

10,850'

Latitude 38°22'30" (15') 38°25'

BERNARD SMITH, ET AL.
55300-1-2449

SET STONE ON HILLSIDE PINE, HICKORY & MAPLE WITNESS.

ENOCH HUNTER
907-89 NE

STAKE EDGE OF ROAD

1" IRON PIN ON HILLSIDE WITNESS

STAKE ON HILLSIDE DOUBLE HICKORY WITNESS

A. H. BOYD, ET AL

Topo 15' (+)
Corrected
S 4.66
W 4.31

20306-T

COLUMBIA GAS TRANSMISSION CORP.
DEED 17417-3594 NE
DELMER 190 (SURF.)

BENCH MARK

STANDARD DISK IN CONCRETE MONUMENT TOP RIDGE AT FORMS OF ROAD WEST OF TACKETT HOL. OF CAMPBELLS CRK. DISK STAMPED 3 JUN-1956 ELEV. 1201.00'

- 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. NO 2330

Signed *Adrian E. [Signature]*

Company COLUMBIA GAS TRANS. CORP.
 Address CHARLESTON, W. VA.
 Farm COLUMBIA GAS TRANS. CORP.
 Lease DEED 17417 Acres 3594
 Well Farm No. 11 Ser. No. 20306-T
 Elevation - Spirit Level 1160.62' WC
 Quadrangle 7-QUICK; Clendenin 15'
 Township or District MALDEN
 County KANAWHA
 Sec., Lot, Qr. _____ T _____ R _____
 Coordinates LAT. 38°20'56" LONG. 81°20'47"
 File No. 68-59 Dwg. No. _____
 Date MAY 28, 1975 Scale 1" = 800'

WELL LOCATION MAP
STATE OF WEST VIRGINIA

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

KAN - 2719

Scale 15' 7 1/2'

INDIAN CREEK 47-039

SEP 30 1975

(DEEP WELL) 6882' S 4.66

~~File No. 68-59~~ (358)

~~278~~

9450'

15' 81°25' Longitude 81°27'30"

RECEIVED

NOV 16 1977

OIL & GAS DIVISION
DEPT. OF MINES



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Form OG-10

Quadrangle Quick

Permit No. Kan. 2719

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Columbia Gas Trans. Corp.
Address PO Box 1273, Charleston, W. Va.
Farm Delmer Igo Acres 3,594
Location (waters) Campbell's Creek
Well No. 20306-T Elev. 1,160
District Malden County Kanawha

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8"		574'	
10 9-5/8"		2369'	Size of
8 7/8"		5383'	
6 3/4"			Depth set
5 3/16"		6879'	
4 1/2"			
3"		6801'	Perf. top 6809 Perf. bottom 6814
2"			
Liners Used			Perf. top Perf. bottom

The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Posler Coal Co.
Address Box 311, Charleston
Drilling commenced 12-7-75
Drilling completed 1-22-76
Date Shot _____ From _____ To _____
With _____

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 1,600,000 Cu. Ft.
Rock Pressure 1580 lbs. 24 hrs.
Oil _____ bbls., 1st 24 hrs.

Attach copy of cementing record. SEE ATTACHED
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
Amount of cement used (bags) _____
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

WELL ACIDIZED (DETAILS) _____

WELL FRACTURED (DETAILS) Kiel Process (Halliburton)
6500 psig @ 21 BPM (50,000# 80-100 SD & 2400 BBL Water)

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 3200 MCF
ROCK PRESSURE AFTER TREATMENT 1580 HOURS

Fresh Water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Clinton Depth 6814

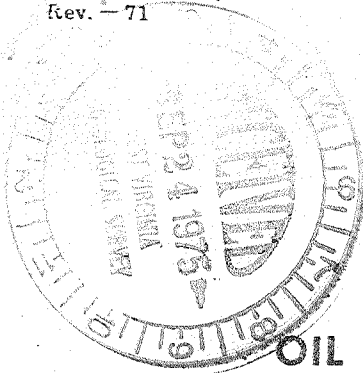
Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sd & Shale			0	697			
Shale & Lime			697	728			
Salt Sand			728	1708	Water		
Big Lime			1708	1891			
Injun Sd			1891	1905			
Sd & Shale			1905	1966			
Weir Sd			1966	1973			
Sand & Shale			1973	2286			
Shale			2286	5172	Gas Show		
Corniferous			5172	5278			
Oriskany			5278	5300			
Dolomite			5300	6054			
Sand			6054	6072	Water		
Dolomite			6072	6312			
Shale			6312	6746			
Clinton Sd			6746	6814			
Shale - <u>Juniata (log)</u>			6814	6879	Gas	6870	1600 MCF - 65% CO2
TD			6879				

DEC 6 1977



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
SEP 19 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 September 17, 1975

Surface Owner Delmer Igo

Company Columbia Gas Transmission Corp.

Address Charleston, W.Va. 25306

Address P.O. Box 1273, Charleston, W.Va. 25325

Mineral Owner Columbia Gas Trans. Corp.

Farm Columbia Gas Trans. Corp. Acres 3594

Address P.O. Box 1273, Charleston, W.Va. 25325

Location (waters) Campbells Creek

Coal Owner Posler Coal Company

Well No. 20306-T Elevation 1160.62'

Address P.O. Box 311, Charleston, W.Va.

District Malden County Kanawha

Coal Operator Not Operated

Quadrangle Quick

Address _____

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 1-22-76.

Robert H. Bell
Deputy Director - Oil & Gas Division
GENTLEMEN:

INSPECTOR TO BE NOTIFIED Martin Nichols
PH: 548-6993 ADDRESS Clendenin, W. Va.

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 2 1970 by David H. Taylor, etal made to Columbia Gas Trans. Corp. and recorded on the _____ day of _____ 1970, in Kanawha County, Book 207 Page 110

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.

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

Address of Well Operator

Very truly yours, Columbia Gas Transmission Corp.
(Sign Name) [Signature]

Director, Exploration and Development
P.O. Box 1273

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.

Ken-2719 PERMIT NUMBER
47-039

**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 Walter Chapman
 ADDRESS _____ ADDRESS F.O. Box 610, Clendenin, W.Va. 25045
 TELEPHONE _____ TELEPHONE (304) 965-5557
 ESTIMATED DEPTH OF COMPLETED WELL: 6888 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Clinton
 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	60'	60'	
13 3/8	350'	350'	
9 - 5/8	2300'	2300'	
8 - 5/8			
7	5400'	5400'	
5 1/2			
4 1/2	6888'	6888'	
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 550
 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