

6500'

Latitude  $38^{\circ}22'30''$  (15')  $38^{\circ}25'$

**ANNE BLAIR ALDERSON, ET AL.**  
SURFACE & MINERAL

**20360-T**

X FARM MAP

CAMPBELL  
HOLLOW

562°05'E 204.2'  
562°20'E 295'  
570°35'E 209.3'  
"T" RAIL 20' FROM DRAIN SYCAMORE WITNESS  
"T" RAIL CHERRY WITNESS  
"T" RAIL IN LOW GAP ASH WITNESS

N32°30'E 1397'  
N11°00'E 2249'

2" IRON PIPE ON POINT

5.36 S  
3.34 W

Corrected location

S 3.37  
W 3.51

(15')  
S50°39'W 5732'

(15') 81°30'  
Longitude  $81^{\circ}32'30''$

13,150'

**SHERWOOD FOREST COMPANY**

**JOHN L. D. PAYNE**

STAKE ON HILLSIDE 2 SASSAFRAS & SYCAMORE WITNESS

**BENCH MARK DESCRIPTION**

U.S.G.S. DISC IN TOP OF EAST END OF SOUTH ABUTMENT OF BRIDGE OVER ELK TWO MILE CREEK AT INTERSECTION OF ROUTE 114 & AIRPORT ROAD STAMPED R-96 1956 - ELEVATION 611.931'

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by the rules and regulations of the oil and gas section of the mining laws of WEST VIRGINIA. Minimum degree of accuracy is one part in 200

ENGR. REG. No 2330 Signed John L. D. Payne  
BOX 1273 CHARLESTON, W.VA.

Company COLUMBIA GAS TRANS. CORP.  
Address BOX 1273 CHARLESTON, W.VA.  
Farm ANNE BLAIR ALDERSON, ET AL. TRUST.  
Lease 178614 Acres 1289.75<sup>ac</sup>  
Well Farm No. 6 Ser. No. 20360-T  
Elevation - Spirit Level 853.34'  
Quadrangle CHARLESTON EAST  
Township or District MALDEN CHARLESTON 15'  
County KANAWHA  
Sec., Lot, Qr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
Coordinates LONG. 81°33'52" LAT. 38°20'19"  
File No. 64-57 Dwg. No. \_\_\_\_\_  
Date 11-9-76 Scale 1" = 400'

**WELL LOCATION MAP**

STATE OF WEST VIRGINIA

(+) Denotes Values Of Well On United States Topographic Maps

**KAN - 2764**

Scale 15'  7 1/2'

**47 - 039** JAN 3 1977

6-6 Indian Creek (358)

Deep Well

RECEIVED

FEB 21 1978



OIL & GAS DIVISION  
DEPT. OF MINES

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Form OG-10

Quadrangle 64-57  
Permit No. Kan 2764

Company Columbia Gas Trans. Corp.  
Address Charleston  
Farm Anne Alderson Acres 1289  
Location (waters) Bakers Fork  
Well No. 20360-T Elev. 853  
District Malden County Kanawha  
The surface of tract is owned in fee by Anne Alderson  
Address Charleston  
Mineral rights are owned by Harry Paxton  
Address Charleston  
Drilling commenced 1-8-77  
Drilling completed 2-17-77  
Date Shot From To  
With

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13.3/8	240	240	
<del>XX</del> 9-5/8	2102	2102	Size of
8 1/4			
<del>XX</del> 7	5337	5337	Depth set
5 3/16			
4 1/2	6412	6412	
3			Perf. top 6344
2			Perf. bottom 6350
Liners Used			Perf. top
			Perf. bottom

Open Flow /10ths Water in Inch  
/10ths Merc. in Inch  
Volume 300 MCF Cu. Ft.  
Rock Pressure 1640 lbs. 24 hrs.  
Oil bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS)

Attach copy of cementing record.  
CASING CEMENTED SIZE No. Ft. Date  
Amount of cement used (bags)  
Name of Service Co.  
COAL WAS ENCOUNTERED AT FEET INCHES  
FEET INCHES FEET INCHES  
FEET INCHES FEET INCHES

WELL FRACTURED (DETAILS) Versa-Frac 30# System  
3914 Bbls fluid - 50,000# 80/100 sd & 284,000 20/40 sd  
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 1317 MCF  
ROCK PRESSURE AFTER TREATMENT 1640 HOURS 24  
Fresh Water 87' Feet Salt Water 1280' Feet  
Producing Sand Clinton Depth 6344 - 50

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil & Sh			0	45			
Sd & Sh			45	980	Water	87'	
Sd		Hard	980	1899	Water	1280'	
Lime - Big Lime		Hard	1899	2002			
Injun		Hard	2002	2052			
Shale		Soft	2052	4610			4610
Lime - Onondaga		Hard	4610	4720	Gas	4200'	854 -3756
Oriskany		Hard	4720	4772	Gas	4720'	
Dolomite - Helderberg & Salina		Hard	4772	5602			5602 854
Newburg		Hard	5602	5614	Water	5602'	-4748
Dolomite - McKenzie		Hard	5614	5880			6288 854
Shale - Rose Hill		Medium	5880	6288			5434
Clinton - Tuscarora		Hard	6288	6368	Gas	6344'	
Shale - Juniata		Medium	6368	6412			

FEB 23 1978



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
DEC 9 1976  
OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE December 7, 1976

Surface Owner Anne Blair Alderson, et al.

Company Columbia Gas Transmission Corporation

Address 1020 Peachtree Battle Ave., Atlanta, Ga. 30327

Address P. O. Box 1273, Charleston, W. Va.

Mineral Owner Same as above

Farm Anne Blair Alderson Acres 1289.75

Address \_\_\_\_\_ Location (waters) Crouch Hollow of Bakers Fork

Coal Owner Harry Paxton

Well No. 20360-T Elevation 853.34'

Address 910 Price St., Charleston, W. Va.

District Malden County Kanawha

Coal Operator Not operated

Quadrangle Charleston East

Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved

for drilling. This permit shall expire if operations have not commenced by 4-17-77

Robert H. Code  
Deputy Director - Oil & Gas Division

INSPECTOR

TO BE NOTIFIED Mr. Martin Nichols

ADDRESS P.O. Box 554, Clendenin, W. Va.

PHONE 548-6993

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated December 10 1966 by Anne Blair, Trustee made to Royal Oil & Gas Corp. and recorded on the 15th day of December 1966, in Kanawha County, Book 162 Page 119

NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
\_\_\_\_\_ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address  
of  
Well Operator

Very truly yours, Columbia Gas Transmission Corp.

(Sign Name) [Signature]

Director, Exploration & Development

P. O. Box 1273

Street

Charleston

City or Town

West Virginia 25325

State

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by [Signature]  
Director, Exploration & Development

KAN-2764

PERMIT NUMBER

47-039

THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT:  
NAME \_\_\_\_\_ NAME Mr. John Foster  
ADDRESS \_\_\_\_\_ ADDRESS P. O. Box 1273, Charleston, W. Va.  
TELEPHONE \_\_\_\_\_ TELEPHONE (304) 346-0951  
ESTIMATED DEPTH OF COMPLETED WELL: 6500' ROTARY X CABLE TOOLS \_\_\_\_\_  
PROPOSED GEOLOGICAL FORMATION: Tuscarora  
TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - <del>+</del> 3/8"	250'		
9 - 5/8	2125'		
8 - 5/8			
7			
5 1/2			
4 1/2	6500'		
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER \_\_\_\_\_ FEET  
APPROXIMATE COAL DEPTHS \_\_\_\_\_  
IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

PERMIT NUMBER \_\_\_\_\_

For Coal Company

"I have read and understand the regulations and conditions herein and agree to carry out the specified requirements of Article 22, Chapter 22 of the West Virginia Code."

By \_\_\_\_\_