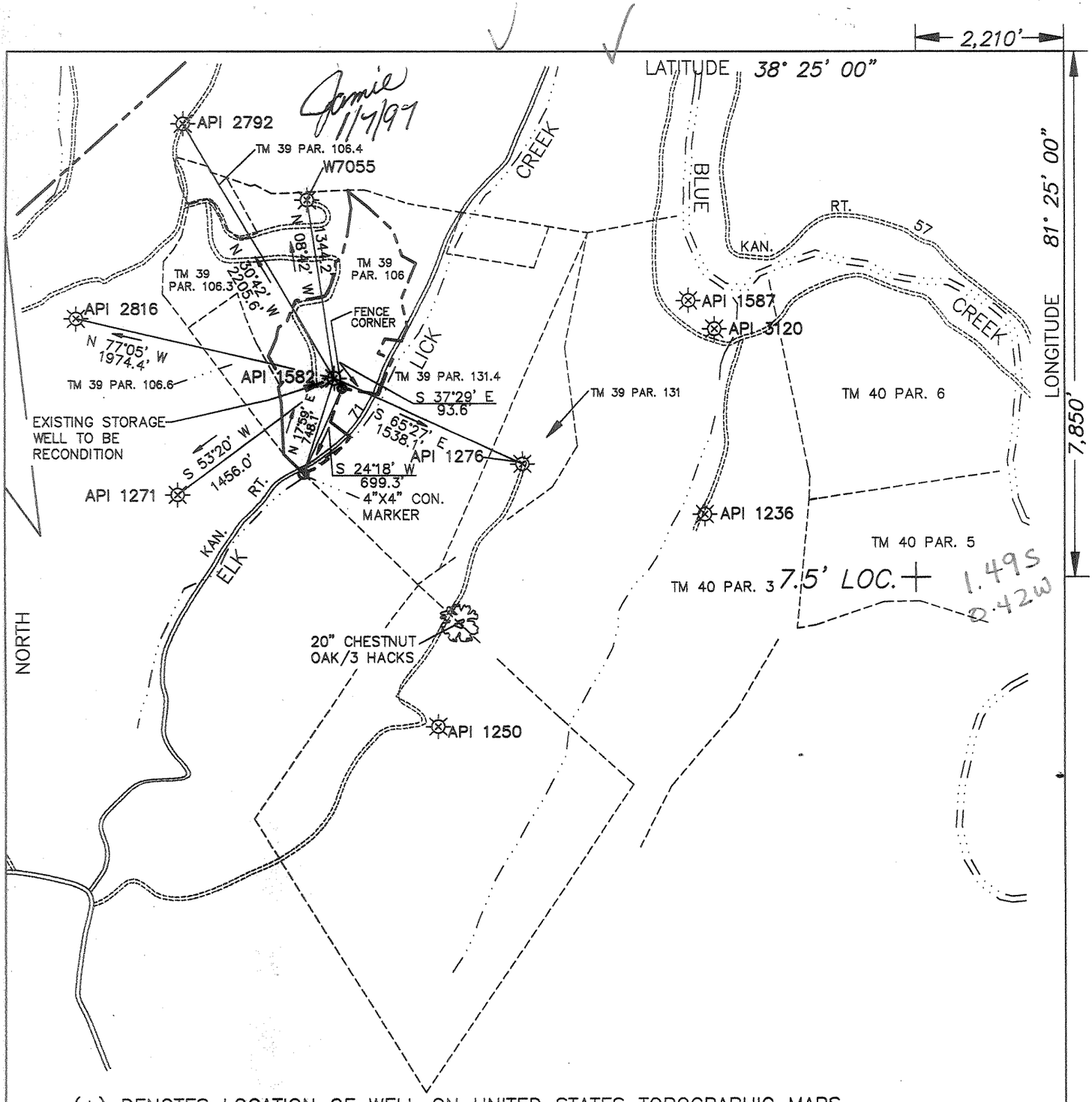


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No 96X208
DRAWING No. W-7199
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) Mark C. Shamblin
.E R.P.S. 827

MARK C. SHAMBLIN REGISTERED No. 827 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

PLACE SEAL HERE

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

DATE NOVEMBER 19, 19 96
OPERATOR'S WELL No. W-7199
API WELL No. 47 — 039 — 01582 D
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 875.14 WATER SHED BLUE CREEK
DISTRICT ELK COUNTY KANAWHA
QUADRANGLE BLUE CREEK, 7.5' COORDINATES Lat: 38°-23'-42" Long: 81°-25'-27"

SURFACE OWNER LAWRENCE DAVIS ACREAGE 25 AC
OIL & GAS ROYALTY OWNER A. D. WELCH ETAL LEASE ACREAGE 106 AC
LEASE No. 4681

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 storage well deeper drilled in 1952

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

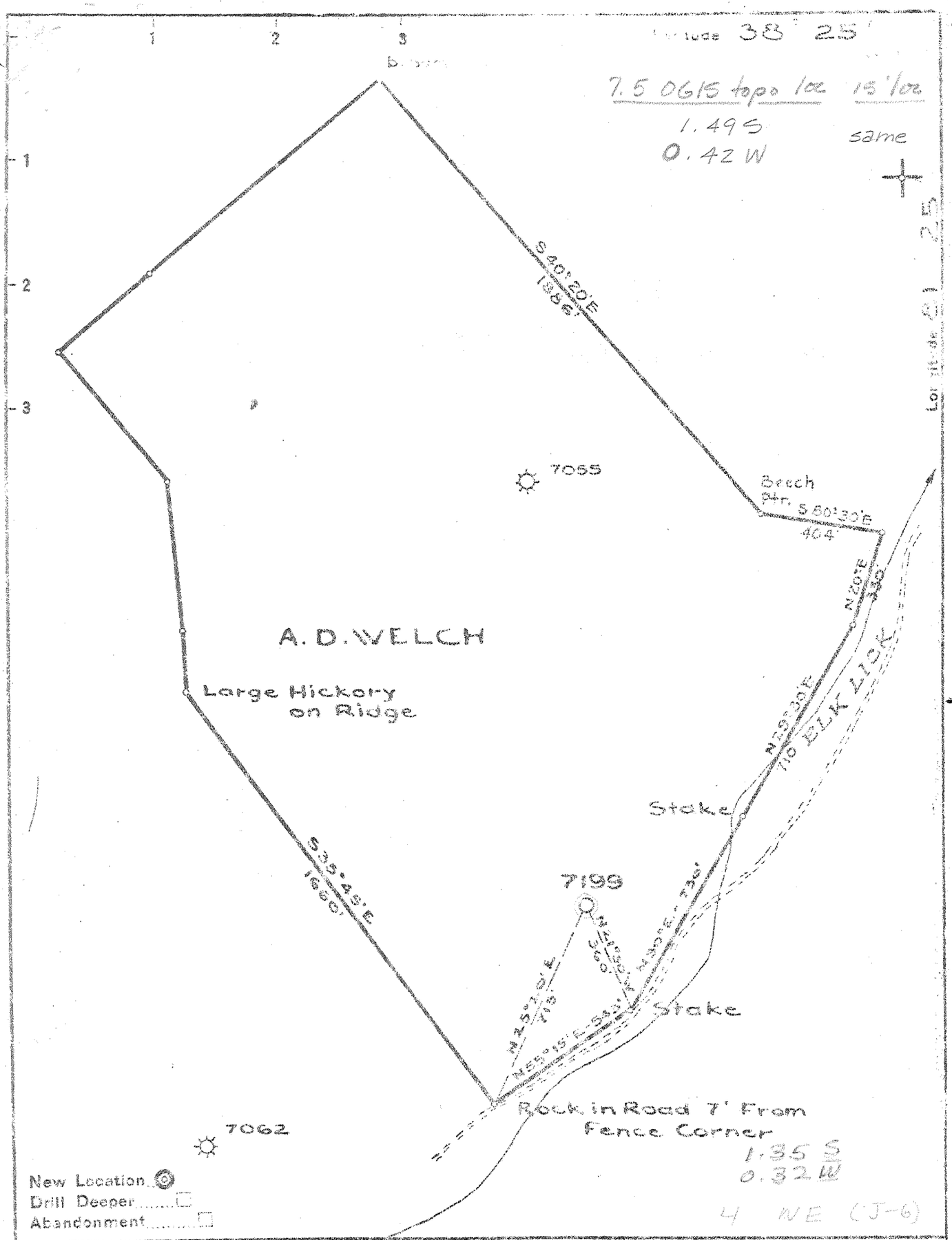
TARGET FORMATION Oriskany ESTIMATED DEPTH 5230'

JAN 21 1997

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

FORM IV-6 (8-78)



Company UNITED FUEL GAS

Address CHARLESTON, W. VA.

Farm A. D. WELCH

Tract _____ Acres 106 Lease No. 4681 K-52A.

Well (Farm) No. _____ Serial No. 7199

Elevation (Spirit Level) 875.14

Quadrangle CLENDENIN — WC

County KANAWHA District ELK

Engineer Lyburn R. Ferrell

Engineer's Registration No. 2529

File No. 72-61 Drawing No. _____

Date FEB. 14-52 Scale 1" = 400'

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

WELL LOCATION MAP

FILE NO. KAN-1582

+ 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.

Orig'l Storage Deep Well

Big Lime 1428 – 1565

Corniferous Lm. 5008 – 5107

Oriskany 5107 – 5129

TD 5129'

Vol. 5,280,000 cu. ft. in. Orisk

Comp. Aug. 22, 1952

5008	5107
875	875
4133	4232

Clendenin

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. KAN-1582 Oil or Gas Well Gas (KIND)

Company United Fuel Gas Company
Address P. O. Box 1273, Charleston 25, W.Va.
Farm A. D. Welch Acres 106
Location (waters) Elk Lick Creek
Well No. 7199 Elev. 875.14
District Elk County Kanawha
The surface of tract is owned in fee by
Address
Mineral rights are owned by A. D. Welch
Coco, West Virginia Address
Drilling commenced 4-10-52
Drilling completed 8-22-52
Date Shot Not shot From To
With
Open Flow /10ths Water in Inch
11/10ths Merc. in 7" Inch
Volume 5,280 M Cu. Ft.
Rock Pressure 1360 lbs. 48 hrs.
Oil bbls., 1st 24 hrs.
Fresh water 200 feet 795' feet
Salt water feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13-3/8"		576'	
10-3/4"	Pulled-	1231'	Size of
8 5/8"		1455'	
7"		1839'	Depth set
5		5029'	
3			Perf. top
2		5129'	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED SIZE No. Ft. Date

COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			0	75			
Slate			75	160			
Sand			160	183			
Slate			183	195			
Sand			195	270			
Slate			270	275			
Sand			275	330			
Slate			330	370	Water 200'		2- 16" bailers per hour
Sand			370	400			
Slate			400	425	Water 795'		1 bailer per hour
Sand			425	465			
Slate			465	475	Water 818'		3- 13" bailers per hr.
Sand			475	498			
Black Slate			498	508	Water 835'		hole full
Slate & Shells			508	525			
Sand			525	570	Water 1211-1220'		
Slate			570	595			
Sandy Lime			595	647	Hole full water 1491-1499'		
Slate & Shells			647	674			
Sand			684	896			
Sandy Lime			896	910	Show gas 1565'		
Slate			910	937			
Sand			937	1223	Gas 5118-5120'		
Lime			1223	1241			
Red Lime & Blue Shells			1241	1337	Gas 5125-5127' 11/10 Merc. 7" 5,280 M		
Maxon Sand			1337	1358			
Slate			1358	1367			
Little Lime			1367	1418			
Pencil Slate			1418	1428	NOT SHOT		
Big Lime			1428	1565			
Gray Keener Sand			1565	1608	FINAL OPEN FLOW- 5,280 M - Oriskany		
Slate			1608	1612	48 Hr. R.P. 1360#		
Red Injun Sand			1612	1630			
Lime			1630	1640			
Squaw Sand			1640	1702	Shut in 8-22-52 in 2" tubing.		
Slate			1702	1714			
Weir Sand			1714	1822			
Black Lime			1822	1850			
Shells			1850	2355			

(Over)

A.D. WELCH No. 7199 — U.F.G. Co. — 12 23 937 KAN-1582

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
White Slate			2355	2850			
Slate & Shells			2850	3835			
Brown Shale			3835	3870			
Slate & Shells			3870	3940			
White Slate			3940	4500			
Brown Shale			4500	4543			
Slate & Shells			4543	4638			
Brown Shale			4638	4910			
Slate			4910	4948			
Black Slate			4948	5008			
Corniferous Lime			5008	5107			
Oriskany Sand			5107				
Total depth			5129'				

Date January 7, 19 53

APPROVED UNITED FUEL GAS COMPANY, Owner

By [illegible]
(Title)

WR-35

RECEIVED
WV Division of
Environmental Protection

07-Jan-97
API # 47- 39-01582 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: DAVIS, LAWRENCE & MARTHA Operator Well No.: 7199

LOCATION: Elevation: 875.14 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA
Latitude: 7850 Feet South of 38 Deg. 25Min. 0 Sec.
Longitude 2210 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: 10-05-97
Well work Completed: 12-30-97
Verbal Plugging
Permission granted on: _____
Rotary _____ Cable _____ Rig
Total Depth (feet) 5129'
Fresh water depths (ft) 200'

Salt water depths (ft)
795', 818', 835', 1211', 1220'
Is coal being mined in area (Y/N)? No
Coal Depths (ft): Not reported

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"		570'	
8 5/8"		1455'	
7"		1839'	185 SX
5 1/2"		5029'	
2 3/8"		5001'	

OPEN FLOW DATA

Producing formation ORISKANY STORAGE Pay zone depth (ft) 5107' - 5129
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 5118' of 2 3/8" tubing, installed new 7" x 5 1/2" API 3000 wellhead, stimulated ORISKANY with N2-assist Deltafrac using 446 bbls water, 119 MSCF N2, and 30,300 lbs 20/40 sand, and ran 5001' of 2 3/8" tubing.

FORM WW-2B 039-1582-DP Page___of_____

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

1) Well Operator: Columbia Gas Transmission Corp. 175 10450 (4) 25P

23045

2) Operator's Well Number: 7199 3) Elevation: 875

Well type: (a) Oil___/ or Gas X/ Issued 01/13/97 Expires 01/13/99

(b) If Gas: Production___/ Underground Storage X/
Deep X/ Shallow___/

Proposed Target Formation(s): Oriskany Sandstone 425

RECEIVED Division of Environmental Protection DEC 27 1996 Permitting Office of Oil & Gas

6) Proposed Total Depth: 5230 feet

7) Approximate fresh water strata depths: 200'

8) Approximate salt water depths: 795', 818', 835', 1211'-1220', 1491'- 1499'

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 100' deeper. Log. Stimulate Oriskany. Install tubing if needed.

12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	FOOTAGE INTERVALS For drilling	Left in well	CEMENT Fill-up (cu. ft.)
Conductor	13 3/8"		54	570'	570'	576'
Fresh Water	10 3/4"		40	1231'	-0-	Existing from well Records
Coal	8 5/8"		24	1455'	1455'	✓
Intermediate	7"		23	1839'	1839'	185 sks
Production	5 1/2"		15.5	5129'	5129'	5029 + 100 = 5129'
Tubing	2 3/8"		4.6	5129'	5129'	
Liners			C.H. 10-23-96		3905/8 11.1	

PACKERS : Kind
Sizes
Depths set

001 7176 0 #2

For Office of Oil and Gas Use Only

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

|__| Plat |✓| WW-9 |✓| WW-2B |✓| Bond Blanket (Type) |✓| Agent

Page 1 of__
Form WW2 - A
(6/94)
File Copy

RECEIVED
W/ Division of
Environmental Protection
DEC 27 1996
Permitting
Office of Oil & Gas

1) Date: 10/29/96
2) Operator's well number
COCO- WELL # 7199
3) API Well No: 47 - 039 - 01582 -DD
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 Lawrence A. & Martha A. Davis
Address General Delivery
Quick, WV 25045
b) Name
Address
c) Name
Address

5) (a) Coal Operator:
Name
Address

(b) Coal Owner (s) with Declaration
Name James M. Halstead
Address 414 Kevin Drive
Sandusky, OH 44870
Name
Address

(c) Coal Lessee with Declaration
Name
Address

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

Copy of Lease in Kan City Office.

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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
PATRICIA A. TURKETT
P.O. BOX 1273
CHARLESTON, WEST VIRGINIA 25325-1273
My Commission Expires August 12, 1997

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