7'5 OGIS topo location

company Columbian Carbon

Farm Kanawka Citylo 12 (6W-334)

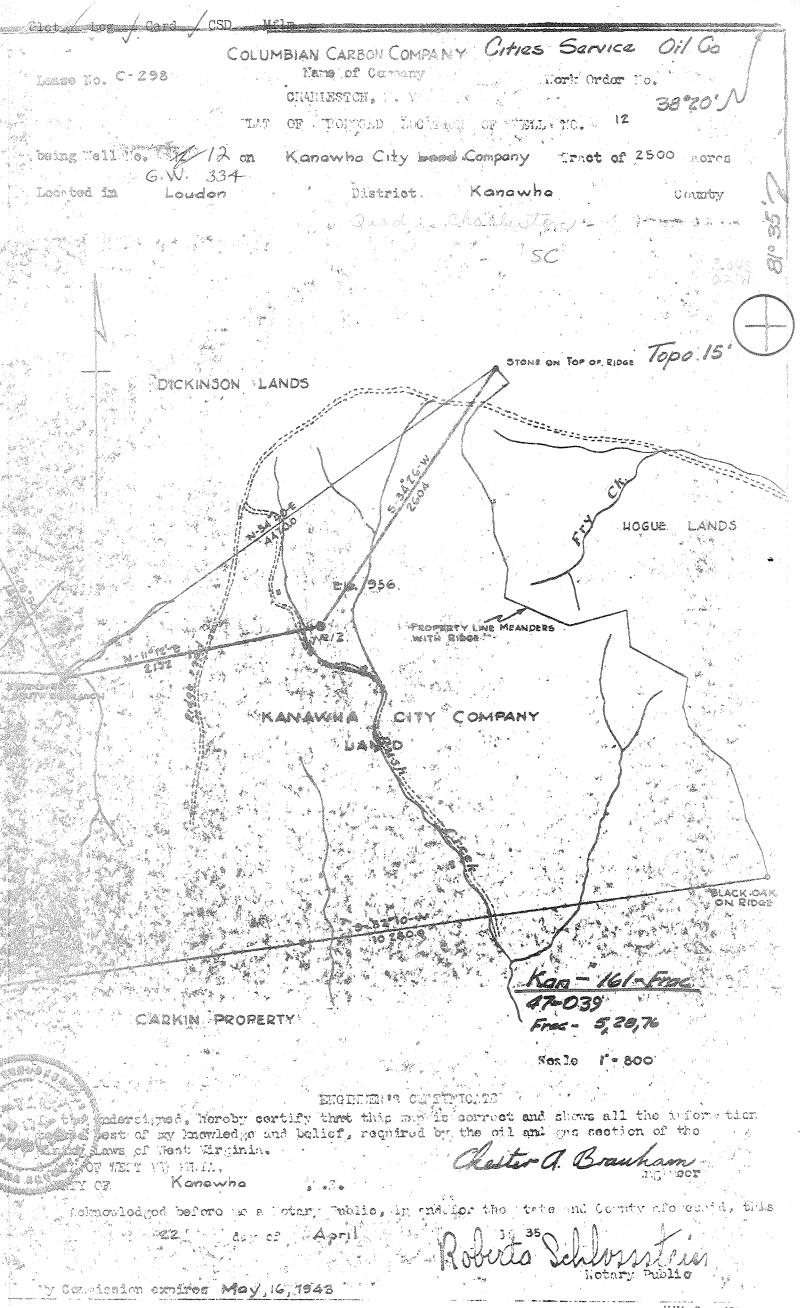
Quad Charleston East 7.5 / Charleston 15'

County Kausuha

District Loudon

WELL LOCATION MAP

File No. <u>039-161</u>



JUN 8 1976

4280 - 4610

```
Loudon District, Kanawha County, W. Va.
Columbian Carbon Co., Charleston, W. Va. (Box 1240).
On 2500 acres, on headwaters of Rush Creek; surface and mineral rights
   owned by Kanawha City Co., IMr. I. Noyes Smith, Treasurer, Kanawha
   Banking & Trust Co., Charleston, W. Va.
Drilled under permit Kan .- 161, issued June 3, 1935.
Elevation, 925.72( L.
14" casing, 82'; 10% 291'; 82", 1369'; 6-5/8", 4679'.
Coal was encountered at 27-29, and 63-65'.
Completion reported to Dept. of Mines Sept. 25, 1935.
Well was shot at 4752-4768'.
                                               Top. Bottom.
                                                  0 -
                                                        27
Sand and gravel
                                                        20
Coal
                                                 29 -
                                                        50
Slate and shells
                                                 50 -
Sand
                                                 63 -
                                                        65
Coal (water, 63-65'; 25 bbls.)
                                                 65 -
                                                       110
Slate
                                                110 -
                                                       150
Sand
                                                150 -
                                                       165
Slate
                                                165 - 198
Sand
                                                198 -
                                                       250
Slate
                                                250 -
                                                       260
Sand
                                               260 - 265
Slate
                                                265 -
Lid me
                                                       295
                                                295 -
                                                       330
Slate
                                                330 -
                                                       370
Sand
                                                370 -
                                                        395
Slate
                                                       438
                                                395 -
Sand
                                                438 -
                                                       460
Slate
Slate and shells (gas, 490-492')(water,512')
                                                460 -
                                                       538
    (2g bbls. water per hour).
                                                538 -
                                                      570
Sand
                                                570 -
                                                       590
Slate
Sand (water, 7340; oil show, 768-7780)
                                                590 -
                                                       885
    (hole full water, 825')
                                                885 -
                                                      904
Slate
                                                904 - 945
Lime
                                                945 - 1005
Sand
                                               1005 - 1045
                                               1045 - 1085
Slate and shells
                                               1085 - 1177
Sand
                                               1177 - 1200
Slate
                                               1200 - 1216
Red rock
                                               1216 - 1238
Slate
                                               1238 - 1278
Maxton Sanč
                                               1278 - 1347
Little Lime
                                               1347 + 1514
Big Lime
                                               1514 - 1556
Big Injun Sand, red
                                               1556 - 1948
Slate and shells
                                               1948 - 1958
Shale, brown
                                               1958 - 1964
Berea Sand
                                               1964 - 3150
Slate and shells
                                               3150 - 3930
Shale, brown
                                               3930 - 4280
Slate
```

(OVER)

Shale, brown

## KANAWHA CITY CO. NO. 12 (GW-334) WELL (Continued).

				fop. Bottom.	
Shale, black			į	1610 - 4653	
Corniferous Lime				4653 - 4750	
Oriekany Sand (gas	pay. 4754-4	769")	1	4750 - 4769	
Total denth				4776	

4653 4750 4769 -926 3-2 436 3727 3824 3843.





## Oil and Gas Division

or a gas division Department falles

## OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE May 27, 1976  Company Cities Service Oil Company		
Surface Owner			
Address Charleston Trust Company	Address 20 27 3, Char	A section of an increase behalf in the contract	
Mineral Owner	Farm Care Acres		
Address	Location (waters)		
Coal Owner	• • •	Elevation	
Address	_ DistrictLoudon	County	
Coal Operator	QuadrangleCharlests		
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 <u>fracturing</u> . This permit shall expire if			
operations have not sommenced by 9-28-76			
Notat & Les			
Deputy Director - Oil & Gas Division INSPEC	TOR TO BE NOTIFIED Ma	rtin Nichols	
		endenin, WV.	
19 in County, Book 26	Page Page	day of	
NEW WELL DRILL DEEPER	·	FRACTURE OR STIMULATE	
NEW WELLDRILL DEEPEROIL AND GAS WELL ORIGINALLY DRILLE	REDRILL X	FRACTURE OR STIMULATE	
	REDRILL  D BEFORE JUNE 5, 1969.  or licensed land surveyor and notified that any objection th	all coal owners and/or operator	
OIL AND GAS WELL ORIGINALLY DRILLE  The enclosed plat was prepared by a registered engineer have been notified as of the above date.  The above named coal owners and/or operator are hereby	REDRILL  D BEFORE JUNE 5, 1969.  or licensed land surveyor and  notified that any objection th filed with the Department of My registered mail, or delivered t	all coal owners and/or operator ey wish to make, or are require fines within ten (10) days. * o the above named coal operator before, or on the	
OIL AND GAS WELL ORIGINALLY DRILLE  The enclosed plat was prepared by a registered engineer have been notified as of the above date.  The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or  Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the Delegant Copies of ALL	REDRILL  D BEFORE JUNE 5, 1969.  or licensed land surveyor and  notified that any objection th filed with the Department of My registered mail, or delivered t	all coal owners and/or operator  ey wish to make, or are require  Mines within ten (10) days. *  o the above named coal operator  before, or on the on, West Virginia.	
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\*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.

FRAC. PERMIT NUMBER

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

PROPOSED WORK ORDER TODRILLDRILLING CONTRACTOR: (If Known)		DEEPEN FRACTURE-STIMULATE RESPONSIBLE AGENT:		
ADDRESS				
TELEPHONE 364-2362		TELEPHONE	82	
ESTIMATED DEPTH OF COMPLE	TED WELL:4776	ROTARY	CABLE TOOLS	
PROPOSED GEOLOGICAL FORMA				
TYPE OF WELL: OIL	40,	COMB. STORAGE	DISPOSAL	
	4.15		ODOTHER	
TENTATIVE CASING PROGRAM:				
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP	
SIZE A A A A A A A A A A A A A A A A A	DRILLING	WELL	OR SACKS - CUBIC FT.	
2016-	82*	- 823		
13 - 10				
9 - 5/8				
8 - 5/8	4679*	46791		
5 ½2	4973			
4 ½			-1.1	
3			Perf. Top	
2 • 3 • 8 • •	6776*	47761	Perf. Bottom	
Liners			Perf. Top	
			Perf. Bottom	
WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED  TO FRACTURE - STIMULATE:  OIL AND/OR GAS WELL OR BOND, PERMANENT PLAT  OIL AND/OR GAS WELL OR ING ORIGINAL PERMIT NUM	OF OG - 1, SHOWING ORIGINALLY DRILLED BEFORMANCH ON AMBER, AND PERFORMANCE	COPY OF THE PLAT AND TO DRE JUNE 5, 1929, FIVE (5) ECORD. AND/OR AFTER JUNE 5, 192 E BOND.	ID PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD  COPIES OG - 1, PERFORMANCE  29, FIVE COPIES OG - 1, SHOW-  Inspector to be notified twenty-	
four (24) hours in advance.	The state of the s			
The following waiver must be thereof.	e completed by the coal of	perator if the permit is to be	issued within ten days of receipt	
WAIVER: I the undersigned, Agen	nt for	Coal Company, Owne	r or Operator of the coal under	
· •		maps this proposed well local		
			vell being drilled at this location,	
			7, Chapter 22 of the West Virginia	
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
			or Coal Company	

Official Title