

**BENCH MARK DESCRIPTION**  
 U.S. SOV'T. STANDARD DISK # 82-1EA-1963  
 NEAR FORKS OF ROAD NEAR CHARR, W. VA.  
 ELEV. 864'

- 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. N° 2330  
 BOX 1273 CHARLESTON, W. VA.

Signed *James E. Chapman*

Company COLUMBIA GAS TRANS. CORP.  
 Address BOX 1273 CHARLESTON, W. VA.  
 Farm JAMES PHILLIPS, ROGERS (SURF)  
 Lease 13188 Acres 112  
 Well Farm No. 10 Ser. No. 20317  
 Elevation - Spirit Level 930.68'  
 Quadrangle NEWTON, W. VA.  
 Township or District HENRY  
 County CLAY  
 Sec., Lot, Qr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Coordinates LAT. 38°31'26" LONG. 81°09'50"  
 File No. 86-71 Dwg. No. \_\_\_\_\_  
 Date SEPT. 15, 1975 Scale 1" = 400'

**WELL LOCATION MAP**  
 STATE OF WEST VIRGINIA  
 (+) Denotes Values Of Well On United States Topographic Maps  
**CLA-1126-FRAC.**  
 Scale 15'  7 1/2'   
 OCT 16 1983  
**47-015**

1900' E. of ... Granny Creek - Stockly (200)





STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
**Oil and Gas Division**  
**WELL RECORD**

Quadrangle Newton  
 Permit No. CLA-1126

Rotary X Oil \_\_\_\_\_  
 Cable \_\_\_\_\_ Gas \_\_\_\_\_  
 Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
 Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
 Disposal \_\_\_\_\_ Evaluation  
 (Kind)

Company COLUMBIA GAS TRANS. CORP.  
 Address Box 1273, Chas., WV 25325  
 Farm James Phillips #10 Acres 112  
 Location (waters) Summers Fork  
 Well No. 20317 Elev. 930.68  
 District Henry County Clay  
 The surface of tract is owned in fee by Ralph Rogers  
 Address Ovapa, WV 25150  
 Mineral rights are owned by W.P. Rogers, et al  
 Address Hurricane, WV  
 Drilling Commenced 11/4/75  
 Drilling Completed 11/13/75  
 Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
 Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
 Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.  
 Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8		258	Cemented to surf
7			
5 1/2			
4 1/2		1902	70 sacks
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
 Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet  
 Producing Sand \_\_\_\_\_ Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Big Lime			1670	1777		
Injun			1777	1829		
Squaw			1858	1866		
Weir Silt			1866			
TOTAL DEPTH			1919			

(over)  
 \* Indicates Electric Log tops in the remarks section.



IV-35  
(Rev 8-81)

Date December 3, 1986  
Operator's  
Well No. 20317  
Farm James Phillips  
API No. 47 - 015 - 1126 Frac

State of West Virginia  
Department of Mines  
Oil and Gas Division

RECEIVED  
DEC 11 1986

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

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

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

LOCATION: Elevation: 930.68 Watershed Summers Fork  
District: Henry County Clay Quadrangle Newton

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 Ralph Rogers

ADDRESS Ovapa, WV 25150

MINERAL RIGHTS OWNER William P. Rogers

ADDRESS   

OIL AND GAS INSPECTOR FOR THIS WORK   

ADDRESS   

PERMIT ISSUED 10-14-83

DRILLING COMMENCED 10-15-83

DRILLING COMPLETED 10-15-83 ✓

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 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Injun Depth 1919 feet

Depth of completed well 1919 feet Rotary    / Cable Tools   

Water strata depth: Fresh    feet; Salt    feet

Coal seam depths:    Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation    Pay zone depth    feet

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

Final open flow    -    Mcf/d Final open flow 3 Bbl/d

Time of open flow between initial and final tests    hours

Static rock pressure    psig (surface measurement) after    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

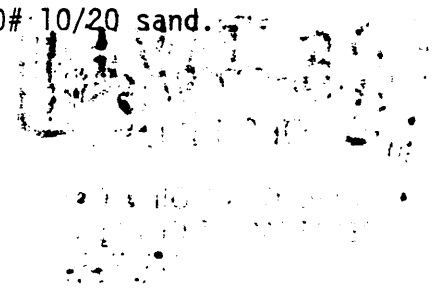
Final open flow    Mcf/d Oil: Final open flow    Bbl/d

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.

Treated with 500 gallons HCl acid, 1000# 20/40 sand and 200# 10/20 sand.



WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	<u>REMARKS</u> Including indication of all fresh and salt water, coal, oil and gas

(Attach separate sheets as necessary)

Columbia Gas Transmission Corporation  
Well Operator

By: R. A. [Signature]

Date: December 3, 1986

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  
DEPARTMENT OF MINES

RECEIVED

OCT 30 1975

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 October 28, 1975

Surface Owner Ralph Rogers  
Address Ovapa, West Va. 25150  
Mineral Owner William P. Rogers, etal  
Address 336i Teays Valley Rd., Hurricane, WV  
Coal Owner Same as above 25526  
Address \_\_\_\_\_  
Coal Operator Not Operated  
Address \_\_\_\_\_

Company Columbia Gas Transmission Corporation  
Address P.O. Box 1273, Charleston, WV 25325  
Farm James Phillips #10 Acres 112  
Location (waters) Summers Fork  
Well No. 20317 Elevation 930.68'  
District Henry County Clay  
Quadrangle Newton

**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 3-1-76.

Robert Hoover  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Martin Nichols  
PH: 548-6983 ADDRESS Clendenin, WV.

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 April 23 1915 by James Phillips made to Columbia Gas Trans. Corp. and recorded on the 23rd day of July 1915 in Clay County, Book 8 Page 223

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.

Very truly yours, COLUMBIA GAS TRANSMISSION CORP.

(Sign Name) [Signature]  
Well Operator  
Director, Exploration & Development  
Post Office Box 1273  
Street  
Charleston  
City or Town  
West Virginia 25325  
State

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey  
P. O. Box 879  
Morgantown, W. Va. 26505  
AC 304-296-4461

\*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.

Clay-1126 PERMIT NUMBER

47-015

**BLANKET BOND**





1) Date: September 14, 19 83  
 2) Operator's Well No. 20317  
 3) API Well No. 47 State 015 County 1126-FRAC Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
**APPLICATION FOR A WELL WORK PERMIT**

4) WELL TYPE: A Oil  Gas   
 B (If "Gas", Production  Underground storage  Deep  Shallow )  
 5) LOCATION: Elevation: 930.68 Watershed: Summers Fork County: Clay Quadrangle: Newton  
 District: Henry  
 6) WELL OPERATOR Columbia Gas Transmission Corp. Address P. O. Box 1273  
Charleston, WV 25325  
 7) DESIGNATED AGENT J. L. Weekley Address P. O. Box 1273  
Charleston, WV 25325  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name \_\_\_\_\_ Address \_\_\_\_\_  
 9) DRILLING CONTRACTOR: Name \_\_\_\_\_ Address \_\_\_\_\_

10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate   
 Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) Injun  
 12) Estimated depth of completed well, 1900 feet  
 13) Approximate trata depths: Fresh, \_\_\_\_\_ feet  
 14) Approximate coal seam depths: \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 Is coal being mined in the area? Yes  No

RECEIVED  
 OCT 14 1983  
 OIL & GAS DIVISION  
 DEPT No. 015 MINES

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New		Used		FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.					For drilling	Left in well		Kinds	Sizes
Conductor												
Water												
Intermediate												
Production												

OFFICE USE ONLY  
**DRILLING PERMIT**  
 Number 47-015-1126-FRAC

\_\_\_\_\_ 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 the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper and gas inspector 24 hours before actual permitted work has commenced.)  
 Date October 14 19 83  
 The work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse of this permit posted at the drilling location.

Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>850</u> <u>581</u>
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[Signature]  
 Administrator, Office of Oil and Gas