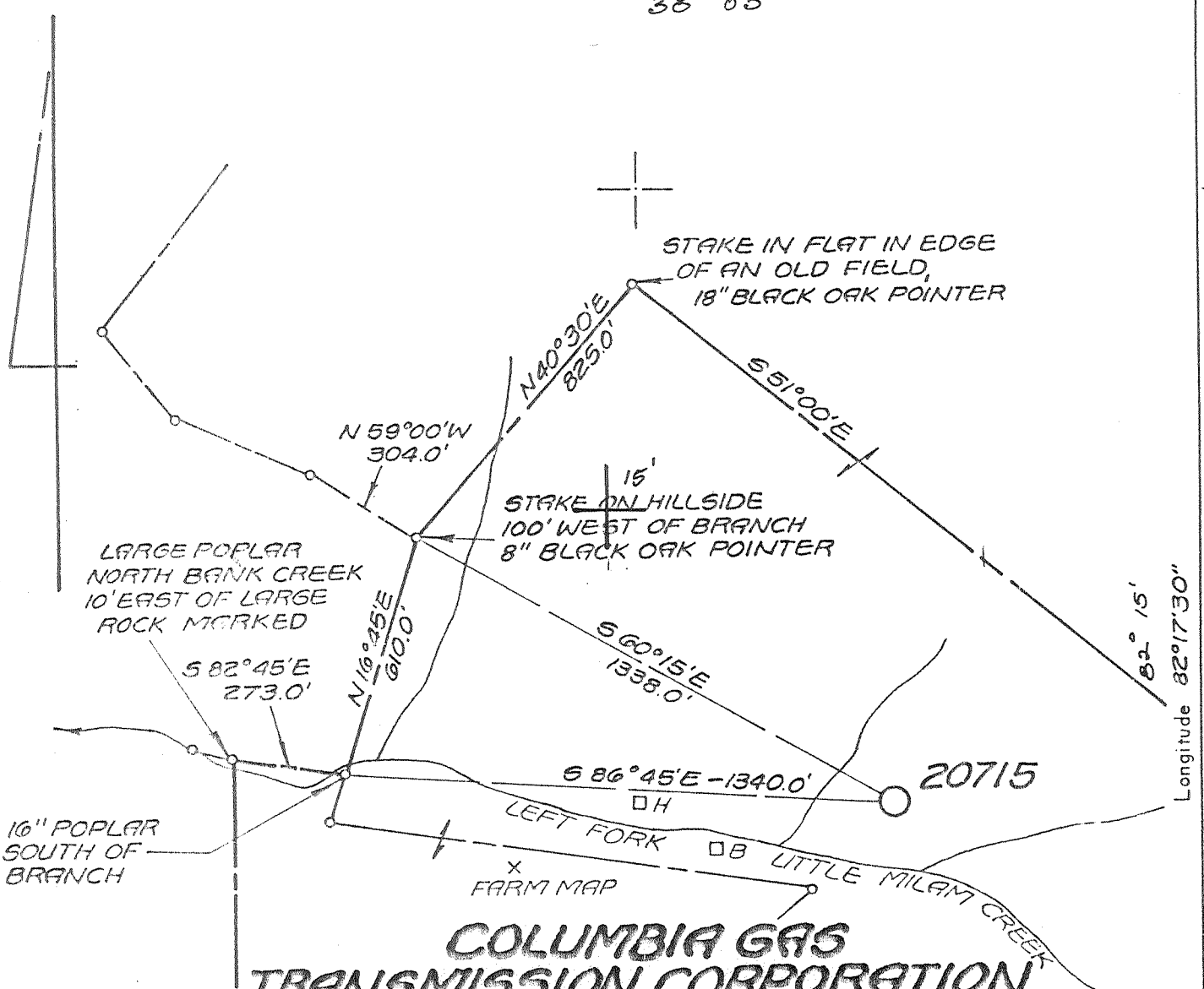


24 Bl. 4/.

6,900'

Latitude 38°02'30"  
38° 05'

2,950'



**COLUMBIA GAS TRANSMISSION CORPORATION**  
(MINERAL)  
**GOLDIE MAYNARD**  
(SURFACE)

**BENCH MARK DESCRIPTION**

U.S. GOVERNMENT STANDARD DISK  
IN LARGE ROCK, WEST SIDE  
MILAM CREEK ROAD  
ELEVATION 756'



"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 W.VA.  
Minimum degree of accuracy is one part in 200

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

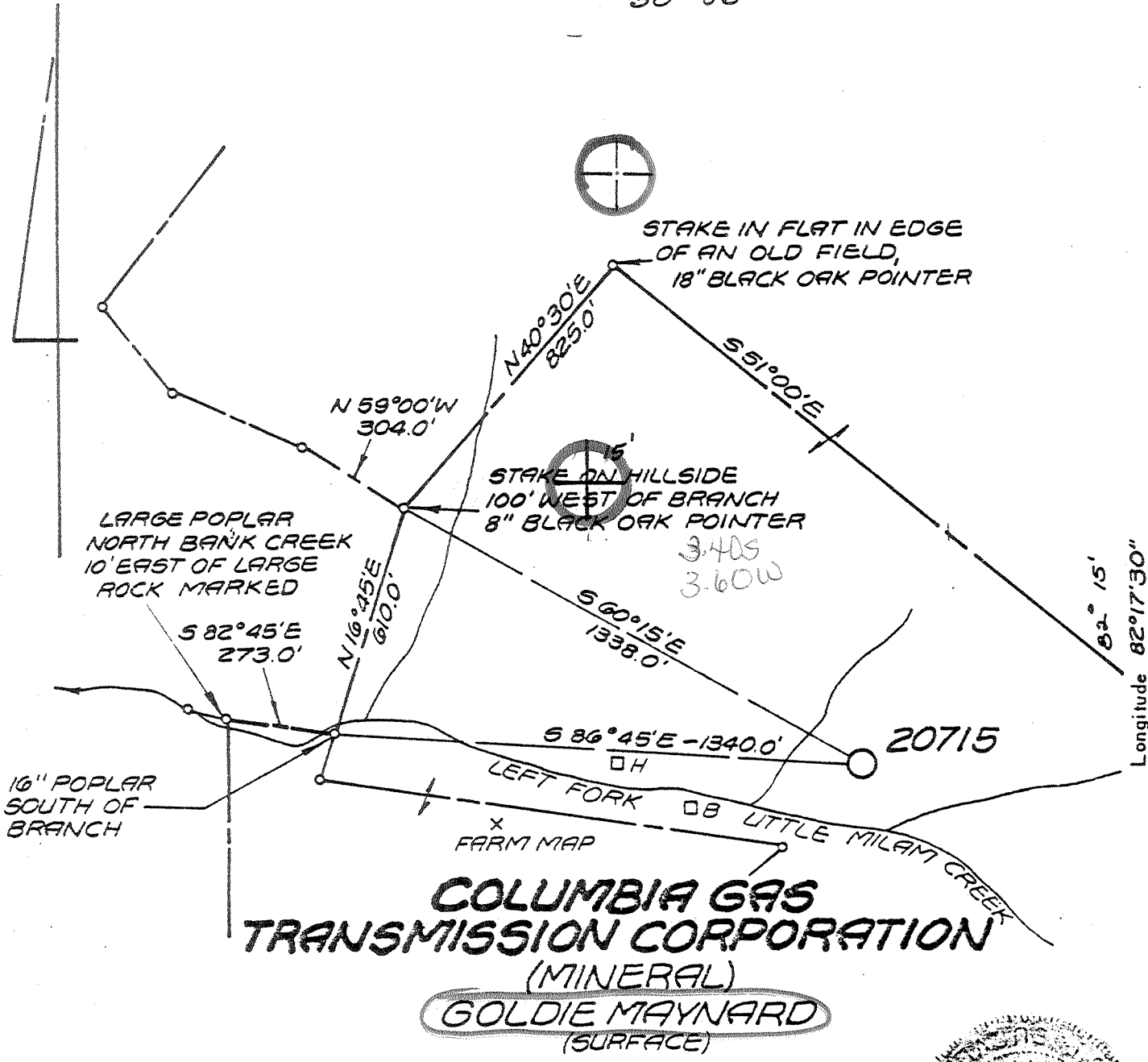
FORMATION - BROWN SHALE  
EST. T. D. - 3690'

Signed: Lloyd C. Hunt  
LICENSED LAND SURVEYOR #99(W.VA.)

Company COLUMBIA GAS TRANS. CORP.  
Address BOX 1273 CHARLESTON, W.VA.  
Farm COLUMBIA GAS TRANS. CORP. (MIN.)  
REFERENCE: 24689 Acres 74,735.91  
Well Farm No. \_\_\_\_\_ Ser. No. 20715  
Elevation - Spirit Level 972.14'  
Quadrangle KIAHSVILLE, W.VA. WY  
Township or District STONEWALL  
County WAYNE  
Sec., Lot, Or. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
Coordinates LAT: 38°02'01" LONG: 82°18'57"  
File No. 24-37 Dwg. No. \_\_\_\_\_  
Date 1-20-81 Scale 1" = 400'

FORM 149-C 4 CSD (6-1-V, 11-78)  
COLUMBIA GAS SYSTEM  
COLUMBIA GAS TRANSMISSION CORPORATION  
WELL LOCATION MAP  
**STATE OF WEST VIRGINIA**  
(+) Denotes Values of Well On United States Topographic Maps  
47-099-1742-P  
Scale 15'  7-1/2'   
MAR 16 1987

Deep well



**BENCH MARK DESCRIPTION**

U.S. GOVERNMENT STANDARD DISK  
IN LARGE ROCK, WEST SIDE  
MILAM CREEK ROAD  
ELEVATION 756'



"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 W.VA.

Minimum degree of accuracy is one part in 200

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

FORMATION - BROWN SHALE  
EST. T. D. - 3690'

Signed: *Wayne C. Dyer*

LICENSED LAND SURVEYOR #99 (W.VA.)

Company COLUMBIA GAS TRANS. CORP.  
 Address BOX 1273 CHARLESTON, W.VA.  
 Farm COLUMBIA GAS TRANS. CORP. (MIN.)  
 REFERENCE: 24689 Acres 74,735.91  
 Well Farm No. \_\_\_\_\_ Ser. No. 20715  
 Elevation - Spirit Level 972.14'  
 Quadrangle KIAHSVILLE, W.VA. Wayne SE  
 Township or District STONEWALL  
 County WAYNE  
 Sec., Lot, Qr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Coordinates LAT: 38°02'01" LONG: 82°18'57"  
 File No. 24-37 Dwg. No. \_\_\_\_\_  
 Date 1-20-81 Scale 1" = 400'

FORM 149-C-4 GSD (8-7-78)

COLUMBIA GAS SYSTEM  
COLUMBIA GAS TRANSMISSION CORPORATION

WELL LOCATION MAP

STATE OF WEST VIRGINIA

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

47-099-1742

Scale 15'  7-1/2'

DEEP WELL



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

Brown Shale was shot from 2456-3743 with 13,000# 80% Gelatin.

Acidized Big Lime open hole with 1000 gallons 28% Hcl Acid.

\*Gas in Shale guaged 47 Mcf. Set open hole bridge plug @ 1755' and ran 10' of Calseal (1755-1745') - plugged back TD 1745'.  
Shale gas is plugged off.

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	25	
Coal			25	27	
Sand			27	35	
Slate			35	55	
Coal			55	58	Water @ 58' - Hole Full
Sand			58	144	
Coal			144	147	
Slate			147	155	
Sand			155	190	
Slate			190	223	
Sand			223	273	
Slate			273	302	
Coal			302	312	
Slate			312	332	
Sand			332	433	
Slate			433	500	
Broken Sand			500	702	
Salt Sand			702	800	Salt Water 750-760' - Hole Full
Slate			800	812	
Sand			812	1145	850-900' - Lost Water While Drilling
Slate			1145	1196	905-915' - Gas Show
Sand			1196	1286	
Slate Shell			1286	1345	
Maxon Sand			1345	1610	
Big Lime			1610	1759	Gas Show @ 1708'
Red Injun			1759	1782	Oil Stain from 1710-1720'
Gray Injun			1782	1852	1800-1810' - Oil & Water
Slate & Shells			1852	2340	
Coffee Shale			2340	2352	
Berea			2352	2425	
Brown Shale			2425	2488	2460-2470' - 26 Mcf
White Shale			2488	2840	
Brown Shale			2840	2960	
White Shale			2960	3090	
Brown Shale			3090	3126	
White Shale			3126	3183	
Dark Shale			3183	3250	
White Shale			3250	3275	
Brown Shale			3275	3400	
White Shale			3400	3625	
Brown Shale			3625	3745	
Corniferous Lime			3745		Gas Check @ T.D. - would not gauge
T.D.				3747	

Well Operator

By:

*J. L. W. Sibley*

Date:

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."



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 Joe Campbell  
 ADDRESS \_\_\_\_\_ ADDRESS P. O. Box 2946, Huntington, WV  
 TELEPHONE \_\_\_\_\_ TELEPHONE 529-4173  
 ESTIMATED DEPTH OF COMPLETED WELL: 3690' ROTARY \_\_\_\_\_ CABLE TOOLS X  
 PROPOSED GEOLOGICAL FORMATION: Brown Shale  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT LIFT UP OR SACKS - CUBIC FT.
20 - 16			
13 - 1 1/2 x 3/8	30' - 60'		To surface
9 - 5/8	400'	400	To surface
8 - 5/8			
7	1800'	1800	To surface
5 1/4			
4 1/4	3690'	3690	369 sacks or as
3			Perf. Top <i>slab by rule</i>
2			Perf. Bottom <i>150'</i>
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.

For Coal Company

Official Title

RECEIVED  
SEP 19 1986

AFFIDAVIT OF PLUGGING AND FILLING WELL

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Columbia Coal Gasification  
Coal Operator or Owner

Address \_\_\_\_\_

Not Operated  
Coal Operator or Owner

Address \_\_\_\_\_

Goldie Maynard  
~~XXXX~~ or Property Owner

Address \_\_\_\_\_

Columbia Gas Transmission Corp.  
Name of Well Operator

P. O. Box 1273-Charleston, WV  
Complete Address

September 15 19 86

WELL AND LOCATION

Stonewall District

Wayne County

WELL NO. 20715

Columbia Gas Min. Trt. Farm

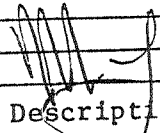
STATE INSPECTOR SUPERVISING PLUGGING Jerry Holcomb

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Wayne

ss:

Kenneth Pennington and Ronald Hutchinson  
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Columbia Gas Transmission Corp., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 16th day of July, 19 86, and that the well was plugged and filled in the following manner:

Sand or Zone Record Formation	Filling Material	Plugs Used Size & Kind	Casing	
			CSG PULLED	CSG LEFT IN
Shale (3747-2406')	Cavings			
Berea (2406-2376')	Cement 2401-2345			
Injun (1826-1805')	Rock & Clay 1840-1820	Brush Bridge		
Big Lime (1762-1625')	Cement 1820-1685	@ 1840'		
Salt Sand (1145-702')	Rock & Clay 1200-1190	4 1/2"	1200	653'
	Cement 1190-1140			
	Rock & Clay 1130-1120	7"	1130	503
	Cement 1120-1070			
	Rock & Clay 360-340	Brush Bridge @		
	Cement 340-268	360'		
	Rock & Clay 268-170			
	Cement 170-110			
	Rock & Clay 110-90			
	Cement 90-Surface			
Coal Seams				
(Name) 147-144				
(Name) 58-55				
(Name) 27-25				
(Name)				
		 3/13/87 Description of Monument 7" riser-36" AGL stating "TCO-Well #20715 Permit #009-1742-P"		

and that the work of plugging and filling said well was completed on the 28th day of August, 19 86.

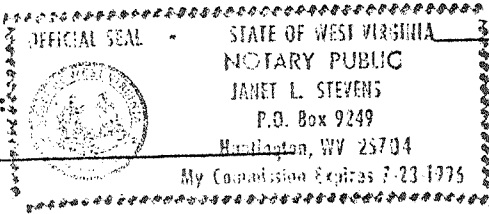
And further deponents saith not.

Kenneth Pennington  
Ronald L. Hutchinson

Sworn to and subscribed before me this 17th day of September, 19 86.

Janet L. Stevens  
Notary Public

My commission expires  
July 23, 1996



MAR 16 1987  
Permit No. 47-099-1742