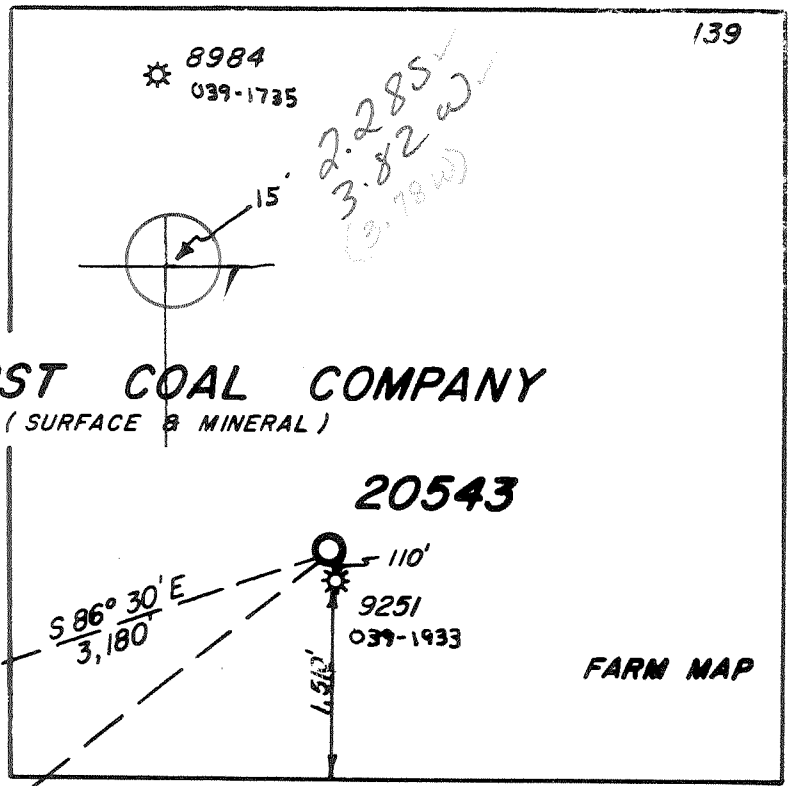
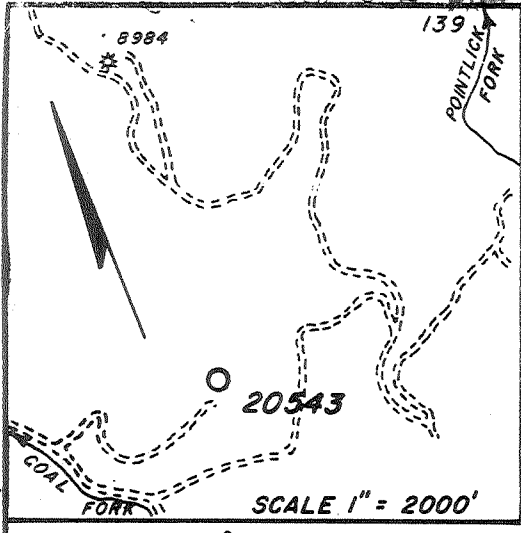


8,100'

Card 050

LATITUDE 38° 20' 00"



LONGITUDE 81° 25' 00"

12 000'

AMHERST COAL COMPANY

(SURFACE & MINERAL)

IRON PIPE & POINTERS
 9243
 039-1922

N 38° 05' W
 2,539.00'

SET STONE MARKED M.O.L.

N 46° 19' E
 2,418.93'

N 73° 15' E
 5,139'

9250
 039-1932



STAKE, PINE, TWO CHESTNUT OAK ALUMINUM PAINT

S 43° 00' E
 2,705.00'

"X" ON ROCK NEAR TOP OF RIDGE

FARM MAP X

9344
 039-2011

REVISED
 7-1-80
 9-16-80
 11-20-81

FILE NO. 68-55
 DRAWING NO. 20543
 SCALE 1" = 1320'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION U.S. GOV'T. BM
JJS-1965 EL. 839.0'

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) David C. Hart
 R.P.E. _____ L.L.S. 99

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78) LAT: 38° 18' 01"
 LONG: 81° 29' 12"



DATE 10-28, 19 81
 OPERATOR'S WELL NO. 20543
 API WELL NO. 47-039-3884
 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 1273.61' WATER SHED COAL FORK
 DISTRICT MALDEN COUNTY KANAWHA
 QUADRANGLE QUICK, W. VA. Clendenen 15' SW
 SURFACE OWNER AMHERST COAL COMPANY ACREAGE 640
 OIL & GAS ROYALTY OWNER AMHERST COAL COMPANY LEASE ACREAGE 1021
 LEASE NO. 20543
 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 CLINTON ESTIMATED DEPTH 7150'
 WELL OPERATOR COL. GAS TRANS. CORP. DESIGNATED AGENT J.R. HENNING
 ADDRESS P.O. BOX 1273 ADDRESS SAME
CHARLESTON W. VA. 25325 6-6 Indian Creek pool (358)

JUL 06 1982

RECEIVED

OCT 21 1983



IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES State of West Virginia
Department of Mines
Oil and Gas Division

Date October 19, 1983
Operator's Well No. 20543
Farm Amherst Coal Company
API No. 47 - 039 - 03884

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1273.61 Watershed Coal Fork
District: Malden County Kanawha Quadrangle Quick

COMPANY Columbia Gas Transmission Corporation
ADDRESS P. O. Box 1273, Charleston, WV 25325
DESIGNATED AGENT James L. Weekley
ADDRESS P. O. Box 1273, Charleston, WV 25325
SURFACE OWNER Amherst Coal Company
ADDRESS Port Amherst, Charleston, WV 25306
MINERAL RIGHTS OWNER Amherst Coal Company
ADDRESS Port Amherst, Charleston, WV 25306
OIL AND GAS INSPECTOR FOR THIS WORK Martin Nichols
P. O. Box 554
ADDRESS Charleston, WV 25045

PERMIT ISSUED _____
DRILLING COMMENCED August 4, 1982
DRILLING COMPLETED August 29, 1982

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 20-15 Cond. | 20' | 20' | 20 sacks |
| 13-1/8" | 564.70' | 564.70' | 502 |
| 9 5/8 | 2373.39' | 3273.39' | 1145 |
| 8 5/8 | | | |
| 7 | 5350' | 5350' | 117 |
| 5 1/2 | | | |
| 4 1/2 | 6686.38' | 6686.38' | 119 |
| 3 | | | |
| 2 3/8 | 6836.00' | 6836.00' | |
| Liners used | | | |

GEOLOGICAL TARGET FORMATION Tuscarora Depth 7150 feet
Depth of completed well 6785 feet Rotary / Cable Tools _____
Water strata depth: Fresh 76, 1156 feet; Salt _____ feet
Coal seam depths: 631' and 1059' Is coal being mined in the area? Yes

OPEN FLOW DATA

Producing formation Tuscarora Pay zone depth 6716-6728 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 9200 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 1700 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

No treatment ✓

WELL LOG

| FORMATION | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS Including indication of all fresh water, gas, oil and salt water, coal, oil and gas |
|------------------|-------|--------------|----------|-------------|--|
| Shale | | | 12 | 30 | |
| Sand & Shale | | | 30 | 280 | |
| Shale | | | 280 | 631 | |
| Coal | | | 631 | 635 | |
| Shale | | | 635 | 1059 | |
| Coal | | | 1059 | 1065 | |
| Shale | | | 1065 | 1098 | |
| Sand | | | 1098 | 1355 | |
| Sandy Shale | | | 1355 | 1425 | |
| Sand | | | 1425 | 1597 | |
| Lime | | | 1597 | 1843 | |
| Sand | | | 1843 | 1853 | |
| Sandy Shale | | | 1853 | 1869 | |
| Shale | | | 1869 | | |
| Sand | | | 6675 | | |
| <u>Tuscarora</u> | | | 6690 | 6740 | |
| LTD | | | | 6777 | |
| DTD | | | | 6785 | |

6690
1274
5416

(Attach separate sheets as necessary)

Columbia Gas Transmission Corporation

Well Operator

By:

Date:

October 19, 1988

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: 1273.61 Watershed: Coal Fork
District: Malden County: Kanawha Quadrangle: Quick

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

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

OIL AND GAS ROYALTY OWNER Amherst Coal Co.
Address Port Amherst
Charleston, WV 25306
Acreage 640

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

SURFACE OWNER Same as Royalty Owner
Address _____
Acreage _____

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME Same as Royalty Owner
Address _____

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

NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Martin Nichols
Address P. O. Box 554
Clendenin, WV 25045
Telephone 548-6993

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

RECEIVED

JUN 17 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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 6/1, 1910, 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 20 Book at page 331. 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: R. H. Short
Manager, Drilling & Operations, East

DIANET COPY

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN)

Address

GEOLOGICAL TARGET FORMATION Clinton

Estimated depth of completed well 7150 feet. Rotary X / Cable tools /
Approximate water strata depths: Fresh, 553 feet; salt, 873 feet.
Approximate coal seam depths:
Is coal being mined in this area: Yes 7 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 §2-4-12b 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 §2-4-8a 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 2-24-83
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: