

THE SOUTHERN LAND CO. & DICKENSON PROPERTIES, INC.

"BENCH MARK DESCRIPTION"

Standard Disk in Top of Flat Rock Between Road And Sandlick Creek - 700' SW of Matville Church - Stamped # 27 5K5 - Elev. 1776.5'

ACCURACY One Part in 200

- Fracture Before 6/5/29
- New Location 9/7/72
- Drill Deeper
- Redrill
- Abandonment
- PARTIAL PLUGGED - 6/68

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.

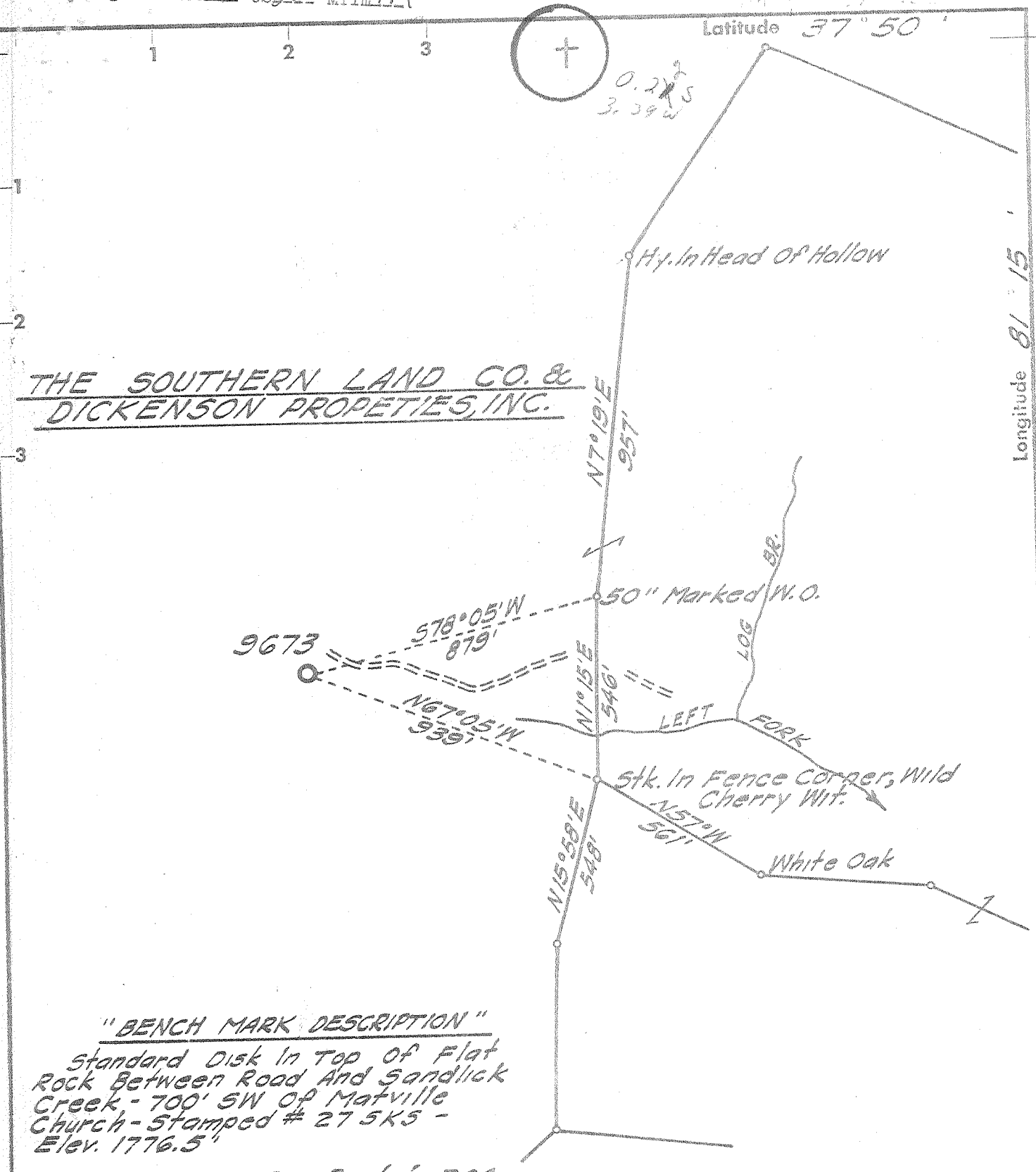
Company COLUMBIA GAS TRANSMISSION CORP.
 Address CHARLESTON, W. VA.
 Farm THE SOUTHERN LAND CO. & DICKENSON PROPERTIES, INC.
 Tract Acres 11,053.9 Lease No. 64799
 Well (Farm) No. 9672 Serial No. 1798.04'
 Elevation (Spirit Level) 1798.04'
 Quadrangle ECCLES SE
 County RALEIGH District CLEAR FORK
 Engineer Harold Foster
 Engineer's Registration No. L.S. 102
 File No. 78-23 Drawing No. _____
 Date JUNE 2, '71 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. RAL-289-DD-PP
(Test)

+ 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.



THE SOUTHERN LAND CO. & DICKENSON PROPERTIES, INC.

"BENCH MARK DESCRIPTION"

Standard Disk in top of Flat Rock Between Road and Sandlick Creek - 700' SW of Matville Church - Stamped # 275K5 - Elev. 1776.5'

ACCURACY One Part in 200

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 THE SOUTHERN LAND CO. & DICKENSON PROPERTIES, INC.
 Tract 11,053.3 Acres Lease No. 64799
 Well (Farm) No. 9673 Serial No. 1798.04'
 Elevation (Spirit Level) 1798.04'
 Quadrangle ECCLES SE
 County RALEIGH District CLEAR FORK
 Engineer Samuel Foster
 Engineer's Registration No. L.S. 102
 File No. 78-23 Drawing No. 11112
 Date JUNE 2, '71 Scale 1" = 400'

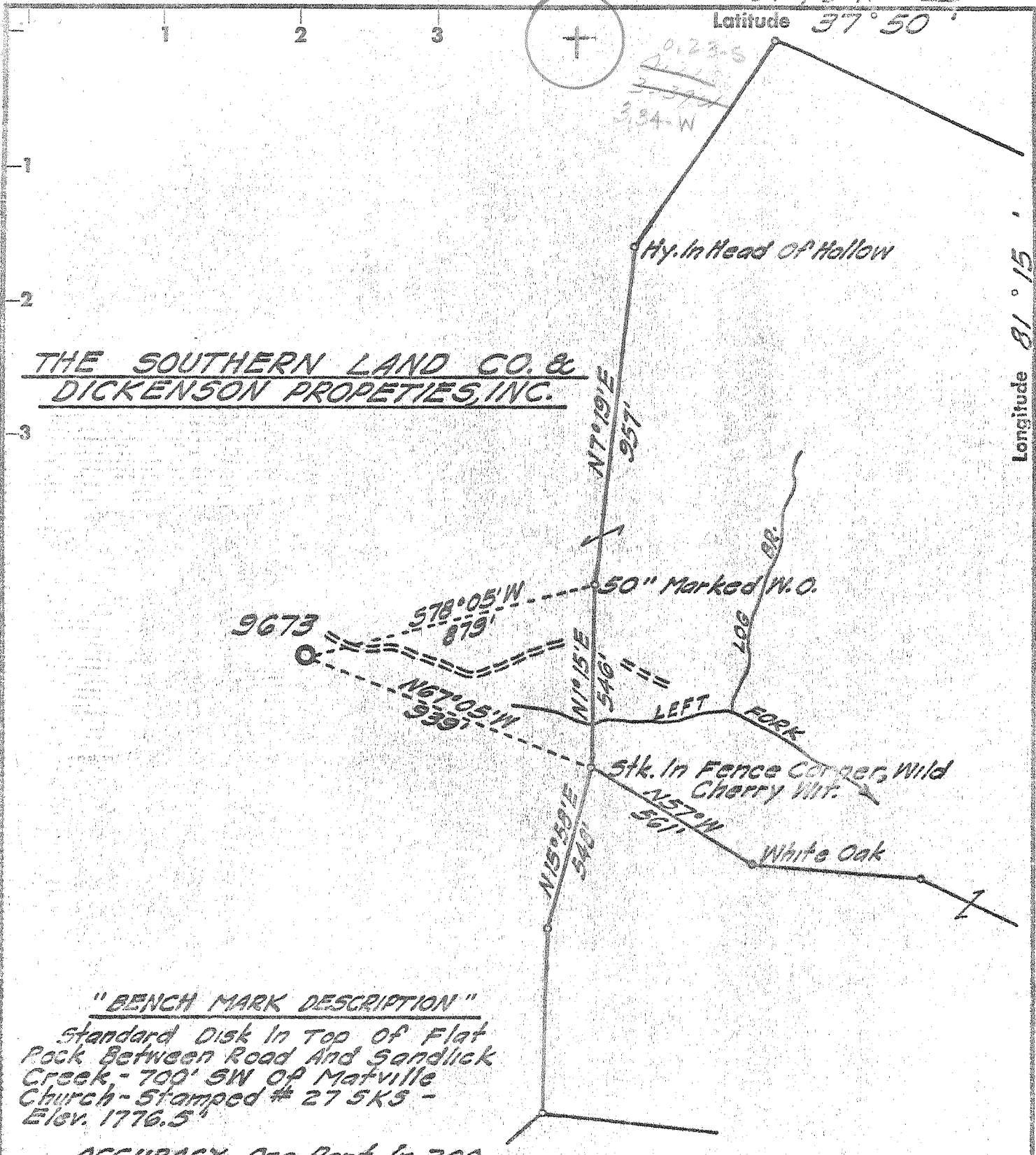
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. RAL-289-DD
(Test)

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OK-9-3-71-Ladd



THE SOUTHERN LAND CO. & DICKENSON PROPERTIES, INC.

"BENCH MARK DESCRIPTION"

Standard Disk in Top of Flat Rock Between Road And Sandlick Creek - 700' SW of Matville Church - Stamped # 27 SKS - Elev. 1776.5'

ACCURACY One Part In 200

Fracture	<input type="checkbox"/>
Before 6/5/29	<input type="checkbox"/>
New Location	<input checked="" type="checkbox"/>
Drill Deeper	<input type="checkbox"/>
Redrill	<input type="checkbox"/>
Abandonment	<input type="checkbox"/>

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	THE SOUTHERN LAND CO. & DICKENSON PROPERTIES, INC.
Tract	Acres 11,053.3 Lease No. 64709
Well (Farm) No.	Serial No. 9673
Elevation (Spirit Level)	1798.04'
Quadrangle	ECCLES SE
County	RALEIGH District CLEAR FORK
Engineer	Joseph T. [unclear]
Engineer's Registration No.	L.S. 102
File No.	78-23 Drawing No.
Date	JUNE 2, '71 Scale 1" = 400'

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

WELL LOCATION MAP
FILE NO. RAL-289

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DRILL DEEPER

NOV 27 1972

Form CG-10



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage
Oil or Gas Well Gas

Quadrangle Eccles
Formal No. RAL-289 DDT

WELL RECORD

Company Columbia Gas Transmission Corporation
Address Charleston, West Virginia
Farm Southern Land Co. & Dickenson Properties Inc. Acres 11,053.3
Location (waters) Sandlick Fork
Well No. 9673 DDT Elev. 1798.04'
District Clear Fork County Raleigh
The surface of tract is owned in fee by Southern Land Co. & Dickenson Properties Inc.
Box 1385 Address Charleston, W. Va.
Mineral rights are owned by Southern Land Co. & Dickenson Properties Inc.
Box 1385 Address Charleston, W. Va.
Deeper Drilling commenced June 14, 1972
Deeper Drilling completed June 26, 1972
Date Shot Not Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume 822 M total Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls. 1st 24 hrs.
WELL ACIDIZED (DETAILS) Big Lime formation acidized on 8-28-72 with 2,000 gals. 28% HCL
WELL FRACTURED (DETAILS) Ravencliff formation fractured on 9-11-72 with 30,000# of 20/40 sand and 650 bbls. of fluid.
RESULT AFTER TREATMENT (Initial open Flow or bbls.) Big Lime 575# HOURS 48
ROCK PRESSURE AFTER TREATMENT Ravencliff 175#
Fresh Water Feet Salt Water Feet
Producing Sand Big Lime and Ravencliff Depth 7857' plugged back to 2925'

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			Tubing HW
13			Size of
10			4-1/2"x2-3/8"
3 1/4	6570'	1114'	Depth set 1521'
XXX 7"			
5 3/16	2904'	2904'	
4 1/2			
3	2292'	2292'	Perf. top 1349'
2 3/8"			Perf. bottom 1383'
Liners Used			Perf. top 2326'
			Perf. bottom 2348'

Attach copy of cementing record. 1114' 6-19-72
CASING CEMENTED 4-1/2" SIZE 1039' to Ft. 6-23-72
Amount of cement used (bags) 545
Name of Service Co. Dowell
COAL WAS ENCOUNTERED AT FEET INCHES FEET INCHES FEET INCHES
Big Lime 582 MCF Ravencliff 240 MCF = 822 MCF

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Begin Drilling at				3261			LOGGED 6-26-72
Shale & Lime			3261	6470			Density
Lime - Onondaga			6470	6560			Gamma Ray
Oriskany Sand			6560	6590			Caliper
Lime Helderberg & Salina			6590	7225			
Newburg Sand - Williamsport			7225	7245			
Lime - mckenzie			7245	7400			LOGGED 6-27-72
Shale - Rose Hill			7400	7710			Dial Induction
Sand - Tuscarora			7710	7810			Temperature
Shale - Juniata			7810	7857			
TOTAL DEPTH			7857				
Plugged back to			2925				

7857
3261
4596 DD Spillage



RECEIVED

FEB 29 1972

Map Square 78-23

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES OF MINES
 OIL AND GAS DIVISION, 2

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Eccles
 Permit No. RAI-289

WELL RECORD

Oil or Gas Well Gas Well
 (KIND)

Company Columbia Gas Transmission Corp. (URG)
 Address Box 1273, Charleston, West Virginia
 Farm The Southern Land Co. & Dickenson Properties Inc. Acres 11,053.3
 Location (waters) Sandlick Fork
 Well No. 9673 Elev. 1798.04'
 District Clear Fork County Raleigh
 The surface of tract is owned in fee by The Southern Land Co. & Dickenson Properties Inc.
 Address Charleston, W. Va. Box 1385
 Mineral rights are owned by The Southern Land Co. & Dickenson Properties Inc.
 Address Charleston, W. Va. Box 1385
 Drilling commenced November 1, 1971
 Drilling completed November 19, 1971
 Date Shot Not Shot From _____ To _____
 With _____
 Open Flow _____ /10ths Water in _____ Inch
 _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock Pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 WELL ACIDIZED (DETAILS) Not Acidized
 WELL FRACTURED (DETAILS) Not Fractured

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
20"	27'	27'	
13-3/8"	64'	64'	
9-5/8"	1246'	1246'	Size of
6 5/8"			Depth set
5 3/16"			
4 1/2"			
3"			Perf. top
2"			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record
 CASING CEMENTED 13-3/8" 11-8-71 64'
9-5/8" 11-19-71 1246' Date
 Amount of cement used (bags) 400
 Name of Service Co. Halliburton
 COAL WAS ENCOUNTERED AT 495 FEET 60 INCHES
523 FEET 36 INCHES FEET INCHES
FEET INCHES FEET INCHES

ROCK PRESSURE (Initial open flow) Big Line 15 MCF Ravencliff 179 MCF 194 total
Big Line 600 HOURS 48
 ROCK PRESSURE Ravencliff 230'
 Fresh Water 18'-70'-120'-300' Feet Salt Water _____ Feet
 Producing Sand Big Line and Ravencliff Depth 3261'

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth	Remarks
Surface Sand			0	10			
Blue Mud			10	24	Water at 18'		
Sand Stone		Hard	24	146	Water at 70' & 120'		
Shale			146	276			
Sand			276	381			
Shale			381	400			
Sand			400	490			
Sandy Shale			490	495			
Coal			495	500			
Sand			500	523			
Coal			523	526			
Sandy Shale			526	569			
Shale			569	575			
Sand			575	659			
Shale			659	669			
Sand			669	758			
Sand & Shale			758	816			
Shale			816	840			
Red Rock			840	842			
Sand			842	860			
Shale			860	870			
Sand & Red Rock			870	890			
Sand & Shale			890	922			
Sand			922	992	Water at 935'		
Sandy Shale & Red Rock			992	1087			
Shale			1087	1265			
Sandy Shale			1265	1334			
Ravencliff			1334	1396	Show of Gas		
Sandy Shale			1396	1406			

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand, Shale & Sand	Red Rock		1406	1549	LOGGED	11-19-71	
Sand & Shale			1549	1556	Gamma Ray		
Sand			1556	1653	Caliper		
Sand & Shale			1653	1658	Density		
Sand			1658	1738	Induction		
Sandy Shale			1738	1773			
Red Rock & Shale			1773	1800	LOGGED	11-29-71	
Sand & Shale			1800	1897	Temperature		
Shale			1897	2077			
Little Lime			2077	2114			
Shale			2114	2208			
Big Lime			2208	2235			
Jun			2235	2660			
Shale			2660	2800			
Sand & Shale		2800	2847				
TOTAL DEPTH		2847	3261				

Water

387

Date 2-10- 1972

APPROVED Colin H. Has Transmissibility
 By E. H. Foster Div. Superintendent
 (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JUN 7 1972

OIL AND GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

DRILL DEEPER TEST

TO THE DEPARTMENT OF MINES,

Charleston, W. Va.
Southern Land Co. and
Surface Owner Dickenson Properties, Inc.
Address P.O. Box 1385, Charleston, W. Va. 25325
Southern Land Company &
Mineral Owner Dickenson Properties, Inc.
Address (above)
Coal Owner Southern Land Company &
Dickenson Properties, Inc.
Address _____
Coal Operator "Not Operated"
Address _____

DATE June 7, 1972
Company Columbia Gas Transmission Corp.
Address P.O. Box 1273 Charleston, W. Va. 25325
Southern Land Co. &
Farm Dickenson Prop. Inc. Acres 11,053.3
Location (waters) Sandlick Creek
Well No. 9673 D.D.T. Elevation 1798.04'
District Clear Fork County Raleigh
Quadrangle Eccles

Mr. Price
INSPECTOR TO BE NOTIFIED
Shortcraft
Box 315
Pineville, W. Va. 24874
PH: 732-2245

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 Drill deeper test. This permit shall expire if
operations have not commenced by Oct. 7, 1972.

Robert L. Fode
Deputy Director - Oil & Gas Division

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 January 1, 1971 by Southern Land Co. Dickenson Prop. Inc. made to United Fuel Gas Co. and recorded on the 17th day of March 1971, in Raleigh County, Book 35 Page 553

_____ 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) BY *Samuel L. Tarter*
Well Operator Supervising Engr.

Address _____
of _____
Well Operator _____
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

RAL-289-DD(T) PERMIT NUMBER

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

PROPOSED WORK ORDER TO _____ DRILL DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Ray Resources Corp. NAME E. G. Foster
 ADDRESS Commerce Square ADDRESS P.O. Box 528 Hamlin, W.Va. 25923
 TELEPHONE 344-8393 TELEPHONE 824-7245
 ESTIMATED DEPTH OF COMPLETED WELL: 8320' ROTARY Rotary CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Tuscarora
 TYPE OF WELL: OIL _____ GAS COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

NOTE: Present T.D. 3257' - (Weir)
 TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8			
7	6960'	6960'	
5 1/2			
4 1/2	8320'	8320'	
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS N.A. FEET SALT WATER N.A. FEET
 APPROXIMATE COAL DEPTHS N.A.
 IS COAL BEING MINED IN THE AREA? N.A. 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

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

RECEIVED

NOV 24 1972

PARTIALLY
AFFIDAVIT OF/PLUGGING AND FILLING WELL OIL & GAS DEPT.

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, ONE COPY MAILED TO THE DEPARTMENT, 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.

Not Operated

COAL OPERATOR OR OWNER

Columbia Gas Transmission Corporation

NAME OF WELL OPERATOR

P.O. Box 1273
Charleston, West Virginia 25325

COMPLETE ADDRESS

Southern Land Co. and
Dickenson Properties Inc.
COAL OPERATOR OR OWNER

ADDRESS

P.O. Box 1385, Charleston, W. Va.

June 26, 19 72

WELL AND LOCATION

Clear Fork District

Southern Land Co. and
Dickenson Properties Inc.
LEASE OR PROPERTY OWNER

ADDRESS

P.O. Box 1385, Charleston, W. Va.

ADDRESS

Raleigh County

Well No. 9673-DDT

Southern Land Co. and
Dickenson Properties Inc. Farm

STATE INSPECTOR SUPERVISING PLUGGING. Mr. Rue Schoolcraft, Box 315, Pineville, West Virginia

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of LINCOLN } ss:

MICHAEL NUGEN and PAUL GRIFFITH

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 26th day of June, 19 72, 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
Total Depth	7857'				
Cement	7857'	- 7650'			
6% Gel	7650'	- 6500'			
Bridge Plug	6450'		7" Casing	5430'	1114'
6% Gel	6450'	- 2930'			
Bridge Plug	2930'				
Cement	2930'	- 2925'			
New Total Depth	2925'				
COAL BEAMS (NAME)			DESCRIPTION OF MONUMENT		
(NAME)					
(NAME)					
(NAME)					

and that the work of plugging and filling said well was completed on the 28th day of June, 19 72.

And further deponents saith not.

Sworn to and subscribed before me this 19th day of November, 19 72

Paul Griffith

Michael W. Nugen

My commission expires: December 22, 1979

Notary Public.

Permit No. RAL-289-DDT-PP