

FILE No 96X208
 DRAWING No. W-7045
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 : 200
 PROVEN SOURCE OF ELEVATION EXISTING WELL
 API # 1188

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]
 R.P.E. _____ R.P.S. 827

MARK C. SHAMBLIN
 REGISTERED
 No. 027
 STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR
 PLACE SEAL HERE

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



DATE NOVEMBER 19, 19 96
 OPERATOR'S WELL No. W-7045
 API WELL No. Formerly well no. 5593
47 039 01188
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1009.93 WATER SHED BLUE CREEK
 DISTRICT ELK COUNTY KANAWHA
 QUADRANGLE BLUE CREEK, 7.5' COORDINATES Lat: 38°-24'-26" Long: 81°-25'-38"

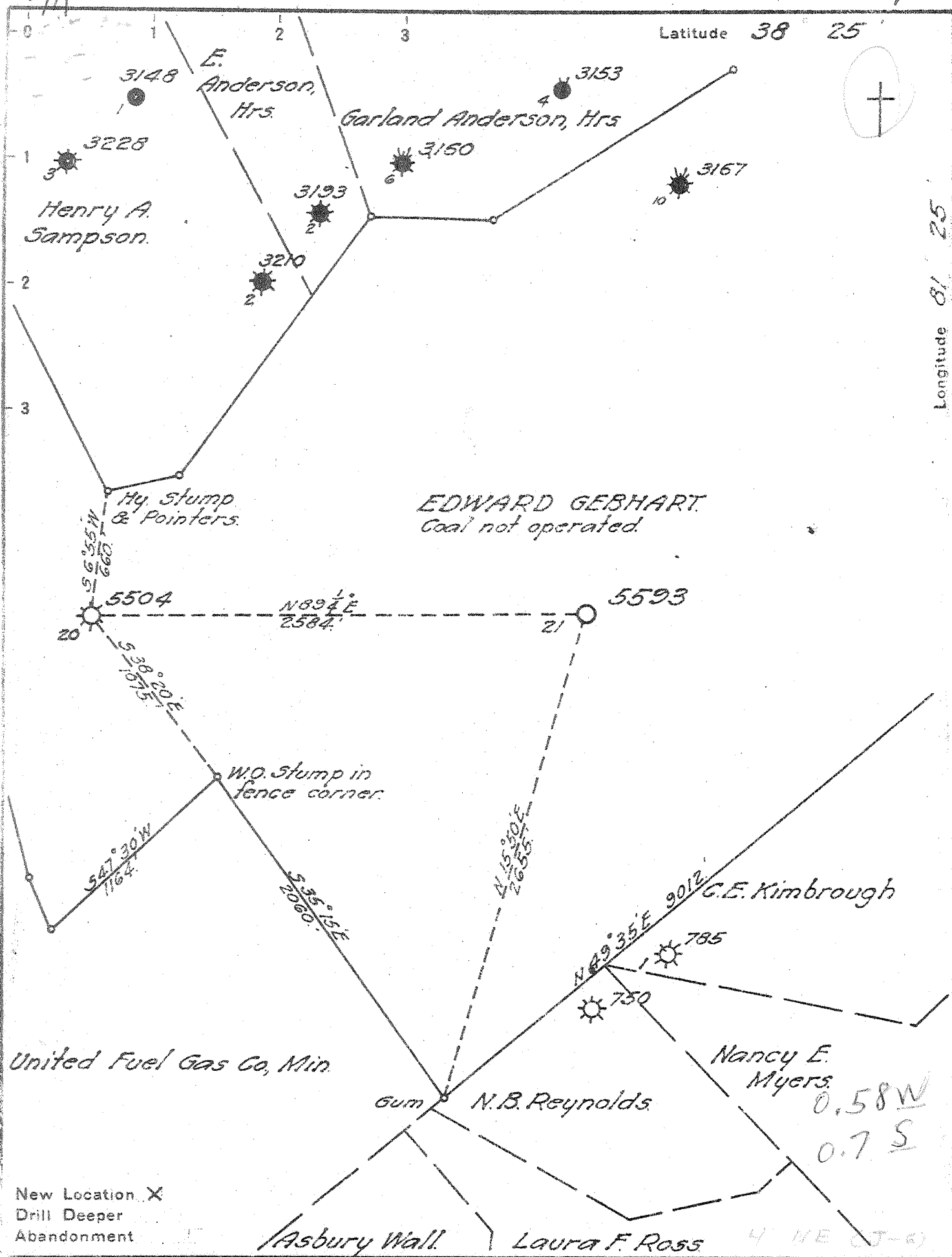
SURFACE OWNER PAULINE BISHOP ACREAGE 102 AC
 OIL & GAS ROYALTY OWNER EDWARD GEBHART LEASE ACREAGE 914 AC
 LEASE No. 881

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Well drilled at an 1945 to 5300'
Drill existing storage well 50' deeper & clean out. by United Fuel. STORAGE RECONDITION

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Cooking ESTIMATED DEPTH 5350'
 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

FORM IV-6 (8-78)

MAR 14 1997



New Location X
 Drill Deeper
 Abandonment

Company UNITED FUEL GAS CO
 Address CHARLESTON W.VA.
 Farm EDWARD GEBHART
 Tract _____ Acres 900 Lease No. 881
 Well (Farm) No. 21 Serial No. 5593
 Elevation (Spirit Level) 1009.93
 Quadrangle CLENDENIN - WC
 County KANAWHA District ECK
 Engineer A. Cunningham
 Engineer's Registration No. 659
 File No. 72-63 Drawing No. _____
 Date Jan. 12, 1945 Scale 1" = 660'

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

WELL LOCATION MAP
 FILE NO: KAN-1188

+ 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

6-6 216 Deep Well,

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

Permit No. Kan 1188
Clendonin Quad.
Company
Address
Farm
Location
Well No.
District
Surface
Mineral

Commenced
Completed
Volume
Fresh Water

United Fuel Gas Company
Box 1273, Charleston 25, W. Va.
Edward Gobhart #21 Acres 900 A
Blue Creek
5593 Elev. 1009.93 GR
Elk Kanawha County

Gas Well
CASING & TUBING

13 3/8 633 pld.
10 1/2 1602 1602
8 5/8 2033 2033
7 5187 5187
2 5300 5300

Kanawha Crude Oil Co.,
Charleston, W. Va.
3-16-45
8-3-45
Gas Well
685 H.F.

Coal at 185' 36"
235' 36"; 535' 24"

Surface	0	13
Sand	18	117
Coal	117	120 ✓
Slate	120	142
Sand	142	182
Slate	182	188
Slate	188	200
Sand	200	267
Slate	267	285
Coal	285	288 ✓
Slate	288	346
Sand	346	442
Slate	442	530
Sand	530	535
Coal	535	537 ✓
Slate	537	560
Sand	560	570
Slate	570	575
Coal	575	578 ✓
Sand	578	650
Slate	650	683
Sand	683	800
Slate	800	853
Sand	853	1404
Slate	1404	1411
Red Rock	1411	1449
Slate	1449	1477
Red Rock	1477	1487
Slate & Shells	1487	1527
Maxon Sand	1527	1536
Slate	1536	1545
Little Lime	1545	1567
Slate	1567	1595
Big Lime	1595	1750
Sand Injun	1750	1800
Slate	1800	1808
Weir	1808	2010
Slate	2010	2030
Shell	2030	2185
Brown Shale	2185	2190
Berea Grit	2190	2195
Slate & Shells	2195	3332
Brown Shale	3332	3380
White Slate	3380	3878
Brown Shale	3878	4062
White Slate	4062	4891
Brown Shale	4891	5021
White Slate	5021	5090
Brown Shale	5090	5140
Coffee Shale	5140	5175
Corniferous	5175	5274
Oriskany Sand	5274	5300
TOTAL DEPTH	5300	

Gas 683 show

Gas 1672
Gas 1810
1884

*UFG Production
Reports Production
from Blime & Weir
as well as Oriskany*

Gas 5288-5300

RECEIVED

WR-25 WV Division of Environmental Protection

07-Mar-97
API # 47- 39-01188 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: BISHOP, ANNA F.

Operator Well No.: 7045

LOCATION: Elevation: 1,009.93 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA
Latitude: 4600 Feet South of 38 Deg. 25Min. 0 Sec.
Longitude 3200 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: 03/10/97
Well work Commenced: 10/06/97
Well work Completed: 10/30/97
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 5370'
Fresh water depths (ft) _____
Not Reported

Salt water depths (ft) _____
685'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10 3/4"		1621'	
8 5/8"		2072'	166SX
7"		5209'	232SX
4 1/2"	11.6 lb, N-80	5360'	75SX

OPEN FLOW DATA

Producing formation ORISKANY STORAGE Pay zone depth (ft) 5286'-5303'
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 5287' of 2 3/8" tubing, drilled new 6 1/8" hole
5298'-5370'. Ran 5360' of 4 1/2", 11/6 lb, N-80 casing
and cemented with 75SX Class A cement. Perf'd ORISKANY
5286'-5303' with 6 SPF. Stimulated ORISKANY with N2-Assist
Deltafrac using 442 bbls water, 132 MSCF N2, and 31,300 lbs. 20/40
sand.

02125

039-1188-9D

Issued 03/10/97
Expires 03/10/99

FORM WW-2B

Page 1 of 1

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

- 1) Well Operator: COLUMBIA GAS TRANSMISSION CORP. 10450 ④ 258
- Operator's Well Number: 7045 3) Elevation: 1010'
- Well type: (a) Oil or Gas
- (b) If Gas: Production Underground Storage
Deep Shallow
- Proposed Target Formation(s): ORISKANY 475
- Proposed Total Depth: 5350' feet
- 7) Approximate fresh water strata depths: 200' (EST. 512 GAS)
- 8) Approximate salt water depths: 685'
- 9) Approximate coal seam depths: 120', 185', 285', 535', 575'
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: KIN WREN, Pull TUBING, DRILL 50' DEEPER, RUN + CEMENT 4 1/2" CASING, AND STIMULATE ORISKANY.
- 12)

RECEIVED
FEB 13 1997
Permitting
Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	13 3/8"		48*	633'	NONE	
Coal	10 3/4"		32.75*		1621'	
Intermediate	8 5/8"		28*		2072'	CMTD TO SURF W/ 166 SX
Production	7"		24*		5209'	CMTD TO SURF W/ 232 SX
Tubing	2 3/8"		4.6*		5300'	
Liners (NEW)	4 1/2"	N-80	11.6*	A.H.-1-1397	5350'	100 SX

PACKERS : Kind NONE
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

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

0018 2240
4

[Handwritten Signature]

1) Date: 10/25/96
2) Operator's well number
COCO-A WELL #07045
3) API Well No: 47 - 039 - 01188 - 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 Anna F. Bishop
Address Box 70
Pinch, WV 25156
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: _____
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 25th day of January, 19 97

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

