



- Fracture Before 6/5/29
- New Location
- Drill Deeper
- Redrill
- Abandonment

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 Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in Paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

Company **COLUMBIA GAS TRANSMISSION CORP.**

Address **CHARLESTON, W. VA.**

Farm **CLARENCE J. KNOTTS, ET. AL.**

Tract _____ Acres **94** Lease No. **AS-538**

Well (Farm) No. _____ Serial No. **7532**

Elevation (Spirit Level) **2435.64'**

Quadrangle **KINGWOOD C**

County **PRESTON** District **UNION**

Engineer **Adrian E. Chapman**

Engineer's Registration No. **2330**

File No. **170-127** Drawing No. _____

Date **APR. 20, '71** Scale **1" = 400'**

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

WELL LOCATION MAP
FILE NO. **PRES-163**

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.



JAN 26 1972

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION 14

Rotary
Spudder
Cable Tools
Storage

Quadrangle Kingwood

Permit No. Pres. 163

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Columbia Gas Transmission Corporation
Address P. O. Box 1067, Elkins, W. Va.
Farm C. J. Knotts, Et. Al. Acres 94
Location (waters) Big Run
Well No. X-76S 7532 Elev. 2435'
District Union County Preston

The surface of tract is owned in fee by
Address

Mineral rights are owned by
Address

Drilling commenced September 3, 1971

Drilling completed September 18, 1971

Date Shot From To

With

Open Flow /10ths Water in Inch

/10ths Merc. in Inch

Volume 0 Cu. Ft.

Rock Pressure lbs. hrs.

Oil bbls., 1st 24 hrs.

WELL ACIDIZED (DETAILS) (See Reverse Side)

WELL FRACTURED (DETAILS)

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size	Ground Level		Kind of Packer
16			
13 3/8"	31'	31'	
10			Size of
9 5/8"	2414'	2414'	Depth set
7"	5763'	5763'	
5 3/16			
4 1/2			
3			Perf. top (See
2 3/8"	6076'	6076'	Perf. bottom Reverse
Liners Used			Perf. top Side)
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags) (See Reverse Side)
Name of Service Co. Halliburton and Dowell
COAL WAS ENCOUNTERED AT None FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open flow or bbls.) 4,760 Mcf 4,760,000
ROCK PRESSURE AFTER TREATMENT 2290# HOURS 1
Fresh Water Feet Salt Water Feet
Producing Sand Oriskany and Chert Depth

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
✓ Tully			5298'	5328'			Measured K.B. From
Shale			5328'	5748'			
✓ Onondaga			5748'	5768'			
✓ Chert - HUNTERSALL			5768'	5901'			
✓ Shale - NEEDMORE			5901'	5913'			
✓ Oriskany			5913'	6042'	Gas		
✓ Helderberg			6042'				
Total Depth				6082'			
				<u>485</u>			
					5748 2435 3313	5913 2435 3478	6042 2435 3607

(over)

FEB 7 1972

Formation	Color	Hard or Soft	Top / 4	Bottom	Oil, Gas or Water	Depth Found	Remarks
NOTE:							
13 3/8"	48#/ft.,	H-40;	casing cemented to surface with 25 sacks cement plus 2% CaCl.	September 3, 1971.	31' ground level, 48' kelly bushing.		
9 5/8"	36#/ft.,	K-55,	casing cemented to surface with 700 sack of Gilsonite plus 2% CaCl.	September 9, 1971.	Casing set at 2414' ground level, 2431' kelly bushing, 2411' threads off, 2428' threads on.		
7"	23#/ft.,	K-55,	Seal-lok casing cemented in 1000' with 220 cu. feet of Dowells RFC cement plus Kolite,	September 15, 1971.	Gel drilling mud to surface with 1 drum Baroid's B-33. Casing set 5' in chert. Casing set at 5763' ground level, 5778' kelly bushing, 5791' threads off, 5843' threads on.		
2 3/8"	4.6#/ft.,	J-55,	Seal-lok tubing run to T.D., (1) Baker Model "J" ported seating nipple, (1) Baker BFC Model "L" sliding sleeve. Sliding sleeve is 430' off bottom.	September 18, 1971.	6076' ground level, 6086' kelly bushing, 6068' threads off, 6111' threads on.		
Perforations:	Chert and Oriskany open hole.						
Logging:	Gamma Ray - Collar log and temperature. (5250' - 6084') September 18, 1971						
Stimulation:	<u>October 1, 1971</u>						
	2125# rock pressure, unloaded, would not gauge. Added 5 gallons soap plus 25 barrels fresh water and unloaded. No results, unable to gauge.						
	<u>October 7, 1971</u>						
	350# rock pressure. Dowell treated well using 5000 gallons 20% HCl acid, 800 barrels fresh water, 41 BPM, 3100# average pressure, plus N ₂ .						
	<u>October 8, 1971</u>						
	"12 4/10" water in 4", 1.87 M wet, 9.4#/gal. salt water.						
	<u>October 12, 1971</u>						
	Final open flow. 2290# rock pressure, 4.760 M, mist.						

Date January 20, 1972

APPROVED Columbia Gas Transmission Corporation Owner

By [Signature]
 (Title)
 Production and Storage Superintendent