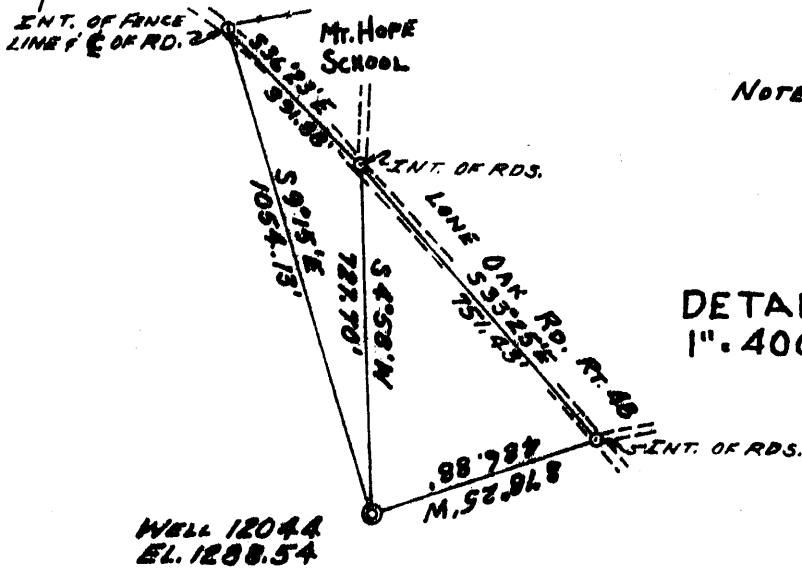
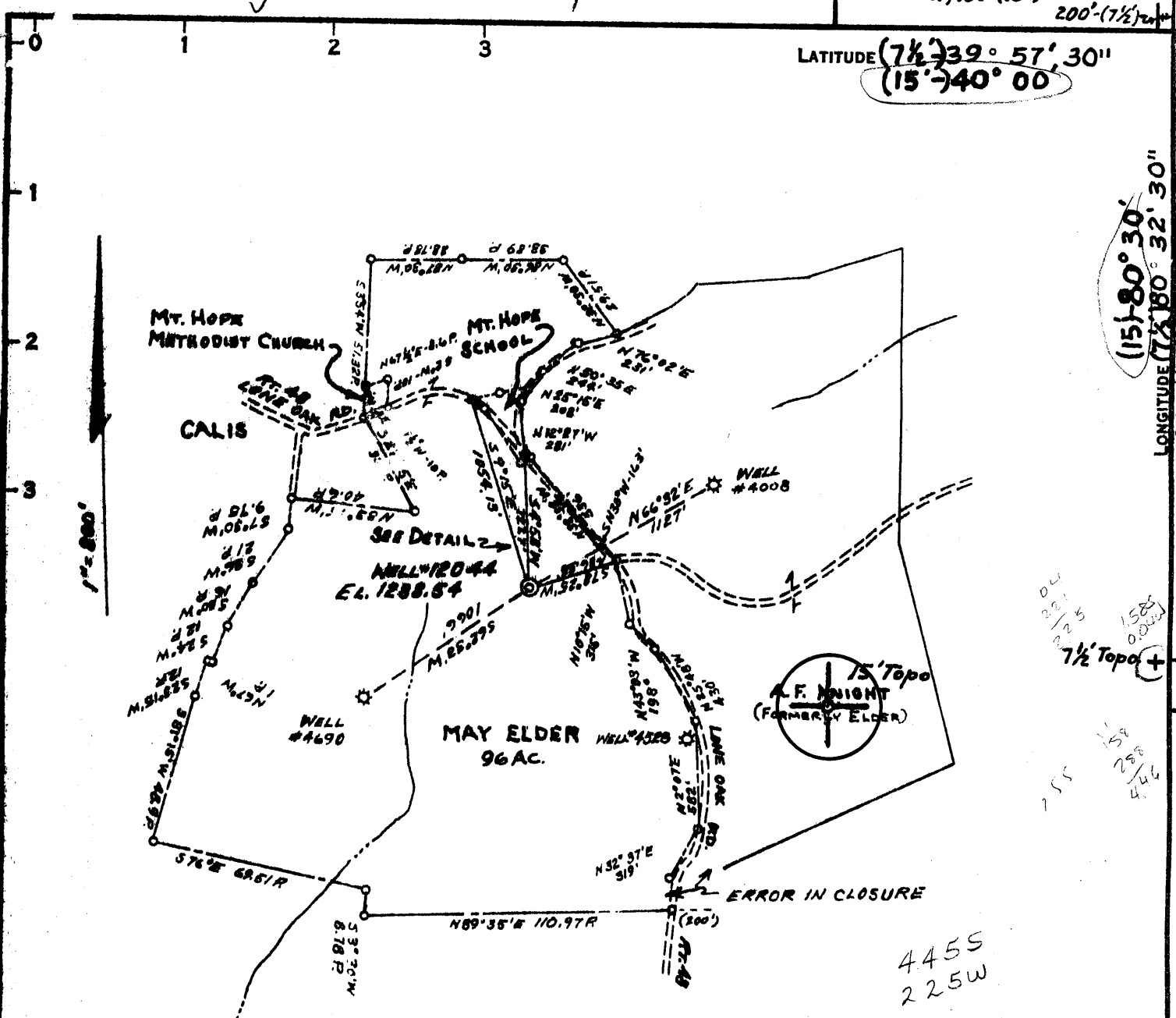


LATITUDE (7 1/2) 39° 57' 30"  
(15) 40° 00"

(15) 80° 30'

LONGITUDE (7 1/2) 80° 32' 30"  
80° 00' (7 1/2)  
29 550' (15')



NOTE: SURVEY BEARINGS ARE 1974 MAGNETIC.

DETAIL 1" = 400'

7.5' =  
1.585  
0.03W

4455  
225W

- COAL OWNED BY
- NEW LOCATION - STORAGE
  - RECONDITION
  - DRILL DEEPER
  - 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 6 of 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 2000.

Signed *John C. Snyder*

F.B. 1234 P. 19

COMPANY COLUMBIA GAS TRANSMISSION CORP.  
 ADDRESS PO BOX 1873 CHARLESTON, W.VA. 25326  
 FARM MAY ELDER  
 MAP 0-26-10 ACRES 300 LEASE NO. 19447  
 WELL (FARM) NO. \_\_\_\_\_ SERIAL NO. 12044  
 ELEVATION (SPIRIT LEVEL) 1288.54 NE  
 QUADRANGLE MAJORSVILLE, W.VA., PA. (7 1/2) CAMERON (15)  
 COUNTY MARSHALL DISTRICT WEBSTER  
 POINT OF PROVEN ELEVATION B.M. C. 1 G. 8, DISC MARKED A-125-1957  
IN S.W. COR. OF MOUNT HOPE METHODIST CH. PROPERTY  
 FILE NO. \_\_\_\_\_ DRAWING NO. \_\_\_\_\_  
 DATE MAY 15, 1974 SCALE AS SHOWN

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
 FILE NO. MARS-556  
 + 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. 47 051  
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Majorsville, W. Va., Pa (7 1/2')  
Quadrangle Cameron (15')  
Permit No. MARS-556

Rotary \_\_\_\_\_ Oil \_\_\_\_\_  
Cable XXX Gas \_\_\_\_\_  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage XXXXX  
Disposal \_\_\_\_\_ (Kind)

Company Columbia Gas Transmission Corp.  
Address P.O. Box 1273, Charleston, WV 25325  
Farm May Elder Acres 300  
Location (waters) Wheeling Creek  
Well No. 12044 Elev. 1288.54  
District Webster County Marshall  
The surface of tract is owned in fee by \_\_\_\_\_

Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling Commenced 8/13/74  
Drilling Completed 4/24/75  
Initial open flow \_\_\_\_\_ cu. ft. \_\_\_\_\_ bbls.  
Final production \_\_\_\_\_ cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.  
Well treatment details: \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13- <del>10</del> 3/8	28	20	10 sacks
<del>8 5/8</del> 10-3/4	798	790	160 sacks
8 5/8	1291	1291	300 sacks
7			
5 1/2			
4 1/2	1878	1878	420 sacks
3			
2			
Liners Used			

Attach copy of cementing record.

Coal was encountered at 117' - 287' - 660' - 753' - 1505' Feet \_\_\_\_\_ Inches  
Fresh water 605 Feet \_\_\_\_\_ Salt Water 1530 Feet \_\_\_\_\_  
Producing Sand Big Injun Depth 1947

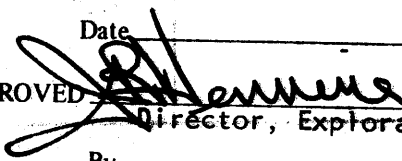
Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Slate & Shells			0	50		
Red Rock			50	62		
Slate & Shells			62	117		
Coal			117	120		
Slate & Shells			120	145		
Lime			145	155		
Slate & Shells			155	170		
Lime			170	180		
Slate & Shells			180	190		
Lime			190	215		
Slate & Shells			215	225		
Red Rock			225	235		
Slate & Shells			235	287		
Coal			287	290		
Slate & Shells			290	305		
Lime			305	322		
Slate			322	355		
Lime (hard)			355	387		
Slate & Shells			387	422		
Sand			422	427		
Slate & Shells			427	452		

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand			452	457		
Slate & Shells			457	472		
Lime			472	492		
Slate & Shells			492	535		
Lime			535	545		
Slate & Shells			545	560		
Lime			560	647		
Slate			647	660		
Coal	SEWICKLEY		660	663		
Slate			663	665		
Lime			665	718		
Slate			718	723		
Lime			723	735		
Slate & Shells			735	753		
Coal-Pittsburgh			753	758		
Slate			758	760		
Lime			760	800		
Slate			800	807		
Lime			807	835		
Slate (dark)			835	845		
Lime			845	852		
Slate & Shells			852	864		
Red Rock			864	885		
Slate & Shells			885	921		
Red Rock			921	947		
Slate			947	978		
Lime			978	998		
Slate			998	1010		
Red Rock			1010	1027		
Slate & Shells			1027	1039		
Lime			1039	1085		
Slate			1085	1090		
Lime (Gritty)			1090	1100		
Slate & Shells			1100	1110		
Lime (gritty)			1110	1117		
Red Rock			1117	1122		
Lime			1122	1136		
Slate			1136	1143		
Red Rock			1143	1150		
Slate & Shells			1150	1153		
Sand			1153	1183		
Slate & Shells			1183	1380		
Lime			1380	1408		
Sand (Gas Sand)			1408	1448		
Slate (dark)			1448	1472		
Lime			1472	1480		
Slate			1480	1488		
Sand			1488	1503		
Coal	LOW RIF?		1503	1505		
Slate			1505	1509		
Lime (Gritty)			1509	1517		
Sand (1st Salt Sand)			1517	1558		
Slate & Shells			1558	1669		
Lime			1669	1710		
Slate (Black)			1710	1736		
Lime (Gritty)			1736	1805		
Slate			1805	1825		
Lime			1825	1860		
Sand (Big Injun Sand)			1860	1908		
Big Injun						
Slate (Break In)			1908	1913		
Sand (Big Injun)			1913	1947		
Drilled Total Depth			-	1947		

Date \_\_\_\_\_, 19\_\_\_\_

APPROVED  , Owner  
 Director, Exploration & Development

By \_\_\_\_\_  
 (Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

JUN 13 1974

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 June 11, 1974

Surface Owner Ms. May Elder, Agent

Company Columbia Gas Transmission Corp.

Address 353 Orchard Dr. Dayton, Ohio 45419

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

Mineral Owner Ms. May Elder, Agent

Farm May Elder Acres 300

Address 353 Orchard Dr. Dayton, Ohio 45419

Location (waters) Wheeling Creek

Coal Owner Monongalia Improvement Co., et al

Well No. 12044 Elevation 1288.54

Address Morgantown, W. Va. 26505

District Webster County Marshall

Coal Operator Not operated

Quadrangle Majorsville, W. Va. Pa.

Address \_\_\_\_\_

THIS PERMIT IS FOR THE drilling of the \_\_\_\_\_  
by \_\_\_\_\_  
Deputy Director

with Chapter 22,  
hereby approved  
this permit shall expire if  
10-14-74  
by \_\_\_\_\_

INSPECTOR TO BE NOTIFIED Paul Garrett  
Clarksburg, W. Va. PH: 622-3871

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 February 20, 1940 by Ms. May Elder made to Columbia Gas Trans. Corp. and recorded on the 8th day of March 1940, in Marshall County, Book 215 Page 46

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.

COLUMBIA GAS TRANSMISSION CORPORATION  
Very truly yours,

(Sign Name) [Signature]  
Well Operator

Director, Storage & Reservoir Engineering  
P.O. Box 1273

Address \_\_\_\_\_  
of \_\_\_\_\_  
Well Operator \_\_\_\_\_  
Charleston, \_\_\_\_\_  
City or Town \_\_\_\_\_  
West Virginia 25301  
State \_\_\_\_\_

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:  
Virginia Geological and Economic Survey  
P. Box 979  
Morgantown, W. Va. 26505  
304-296-4461

\*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.

MARS-556 PERMIT NUMBER

47 051

PERMIT NO. 100

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 Company Rig \_\_\_\_\_ NAME Mr. D. M. Ellington \_\_\_\_\_  
 ADDRESS \_\_\_\_\_ ADDRESS P.O. Box 496, Washington, Pa. 15301 \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ TELEPHONE (412) 225-8340 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 2,000' \_\_\_\_\_ ROTARY \_\_\_\_\_ CABLE TOOLS  \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Big Injun \_\_\_\_\_  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ 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			
<del>20</del> - 10-3/4	60'	60'	20 Sks.
9 - 5/8			
8 - 5/8	850'	850'	110 Sks.
7	1850'	1850'	140 Sks.
5 1/2			
4 1/2	2000'	2000'	220 Sks.
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET 50' SALT WATER \_\_\_\_\_ FEET 1550'  
 APPROXIMATE COAL DEPTHS 770'-780' (Pittsburgh)  
 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