



0.874
1.36

Minimum Error of Closure 1 in 200
 Source of Elevation Elev. Well No. 13 = 1073

Fracture - 8-27-68
 New Location
 Drill Deeper
 PARTIAL Abandonment
 8-27-68

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.

Signed: *W. H. ...*
 Squares: N S E W

Map No.

Company CARNEGIE NATURAL GAS CO.
 Address Munhall, Penna.
 Farm Leeman Maxwell
 Tract Acres 2164 Lease No. 6764
 Well (Farm) No. 7 Serial No. 323
 Elevation (Spirit Level) 1117
 Quadrangle Halbrook NE
 County Doddridge District West Union
 Engineer W. H. ...
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date August 6, 1968 Scale 1" = 500' = 825'

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

WELL LOCATION MAP
 TRANS. TO DOD-27-FRAC
 FILE NO. DOD-1210-A 2399
 (Partial Plugging)

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Holbrook NE
Permit No. DOD-27-FRAC

WELL RECORD

Oil or Gas Well GAS
(KIND)

Company Carnegie Natural Gas Company
Address 3904 Main Street, Munhall, Pa. 15120
Farm Leeman Maxwell Acres 216 1/4
Location (waters) Bluestone Run
Well No. 7-323 Elev. 1117
District West Union County Doddridge
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Hrs. of Jane M. Henderson & L.B. Maxwell Address _____
Drilling commenced April 26, 1910 DD December 1, 1923
Drilling completed July 21, 1910 DD January 14, 1924
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) 9-16-68 By Dowell w/23 bbl acid, 848 bbl water, and 38,000# 20/40 sand.

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			Size of
10			
8 1/4	313		Depth set
6 5/8	1252	1252	
5 3/16	1683	1683	
4 1/2			
3	1810	1810	Perf. top <u>1745</u>
2	2335		Perf. bottom <u>1780</u>
Liners Used			Perf. top <u>71 shots</u>
			Perf. bottom _____

Attach copy of cementing record.
CASING CEMENTED 3" SIZE 150 No. Ft. 9-6-68 Date
Amount of cement used (bags) 35
Name of Service Co. Garaton Service, Inc.
COAL WAS ENCOUNTERED AT 605 FEET 60 INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 600,000 GCPD 600 McF
ROCK PRESSURE AFTER TREATMENT 360 HOURS 8
Fresh Water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 1745-1780

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Coal			605	610	Water	60'	
Little Dunkard			790	810			
Big Dunkard			830	865			
Gas Sand			1412	1420			
1st Salt Sand			1425		Gas	1437'	Show
2nd Salt Sand			1500	1530			
Pencil Cave			1650	1655			
Big Lime			1655	1725			
Big Injun			1725		Gas	1730'	
Started D.D.			1805				
Gantz Sand			1965	2105	Oil	2066	
50 Foot Sand			2161	2205			
30 Foot Sand			2245	2303	Gas	2266	Show
Gordon Stray			2360	2370	Oil	2270-2274	Show
Gordon Sand		<u>Gorden</u>	2378	2395	Gas	2381	Show
Total Depth				2410	Oil and Gas	2390-2394	
Plugged Back Total Depth				1810			
Mechanical Log Tops:							
Little Lime			1611	1635			
Pencil Cave			1635	1653			
Big Lime			1653	1715			
Big Injun			1715	1796			

