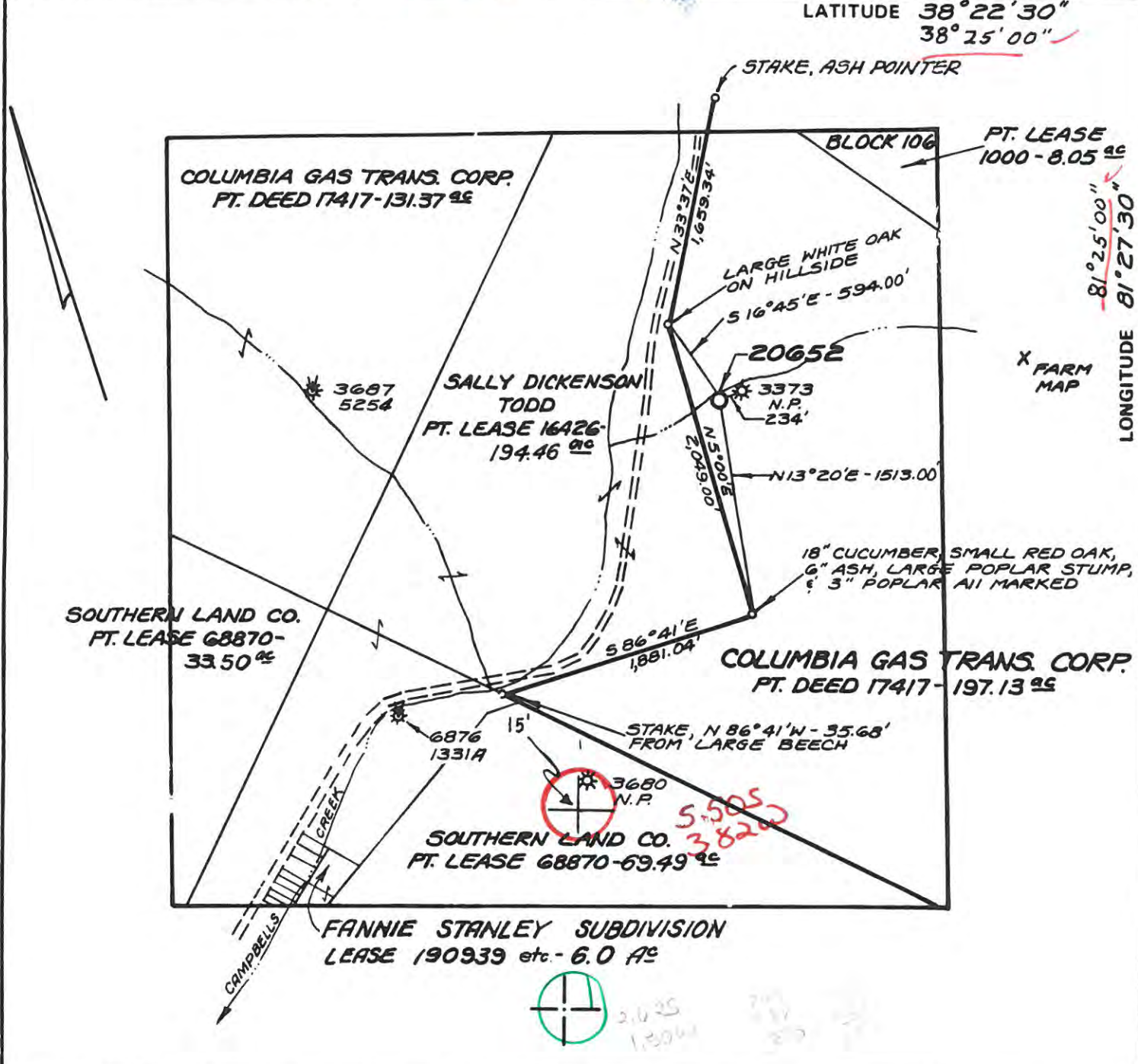


68 5-12-83

7,900'



FILE NO. 68/57  
 DRAWING NO. 20652  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION U.S. GOV'T. B.M. AT TAD SCHOOL ELEV. 659'

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. \_\_\_\_\_ L.L.S. 99 W.VA.

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78) LAT: 38° 20' 12"  
LONG: 81° 29' 09"



DATE MARCH 1, 19 83  
 OPERATOR'S WELL NO. 20652  
 API WELL NO. 47 - 039 - 3968  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 696.39' WATER SHED CAMPBELLS CREEK  
 DISTRICT MALDEN COUNTY KANAWHA  
 QUADRANGLE QUICK, W.VA. Clendenin 15' WC  
 SURFACE OWNER POSLER COAL CO. ACREAGE 3.594  
 OIL & GAS ROYALTY OWNER COLUMBIA GAS TRANS. CORP. LEASE ACREAGE 3.594  
 LEASE NO. 17417

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

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION TUSCARORA ESTIMATED DEPTH 6,495'  
 WELL OPERATOR COLUMBIA GAS TRANS. CORP. DESIGNATED AGENT J. L. WEEKLEY  
 ADDRESS BOX 1273 ADDRESS SAME  
CHARLESTON, W.VA. 25325

RECEIVED

JAN 24 1985



IV-35 (Rev 8-81)

OIL & GAS DIVISION

DEPT. OF MINES State of West Virginia

Department of Mines Oil and Gas Division

Date January 21, 1985

Operator's

Well No. 20652

Farm Posler Coal Company

API No. 47 - 039 - 0396

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal / (If "Gas," Production x / Underground Storage / Deep x / Shallow /)

LOCATION: Elevation: 708' Watershed Campbells Creek District: Malden County Kanawha Quadrangle Quick

COMPANY Columbia Gas Transmission Corporation

ADDRESS P. O. Box 1273, Charleston, WV

DESIGNATED AGENT J. L. Weekley

ADDRESS P. O. Box 1273, Charleston, WV

SURFACE OWNER Posler Coal Company

ADDRESS P. O. Box 311, Charleston, WV

MINERAL RIGHTS OWNER Columbia Gas Trans.

ADDRESS P. O. Box 1273, Charleston, WV

OIL AND GAS INSPECTOR FOR THIS WORK Craig Duckworth P. O. Box 454 ADDRESS Mt. Lookout, WV

PERMIT ISSUED 6/16/83

DRILLING COMMENCED 8/2/83

DRILLING COMPLETED 8/19/83

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON:

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-1 1/2, 13-3/4, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2 3/8, and Liners used.

GEOLOGICAL TARGET FORMATION Tuscarora Depth 6495 feet

Depth of completed well 6317 feet Rotary x / Cable Tools

Water strata depth: Fresh feet; Salt feet

Coal seam depths: 21-24, 366-370 Is coal being mined in the area?x

OPEN FLOW DATA

Producing formation Tuscarora Pay zone depth 6274-6284 feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow 2200 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 1625 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

FEB 04 1985

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Acidized Tuscarora 10-5-84 with 1000 gallons MSR mud acid.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fire and salt water, coal, oil and c
Dirt			0	21	
Coal			21	24	
Sand			24	90	
Sand and Shale			90	130	
Sand			130	185	
Sand and Shale			185	195	
Shale			195	225	
Sand			225	280	
Shale			280	366	
Coal			366	370	
Sand			370	470	
Shale			470	485	
Sand and Shale			485	530	
Sand			530	625	
Shale			625	650	
Salt Sand			650	1000	
R. R. Shale			1000	1045	
Sand			1045	1065	
Shale			1065	1095	
Sand			1095	1154	
Greenbrier			1150	1325	
Onondaga			4640	4730	
Williamsport			5520	5540	
<u>Tuscarora</u>			6220	6300	
LTD			6304		
DTD			<u>6317</u>		

(Attach separate sheets as necessary)

Columbia Gas Transmission Corporation

Well Operator

By:

Date:

January 21, 1985

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ... encountered in the drilling of a well."



1) Date: May 10, 19 83  
 2) Operator's Well No. 20652  
 3) API Well No. 47 State 039 County 3968 Permit

DRILLING CONTRACTOR:

Ray Resources Corp.

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  )
- 5) LOCATION: Elevation: 696.39 Watershed: Campbells Creek  
 District: Malden County: Kanawha Quadrangle: Quick
- 6) WELL OPERATOR Columbia Gas Transmission Corp. 11) DESIGNATED AGENT J. L. Weekley  
 Address P. O. Box 1273 Address P. O. Box 1273  
Charleston, WV 25325 Charleston, WV 25325
- 7) OIL & GAS ROYALTY OWNER Columbia Gas Transmission Corp. 12) COAL OPERATOR Pratt Mining  
 Address \_\_\_\_\_ Address P. O. Box 1731  
 Acreage \_\_\_\_\_ Mansford, WV 25103
- 8) SURFACE OWNER Posler Coal Co. 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Address P. O. Box 311 Name Posler Coal Company  
Charleston, WV 25321 Address \_\_\_\_\_
- 9) FIELD SALE (IF MADE) TO:  
 Address \_\_\_\_\_
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Craig Duckworth  
 Address P. O. Box 454  
Mt. Lookout, WV
- 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Name Pratt Mining Co.  
 Address \_\_\_\_\_
- 15) PROPOSED WORK: Drill  / Drill deeper  / Redrill  / Fracture or stimulate  /  
 Plug off old formation  / Perforate new formation  /  
 Other physical change in well (specify) \_\_\_\_\_
- 16) GEOLOGICAL TARGET FORMATION, Tuscarora
- 17) Estimated depth of completed well, 6495 feet
- 18) Approximate water strata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.
- 19) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes  / No

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	20"			X		60'	60'	To surface	Kinds
Fresh water	13-3/8"			X		225'	225'	To surface	
Coal	9-5/8"			X		2350'	2350'	To surface	Sizes
Intermediate	7"			X		5200'			
Production	4-1/2"			X		6495'			Depths set
Tubing									
Liners									Perforations:
									Top Bottom

21) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: [Signature]  
 My Commission Expires August 13, 1987

Signed: \_\_\_\_\_  
 Its: Director, Drilling & Operations

OFFICE USE ONLY

DRILLING PERMIT

Permit number 47-039-3968

Date June 15 19 83

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires February 16, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.  
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
  - (1) A brief description of the tract of land including the district and county wherein the tract is located;
  - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
  - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
  - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19\_\_\_\_\_

By \_\_\_\_\_

Its \_\_\_\_\_