

Minimum Error of Closure 1 in 200'

Source of Elevation B.M. at U.S. Route 19 -

4500' S.E. from location - 969'

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.

Fracture.....

New Location.....

Drill Deeper.....

Abandonment..... closed 5/8/73

Map No.

Signed: [Signature]

Squares: N S E W

Company CARNEGIE NATURAL GAS CO.
 Address Munhall, Penna.
 Farm Mollie J. Arnett
 Tract _____ Acres 50 Lease No. 10218
 Well (Farm) No. 1044 Serial No. _____
 Elevation (Spirit Level) 1109
 Quadrangle Blacksville C
 County Monongalia District Grant
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date March 1, 1972 Scale 1" = 30p = 495'

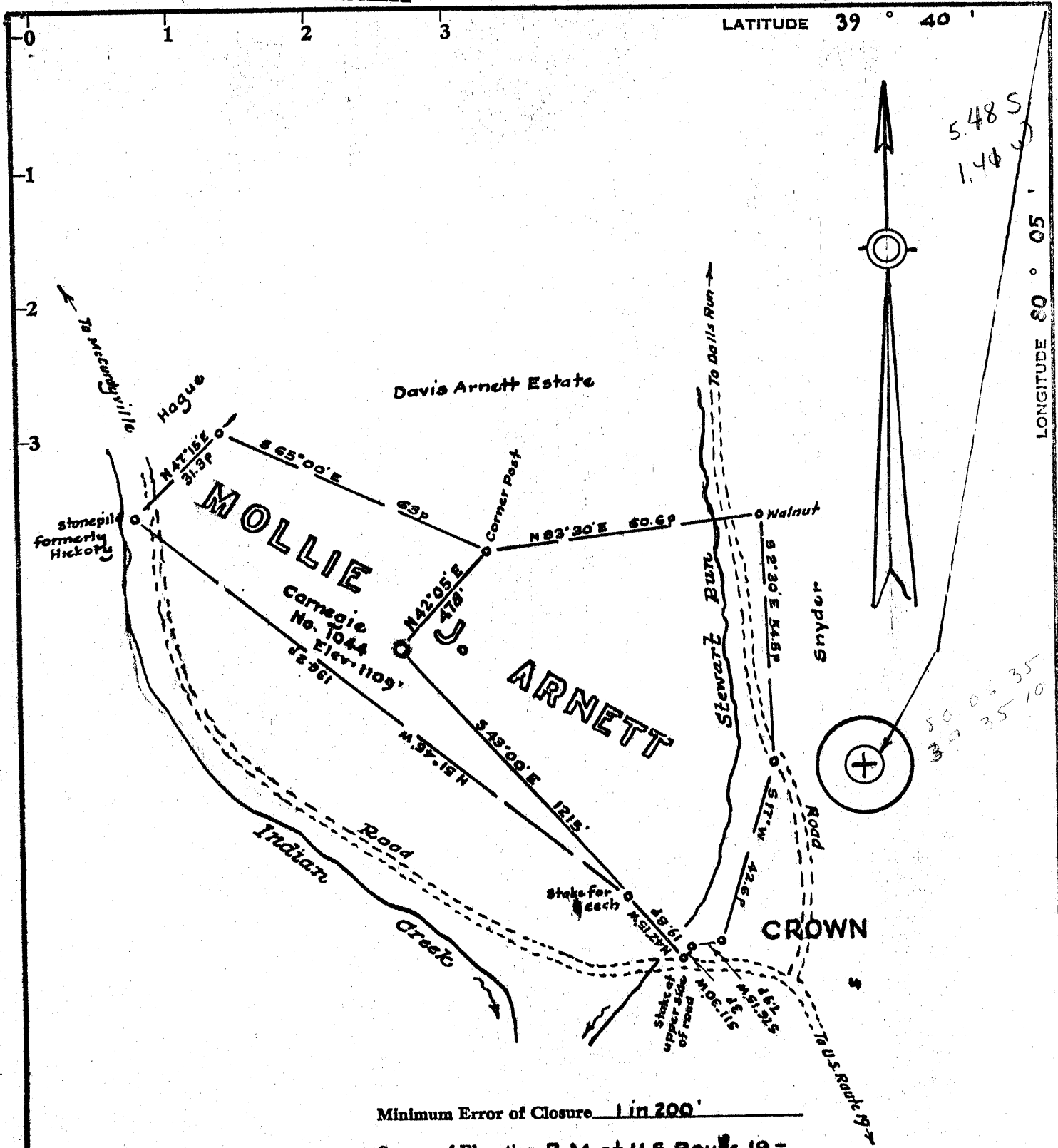
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

FILE NO. MON- 329-D.D.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.



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- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Map No.

Signed: [Signature]
Squares: N S E W

Company CARNEGIE NATURAL GAS CO.
 Address Munhall, Penna.
 Farm Mollie J. Arnett
 Tract _____ Acres 50 Lease No. 10218
 Well (Farm) No. 1044 Serial No. _____
 Elevation (Spirit Level) 1109
 Quadrangle Blacksville
 County Monongalia District Grant
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date March 1, 1972 Scale 1" = 300' = 495'

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

WELL LOCATION MAP
 FILE NO. MON-329-D.D.

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MAY 15 1973

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 2

Quadrangle blacksville SE

Permit No. MON-329-DD

Rotary _____ Oil shole
Cable Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ Dry

Company Carnegie Natural Gas Company
Address 3904 Main St., Monhall, Pa.
Farm Mollie J. Arnett Acres 50
Location (waters) _____
Well No. 1-1044 Elev. 1109
District Grant County Monongalia
The surface of tract is owned in fee by _____
Ray Murphy
Address lit. #2, Morgantown, W. Va.
Mineral rights are owned by Morris J. and Verona C. Haller
Address 464 Stewart St., Morgantown, W. Va.
Drilling ^{deeper} Commenced April 14, 1972
Drilling ^{deeper} Completed June 2, 1972
Initial open flow 21,060 cu. ft. _____ bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open 72 hrs. before test 275# RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 10"	457	457	cemented
9 5/8			
8 5/8	1193	pulled	
7	1684	1684	
5 1/2			
4 1/2			
3	2364	2364	Cemented back to 1950
2			
Liners Used			

Well treatment details: Attach copy of cementing record.
Well fractured 2/19/73 by Haliburton in 50-foot Sand with 177 barrels' gel oil, using 10,000# of 20/40 Sand. Open flow after fracturing - 3,725 cu.ft.

Coal was encountered at 316-321 401-405 Feet _____ Inches _____
Fresh water none Feet _____ Salt Water none Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Coal			316	321		
Coal			401	405		
Sand			880	898		
Sand			1051	1106		
Sand			1193			
Sand			1225	1340	Gas	1230-33'
Line			1630	1644		
Pencil Gave			1644	1643		
Line			1648	1758		
Sand			1758	1878	Gas	1765-71' Gas 1794-98' Gas 1841-47'
<u>old</u> Total Depth				1900		
<u>Drilling Deeper</u>						
Line			1890	1909		
Line			1909	1955		
Sand			1955	1989		
Line			1989	1991		
Gray Line			1991	2009		
Slate			2009	2019		
Sand			2019	2028		
Slate			2028	2060		
Line			2060	2066		
Slate			2066	2130		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet ²	Bottom Feet	Oil, Gas or Water	* Remarks
Lime			2130	2198		
Slate			2198	2208		
Lime			2208	2220		
Slate-Shells			2220	2239		
Lime			2239	2253		
Slate			2253	2265		
Sand			2265	2282	Gas-show-2270-75'	Coarse?
Slate			2282	2283		
Sand			2283	2311		
Slate			2311	2317		
Sand			2317	2331	Gas - 2320-25'	66,660 cu.ft.
Slate			2331	2334		
Sand			2334	2344		50 Ft. sand?
Lime			2344	2370		
Sand			2370	2384		
Slate			2384	2420		
Lime - Critty			2420	2434		
Slate			2434	2439		
Sand			2439	2445		
Slate			2445	2450		
Lime			2450	2461		
Slate			2461	2478		
Red Rock			2478	2494		
Lime			2494	2501		
Red Rock			2501	2540		
Slate			2540			
Total Depth				2560		

T.D. above 5th sd.
near 30 ft. sd.,
above Gordon.

Date April 23, 1973

APPROVED Carnegie Natural Gas Co. Owner

By *J. L. Sullivan*
(Title) Div. Supt.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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MAR 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 March 3, 1972
Company Carnegie Natural Gas Co.
Address 3904 Main St., Munhall, Pa. 15120
Farm Mollie J. Arnett Acres 50
Location (waters) _____
Well No. 1044 Elevation 1109
District Grant County Monongalia
Quadrangle Blacksville, SE

Surface Owner Ray Murphy
Address Rt. #2, Morgantown, W. Va.
Mineral Owner Morris J. and Verona C. Haller
Address 464 Stewart St., Morgantown, W. Va.
Coal Owner Mountaineer Coal Co.
Address Monongah, W. Va.
Coal Operator _____
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 deepening. This permit shall expire if
operations have not commenced by July 7, 1972.

INSPECTOR TO BE NOTIFIED Mr. Wm. Blasser
Colfax, W. Va. PH: Fairmont
303-9105
26566

Debra L. Jones
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 March 4 1948 by Mollie J. Arnett & A.J. Arnett made to Carnegie Natural Gas Co. and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____
 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,
Carnegie Natural Gas Co.
(Sign Name) By: J.W. Swenson
Well Operator Div. _____
3904 Main St.
Street
Munhall
City or Town
Pa.
State

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.

MON-329-DD

PERMIT NUMBER

BLANKET BOND

Survey

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 Carnegie Natural Gas Co. NAME Carnegie Natural Gas Co.
 ADDRESS P.O. Drawer 387, Mannington, W. Va. ADDRESS 350 1/2 Main St., Nunhall, Pa.
 TELEPHONE 906-2050 TELEPHONE 312-462-7121
 ESTIMATED DEPTH OF COMPLETED WELL: 2300' ROTARY _____ CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: Gantz
 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			
13 - 10 10"	457	457	cemented
9 - 5/8			
8 - 5/8 8-5/8"	1193	pulled	
7 7"	1684	1684	
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS ? FEET ? SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS 116-321 401-405
 IS COAL BEING MINED IN THE AREA? Yes BY WHOM? Mountaineer Coal Co.

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 Mountaineer 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 Mountaineer 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.

Bernard J. McQuinn
 For Coal Company
Mining Engineer
 Official Title

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

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OIL & GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELL OF MINES

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE. 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.

Christopher Coal Company
Div. of Consolidated Coal Co.
Box 100, Osage, W. Va.
ADDRESS

Carnegie Natural Gas Company
3904 Main Street
Munhall, Pa. 15120
COMPLETE ADDRESS

Morris J. and Verona C. Haller
Mineral
164 Stewart St., Morgantown, W. Va.
ADDRESS

July 6, 1973
WELL AND LOCATION
Grant District
Monongalia County

Ray Murphy
Surface
Rt. #2, Morgantown, W. Va.
ADDRESS

Well No. 1-1044
Mollie J. Arnett Farm

STATE INSPECTOR SUPERVISING PLUGGING: William Blosser

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Marion } ss:

C. J. Arnett and B. J. Stiles

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 Carnegie Natural Gas Company, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 21 day of May, 1973, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD	FILLING MATERIAL	PLUGS USED	CASING	
			CSG PULLED	CSG LEFT IN
FORMATION	Total Depth	2560		
	Clay	2560-2384	3" Tubing	
	Cement	2384-2364	1939	425
	Clay	2364-2250		
	Cement	2250-2240		
	Clay	2240-1960		
	Cement	1960-1920	7" Casing	
	Clay	1920-1738	816	868
	Cement	1738-1728		
	Clay	1728-1704		
	Cement	1704-1694		
	Set Bridge at	820	10" Casing	
	Cement	820- 810		457
	Set Bridge at	537		
	Cement	537- 487		
	Left 457' of 10.750" Casing in hole. Inserted 23' joint of 7.00" Casing with a 7" x 2" swaged nipple and gooseneck at the top, inside of 10.750" Casing to a depth of 20'.		DESCRIPTION OF MONUMENT	
(NAME) Pittsburgh			Filled annulus with cement from 20' to surface, leaving 3' of 7.00" casing above ground as marker.	
(NAME) Mapleton				
(NAME)				
(NAME)				

and that the work of plugging and filling said well was completed on the 20 day of June, 1973

And further deponents saith not.

Sworn to and subscribed before me this 9 day of July, 1973

My commission expires:

April 13, 1977

Clarence Arnett
Billy J. Stiles
S. H. York
Notary Public.

Permit No. MON-329-DD-P