

I, THE UNDERSIGNED Hereby certify
 That this Map is correct to the best
 of my KNOWLEDGE AND BELIEF AND
 SHOWS ALL OF THE INFORMATION required
 by paragraph 5 of the Rules and
 Regulations of the OIL & GAS SECTION
 OF THE MINING LAWS OF WEST VIRGINIA.
 By Bernard D Jernatt

New Location Degree of Accuracy: 1 IN 2000
 Drill Deeper
 Abandonment 11-28-66

SOURCE OF ELEVATION - STATE ROAD
 COMMISSION BENCH MARK INTER-
 SECTION OF W. VA. 7 & U.S. 19.

| | | |
|-----------------------------|--|---------------------|
| Company | ALLEGHENY LAND & MINERAL CO. | |
| Address | 318 PROFESSIONAL BLDG CLARKSBURG W. VA. | |
| Farm | W. C. BRAND | |
| Tract | Acres 197.710 | Lease No. _____ |
| Well (Farm) No. | A-312 | Serial No. A-312 |
| Elevation (Spirit Level) | 1310.4 | |
| Quadrangle | BLACKSVILLE - EC | |
| County | Monongalia | District CASS GRANT |
| Engineer | Bernard D Jernatt | |
| Engineer's Registration No. | 4470 | |
| File No. | 2-190-243 | Drawing No. 9631 |
| Date | MARCH 12, 1966 Scale 1" = 600' | |

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

WELL LOCATION MAP
 FILE NO. MON-291
 Issued Plugging Permit 11-28-66

+ Denotes location of well on United States
 Topographic Maps, scale 1 to 62,500, lat-
 itude 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 _____

WELL RECORD

Oil or Gas Well Oil

Permit No. Non-291

Company Allegheny Land & Mineral Co.
Address Clarksburg, W.Va.
Farm W.C. Brand Acres 197.7
Location (waters) _____
Well No. A-312 Elev. 1310.4
District Cass County Morgan
The surface of tract is owned in fee by Marvin L. Lothstein
Address 286-5th Ave. New York, N.Y.
Mineral rights are owned by Christopher Coal Co
Address Box 100 Osage, W.Va.
Drilling commenced April 4, 1966
Drilling completed June 10, 1966
Date Shot _____ From _____ To _____
With _____

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|--------------------------|
| Size | | | |
| 16 | 20' | 20' | Kind of Packer _____ |
| 13 | 156' | 156' | |
| 10" | 494' | 494' | Size of _____ |
| 8 1/4" | 1520' | None | Depth set _____ |
| 6 3/4" | | | |
| 5 3/16" | 2975' | 2975' | Perf. top <u>2927</u> |
| 3 | | | Perf. bottom <u>2936</u> |
| 2 | | | Perf. top _____ |
| Liners Used | | | Perf. bottom _____ |

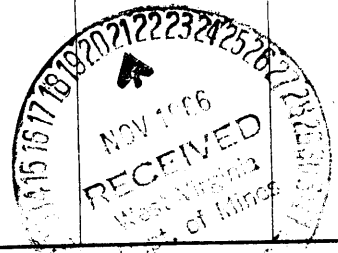
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 100 101 102 103 104 105 106 107 108 109 110 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil None bbls., 1st 24 hrs.
WELL ACIDIZED _____

CASING CEMENTED 4 1/2" SIZE 300 No. Ft. 6-16-66 Date
60 bags cement 10 bags Rosmix Latex
COAL WAS ENCOUNTERED AT 78 FEET 84 INCHES
371 FEET 84 INCHES 456 FEET 96 INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

WELL FRACTURED Fractured by Halliburton Company

RESULT AFTER TREATMENT No increase in production
ROCK PRESSURE AFTER TREATMENT 650# 72 hr.
Fresh Water 1 bailer per hr Feet 230 Salt Water 1450 Hole full Feet 1450

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|----------------|-------|--------------|-----|--------|-------------------|-------|-------------------|
| Top soil | | | 0 | 5 | | | |
| Red clay | | | 5 | 25 | | | |
| Sand | | | 25 | 78 | | | |
| Coal | | | 78 | 85 | | | |
| Lime | | | 85 | 115 | | | |
| Shale & Lime | | | 115 | 145 | | | |
| Sand | | | 145 | 200 | | | |
| Slate | | | 200 | 210 | | | |
| Lime | | | 210 | 220 | | | |
| Sand | | | 220 | 250 | Fresh water | 230 | 1 bailer per hour |
| Lime | | | 250 | 295 | | | |
| Slate | | | 295 | 298 | | | |
| Lime | | | 298 | 340 | | | |
| Slate & shells | | | 340 | 371 | | | |
| Coal | | | 371 | 378 | | | |
| Slate | | | 378 | 385 | | | |
| Lime | | | 385 | 395 | | | |
| Slate | | | 395 | 406 | | | |
| Lime | | | 406 | 445 | | | |
| Coal | | | 456 | 464 | | | |
| Lime | | | 464 | 525 | | | |
| Sand | | | 525 | 535 | | | |
| Slate | | | 535 | 616 | | | |
| Lime | | | 616 | 630 | | | |
| Red Rock | | | 630 | 635 | | | |
| Slate & shells | | | 635 | 725 | | | |
| Sand | | | 725 | 740 | | | |
| Red Rock | | | 740 | 745 | | | |
| Slate & shells | | | 745 | 775 | | | |
| Red Rock | | | 775 | 800 | | | |



| Formation | Color | Hard or Soft | Top /- | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|----------------|-----------|--------------|----------------|--------|-------------------|-------------|--------------------|
| Slate | | | 800 | 830 | | | |
| Red Rock | | | 830 | 863 | | | |
| Slate | | | 863 | 873 | | | |
| Lime | | | 873 | 900 | | | |
| Sand | | | 900 | 910 | | | |
| Slate & shells | | | 910 | 943 | | | |
| Black slate | | | 943 | 955 | | | |
| Sand | | | 955 | 1000 | | | |
| Red Rock | | | 1000 | 1012 | | | |
| Lime | | | 1012 | 1032 | | | |
| Sand | | | 1032 | 1150 | Gas | 1123 | Show |
| Slate & shells | | | 1150 | 1185 | | | |
| Sand | | | 1185 | 1245 | Gas | 1197 | Show |
| Slate & lime | | | 1245 | 1280 | | | |
| Sand | | | 1280 | 1310 | | | |
| Lime | | | 1310 | 1385 | | | |
| Lime & slate | | | 1385 | 1415 | | | |
| Sand | | | 1415 | 1520 | Salt water | 1450 | Hole full |
| Lime | | | 1520 | 1675 | | | |
| Red Rock | | | 1675 | 1705 | | | |
| Lime | | | 1705 | 1740 | | | |
| Slate | | | 1740 | 1748 | | | |
| Lime | Big Lime | | 1748 | 1826 | | | |
| Sand | INSUN 371 | | 1826 | 1955 | Gas | 1907-08 | Original 1916 |
| Slate & shells | | | 1955 | 2020 | " | 1922-25 | blew down to 50 ft |
| Sand | | | 2020 | 2050 | | | |
| Slate & shells | | | 2050 | 2080 | | | |
| Sand | | | 2080 | 2118 | | | |
| Slate & lime | | | 2118 | 2330 | | | |
| Sand | | | 2330 | 2470 | | | |
| Slate & lime | | | 2470 | 2572 | | | |
| Pink rock | | | 2572 | 2583 | | | |
| Red Rock | | | 2583 | 2800 | | | |
| Lime & slate | | | 2800 | 2910 | | | |
| Sand | STH | | 2910 | 2940 | Gas 5% sand | 2922-31 | 11 M |
| Lime | | | 2940 | 2950 | | | |
| Slate | | | 2950 | 3000 | | | |
| Total depth | | | | 3000 | | | |

Date November 17, 1966

APPROVED Allegheny Lead & Mineral Co., Owner

By Claron Dawson, Supt.
(Title)