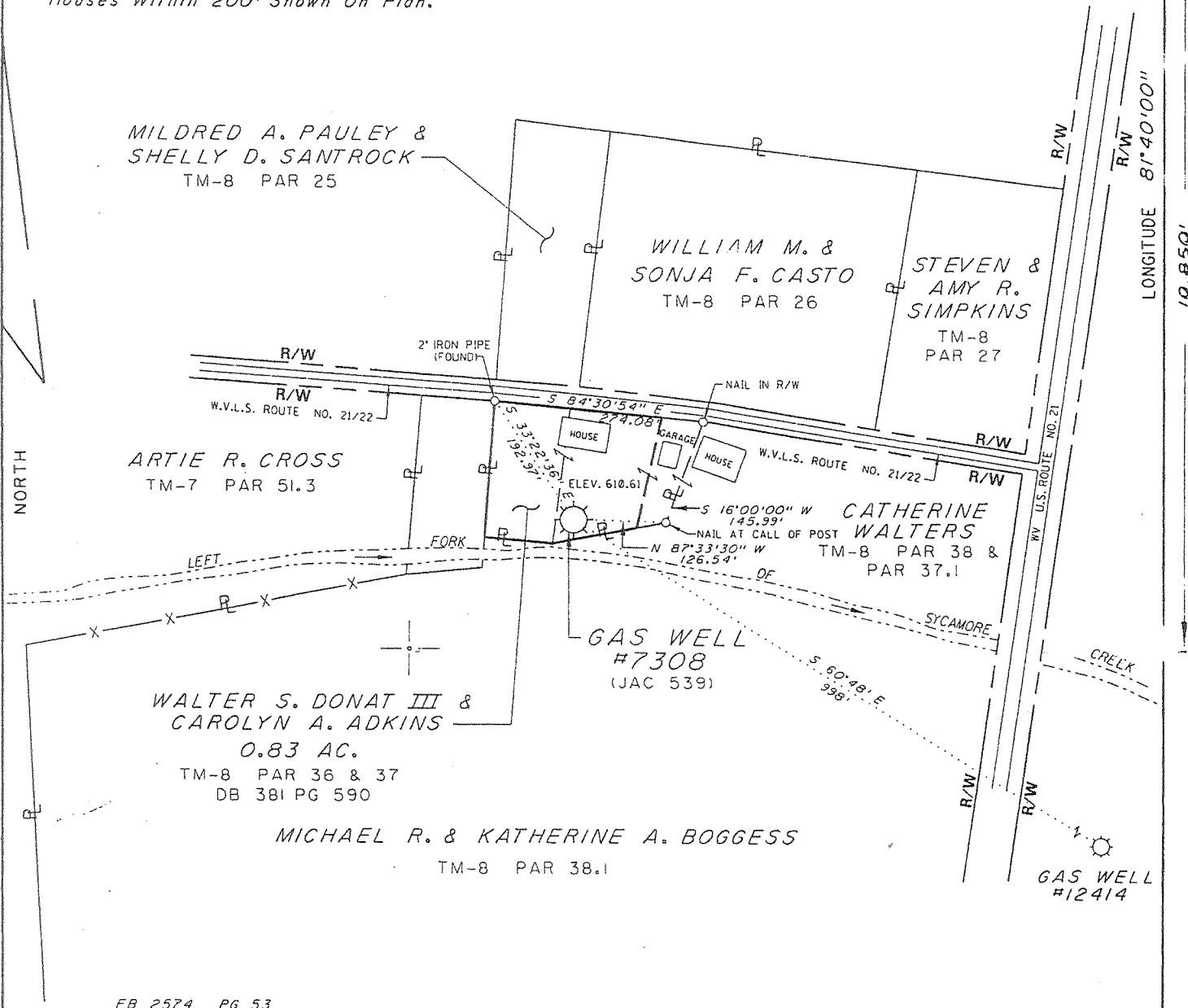


10,200'

LATITUDE 38°52'30"

Notes:

This Map Is For Well Location Purposes Only & Does Not Represent A Complete Boundary Survey. No Water Wells Within 200'. Houses Within 200' Shown On Plan.



FB 2574 PG 53

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. 7308  
 SCALE 1" = 200'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION USGS BM DISK SET  
IN TOP NE END OF SE HEADWALL  
NW SIDE RT. 21 STAMPED U-103

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 DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED) \_\_\_\_\_  
 R.P.E. \_\_\_\_\_ L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 SECTION OF OIL & GAS



DATE JANUARY 19, 2009  
 OPERATOR'S WELL NO. 7308  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ STATE 47 COUNTY 035 PERMIT 000539-F  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE X DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 610.61 WATER SHED LEFT FORK OF SYCAMORE CREEK  
 DISTRICT RIPLEY COUNTY JACKSON  
 QUADRANGLE RIPLEY COORDINATES LAT: 38°50'43" LONG: 81°42'09"  
 SURFACE OWNER WALTER S. DONAT III & CAROLYN A. ADKINS ACREAGE 0.83  
 ORIGINAL OIL & GAS ROYALTY OWNER R. F. WALTERS, ET AL. LEASE ACREAGE 124  
 COAL OWNER \_\_\_\_\_ LEASE NO. 1052241

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

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_  
 WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT PAUL AMICK  
 ADDRESS PO Box 1273, Charleston, WV ADDRESS PO Box 1273, Charleston, WV  
25325-1273 25325-1273

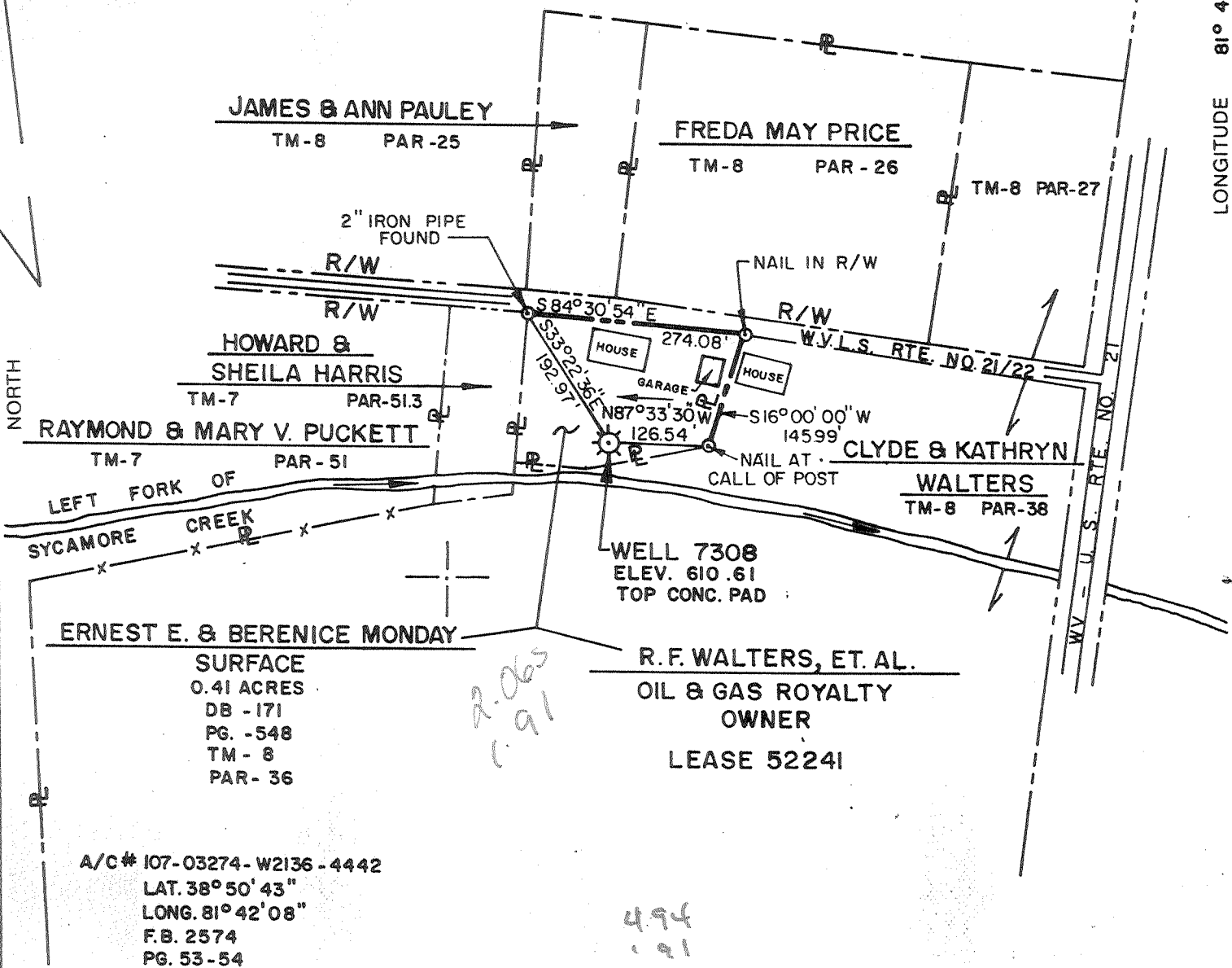
SEP 04 2009

JACKSON COUNTY NAME PERMIT 539

(Elk-Poca (Sissonville) - 192) B-0

*Jamie*  
*6/22/92*

NOTE: THIS MAP IS FOR WELL  
LOCATION PURPOSES ONLY  
& DOES NOT REPRESENT A  
COMPLETE BOUNDARY SURVEY.



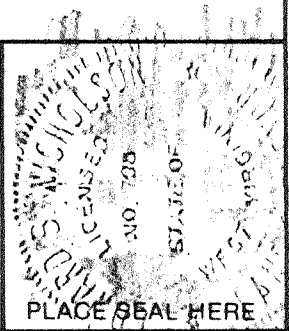
*2.065*  
*1.91*

*4.94*  
*1.91*

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 200'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION U.S.G.S. BM DISK SET IN TOP N.E. END OF S.E. HEADWALL, N.W. SIDE RT. 21 STAMPED U-103 ELEV. 609.198

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 T. Tolson*  
 R.P.E. 9936 L.L.S. 798



PLACE SEAL HERE

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



DATE APRIL 16, 1992  
 OPERATOR'S WELL NO. 7308  
 API WELL NO. 47-035-539W

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  STATE COUNTY PERMIT

(IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 610.61 WATERSHED LEFT FORK SYCAMORE CREEK  
 DISTRICT RIPLEY 3 COUNTY JACKSON  
 QUADRANGLE RIPLEY, WV

SURFACE OWNER ERNEST E. & BERENICE MONDAY ACREAGE 0.41  
 OIL & GAS ROYALTY OWNER R. F. WALTERS, ET. AL. LEASE ACREAGE 200  
 LEASE NO. 52241

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) RECONDITION

PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_  
 WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP. DESIGNATED AGENT ROBERT C. WEIDNER  
 ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325 ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325

JUN 26 1992

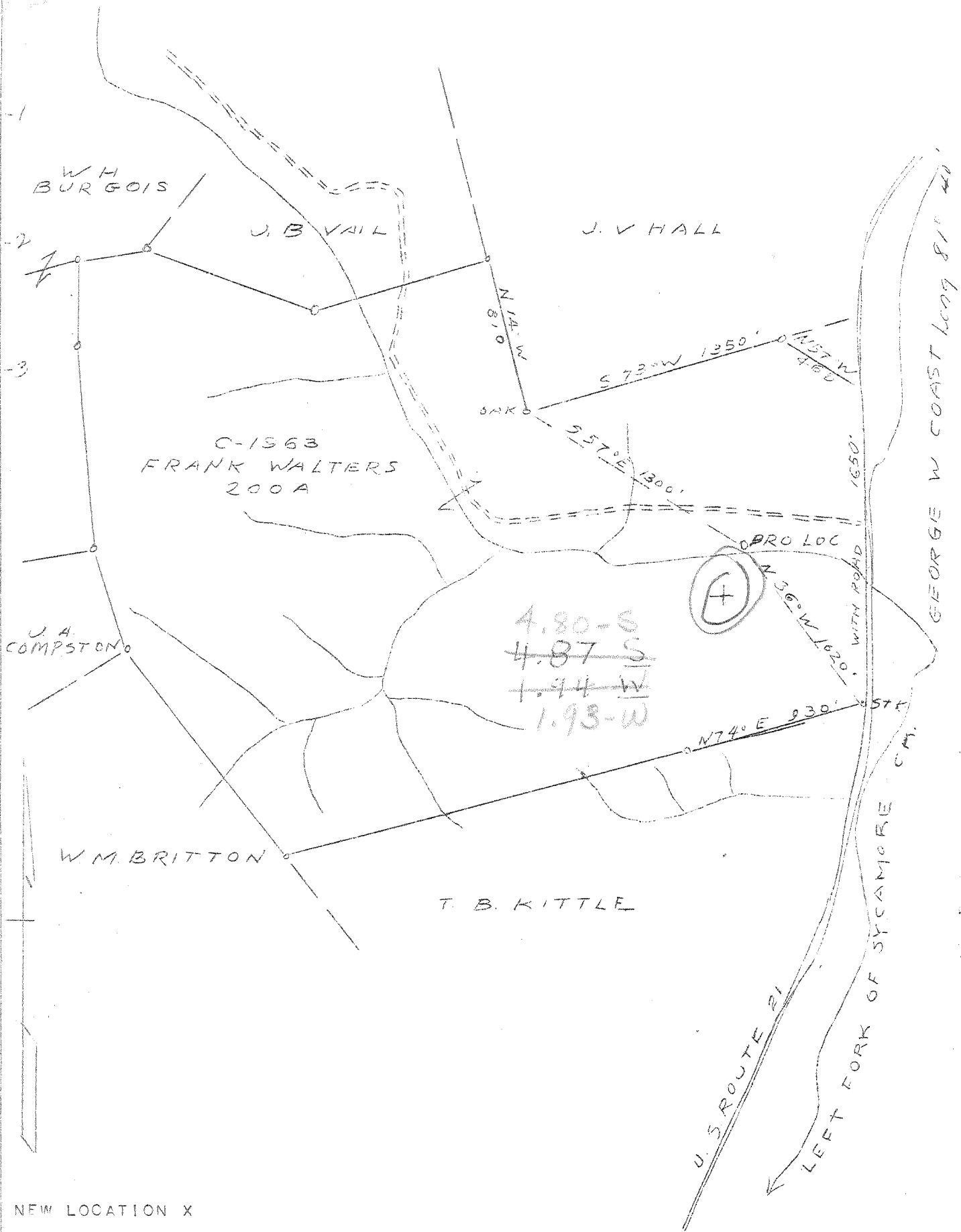
*175*

JACKSON COUNTY NAME

PERMIT 539

P

Lat 38° 55'



NEW LOCATION X

COMPANY COLUMBIAN CARBON CO.  
 ADDRESS CHARLESTON, W. VA.  
 FARM FRANK WALTERS  
 TRACT ACRES 200 LEASE NO. C-1963  
 WELL (FARM) NO. 1 SERIAL NO.  
 ELEVATION (S.L.) 611.7 - WC.  
 QUADRANGLE RIPLEY 4-495-194  
 COUNTY JACKSON DIST. RIPLEY  
 ENGINEER J. N. SELL  
 ENGINEER'S PFG. NO. 772  
 FILE NO. DRAWING NO. 404  
 DATE OCT. 24, 1946 SCALE 1"=660'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
 WELL LOCATION MAP  
 FILE NO. JAC - 539

+ DENOTES LOCATION OF WELL ON U.S. 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. Jac 539

Ripley Quad.

Company

Address

Farm

Location

Well No.

District

Surface

Commenced

Completed

Not shot

Volume

Rock Pressure

Fresh Water

Salt Water

Columbian Carbon Company

Box 873, Charleston 23, W.Va.

Frank Walters Acres 200

Left Fork of Sycamore Creek

1 (GW 929) Elev. 611.7 G

Ripley Jackson County

Frank Walters et al (for

addresses contact C.C. Co.)

11-17-46

3-9-47

3,170,000 C.F.

950 lbs. 23 hrs.

110' 1-16" blr. per hr.; 205' 2 1/2 blrs. per hr.

466' 5 blrs. per hr.; 723-34 1/2-13" blr. per hr.

1545-50 H.F.

Gas Well  
CASING & TUBING

16	30'0	30'0
13 3/8	498' 7	0
10 1/2	1026'6	0
8 5/8	1950'7	1950'7
7	4718'10	4718'10
2 3/8	4841'0	4841'0

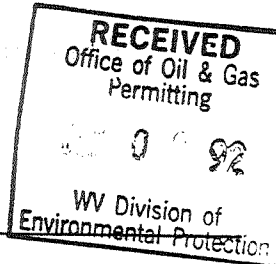
Coal at 466' 24"  
576' 36"

Soil	0	25	Slate	2110	2270
Red Rock	25	50	Shale - <i>Coffee Sh.</i>	2270	2288
Slate	50	75	Sand - <i>Belee</i>	2288	2300 - <i>Berco</i>
Red Rock	65	80	Slate & Shells	2300	3500
Slate	80	106	Brown Shale	3500	3608
Sand	106	113	Gray Shale	3600	3700
Red Rock	113	140	Lime	3700	3770
Slate	140	145	Brown Shale	3770	4050
Sand	145	205	Gray Lime Hard	4050	4070
Blue Slate	205	210	Gray Shale	4070	4100
Red Rock	210	232	Brown Shale	4100	4152
Blue Slate	232	251	Slate	4152	4200
Red Rock	251	258	Gray Shale	4200	4372
Blue Slate	258	280	Brown Shale	4372	4680SLM
Red Rock	280	320	Corniferous Lime - <i>463</i>	4680 SLM	4785SLM
Slate	320	350	Oriskany Sand	4785 SLM	4818
Red Rock	350	375	Total Depth		4818
Slate	375	412	Pays; 4786-92	<b>475</b>	
Sand - <i>1 1/2 P.H.S. Sand?</i>	412	466			
Coal	466	468	CEMENT RECORD: 11-26-46 13 3/8" casing.		
Slate	468	521	Ran 13 sacks aquagel, circulation while		
Shell	521	525	mixing.		
Slate	525	576			
Coal	576	579	12-4-46 10 1/2" casing. Ran 19 sacks aquagel		
Slate	579	630	and 1 bale fibrotex. No returns.		
Red Rock	630	646			
Sand	646	674	1-5-47 8 5/8" casing. Ran 24 sacks aquagel		
Red Rock	674	710	and 1 bale fibrotex. Good returns.		
Blue Slate	710	723			
Sand Hard	723	734	2-23-47 7" casing. Ran casing with packer.		
Slate	734	836			
Red Rock	836	853			
Slate	853	1010			
Sand	1010	1035	SLM		
	1029' DLM - 1035' SLM				
Slate Hard	1035	1175	SLM		
Sand	1175	1220			
Slate	1220	1245			
Sand	1245	1315			
Slate	1315	1339			
Sand	1339	1353			
Slate	1353	1540			
Salt Sand	1540	1648			
Gritty Lime	1648	1653			
Lime	1653	1662			
Slate	1662	1671			
Lime - <i>Big line 340</i>	1671	1801	Gas 1775		
Slate	1801	1822			
Sand - <i>Injan</i>	1822	1893			
Slate	1893	1898			
Sand - <i>Saman</i>	1898	1930			
Slate	1930	1940			
Lime	1940	1954			
Slate & Shells	1954	2110			



- 1) Date: April 1, 1992
- 2) Operator's well number  
Well No. 7308, Ripley Storage Field
- 3) API Well No: 47 - 035 - 00539-Rework  
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 Ernest E. Monday  
Address Rt. 1, Box 369  
Ripley, WV 25271
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Glen P. Robinson  
Address Box 1  
Belleville, WV 26133  
Telephone (304)-863-8766  
(304)-367-1832

- 5) (a) Coal Operator:  
Name none  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name none  
Address \_\_\_\_\_
- (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:

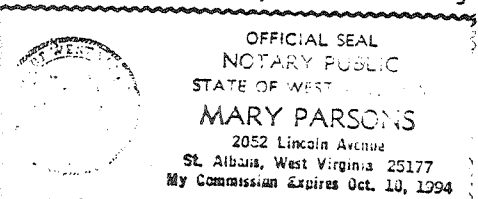
- \_\_\_\_\_ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

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 3<sup>rd</sup> day of May, 1992  
Mary Parsons Notary Public  
My commission expires October 10, 1994.

WR-35  
Rev (5-01)

DATE: 1/11/10  
API #: 47-035-00539 W

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Donat, Walter S. III Operator Well No.: 7308

LOCATION: Elevation: 611 ft Quadrangle: Ripley

District: Ripley County: Jackson  
Latitude: 10.850 Feet South of 38 Deg. 52 Min. 30 Sec.  
Longitude 10.200 Feet West of 81 Deg. 40 Min. 00 Sec.

Company: Columbia Gas Transmission, LLC

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 1700 MacCorkle Ave SE Charleston, WV 25325-1273	This is an existing storage well - no casing/tubing pulled or ran during permitted rework. Below is a record of current tubulars in well.			
Agent: Paul Amick				
Inspector: Jamie Stevens				
Date Permit Issued: 9/3/09	16	30	30	none
Date Well Work Commenced: 12/15/2009	13-3/8	499	0	none
Date Well Work Completed: 1/5/2010	10-3/4	1027	0	none
Verbal Plugging:	8-5/8 24#	1951	0 - 1951	unknown
Date Permission granted on:	7 23#	4719	0 - 4719	unknown
Rotary X Cable Rig	4-1/2 12.6#	4818	0 - 4818	old well records indicate "cemented to surface"
Total Depth (feet): 4818				
Fresh Water Depth (ft.): not applicable - rework				
Salt Water Depth (ft.): not applicable - rework				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): none reported ft				

OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 4785 - 4818  
Gas: Initial open flow not applicable MCF/d Oil: Initial open flow none Bbl/d  
Final open flow 14,200 MCF/d Final open flow none Bbl/d  
Time of open flow between initial and final tests not applicable Hours  
Static rock pressure 1335 psig (surface pressure) after 24 Hours

Second Producing formation N/A 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

RECEIVED  
Office of Oil & Gas  
JAN 19 2010  
Department of Environmental Protection

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.

Signed: [Signature]  
By: James E. Amos - Senior Storage Engineer - Columbia Gas Transmission, LLC  
Date: 1/11/10

01/22/2010

Ripley storage well 7308 (035 - 00539)

This is an existing storage well. Below is a summary of work performed.

Well was killed, pipe inspection and cement bond logs ran, installed new wellhead valves, cleaned with coil tubing, and fracture stimulated.

Fracture stimulation: BJ Services  
500 gals 20% HCl acid  
412 bbls gel  
154 MSCF nitrogen  
25,900 lbs 20/40 Ottawa sand  
Avg bottomhole rate: 16 BPM  
Break: 3225 psig  
ATP: 3500 psig  
ISIP: 3890 psig  
\* well screened off during flush

\* Note that no earthen pit was utilized. All fluids recovered via steel tanks and transported off site to waste water treatment facility.



OFFICE OF OIL AND GAS

API # 47- 35-00539 W

SEP 04 1994

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

WV Division of Well Operator's Report of Well Work  
Environmental Protection

Farm Name: MONDAY, ERNEST

Operator Well No.: 7308

LOCATION: Elevation: 610.61 Quadrangle: RIPLEY

District: RIPLEY County: JACKSON  
Latitude: 10900 Feet South of 38 Deg. 52Min. 30 Sec.  
Longitude 9950 Feet West of 81 Deg. 40 Min. 0 Sec.

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

Agent: ROBERT C. WEIDNER

Inspector: GLEN P. ROBINSON  
Permit Issued: 06/24/92  
Well work Commenced: 9-22-92  
Well work Completed: 12-10-92  
Verbal Plugging  
Permission granted on:  
Rotary  Cable Rig  
Total Depth (feet) 4818'  
Fresh water depths (ft) 466' est.

Salt water depths (ft) 723' est.

Is coal being mined in area (Y/N)?  
Coal Depths (ft): 576'-579' and 466'-468'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	30'	30'	13 sks. Aggr
8-5/8"	1951'	1951'	24 sks. Aggr 1 bale Fibre
7"	4719'	4719'	~ 1000' - 90.3 cu. ft.
4 1/2"	4818'	4818'	515 sks cement 5 sks Aggr

OPEN FLOW DATA

Producing formation \_\_\_\_\_ Pay zone depth (ft) 4875'-4818'  
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

N/A

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

- over -

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: 9/23/94

13210

Details of perforated intervals, fracturing or stimulating, physical change, etc.

- 1.) Perforated the 4 1/2" tubing from 4774' - 4794' in two separate runs of 10' each w/ six shots per foot.
- 2.) Pumped 36 bbl of 20% HCl acid followed w/ 22 bbl of treated H<sub>2</sub>O. Well broke down at 2850 psi. Then pumped in stages a total of 18 bbl of straight acid, 90 bbl of energized acid, 177 bbl of energized gelled water and 30 bbls of water flush.

10'	36	20%
10'	22	H <sub>2</sub> O
18	18	straight acid
90	90	energized acid
177	177	energized gelled water
30	30	water flush

10'	36	20%
10'	22	H <sub>2</sub> O
18	18	straight acid
90	90	energized acid
177	177	energized gelled water
30	30	water flush

13812