



REVISED 4-6-82

FILE NO. 70-55
 DRAWING NO. 20977
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION U.S. GOV'T B.M. ELEVATION 673.017'

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

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE Oct 16, 19 81
 OPERATOR'S WELL NO. 20977
 API WELL NO. 47-039-3896
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

LATITUDE: 38°19'06"
 LONGITUDE: 81°28'39"

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

LOCATION: ELEVATION 1288.14' WATER SHED POINTLICK FORK OF CAMPBELLS CREEK
 DISTRICT MALDEN COUNTY KANAWHA
 QUADRANGLE QUICK 563 Clendenine 15 SW 029

SURFACE OWNER POSLER COAL CO. ACREAGE 3594
 OIL & GAS ROYALTY OWNER SOUTHERN LAND CO. LEASE ACREAGE 690 ACRE UNIT
 LEASE NO. 68870

PROPOSED WORK: DRILL 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 6775'
 WELL OPERATOR COL. GAS TRANS. CORP. DESIGNATED AGENT J.P. HENNING
 ADDRESS CHARLESTON, W. VA 25325-1279 ADDRESS SAME

SEP 7 1982



Date March 17, 1987
 Operator's Well No. 20977
Farm Posler Coal Company
 API No. 47 - 039 - 3896

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 APR 01 1987

State of West Virginia
 Department of Mines
 Oil and Gas Division

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY 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: 1288.14 Watershed Point Lick of Campbells Creek
 District: Malden County Kanawha Quadrangle Quick

COMPANY Columbia Gas Transmission Corporation

ADDRESS P. O. Box 1273, Charleston, WV 25325

DESIGNATED AGENT R. C. Weidner

ADDRESS P. O. Box 1273, Charleston, WV 25325

SURFACE OWNER Posler Coal Company

ADDRESS 1401 Kanawha Valley Bldg, Charleston, WV 25301

MINERAL RIGHTS OWNER Southern Land Company

ADDRESS 1401 Kanawha Valley Bldg, Charleston, WV 25301

OIL AND GAS INSPECTOR FOR THIS WORK Homer H. Daugherty
Linden Rt. Box 3A
 ADDRESS Looneville, WV 25259

PERMIT ISSUED 9-1-82

DRILLING COMMENCED 9-4-82

DRILLING COMPLETED 9-30-82

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20- 18 Cond.	29'	29'	To surface
13- 10 ^{3/8} "	811'	811'	796'
9 5/8	2415'	2415'	1182'
8 5/8			
7	5425'		119'
5 1/2			
4 1/2	6842'		143'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Tuscarora Depth 6775 feet

Depth of completed well 6852 feet Rotary X / Cable Tools _____

Water strata depth: Fresh _____ feet; Salt _____ feet

Coal seam depths: 207'-216' Is coal being mined in the area? Yes

OPEN FLOW DATA

Producing formation Tuscarora Pay zone depth 6798-6808 feet

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

Final open flow 1500 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 1535 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

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

Perforated @ 6798' - 6808' - 16 holes.
Acidized with 2 bbls. 15% HCl.
Completed 12-29-86.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand			0	36	
Sand & Shale			36	207	
Coal			207	216	
Shale			216	1060	
Sand Gray Hard			1060	1150	
Sand White Hard			1150	1570	
Shale Gray Soft			1570	1600	
Sand Gray Hard			1600	1665	
Shale Gray Soft			1665	1688	
Lime Gray Hard			1688	1857	
Shale Gray Soft			1857	6580	
Red Rock			6580	6588	
Gray Shale			6588	6720	
Clinton Shale			6720	6760	
Tuscarora			6760	6820	
✓ Juniaata Shale			6820	6852	
				6852	T.D.

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

COLUMBIA GAS TRANSMISSION CORPORATION

Well Operator

By:

Date:

Rudolph
MAR 20 1987

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 coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep X / Shallow ___)

LOCATION: Elevation: 1288.14 Watershed: Point Lick Fork of Campbells Creek
District: Malden County: Kanawha Quadrangle: Quick

WELL OPERATOR Columbia Gas Transmission Corp.
Address P. O. Box 1273
Charleston, WV 25325

DESIGNATED AGENT J. L. Weekley
Address P. O. Box 1273
Charleston, WV 25325

OIL AND GAS ROYALTY OWNER Southern Land Company
Address 1401 Kanawha Valley Bldg.
Charleston, WV 25301
Acreage 3594

COAL OPERATOR Pratt Mining Company
Address P. O. Box 175
Hansford, WV 25103

SURFACE OWNER Posler Coal Company
Address 1401 Kanawha Valley Bldg.
Charleston, WV 25301
Acreage 3504

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME Southern Land Company
Address 1401 Kanawha Valley Bldg.
Charleston, WV 25301

FIELD SALE (IF MADE) TO:
NAME _____
Address _____

NAME Dickenson Properties Inc
Address 1401 Kanawha Valley Bldg.
Charleston, WV 25301

OIL AND GAS INSPECTOR TO BE NOTIFIED:

NAME Fred Burdette
Address Box 190 Cicerone Rt.
Sissonville, WV 25320
Telephone 988-9263

COAL LESSEE WITH DECLARATION ON RECORD:
NAME Pratt Mining Company
Address P. O. Box 175
Hansford, WV 25103

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The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease X / other contract ___ / dated 2/1, 1973, to the undersigned well operator from _____

(If said deed, lease, or other contract has been recorded:)

Recorded on _____, 19____, in the office of the Clerk of County Commission of Kanawha County, West Virginia, in 188 Book at page 387. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper ___ / Redrill ___ / Fracture or stimulate ___ / Plug off old formation ___ / Perforate new formation ___ / Other physical change in well (specify) _____

---planned as shown on the work order on the reverse side hereof.

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 receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

Columbia Gas Transmission Corporation
Well Operator
By: J. L. Weekley
Its: Director, Drilling & Operations

BLANKET BOND

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Ray Resources
Address 2101 Washington St., East
Charleston, WV 25311

GEOLOGICAL TARGET FORMATION Tuscarora
Estimated depth of completed well 6775 feet. Rotary X / Cable tools /
Approximate water strata depths: Fresh, feet; salt, feet.
Approximate coal seam depths: 770'
Is coal being mined in this area: Yes / No x /

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For Drill, Left in Well), CEMENT FILL UP OR SACKS (Cubic ft.), PACKERS (Kinds, Sizes, Depths set, Perforations: Top Bottom)

NOTE: 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 §22-4-3a from the owner of any water well or dwelling within 200 feet of the proposed well.
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.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 5-1-83
BY [Signature]

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:

W A I V E R

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: