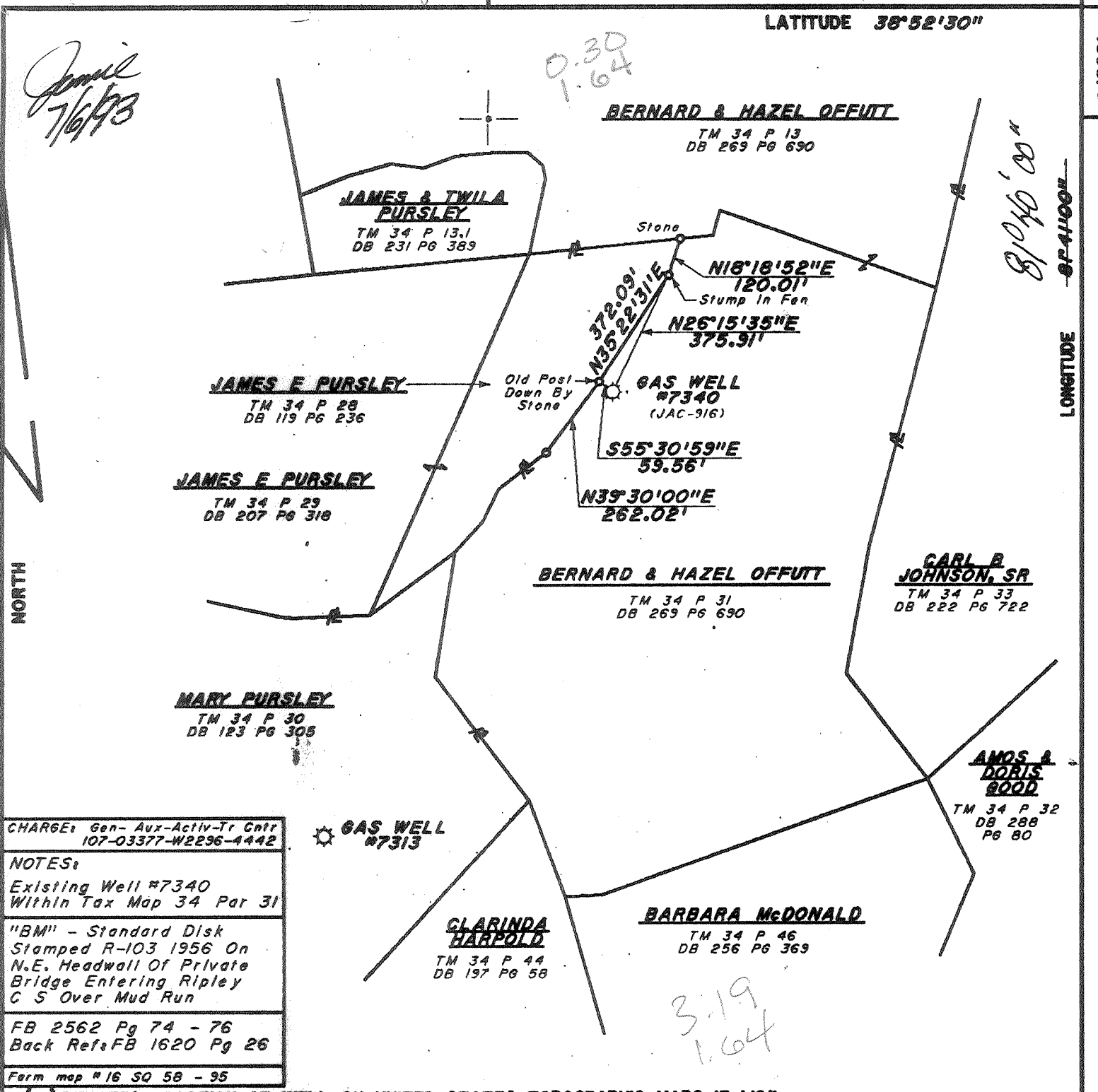


8600'

LATITUDE 38°52'30"

Amel  
7/6/93

0.30  
1.64



CHARGE: Gen-Aux-Activ-Tr Cntr  
107-03377-W2296-4442

NOTES:  
Existing Well #7340  
Within Tax Map 34 Par 31

"BM" - Standard Disk  
Stamped R-103 1956 On  
N.E. Headwall Of Private  
Bridge Entering Ripley  
C S Over Mud Run

FB 2562 Pg 74 - 76  
Back Refs: FB 1620 Pg 26

Form map # 16 SQ 58 - 95

GAS WELL #7313

CLARINDA HARPOLD  
TM 34 P 44  
DB 197 Pg 58

BARBARA McDONALD  
TM 34 P 46  
DB 256 Pg 369

AMOS & DORIS GOOD  
TM 34 P 32  
DB 288  
Pg 80

3.19  
1.64

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

FILE NO. _____	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 ENERGY. (SIGNED) <u>Edward J. Fitch</u> R.P.E. <u>9936</u> L.L.S. <u>798</u>	PLACE SEAL HERE
DRAWING NO. _____		
SCALE 1" = 400'		
MINIMUM DEGREE OF ACCURACY 1/200		
PROVEN SOURCE OF ELEVATION 613.00 <u>See Note Above</u>		

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE March 8, 1993  
OPERATOR'S WELL NO. 7340  
API WELL NO. 47 035 00916-7

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

LOCATION: ELEVATION 653.38' WATER SHED A Branch Of Mud Run Creek  
DISTRICT Riverswood COUNTY Jackson  
QUADRANGLE Ripley COORDINATES LAT: 38°52'17" LONG: 81°41'49"

SURFACE OWNER Bernard & Hazel Offutt ACREAGE 47  
OIL & GAS ROYALTY OWNER Bernard & Hazel Offutt LEASE ACREAGE 47  
COAL OWNER Bernard & Hazel Offutt LEASE NO. 52315

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 Existing Well.

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION OFFSHORE ESTIMATED DEPTH 4925' Storage Leuvok Frac.

WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT ROBERT C WEIDNER  
ADDRESS PO Box 1273, Charleston, WV 25325-1273 ADDRESS PO Box 1273, Charleston, WV 25325-1273

JACKSON COUNTY NAME PERMIT 916 F

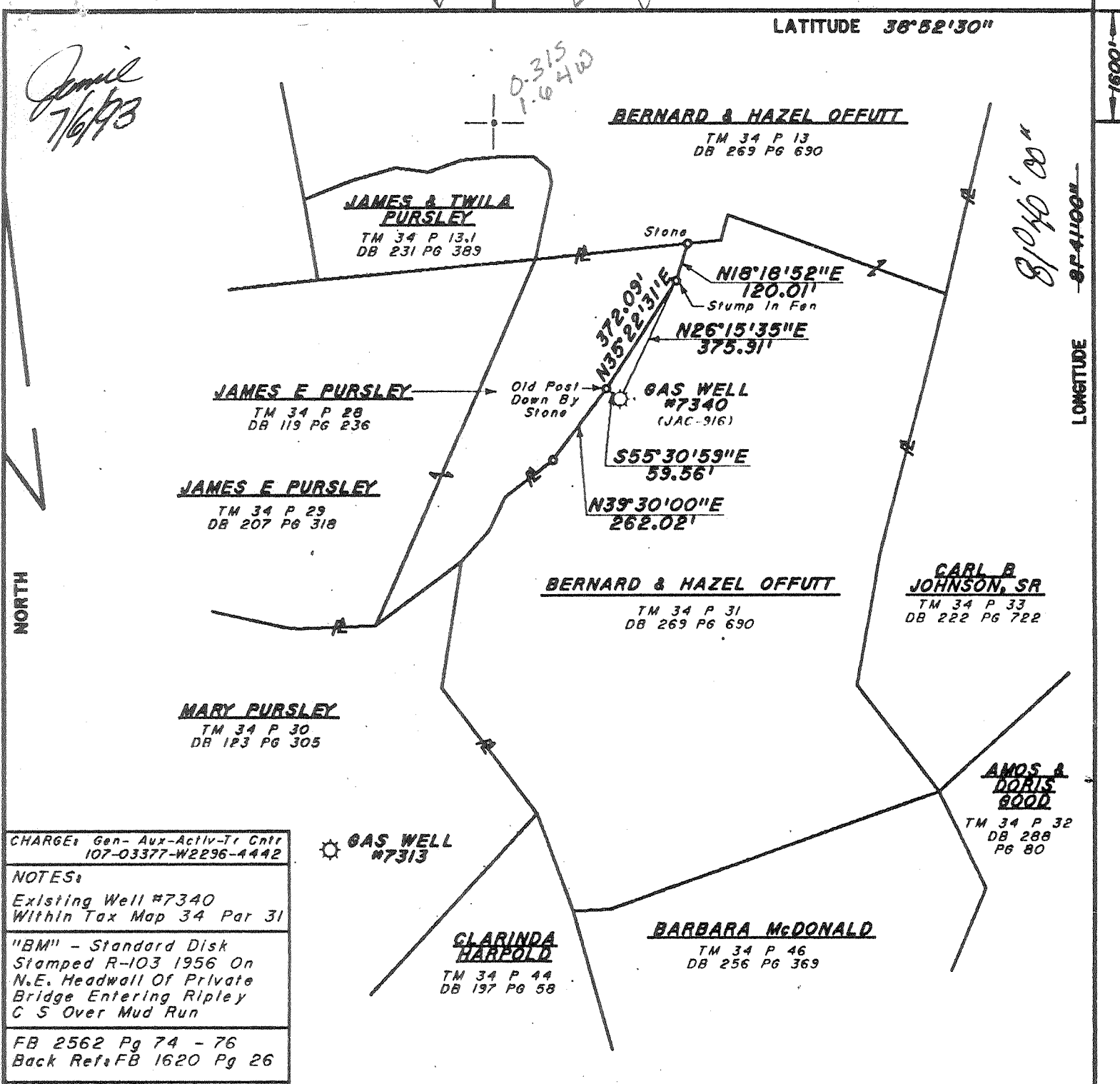
DEEP WELL

LATITUDE 38°52'30"

8600'

Amel  
7/6/93

0.315  
1.640



CHARGE: Gen-Aux-Activ-Tr Cntr  
107-03377-W2296-4442

NOTES:  
Existing Well #7340  
Within Tax Map 34 Par 31

"BM" - Standard Disk  
Stamped R-103 1956 On  
N.E. Headwall Of Private  
Bridge Entering Ripley  
C S Over Mud Run

FB 2562 Pg 74 - 76  
Back Refs: FB 1620 Pg 26

Farm map #16 SQ 58 - 95

⊙ GAS WELL #7313

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

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 400'  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION 613.00  
See Note Above

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 ENERGY.

(SIGNED) Edward Pichler  
R.P.E. 9936 L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION

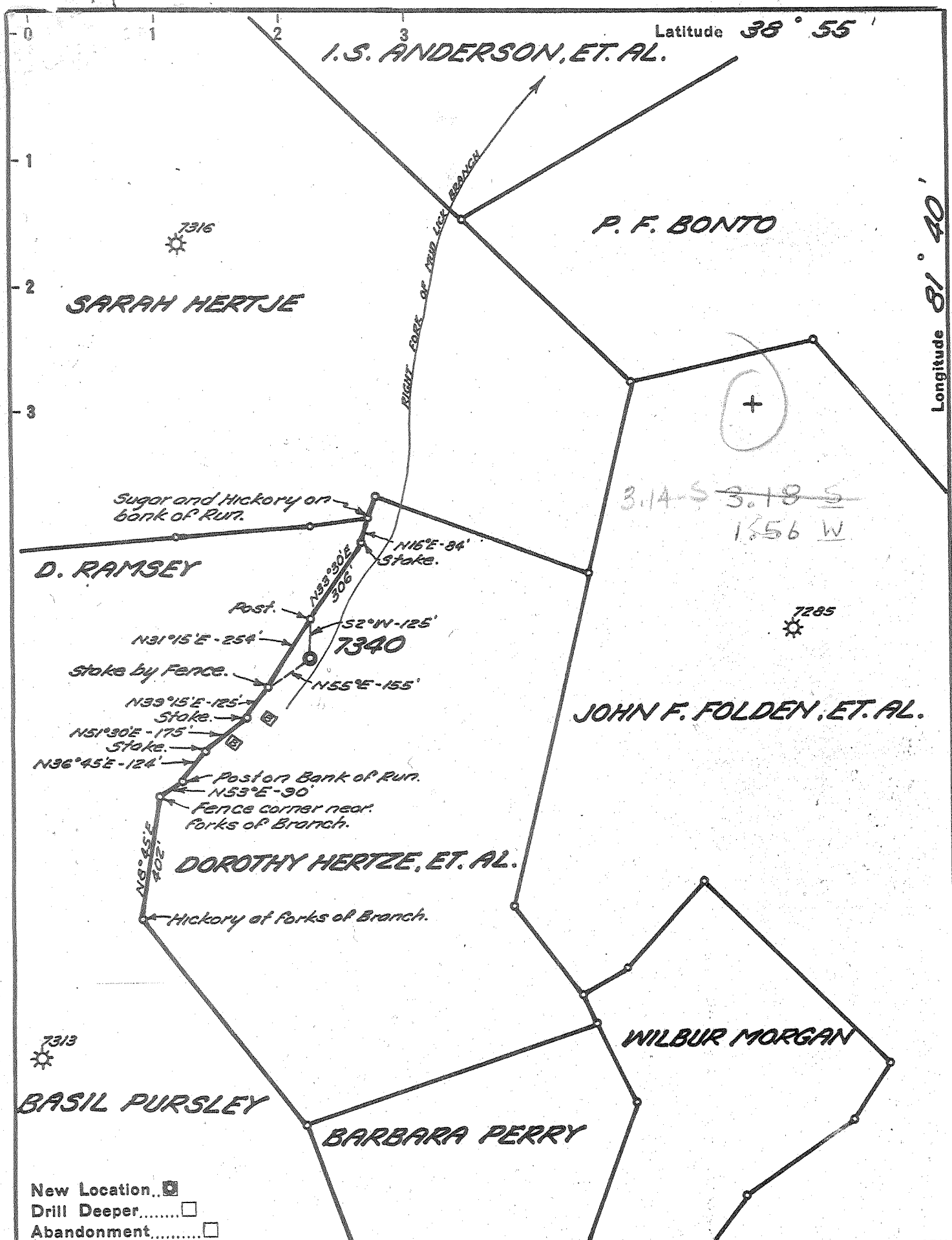


DATE March 8, 1993  
OPERATOR'S WELL NO. 7340  
API WELL NO. 47 035 00916-7

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS," ) PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 653.38' WATER SHED A Branch Of Mud Run Creek  
DISTRICT Ravenswood 2 COUNTY Jackson  
QUADRANGLE Ripley COORDINATES LAT: 38°52'17" LONG: 81°41'49"  
SURFACE OWNER Bernard & Hazel Offutt ACREAGE 47  
OIL & GAS ROYALTY OWNER Bernard & Hazel Offutt LEASE ACREAGE 47  
COAL OWNER Bernard & Hazel Offutt LEASE NO. 52315  
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 Existing Well.

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
TARGET FORMATION OPLESKANY ESTIMATED DEPTH 4625' Storage Recondition Existing Well. 1993  
WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT ROBERT C WEIDNER  
ADDRESS PO Box 1273, Charleston, WV 25325-1273 ADDRESS PO Box 1273, Charleston, WV 25325-1273

JACKSON COUNTY NAME PERMIT 916



P

Latitude  $38^{\circ} 55'$   
I.S. ANDERSON, ET. AL.

Longitude  $81^{\circ} 40'$

- New Location...
- Drill Deeper.....
- Abandonment.....

Company UNITED FUEL GAS CO.  
 Address CHARLESTON, W. VA.  
 Farm DOROTHY HERTZE, ET. AL.  
 Tract \_\_\_\_\_ Acres 47 Lease No. 52315-B  
 Well (Farm) No. \_\_\_\_\_ Serial No. 7340  
 Elevation (Spirit Level) 667.71'  
 Quadrangle RIPLEY-WC  
 County JACKSON District RAVENSWOOD  
 Engineer Seibert R. Ferrell  
 Engineer's Registration No. 2529  
 File No. 58-95 Drawing No. \_\_\_\_\_  
 Date 4-11-56 Scale 1" = 400'

STATE OF KENTUCKY  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 LEXINGTON

WELL LOCATION MAP  
 FILE NO. JAC-916

+ 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.

Storage Well B-2 192 Deep Well ✓



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Ripley

Permit No. JAC- 916

WELL RECORD

Oil or Gas Well Storage Gas  
(KIND)

Company United Fuel Gas Company  
Address P. O. Box 1273; Charleston 25, W. Va.  
Farm Dorothy Hertje, et al Acres 47  
Location (waters) Mud Lick Branch  
Well No. X59-7340 Elev. 667.71  
District Ravenswood County Jackson  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by M-H-M-Enterprises, Inc.  
Address Spencer, W. Va.  
Drilling commenced May 22, 1956  
Drilling completed August 23, 1956  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
5 /10ths Merc. in 7 Inch  
Volume 3,521,000 - Oriskany Cu. Ft.  
Rock Pressure 1160 lbs. 24 hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
Fresh water 255 feet 685 feet  
Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16		22	
13 3/8		566	
10 3/4	1159	Pulled	Size of
8 7/8 5/8		1995	
7 5/8		4765	Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
COAL WAS ENCOUNTERED AT 549 FEET 24 INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock			0	36	Hole full water	255'	
Slate			36	70			
Red Rock			70	130	Water	685'	2 1/2 bailers per hour
Slate			130	170			
Red Rock			170	238	Hole full water	1270'	
Sand			238	300			
Red Rock			300	335	Show gas	3950'	
Slate			335	455			
Red Rock			455	473	Gas	4840'	2/10 W 2" 60 M
Sand - 13 P.H. 3			473	545			
Slate			545	549	Gas	4848-4852'	5/10 Merc. 7" 23#
Coal			549	551		3,521 M	
Slate			551	629			
Sand - 14 P.H. 8			629	695	FINAL OPEN FLOW -	3,521 M - Oriskany	
Slate			695	705	24 Hr. R.P.	1160#.	
Red Rock			705	730			
Sand			730	755			
Red Rock			755	785	Shut in	8-23-56	in 7" casing.
Slate			785	875			
Red Rock			875	920			
Slate			920	940			
Red Rock			940	955			
Slate & Shells			955	1206			
Sand			1206	1220			
Slate			1220	1270			
Sand			1270	1375			
Lime			1375	1438			
Sand			1438	1455			
Slate			1455	1475			
Sand			1475	1500			
Lime			1500	1565			
Sand			1565	1707			
Big Lime			1707	1805			
Sand			1805	1816			
Lime			1816	1840			



Formation	Color	Hard or Soft	Top <sup>3</sup>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Injun			1840	1990			
Lime			1990	2020			
Slate & Shells			2020	3545			
Brown Shale - 441			3545	3650			
Slate & Shells			3650	3820			
Brown Shale			3820	4040			
Slate & Shells			4040	4465			
Brown Shale			4465	4735			
Corniferous - 463			4735	4839			
Oriskany			4839	4871			
Total Depth			4871'				

73

Date November 28, 1956

APPROVED UNITED FUEL GAS COMPANY, Owner

By L. J. Ferrell  
(Title)  
SUPT., CIVIL ENGINEERING DEPARTMENT

SEP 04 1994

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

Division of  
Environmental Protection

Well Operator's Report of Well Work

Operator Well No.: RIPLEY #7340

LOCATION: Elevation: 659.38, Quadrangle: RIPLEY

District: RAVENSWOOD County: JACKSON  
Latitude: 1600 Feet South of 38 Deg. 52Min. 30 Sec.  
Longitude 8600 Feet West of 81 Deg. 41 Min. 0 Sec.

Company: COLUMBIA GAS TRANSMISSION  
1700 MaccORKLE AVENUE S.E.  
CHARLESTON, WV 25314-0000

Agent: ROBERT C. WEIDNER

Inspector: GLEN ROBINSON  
Permit Issued: 07/09/93  
Well work Commenced: 12-13-93  
Well work Completed: 12-13-93

Verbal Plugging  
Permission granted on:  
Rotary  Cable Rig  
Total Depth (feet) 4895'  
Fresh water depths (ft) 575'

Salt water depths (ft) 700'

Is coal being mined in area (Y/N)?  
Coal Depths (ft): 549-551'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size-16"		22'	Not Available
13-3/8"		569'	Not Available
10"		0'	Not Available
8-5/8"		2008'	470 sacks
7"		4825'	Not Available
4 1/2"	N-11.6	4886'	200 sks

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth (ft) 4839'-4871'  
Gas: Initial open flow 4200 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/  
\*Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/  
Time of open flow between initial and final tests \_\_\_\_\_ Hour  
Static rock Pressure 1348 psig (surface pressure) after 24 Hour

N/A

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/  
Time of open flow between initial and final tests \_\_\_\_\_ Hour  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hour

- over -

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE 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: Richard L. Coty  
Date: 9/27/94

\* No post test taken -  
pending on fire job -

Details of Perforated Intervals, fracturing or stimulating, physical change

- 1.) Pulled 4875.80' (threads on) of 2-7/8" to round tubing -
- 2.) Pulled 32 joints of 7" casing - a total of 1020.65'
- 3.) String shot and backed off top joint of 8-5/8" csg - Replaced w/ new 36' jt of 8-5/8" 24#/ft seamless casing -
- 4.) Free-pointed and perforated the 8-5/8" casing from 750'-752' w/ 6 shots/ft -
- 5.) Cemented the 8-5/8" casing w/ 470 sacks of Class A cement - Cement returns to the surface -
- 6.) Re-ran 1010' of original 7" casing - Screwed back into existing string -
- 7.) Ran 4 1/2" - N80 casing to a depth of 4886' G.L. - Cemented 4 1/2" csg w/ 200 sacks of Class A cement with additives.

OBSERVATION DATA

Producing formation

Case: Initial open flow time

\* Final open flow time

Time of open flow between initial and final

Static rock pressure

Second producing formation

Gas initial open flow time

Time of open flow between initial and final

Static rock pressure

NOTE: ON BACK OF THIS FORM THE FOLLOWING: 1) DETAILS OF INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE LOG WHICH IS A STEAM-HEATED GEOLOGICAL RECORD OF THE WELLBORE.

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

\* No part of this report to be released without the approval of the Bureau of Land Management

17460

RECEIVED

WV Division of Environmental Protection  
FORM WW-2B JUN 23 93

035-0916-F  
Issued 07/09/93  
Page 1 of 1  
Expires 07/09/95

Permitting Office of DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

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

- 1) Well Operator: COLUMBIA GAS TRANSMISSION CORPORATION 10450 (2) 577
- 2) Operator's Well Number: RIPLEY 7340 3) Elevation: 667.71
- 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
- 5) Proposed Target Formation(s): ORISKANY SAND 475
- 6) Proposed Total Depth: 4925 feet
- 7) Approximate fresh water strata depths: 575'
- 8) Approximate salt water depths: 700'
- 9) Approximate coal seam depths: 549'-551'
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: A) PULL 2-3/8" TUBING. B) PULL 7" CSG. & TOP JT. OF 8-5/8" CSG.  
C) PERFORATE & SQUEEZE THE 8-5/8" CSG. D) REPLACE 7" CSG. & TOP JT. OF 8-5/8" CSG.
- 12) E) DRILL 25' OF ADDTL. 6-1/4" HOLE. F) RUN 4-1/2" CSG. - CEMENT. G) ACIDIZE & FRACTURE H) INSTALL 3000 PSI API FLANGED WELLHEAD ASSY. CEMENT

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16" 13-3/8"		65 48		22' 569'	NOT AVAILABLE NOT AVAILABLE
Fresh Water	10"		40.5		-0-	NOT AVAILABLE
Coal	8-5/8"		24		2008'	NOT AVAILABLE
Intermediate	7"		23		4825'	NOT AVAILABLE
Production	4-1/2"	N	11.6		4925'	221 CU. FT.
Tubing	2-3/8"	J	4.7		4850'	NO CEMENT
Liners	<i>New pipe to be run 38" CSB 11.1</i>					

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 Justin Blanket Agent  
(Type)

17460

00273246  
12



RECEIVED  
WV Division of  
Environmental Protection  
JUN 23 83  
Permitting  
Office of Oil & Gas

1) Date: MAY 18, 1993  
2) Operator's well number  
RIPLEY 7340  
3) API Well No: 47 - 035 - 00916 - FRAC  
State - County - Permit

STATE OF WEST VIRGINIA  
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 BERNARD AND HAZEL OFFUTT  
Address RT 2, BOX 144  
SANDYVILLE, WV 25275  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

5) (a) Coal Operator:  
Name NONE  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name BERNARD AND HAZEL OFFUTT  
Address RT. 2, BOX 144  
SANDYVILLE, WV 25275  
Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector GLEN P. ROBINSON  
Address BOX 1  
BELLEVILLE, WV 26133  
Telephone (304) - 465-1911  
(304) - 367-1832

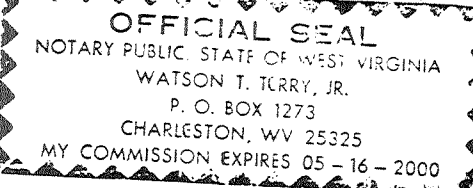
(c) Coal Lessee with Declaration  
Name NONE  
Address \_\_\_\_\_

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 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)  
I certify that as required under Chapter 22B 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 22B 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: DIRECTOR, DRILLING & MAINTENANCE  
Address P. O. BOX 1273  
CHARLESTON, WV 25325-1273  
Telephone 304-357-2459

Subscribed and sworn before me this 21 day of June, 1993

Watson T. Terry, Jr. Notary Public  
My commission expires May 16, 1993

*see lease at bus roads in Chap, III.*

JAN 05 1996

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 (fracturing)

Farm name: OFFUTT, BERNARD & HAZEL Operator Well No.: Ripley 7340

LOCATION: Elevation: 659.38 Quadrangle: RIPLEY

District: RAVENSWOOD County: JACKSON  
Latitude: 1600 Feet South of 38 Deg. 52Min. 30 Sec.  
Longitude 8600 Feet West of 81 Deg. 40 Min. Sec.

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

Agent: RICHARD L. COTY

Inspector: GLEN ROBINSON

Permit Issued: 08/11/95

Fracturing Commenced: 12-26-95

Fracturing Completed: 12-28-95

Verbal Plugging

Permission granted on: \_\_\_\_\_

Rotary Cable Rig

Total Depth (feet) \_\_\_\_\_

Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? \_\_\_\_\_

Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
	Same as reported		
	in 1994.		

OPEN FLOW DATA

Producing formation Oriskany Sandstone Pay zone depth (ft) 4834  
Gas: Initial open flow 2600 MCF/d Oil: Initial open flow NA Bbl/d  
Final open flow 2600 MCF/d Final open flow NA Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 1000 psig (surface pressure) after 72 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: Richard L. Coty  
Date: 1/3/96

12-27-95

Spotted 500 gallons 15% HCl acid followed by 18 barrels of water. Schlumberger perforated from 4834' - 4858' with .41" diameter perforations at 6 spf.

Nowco fractured well with 239 barrels of 30 pound gelled water 13,500 pounds of 20/40 sand.

Breakdown at 2730 psig at 16 barrels/minute

Treated at 19.5 barrels/minute at 2842 psi.

I.S.I.P. 2900 psi.

12-28-95

Used coiled tubing unit to unload liquid. Blew well into portable steel tank. Open Flow 2,600 Mcfd. Shut in pressure 1000 psig.

All Information is same as submitted in 1993 except no. 11.

FORM WW-2B

Page 1 of 1

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

035916 Fac.

10450 (2) 578

1) Well Operator: <sup>175</sup> Columbia Gas Transmission Corporation

2) Operator's Well Number: 7340 3) Elevation: \_\_\_\_\_

4) Well type: (a) Oil \_\_\_ / or Gas X /  
(b) If Gas: Production \_\_\_ / Underground Storage X /  
Deep \_\_\_ / Shallow \_\_\_

Issued 08/11/95  
Expires 08/11/97

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

6) Proposed Total Depth: 4858 feet

7) Approximate fresh water strata depths: \_\_\_\_\_

8) Approximate salt water depths: \_\_\_\_\_

9) Approximate coal seam depths: \_\_\_\_\_

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

11) Proposed Well Work: Perforate Oriskany sandstone from 4834' - 4858' at 6 spf. and perform hydraulic fracture treatment.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor						
Fresh Water						
Coal						
Intermediate						
Production						
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
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)

00076068  
34

11

1) Date: June 19, 1995  
2) Operator's well number  
RIPLEY 7340  
3) API Well No: 47 - 035 - 00916-FRAC  
State - County - Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:  
(a) Name BERNARD AND HAZEL OFFUTT  
Address ~~XX~~  
RT 2, BOX 144, SANDYVILLE, WV 25275  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

5) (a) Coal Operator:  
Name NONE  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name BERNARD AND HAZEL OFFUTT  
Address RT. 2, BOX 144  
SANDYVILLE, WV 25275  
Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector GLEN P. ROBINSON  
Address BOX 1  
BELLEVILLE, WV 26133  
Telephone (304)-465-1911  
(304) - 367-1832

(c) Coal Lessee with Declaration  
Name NONE  
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  
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) Storage lease on file in Chas. offic

I certify that as required under Chapter 22B 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)  
 \_\_\_\_\_ Certified Mail (Postmarked postal receipt attached)  
\_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B 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 CORPORATION  
By: Richard L. Colby  
Its: MANAGER, WELL SERVICES  
Address P. O. BOX 1273  
CHARLESTON, WV 25325-1273  
Telephone (304) 357-3034

Subscribed and sworn before me this 20th day of June, 1995  
Watson J. Terry Notary Public  
My commission expires 10/5/16/2000

