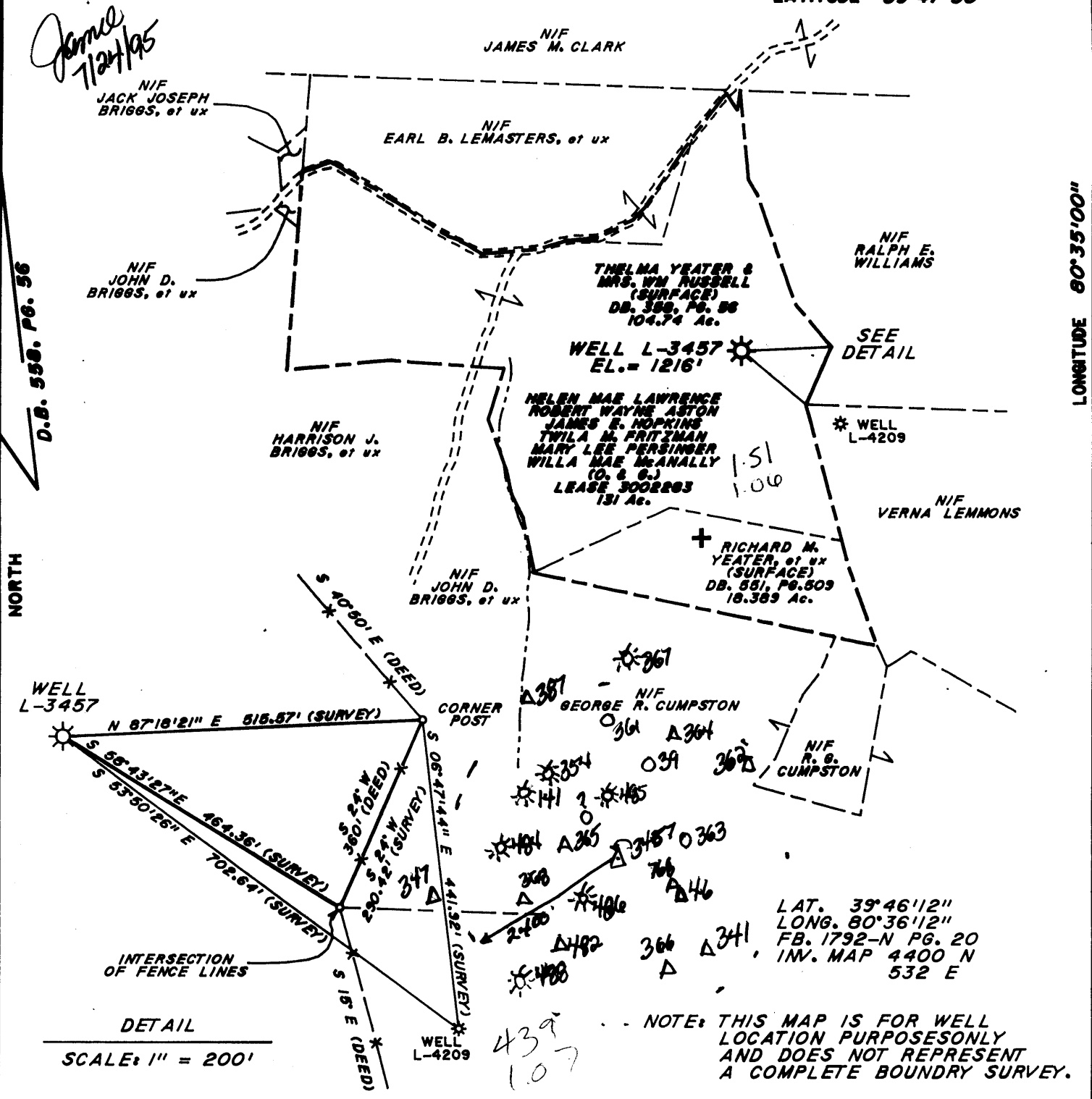


5620

LATITUDE 39°47'30"

James  
7/24/95



LONGITUDE 80°35'00"

7907

NORTH

WELL L-3457

CORNER POST

INTERSECTION OF FENCE LINES

DETAIL

SCALE: 1" = 200'

LAT. 39°46'12"  
LONG. 80°36'12"  
FB. 1792-N PG. 20  
INV. MAP 4400 N  
532 E

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

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 800'  
 MINIMUM DEGREE OF ACCURACY \_\_\_\_\_  
 PROVEN SOURCE OF ELEVATION USGS E-127  
 ELEV. = 770.09

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) [Signature] 3/23/95  
 R.P.E. \_\_\_\_\_ L.L.S. 345

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE MARCH 6, 1995  
 OPERATOR'S WELL NO. L-3457  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE X DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION \_\_\_\_\_ WATER SHED CEDAR RUN  
 DISTRICT LIBERTY COUNTY MARSHALL  
 QUADRANGLE CAMERON, W.V.  
 SURFACE OWNER THELMA YEATER & MRS WM RUSSELL ACREAGE 104.74  
 OIL & GAS ROYALTY OWNER SEE PLAT LEASE ACREAGE 131  
 COAL OWNER \_\_\_\_\_ LEASE NO. 3002283

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 TRANS. CORP. DESIGNATED AGENT R.A. SCHOFF  
 ADDRESS P.O. BOX 1273 CHARLESTON, W.V. 25309 ADDRESS P.O. BOX 496, WASHINGTON, PA. 15301

AUG 1 1995

MARSHALL COUNTY NAME PERMIT 027

FORM 9-MA 1995

175

LATITUDE

89 47 30

80 35

LONGITUDE

LONGITUDE

→ 06.15  
7.5' loc

7.5 OGIS topo location

7.5' loc	<u>1.50S</u>	15' loc	<u>4.38S</u>
	<u>1.07W</u>	(calc.)	<u>1.07W</u>

Company \_\_\_\_\_

Farm \_\_\_\_\_

SECTION MAP \_\_\_\_\_

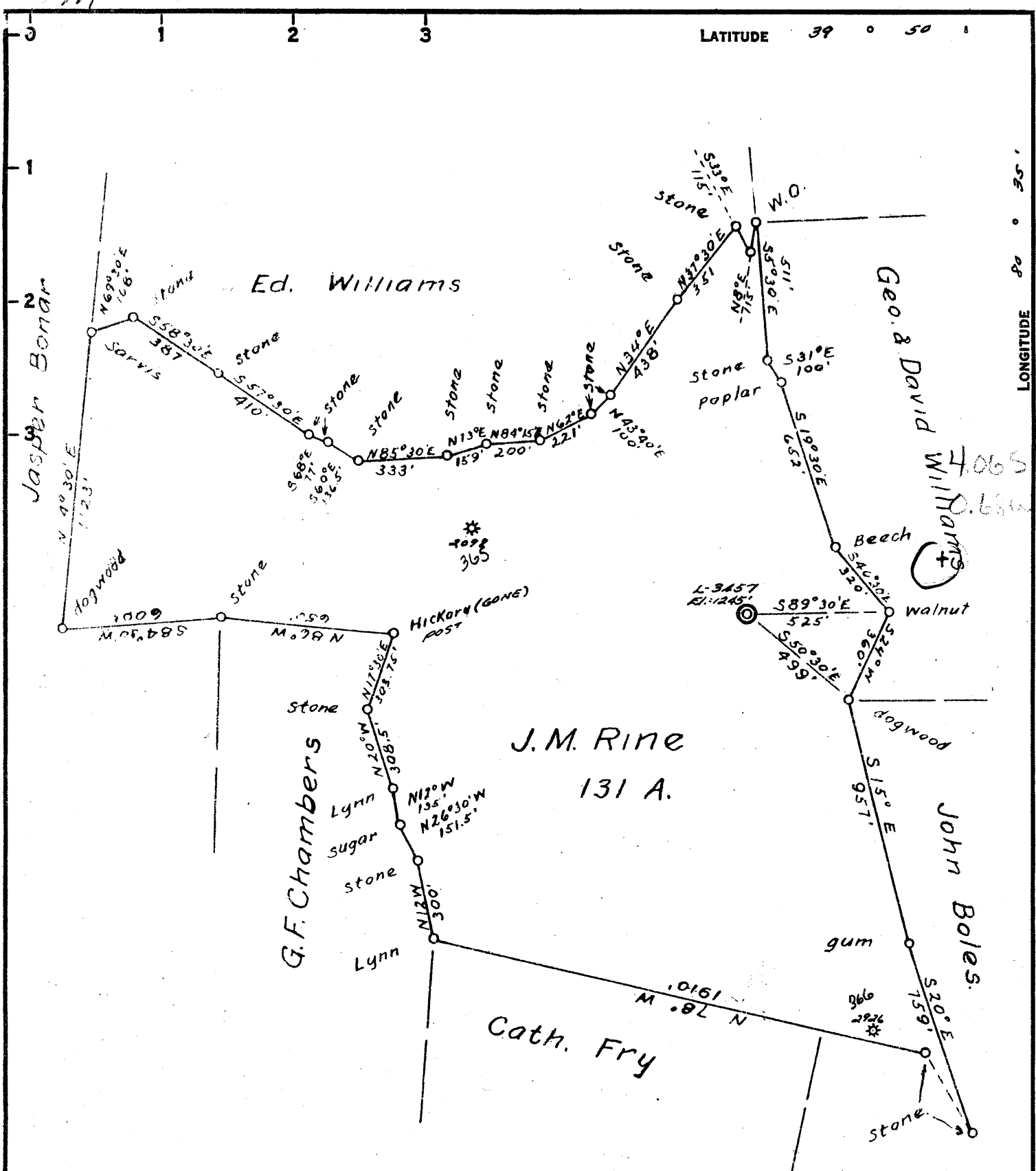
Quad Cameron

County \_\_\_\_\_

District Liberty

WELL LOCATION MAP

File No. Marshall 27



COAL OWNED BY \_\_\_\_\_  
 RECONDITION   
 NEW LOCATION...   
 DRILL DEEPER...   
 ABANDONMENT...

0-28-25

COMPANY THE MANUFACTURERS LIGHT & HEAT  
 ADDRESS 900 UNION TRUST BLDG., PGH., PA.  
 FARM FRANK HOPKINS (J.M. RINE)  
 TRACT \_\_\_\_\_ ACRES 131 LEASE No. 2283  
 WELL (FARM) No. 3 SERIAL No. 3457  
 ELEVATION (SPIRIT LEVEL) 1245'  
 QUADRANGLE CAMERON - SC  
 COUNTY MARSHALL DISTRICT LIBERTY  
 ENGINEER Robert M. Heil (G.E.A.)  
 ENGINEER'S REGISTRATION No. 361-E  
 FILE No. \_\_\_\_\_ DRAWING No. Y-25-28  
 DATE 12 NOV. 1959 SCALE 1" = 500'

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

WELL LOCATION MAP

FILE No. Mars-27-Redrill

+ 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.

*too crowded to plot*

9-0 25

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: YEATER, THELMA

Operator Well No.: L-3457

LOCATION: Elevation: 1,245.00 Quadrangle: CAMERON

District: LIBERTY County: MARSHALL  
Latitude: 7900 Feet South of 39 Deg. 47Min. 30 Sec.  
Longitude 5620 Feet West of 80 Deg. 35 Min. Sec.

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

Agent: RICHARD L. COTY

Inspector: RANDAL MICK  
Permit Issued: 07/24/95  
Well work Commenced: 10/11/95  
Well work Completed: 12/7/95  
Verbal Plugging  
Permission granted on: N/A  
Rotary  Cable \_\_\_\_\_ Rig  
Total Depth (feet) 2243'  
Fresh water depths (ft) \_\_\_\_\_  
NOT RECORDED BY DRILLER  
Salt water depths (ft) \_\_\_\_\_  
NOT RECORDED BY DRILLER  
Is coal being mined in area (Y/N)? No  
Coal Depths (ft): PH COAL 866'-872'

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 10 3/4" OD	242'	242'	118
8 5/8" OD	1268'	1268'	295
7" OD	1966'	1966'	283
4 1/2" OD	2237'	2237'	126

OPEN FLOW DATA

Producing formation BIG INJUN SAND Pay zone depth (ft) 2106'-36'  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 14,565 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure 400 psig (surface pressure) after 96 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

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: Ronald A. Shoff  
Date: January 14, 1997

JAN 24 1997

10/12/95 CLEANED OUT TO TOTAL DEPTH = 2243' G.I.L.

10/16/95 RAN 2237' G.I.L. OF 4 1/2" OD, K-55, 11.6 gpp CASING AND HALLIBURTON CEMENTED IT IN PLACE WITH 100<sup>SXS</sup>.

10/17/95 INSTALLED A NEW 8 5/8" x 4 1/2" API 2000, NATIONAL-OILWELL WELLHEAD WITH 2-4 1/16" API 2000, BARTON GATE VALVES,

11/14/95 HALLIBURTON LOGGING PERFORATED THE 4 1/2" OD CASING FROM 2106' TO 2136' @ 6<sup>S#OTS</sup>/FOOT.

11/29/95 HALLIBURTON FRACTURED THE BIG INJUN SAND WITH 47<sup>blbl</sup> OF GELLED WATER. WELL SCREENED OUT AFTER PUMPING 1,000# OF 80/100 SAND.

FORMATION DEPTHS (FROM SERVICE COMPANY LOGS RUN BY HALLIBURTON LOGGING ON 10/13/95):

<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>
PITTSBURGH COAL	866'	872'
BIG INJUN SAND	2017'	
DRILLED TD	—	2243'
LOGGED TD	—	2246'

Liberty District, Marshall County, W. Va.

The Manufacturers Light & Heat Co., 800 Union Trust Bldg.,  
Pittsburgh, Pa.

On 1 1/2 acres, surface owned by Frank Hopkins, Bank of Cameron,  
Cameron, W. Va., and mineral rights by ML&H Co., Pgh., Pa.

Drilled under permit Mars-27, issued Sept. 9, 1930.

Elevation, 1245'.

1 3/4" conductor, 16'; 10" casing, 250'; 8 1/2", 1279' 9"; 6-5/8",  
1979' 1".

No packer. Casing not perforated.

Coal was encountered at 575-579, 766-773, 866-875, and 1465-1470'.

Completion reported to Dept. of Mines Dec. 19, 1930.

Well was not shot.

Salt water at 1100'.

	Top.	Bottom.
Bluff Sand, gray, hard	555	- 575
Waynesburg Coal, black, soft	575	- 579
Mapletown Coal, black, soft	766	- 773
Pittsburgh Coal, black, soft	866	- 871
Murphy Sand, white, hard (water)	1090	- 1117
Little Dunkard Sand, white, hard	1290	- 1305
Big Dunkard Sand, white, hard	1365	- 1458
Freeport Coal, black, soft	1465	- 1474
Gas Sand, dark, hard	1555	- 1595
1st Salt Sand, white, hard	1640	- 1690
2nd Salt Sand, white, hard	1704	- 1755
Maxton Sand, white, hard	1917	- 1942
Pencil Cave, dark, soft	1942	- 1949
Big Lime, white, hard	1949	- 1963
Big Injun Sand, white, hard	1963	
Total depth		2060



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Cameron

WELL RECORD

Permit No. MARS-27-R

Storage  
Oil or Gas Well GAS  
(KIND)

Company <u>The Manufacturers Light and Heat Company</u>	Casing and Pa. Tubing	Used in Drilling	Left in Well	Packers
Address <u>800 Union Trust Building, Pittsburgh, Pa.</u>				
Farm <u>F. Hopkins (J. M. Rine) Acres 131</u>	Size			
Location (waters) _____	16			Kind of Packer _____
Well No. <u>3457</u> Elev. <u>1245'</u>	13			
District <u>Liberty</u> County <u>Marshall</u>	10 <u>3/4"</u>	<u>242</u>	<u>242</u>	Size of _____
The surface of tract is owned in fee by _____	<u>8 1/2"</u>	<u>931</u>	<u>1268</u>	Depth set _____
Address _____	<u>7"</u>	<u>1966</u>	<u>1966</u>	
Mineral rights are owned by _____	<u>5 3/16"</u>			Perf. top _____
Address _____	<u>8"</u>			Perf. bottom _____
Drilling commenced <u>October 16, 1959</u>	<u>2"</u>			Perf. top _____
Drilling completed <u>December 14, 1959</u>	Liners Used _____			Perf. bottom _____
Date Shot From <u>0'</u> To <u>2250'</u>				
With _____				

Open Flow /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch

Volume \_\_\_\_\_ Cu. Ft.

Rock Pressure 25 lbs. 72 hrs.

Oil \_\_\_\_\_ bbls., 1st 24 hrs.

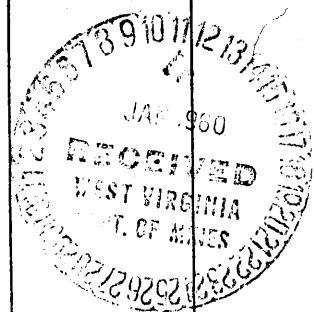
Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet

Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

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
✓Pittsburgh Coal		Thickness 6	868	874			
✓Big Dunkard Sand		56	1374	1430			
✓Big Lime			1970				
✓Big Injun Sand				Not Drill Through			
Present Depth				2062			
Big Injun Sand Drilled to				2250	Gas at 2110 to 2117		
Final Depth				2250			



RECEIVED

051 27 W

Page \_\_\_ of \_\_\_

FORM WVA Division of Environmental Protection

STATE OF WEST VIRGINIA

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

JUN 22 1995

Well Permit Operator: <sup>175</sup> COLUMBIA GAS TRANSMISSION CORP. 10450 (4) 278

Operator's Well Number: L-3457 3) Elevation: 1216'

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

Issued 07/24/95  
Expires 07/24/97

Proposed Target Formation(s): <sup>371</sup> BIG INJUN SAND

6) Proposed Total Depth: 2250 feet

7) Approximate fresh water strata depths: 100'

8) Approximate salt water depths: 1090'

9) Approximate coal seam depths: 575'-579', 766'-773', 866'-871'

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

11) Proposed Well Work: CLEANOUT TO T.D. INSTALL NEW 4-1/2" OD CASING AND 4-1/2" X 8-5/8" WELLHEAD. PERFORATE AND FRACTURE THE BIG INJUN SAND.

12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
<b>Conductor</b>						
EXISTING <b>Fresh Water</b>	10-3/4" OD	H-40	32.75#	242'	242'	118
EXISTING <b>Coal</b>	8-5/8" OD	J-55	24#	1268'	1268'	295
EXISTING <b>Intermediate</b>	7" OD	J-55	20#	1966'	1966'	283
PROPOSED <b>Production</b>	4-1/2" OD	K-55	11.6#	2250'	2250'	129
<b>Tubing</b>						
<b>Liners</b>						

3805/8/11/1

PACKERS : Kind NONE  
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)

20832



**RECEIVED**  
WV Division of  
Environmental Protection

**JUN 22 1995**

Permitting  
Office of Oil & Gas

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

Page 1 of \_\_\_\_\_  
Form WW2-A  
(09/87)  
File Copy

1) Date: 06/06/95  
2) Operator's well number  
L-3457  
3) API Well No: 47 - 051 - 00027 -W  
State - County - Permit

4) Surface Owner(s) to be served:  
(a) Name THELMA YEATER  
Address RD 5, BOX 82A  
CAMERON, WV 26033  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector RANDAL MICK  
Address 111 BLACKSHORE DRIVE  
MANNINGTON, WV 26582  
Telephone (304)- 986-3324

5) (a) Coal Operator:  
Name NONE  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name CONSOLIDATION COAL CO.  
Address 450 RACE TRACK ROAD  
WASHINGTON, PA 15301  
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 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 2 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.

**OFFICIAL SEAL**  
NOTARY PUBLIC STATE OF WEST VIRGINIA  
PHYLLIS M. SUTTON  
COLUMBIA GAS TRANSMISSION CORP.  
P. O. BOX 1273 - CHARLESTON, WV 25325  
MY COMMISSION EXPIRES 11 - 20 - 2001

Well Operator COLUMBIA GAS TRANSMISSION CORP.  
By: RICHARD L. COTY *Richard L. Coty*  
Its: MANAGER - WELL SERVICES  
Address P. O. BOX 1273  
CHARLESTON, WV 25325-1273  
Telephone 304-357-3034

Subscribed and sworn before me this 6<sup>th</sup> day of June, 1995  
*Phyllis M. Sutton* Notary Public  
My commission expires November 20, 2001