

Longitude 80° 55'

WILCOX INDUSTRIES INC. ET AL.

BENCH MARK
 U.S.G.S. B.M. - ET SAIM - DISK ON TOP OF RIDGE
 10' FROM EDGE OF N.V.A. SEC. RT. N° 27, WEST ROAD
 BANK OPPOSITE A GATE - ELEV. 2897.20'

506 AC DRILLING UNIT

Fracture
 Before 6/5/29
 New Location
 Drill Deeper
 Redrill
 Abandonment
 Date 2/19/73

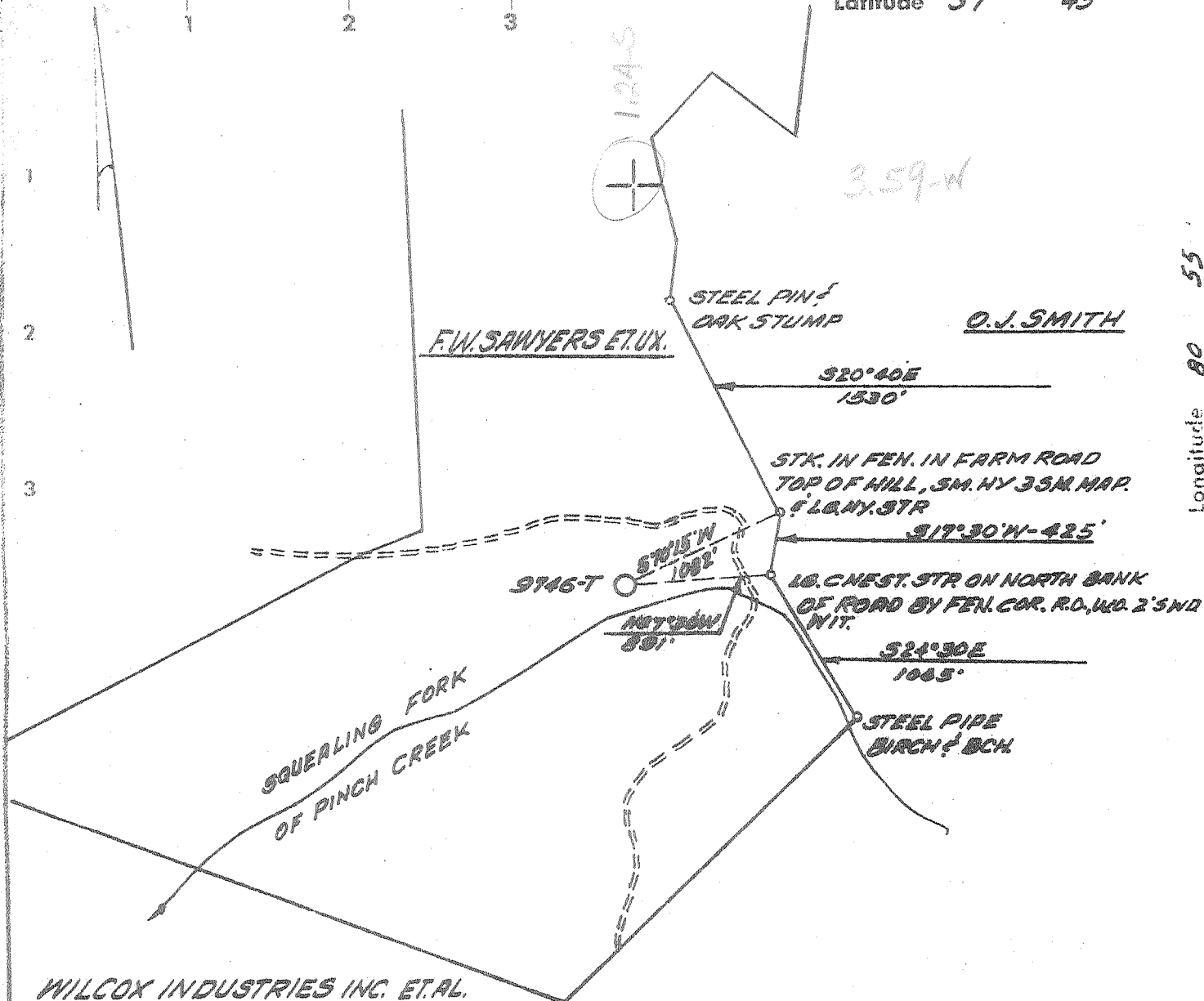
I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.
 The accuracy of this survey is within the limits and as prescribed in Paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

Company COLUMBIA GAS TRANSMISSION CORP
 Address CHARLESTON WEST VIRGINIA
 Farm F.W. SAWYERS ET UX, ET AL
 Tract _____ Acres 506 Lease No 66405 ET AL
 Well (Farm) No. _____ Serial No. 9746-T
 Elevation (Spirit Level) 2812.55'
 Quadrangle BIG BEND, WEST VIRGINIA NW
 County RALEIGH District RICHMOND
 Engineer James E. [Signature]
 Engineer's Registration No. 2390
 File No. 96-17 Drawing No. _____
 Date JULY 31, 1972 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. Rel-296-P

+ 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.



Longitude 80 55

BENCH MARK
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 BANK OPPOSITE A GATE - ELEV. 2897.20'

506 AT DRILLING UNIT

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- New Location
- Drill Deeper
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- Abandonment

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 Farm F.W. SAWYERS ET UX, ET AL
 Tract _____ Acres 506 Lease No 66405 ET AL
 Well (Farm) No. _____ Serial No 9746-T
 Elevation (Spirit Level) 2812.55'
 Quadrangle BIG BEND, WEST VIRGINIA
 County RALEIGH District RICHMOND
 Engineer Carson E. Davidson
 Engineer's Registration No. 2330
 File No. 96-17 Drawing No. _____
 Date JULY 31, 1972 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. Kel-296

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Deep Well (Newburg)

SEP 18 1972

SEP 21 1972

WEST VIRGINIA GEOLOGICAL SURVEY
MORGANTOWN

MEMORANDUM

TO: _____

DATE: 6-7-73

SUBJECT: Raleigh-296 Columbia No. 1 F. W. Sawyers
Directionally drilled
Elev. G 2812.55 KB 2828.55

	Drlg. depth	True Vert.	Datum
Little Lime	2190-2238	Same	+ 638
Greenbrier	2255-3256	Same	+ 573
Berea horiz.	3711-3739	Same	-883
Onondaga	7927-7954	7774-97	-4946
Huntersville	7954-8000	7797-7836	-4969
Oriskany	8000-8012	7836-45	-5008
Salina ?	8215-8689	8030-8480	-5202
Williamsport	8689-8710	8480-8500	-5652
T. D.	8771 MCKZ	8559	

All Williamsport samples were lost
Oriskany was tight.

Shows: 2690-2718 50 MMCFG, blew down to zero in 2 hours,
then salt water.

SG at 7821 and 7842, true vert., HRVL

Water at 8400 381 ft. in 10 hours

7774 7836
2829 2819
4945 5107

77-45
 1-22



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

Rotary
 Spudder
 Cable Tools
 Storage
 Oil or Gas Well **Well**
 (KIND)

Quadrangle Big Bend

Permit No. RAL-296

WELL RECORD 13

Company Columbia Gas Transmission Corporation
 Address Charleston, West Virginia
 Farm F. W. Sawyers, ET. UX., ETAL Acres 506
 Location (waters) Squealing Fk. of Pinch Creek
 Well No. 9746-T Elev. 2812.55'
 District Richmond County Raleigh
 The surface of tract is owned in fee by F. W. Sawyers, et ux
 Address Hinton, W. Va.
 Mineral rights are owned by F. W. Sawyers, et ux
 Address Hinton, W. Va.
 Drilling commenced November 17, 1972
 Drilling completed February 13, 1973
 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			
20"	23'	23'	Kind of Packer
13-3/8"	118'	118'	
9-5/8"	2364'	2364'	Size of
7-5/8"	4275'	975'	Depth set
6 3/4"			
5 3/16"			
4 1/2"			
3"			Perf. top
2"			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record. 11-17-72
 CASING CEMENTED 13-3/8" SIZE 118' No. Ft. 11-19-72 Date
 Amount of cement used 9-5/8" 2364' 11-26-72
7-5/8" 975' 1-9-73
 Name of Service Co. 644 bags cement Dowell
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES
 _____ FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) No gas
 ROCK PRESSURE AFTER TREATMENT _____ HOURS
 Fresh Water _____ Feet _____ Salt Water _____ Feet
 Producing Sand Dry Hole Depth 8800' plugged to surface

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand			0	90	Water		
Red Rock			90	142			
Sand			142	217	Water		
Shale			217	240			
Sand			240	330			
Shale			330	375			
Red Rock			375	435			
Sand			435	455	Water		
Shale			455	988			
Red Rock			988	1030			
Shale			1030	1341			
Sand			1341	1355			
Sandy Shale			1355	1385			
Sand			1385	1412			
Sandy Shale			1412	1501			
Sand			1501	1515			
Sandy Shale			1515	1529			
Sand			1529	1555			
Sandy Shale			1555	1624			
Sand			1624	1638			
Sandy Shale			1638	1683			
Shale			1683	1780			
Sand			1780	1804			
Shale			1804	1842			
Sandy Shale			1842	1907			
Sand			1907	1916			
Sandy Shale			1916	1940			
Sand			1940	1947			
Shale			1947	2196			

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JUN 18 1973

OIL & GAS DIVISION
 DEPT. OF MINES

JUN 29 1973

Formation	Color	Hard or Soft	Top 13	Bottom	Oil, Gas or Water	Depth
Little Lime			2196	2225		
Shale			2225	2251		1-7-73
Little Lime			2251	2284	Formation Density	
Shale			2284	2330	Gamma	
g Lime			2330	3238	Temperature	
Shale			3238	3620		
Blue shale			3620	3640		1-18-73
Shale			3640	3663		
Shale - Devonian (Brown)			3663	7927	Formation Density	
Carboniferous Lime			7927	7996	Induction	
Mississippi			7996	8010	Temperature	
Shale - Helderberg & Salina			8010	8650		2-13-73
Williamsport			8650	8660	Formation Density	
Shale - McKenzie			8660	8800	Directional	
TOTAL DEPTH			8800		Induction	
Drugged back to surface					Temperature	

Date 10-11, 1973
APPROVED Columbia Gas Transmission Owner
By E. G. Foster Superintendent
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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SEP 7 1972

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 September 6, 1972

Surface Owner F. W. Sawyer, et ux
Address Hinton, W. Va. 25951
Mineral Owner F. W. Sawyers, et ux
Address Hinton, West Virginia 25951
Coal Owner F. W. Sawyers, et ux
Address Hinton, W. Va. 25951
Coal Operator Not Operated
Address -

Company Columbia Gas Transmission Corp.
Address P.O. Box 1273 Charleston, W.Va. 25325
Farm F.W. Sawyers, et al Acres 506
Location (waters) Squealing Fork of Pinch Creek
Well No. 9746-T Elevation 2812.55'
District Richmond County Raleigh
Quadrangle Big Bend, W. Va.

INSPECTOR TO BE NOTIFIED Mr. Paul Schoolcraft
Box 315 PH: 732-7245
Pineville
W. Va. 24874

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 1-7-73

Robert H. Ford
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 July 1, 19 72 by F. W. Sawyers, et ux made to Columbia Gas Transm. Corp. and recorded on the 27th day of July 19 72, in Raleigh County, Book 37 Page 307

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 Richard Whickman
Well Operator Supt., Civil Eng. Dept.

Address P. O. Box 1273
of Street
Well Operator 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-296 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 _____ NAME E. G. Foster
 ADDRESS _____ ADDRESS P.O. Box 528 Hamlin, W.Va. 25523
 TELEPHONE _____ TELEPHONE 824-7245
 ESTIMATED DEPTH OF COMPLETED WELL: 8840' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Tuscarora
 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 FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	30'	30'	To Surface
9 - 5/8	2350'	2350'	To Surface
8 - 5/8			
7	7500'	7500'	
5 1/2			
4 1/2	8840'	8840'	
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.

For Coal Company

Official Title

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

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JUN 18 1973

AFFIDAVIT OF PLUGGING AND FILLING OIL & GAS WELLS
DEPT. OF MINES

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 INDISCREET
ADDRESS _____

F. W. Sawyers
COAL OPERATOR OWNER
Hinton, West Virginia 25951
ADDRESS _____

F. W. Sawyers
LEASE OR PROPERTY OWNER
Hinton, West Virginia 25951
ADDRESS _____

Columbia Gas Transmission Corporation (UFG)
NAME OF WELL OPERATOR
P.O. Box 1273
Charleston, West Virginia 25325
COMPLETE ADDRESS _____

February 14, 19 73
WELL AND LOCATION _____

Richmond District _____

Raleigh County _____

Well No. 9746-T

F. W. Sawyers, etux, etal Farm _____

STATE INSPECTOR SUPERVISING PLUGGING Mr. Rue Schoolcraft, Box 315, Pineville, W. Va.

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Lincoln } ss:

GEORGE W. CHAPMAN and CLIFTON BROWNING

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 15th day of February, 19 73, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CSS PULLED	CSS LEFT IN
Total Depth	8800'			
6% Gel	8800' - 7940'			
Set Bridge at	7940'			
Cement	7940' - 7890'			
6% Gel	7890' - 4200'	7-5/8" Csg.	3300'	975'
Set Bridge at	4200'			
Cement	4200' - 4180'			
6% Gel	4180' - 2300'	9-5/8" Csg.	None	2364'
Set Bridge at	2300'			
Cement	2300' - 2280'			
6% Gel	2280' - 100'	13-3/8" Csg.	None	118'
Cement	100' - Surface	20" Line Pipe	None	23'
COAL SEAMS	DESCRIPTION OF MONUMENT			
(NAME)	36" above surface with inscription			
(NAME)	"Columbia Gas Transmission Corp.			
(NAME)	Well 9746-T - Permit #RAL-296-P			
(NAME)	Abandon 2-16-73".			

and that the work of plugging and filling said well was completed on the 16th day of February, 19 73.

And further deponents saith not.

Sworn to and subscribed before me this 14th day of February, 19 73.

My commission expires: December 20, 1979

George W. Chapman
Clifton Browning

Notary Public.

Permit No. RAL-296-P G. NOTL