" X 4 1/2" API 3000 wellhead.
Stimulated ORISKANY with N₂-Assist Deltafrac treatment using 487 bbls water,
158 MSCF N₂, and 25,800 lbs 20/40 sand.

DATE	TIME	DEPTH	TEMP	PRESS	FLOW	STATUS
10/15/11	08:00	1000	100	1000	100	OK
10/15/11	08:15	1050	105	1050	105	OK
10/15/11	08:30	1100	110	1100	110	OK
10/15/11	08:45	1150	115	1150	115	OK
10/15/11	09:00	1200	120	1200	120	OK
10/15/11	09:15	1250	125	1250	125	OK
10/15/11	09:30	1300	130	1300	130	OK
10/15/11	09:45	1350	135	1350	135	OK
10/15/11	10:00	1400	140	1400	140	OK
10/15/11	10:15	1450	145	1450	145	OK
10/15/11	10:30	1500	150	1500	150	OK
10/15/11	10:45	1550	155	1550	155	OK
10/15/11	11:00	1600	160	1600	160	OK
10/15/11	11:15	1650	165	1650	165	OK
10/15/11	11:30	1700	170	1700	170	OK
10/15/11	11:45	1750	175	1750	175	OK
10/15/11	12:00	1800	180	1800	180	OK
10/15/11	12:15	1850	185	1850	185	OK
10/15/11	12:30	1900	190	1900	190	OK
10/15/11	12:45	1950	195	1950	195	OK
10/15/11	13:00	2000	200	2000	200	OK
10/15/11	13:15	2050	205	2050	205	OK
10/15/11	13:30	2100	210	2100	210	OK
10/15/11	13:45	2150	215	2150	215	OK
10/15/11	14:00	2200	220	2200	220	OK
10/15/11	14:15	2250	225	2250	225	OK
10/15/11	14:30	2300	230	2300	230	OK
10/15/11	14:45	2350	235	2350	235	OK
10/15/11	15:00	2400	240	2400	240	OK
10/15/11	15:15	2450	245	2450	245	OK
10/15/11	15:30	2500	250	2500	250	OK
10/15/11	15:45	2550	255	2550	255	OK
10/15/11	16:00	2600	260	2600	260	OK
10/15/11	16:15	2650	265	2650	265	OK
10/15/11	16:30	2700	270	2700	270	OK
10/15/11	16:45	2750	275	2750	275	OK
10/15/11	17:00	2800	280	2800	280	OK
10/15/11	17:15	2850	285	2850	285	OK
10/15/11	17:30	2900	290	2900	290	OK
10/15/11	17:45	2950	295	2950	295	OK
10/15/11	18:00	3000	300	3000	300	OK
10/15/11	18:15	3050	305	3050	305	OK
10/15/11	18:30	3100	310	3100	310	OK
10/15/11	18:45	3150	315	3150	315	OK
10/15/11	19:00	3200	320	3200	320	OK
10/15/11	19:15	3250	325	3250	325	OK
10/15/11	19:30	3300	330	3300	330	OK
10/15/11	19:45	3350	335	3350	335	OK
10/15/11	20:00	3400	340	3400	340	OK
10/15/11	20:15	3450	345	3450	345	OK
10/15/11	20:30	3500	350	3500	350	OK
10/15/11	20:45	3550	355	3550	355	OK
10/15/11	21:00	3600	360	3600	360	OK
10/15/11	21:15	3650	365	3650	365	OK
10/15/11	21:30	3700	370	3700	370	OK
10/15/11	21:45	3750	375	3750	375	OK
10/15/11	22:00	3800	380	3800	380	OK
10/15/11	22:15	3850	385	3850	385	OK
10/15/11	22:30	3900	390	3900	390	OK
10/15/11	22:45	3950	395	3950	395	OK
10/15/11	23:00	4000	400	4000	400	OK
10/15/11	23:15	4050	405	4050	405	OK
10/15/11	23:30	4100	410	4100	410	OK
10/15/11	23:45	4150	415	4150	415	OK
10/15/11	00:00	4200	420	4200	420	OK

[Handwritten signature]

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

039-1583-10

16450

(4) 258

23046

- 1) Well Operator: Columbia Gas¹⁷⁵ Transmission Corp.
- 2) Operator's Well Number: 7225 3) Elevation: 729
- Well type: (a) Oil / or Gas X / Issued 01/13/97
(b) If Gas: Production / Underground Storage X / Expires 01/13/99
Deep X / Shallow
- Proposed Target Formation(s): Oriskany⁴⁷⁵ Sandstone
- Proposed Total Depth: 5130' feet
- Approximate fresh water strata depths: N/A
- 8) Approximate salt water depths: 659' & 760'
- 9) Approximate coal seam depths: 393' - 394'
- 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)

RECEIVED
Division of Environmental Protection
DEC 27 1998
Permitting Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						
Fresh Water	13 3/8"		48	452'	452' ✓	
Coal	10 7/4"		40.5	1376'	-0-	
Intermediate	8 5/8"		24	1789'	1789' ✓	50 sks
Int. Production	7"		23	4922'	4922' ✓	600 sks
Prod. Tubing	4 1/2"	J-55	11.6	4955'	4955' ✓	50 sks
Liners						3805R/4/1.1

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)

0017760

File Copy

RECEIVED
WV DEPARTMENT
OF ENVIRONMENTAL PROTECTION
DEC 27 1996
Office Permits

- 1) Date: 10/29/96
- 2) Operator's well number
COCO-A WELL # 7225
- 3) API Well No: 47 - 039 - 01583 - D 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 James A. Peal
Address 1546 Kanawha Blvd.
Charleston, WV 25311
 - b) Name _____
Address _____
 - c) Name _____
Address _____
- 6) Inspector Carlos W. Hiviely
Address 223 Pinch Ridge Road
Elkview, WV 25071
Telephone (304) - 965-6069

- 5) (a) Coal Operator:
 - Name _____
Address _____
- (b) Coal Owner (s) with Declaration
Name Robert S. Evans, et. al.
Address #8 Seneca Drive
Elkview, WV 25071
- Name _____
Address _____
- (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:

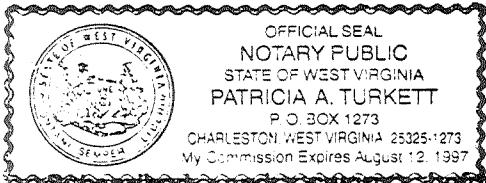
- Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

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

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

*Copy of lease
in file
office*