



Source of Elevation: Bench Mark 556' on C&O Railroad at Altizer Creek.  
 Error of closure 1"-200'

- 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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

R.A.

Company	Cumberland Gas Company
Address	1200 Union Building, Charleston, W.Va.
Farm	Acre Land Company
Tract	Acres 400 Lease No. MC-10
Well (Farm) No.	6 Serial No. MC-49
Elevation (Spirit Level)	723.00'
Quadrangle	Guyardet NC
County	Cabell District Guyardet
Engineer	<i>[Signature]</i>
Engineer's Registration No.	2602
File No.	Drawing No.
Date	2-4-74 Scale 1" = 300'

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

WELL LOCATION MAP  
 FILE NO. CAB-548

+ 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.

47 011



RECEIVED

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Guyandot

Permit No. CAB-548

Rotary Cable  X  
Recycling   
Water Flood   
Disposal   
Oil Gas  X  
Comb.   
Storage   
(Kind)

Company Cumberland Gas Company  
Address Box 2386, Charleston, W.Va.  
Farm Acre Land Company Acres 400  
Location (waters) Altizer Creek  
Well No. MC-49 Elev. 723'  
District Guyandot County Cabell  
The surface of tract is owned in fee by \_\_\_\_\_

Address \_\_\_\_\_  
Mineral rights are owned by PCT Company  
2 Maple Drive, Huntington, W.Va.  
Address \_\_\_\_\_

Drilling Commenced 3-11-74  
Drilling Completed 4-27-74  
Initial open flow Show cu. ft. \_\_\_\_\_ bbls.  
Final production 158 M cu. ft. per day 1 hr. after shot \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

Well treatment details:

Shot 2748' to 3150' with 4200# Oil Well Gelatin

Attach copy of cementing record.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 10-3/4"	20'	20'	100 Sks.
9 5/8"			
8 5/8"	478'	478'	Bottom Hole Packer
7"	1614'	1614'	
5 1/2"			
4 1/2"			
3"			
2"			
Liners Used			

Coal was encountered at \_\_\_\_\_ Feet \_\_\_\_\_ Inches  
Fresh water 195', 280' Feet \_\_\_\_\_ Salt Water 555' Feet  
Producing Sand Brown Shale Depth 2748' to 3150'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay			0	20		
Sand			20	35		
Slate			35	65		
Red Rock			65	85		
White Slate			85	100		
Sand			100	120		
Slate			120	175		
Red Rock			175	181		
Sand			181	225	Water 195'	
Slate			225	275		
Red Rock			275	305	Water 280'	
Slate			305	320		
Sand			320	370		
Slate			370	390		
Sand			390	396		
Slate			396	445		
Sand			445	575	Water hole full	
Slate			575	635		
Sand			635	710		
Slate			710	720		
Sand			720	765		
Slate			765	800		
Sand			800	825		

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet <sub>2</sub>	Bottom Feet	Oil, Gas or Water	* Remarks
Slate			825	1020		
Sand			1020	1112		
Slate			1112	1223		
Little Lime			1223	1235		
Slate			1235	1240		
Lime			1240	1250		
Slate			1250	1255		
Big Lime			1255	1395		
Slate			1395	1410		
Injun Sand			1410	1440		
Slate & Shells			1440	1468		
Sand			1468	1520		
Slate & Shells			1520	1930		
Shell			1930	1960		
Slate			1960	2007		
Brown Shale			2007	2041		
Berea Sand			2041	2046		
Slate			2046	2053		
Shell			2053	2063		
Slate			2063	2100		
Brown Shale			2100	2170		
Grey Slate			2170	2485		
Brown Shale			2485	2542		
Grey Slate			2542	2615		
Brown Shale			2615	2720		
Slate			2720	2795		
Brown Shale			2795	2950		
White Slate			2950	3150		
Brown Shale			3150	3200		
<u>Corniferous Lime - Onondaga</u>			3200			
TOTAL DEPTH				3234		

Date July 10 19 74

APPROVED CUMBERLAND GAS COMPANY Owner

By *J. C. Liming*  
 J. C. Liming (Title) Asst. Vice Pres.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED  
FEB 6 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 February 5, 1974

Surface Owner \_\_\_\_\_

Company Cumberland Gas Company

Address \_\_\_\_\_

Address P. O. Box 2386, Charleston, W. Va.

Mineral Owner FCT Company

Farm Acre Land Company Acres 400

Address 2 Maple Dr., Huntington, W. Va.

Location (waters) Altizer Creek

Coal Owner Same

Well No. MC-49 Elevation 723'

Address \_\_\_\_\_

District Guyandot County Cabell

Coal Operator \_\_\_\_\_

Quadrangle Guyandot

Address \_\_\_\_\_

THIS PERMIT IS ISSUED IN ACCORDANCE WITH

All provisions being in accordance with Chapter 21 of the W. Va. Code, the location is hereby approved for Drilling. This permit shall expire if operations have not commenced by 6-7-74

Robert L. Fode  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Kenneth Butcher  
Barboursville, W. Va. PH: 736-4885

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 June 24, 1931, by Acre Land Company made to Merritts Creek Gas Co. and recorded on the 20th day of May 1932, in Cabell County, Book 122 Page 437

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.

CUMBERLAND GAS COMPANY

Very truly yours,

(Sign Name) By: G. H. Hall Well Operator Vice President

1200 Union Bldg., Box 2386

Street

Charleston

City or Town

West Virginia 25328

State

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

\*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

**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 Cumberland Gas Company NAME J. C. Lining  
 ADDRESS P.O. Box 2386, Charleston, W.Va. ADDRESS P.O. Box 2386, Charleston, W.Va.  
 TELEPHONE 343-9566 TELEPHONE 343-9566  
 ESTIMATED DEPTH OF COMPLETED WELL: 3,050' ROTARY \_\_\_\_\_ CABLE TOOLS X  
 PROPOSED GEOLOGICAL FORMATION: Brown Shale  
 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 <u>10-3/4</u>	<u>30'</u>	<u>30'</u>	
9 - 5/8			
8 - 5/8	<u>475'</u>	<u>475'</u>	<u>To surface</u>
7	<u>1610'</u>	<u>1610'</u>	
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 320 FEET 450 SALT WATER 1050 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