

New Location
 Drill Deeper
 Abandonment X 2449

Company PITTSBURGH & W.V.A. GAS CO.
 Address CLARKSBURG, W.V.A.
 Farm D.C. JONES
 Tract _____ Acres 75 Lease No. 11353
 Well (Farm) No. 162 Serial No. 2449
 Elevation (Spirit Level) AS SHOWN
 Quadrangle CLARKSBURG NE 142
 County MARION District LINCOLN
 Engineer Kenneth B. Moore
 Engineer's Registration No. _____
 File No. V-157 P.39 Drawing No. _____
 Date APRIL 22, 1948 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. MAR-511-A

+ 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

Warrington District, Marion County, W. Va.
By Philadelphia Company.
2.2 mi. N. W. of Annabelle.
Completed in 1911.
Elevation, 1245' B.

| | Top. | Bottom. | Thickness. |
|----------------------------|------|---------|------------|
| Clay | 0 | - 20 | 20 |
| Slate | 20 | - 95 | 75 |
| Sand | 95 | - 130 | 35 |
| Slate | 130 | - 162 | 32 |
| Bluff Sand | 162 | - 212 | 50 |
| Slate | 212 | - 235 | 23 |
| Lime | 235 | - 268 | 33 |
| Sand | 268 | - 283 | 15 |
| Slate | 283 | - 450 | 167 |
| Lime | 450 | - 499 | 49 |
| Mapletown (Sewickley) Coal | 499 | - 504 | 5 |
| Slate, dark | 504 | - 555 | 51 |
| Lime | 555 | - 606 | 51 |
| Pittsburgh Coal (SLM) | 606 | - 615 | 9 |
| Lime | 615 | - 680 | 65 |
| Slate and lime | 680 | - 750 | 70 |
| Red rock | 750 | - 785 | 35 |
| Lime | 785 | - 805 | 20 |
| Red rock | 805 | - 815 | 10 |
| Slate and lime | 815 | - 950 | 135 |
| Little Dunkard Sand | 950 | - 990 | 40 |
| Slate, dark | 990 | - 1005 | 15 |
| Lime, light | 1005 | - 1030 | 25 |
| Big Dunkard Sand | 1030 | - 1176 | 146 |
| Slate and lime shells | 1176 | - 1308 | 132 |
| Gas Sand | 1308 | - 1415 | 107 |
| Slate | 1415 | - 1450 | 35 |
| Salt Sand | 1450 | - 1510 | 60 |
| Slate | 1510 | - 1528 | 18 |
| Salt Sand | 1528 | - 1595 | 67 |
| Slate | 1595 | - 1600 | 5 |
| Salt Sand | 1600 | - 1706 | 106 |
| Slate | 1706 | - 1778 | 72 |
| Red rock | 1778 | - 1856 | 78 (150?) |
| Lime | 1856 | - 1866 | 10 |
| Slate | 1866 | - 1885 | 19 |
| Little Lime | 1885 | - 1895 | 10 |
| Pencil Cave | 1895 | - 1900 | 5 |
| Big Lime | | | |

(Still drilling)
(RECORD INCOMPLETE)



588

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

"GAS"

Oil or Gas Well

(KIND)

Permit No. 511-A

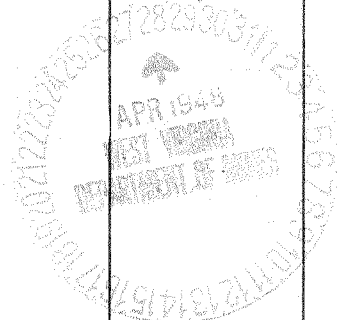
Company Pittsburgh & West Va Gas Company.
 Address Clarksburg, West Va.
 Farm David C. Jones Acres 75
 Location (waters) Clarksburg N/E. 1-1-2
 Well No. 2119 Elev. 1293' VA
 District Lincoln County Marion
 The surface of tract is owned in fee by Edward Bland
R.D.#4 Address Mannington, W. Va.
 Mineral rights are owned by Chester Jones et al.
 Address Shinnston, W. Va.
 Drilling commenced July 25th, 1911
 Drilling completed August 21st, 1911
 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.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|----------------|
| Size | | | Kind of Packer |
| 16 | | | |
| 13 | | | |
| 10 | 658' | 658' | Size of |
| 8 1/4 | 1117' | 1117' | |
| 6 5/8 | 1944' | 1944' | Depth set |
| 5 3/16 | 2790' | 2790' | |
| 3 | | | Perf. top |
| 2 | | | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT 499 FEET 60 INCHES
606 FEET 108 INCHES FEET INCHES
 FEET INCHES FEET INCHES

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-----------------------|--------|--------------|------|--------|-------------------|-------------|---------|
| lay | Yellow | Soft | 0 | 20 | | | |
| late | Light | " | 20 | 95 | | | |
| and | " | Hard | 95 | 130 | | | |
| late | " | Soft | 130 | 162 | | | |
| uff Sand | " | Hard | 162 | 212 | | | |
| late | " | Soft | 212 | 235 | | | |
| lime | " | Hard | 235 | 268 | | | |
| and | " | " | 268 | 283 | | | |
| late | " | Soft | 283 | 450 | | | |
| lime | " | Hard | 450 | 499 | | | |
| l.T. Coal | Black | Soft | 499 | 504 | | | |
| late | Dark | " | 504 | 555 | | | |
| lime | Light | Hard | 555 | 606 | | | |
| gh. Coal | Black | Soft | 606 | 615 | | | |
| lime | Light | Hard | 615 | 680 | | | |
| late&lime | " | " | 680 | 750 | | | |
| ed Rock | Red | Soft | 750 | 785 | | | |
| lime | Light | Hard | 785 | 805 | | | |
| ed Rock | Red | Soft | 805 | 815 | | | |
| late&lime | Light | Hard | 815 | 950 | | | |
| ittle Dunkard | " | " | 950 | 990 | | | |
| late | Dark | Soft | 990 | 1005 | | | |
| lime | Light | Hard | 1005 | 1030 | | | |
| ig Dunkard | " | " | 1030 | 1176 | | | |
| late&lime Shells Drak | " | Soft | 1176 | 1308 | | | |
| as Sand | Light | Hard | 1308 | 1415 | | | |
| late | Dark | Soft | 1415 | 1450 | | | |
| alt Sand | Light | Hard | 1450 | 1510 | | | |
| late | Dark | Soft | 1510 | 1528 | | | |
| alt Sand | Light | Hard | 1528 | 1595 | | | |
| late | Dark | Soft | 1595 | 1600 | | | |
| alt Sand | Light | Hard | 1600 | 1706 | | | |
| late | Dark | Soft | 1706 | 1778 | | | |
| ed Rock | Red | " | 1778 | 1856 | | | |
| lime | Light | Hard | 1856 | 1866 | | | |
| late | " | Soft | 1866 | 1885 | | | |
| ittle lime | " | Hard | 1885 | 1895 | | | |
| pencil Cave | " | Soft | 1895 | 1900 | | | |
| ig Lime | " | Hard | 1900 | 1976 | | | |



| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks | |
|------------------|-------|--------------|------|--------|-------------------|-------------|---------|--|
| Big Injun | Light | Hard | 1976 | 2095 | Gas | 2024-2062' | | |
| Un-recorded | | | 2095 | 2109 | | | | |
| Squaw Sand | | | 2109 | 2123 | Sh. Oil | 2112' | | |
| Un-recorded | | | 2123 | 2125 | | | | |
| Gantz Sand | | | 2125 | 2135 | | | | |
| Un-recorded | | | 2135 | 2568 | | | | |
| 50 Ft. Sand | | | 2568 | 2600 | | | | |
| Un-recorded | | | 2600 | 2625 | | | | |
| 30 Ft. Sand | | | 2625 | 2635 | | | | |
| Un-recorded | | | 2635 | 2780 | | | | |
| Gordon Stray | | | 2780 | 2804 | | | | |
| Gordon Sand | | | 2805 | 2817 | Sh. Gas | 2814' | | |
| Un-recorded | | | 2817 | 2829 | | | | |
| 4th. Sand | | | 2829 | 2902 | Gas | 2874' | | |
| Un-recorded | | | 2902 | 2969 | | | | |
| 5th. Sand | | | 2969 | 2972 | | | | |
| Un-recorded | 2972 | 2991 | | | | | | |
| Total Depth..... | | | | 2991 | | | | |

January 21, 1948

Date _____, 19____
PITTSBURGH & WEST VA GAS COMPANY.

APPROVED _____

By W. J. McMaster Owner
(Title)

Record of Well No. 2449 Located on David P. Jones Farm June 14 19 11
Lusola District Marion County West Va State
 Division AV District No. 11 Drilled under well Order 284
 Rig built by John Craig Began July 20 19 11 Completed July 22 19 11
Well drilled by Mark Hartness Began July 20 19 17 Completed Aug 14 19 17
Well drilled by Mark Hartness Began July 25 19 11 Completed Aug 21 19 11
 Depth of Well 2099 feet Size of Hole 6 5/8 Producing Gas
2991 5 3/16 Elev. 1233' G.L.

| CASED WITH | | | REMARKS |
|--------------|----------------|-------------|---|
| AMOUNT | SIZE | KIND | <u>L.O. 122</u> |
| | | | <u>Lease expires Oct 5-1911</u> |
| <u>16'</u> | <u>13"</u> | <u>Wood</u> | |
| <u>658'</u> | <u>10"</u> | <u>New</u> | |
| <u>1149'</u> | <u>8 1/2"</u> | <u>Old</u> | |
| <u>1944'</u> | <u>6 3/4"</u> | | |
| <u>2790'</u> | <u>5 3/16"</u> | <u>New</u> | <u>1-8 1/2" x 6 5/8" Locking B. W. Casket</u> |
| <u>2991'</u> | <u>2"</u> | | |

COAL VEINS Mapleton 499 554 606 615

| FORMATIONS | | | | | |
|----------------------|-------|----------------------------|----------------|-------------|--|
| FORMATION | COLOR | OPEN OR CLOSE HARD OR SOFT | TOP | BOTTOM | REMARKS GAS-OIL-WATER (THICKNESS OF PAY) |
| <u>Little Round</u> | | | <u>950</u> | <u>990</u> | |
| <u>Big "</u> | | | <u>1030</u> | <u>1176</u> | |
| <u>Big Sand</u> | | | <u>1415</u> | | |
| <u>Salt "</u> | | | <u>1450</u> | <u>1570</u> | |
| <u>" "</u> | | | <u>1520</u> | <u>1595</u> | |
| <u>Mason "</u> | | | <u>1900</u> | <u>1976</u> | |
| <u>Big Limestone</u> | | | <u>1970</u> | <u>2090</u> | <u>Gas 2024</u> |
| <u>Big Limestone</u> | | | <u>2109</u> | <u>2125</u> | <u>Oil 2112 (low)</u> |
| <u>Round Sand</u> | | | <u>2425</u> | <u>2495</u> | |
| <u>Plant "</u> | | | <u>2568</u> | <u>2600</u> | |
| <u>W. Ft. Root</u> | | | <u>2625</u> | <u>2635</u> | |
| <u>W. Ft. Root</u> | | | <u>2780</u> | <u>2804</u> | |
| <u>W. Ft. Root</u> | | | <u>2805</u> | <u>2817</u> | <u>Gas 2814 (low)</u> |
| <u>W. Ft. Root</u> | | | <u>2829</u> | <u>2902</u> | <u>2874. 1.66 W. 2. 169 MCF</u> |
| <u>W. Ft. Root</u> | | | <u>2969</u> | <u>2972</u> | |
| | | | | <u>2991</u> | |
| | | | | <u>3077</u> | |
| | | | <u>New Ftg</u> | <u>925</u> | |

(064) Farmington

| FIRST PRESSURE TEST IN | | CASING | | REMARKS | |
|------------------------|---------|-------------|------------------------------|-------------------------------|-------------|
| 30 Sec. | 45 lbs. | 2 | 9 | | |
| 1 Min. | 90 | 3 | 13 | | |
| 2 " | 108 | 4 | 20 | | |
| 5 " | 140 | 10 | 29 | | |
| 10 " | 159 | 20 | 33 | | |
| 15 " | 163 | 35 | 35 | | 100-24 hrs. |
| 30 " | 170 | | | June 1915. 1.3 W 1" - 42 240. | |
| Rock Pressure | 250 | " in 24 hrs | 140 - 14 hrs 170 - 40 hrs | 52 - 18 hrs. | |
| Taken | Aug 21 | 1911 | Aug 14 - 1917 | 8 - 22 - 1917 | |
| By | Martin | | Rank Hess | Hess | |

WELL TUBED AND PACKED Aug 25 1911

VIZ: - 163 1/2 - 2097 ft. 3" Tubing (Well) 5 ft. 27 ft. of Anchor
1-6 5/8 x 3" Larkin Anchor

8-22-1917 139 1/2 - 2991 ft. of 2"
1-5 3/16 x 2" Anchor (Packer) 140 ft. of Anchor (9 ft)
1-2" G. & L.

| FIRST PRESSURE TEST IN | | TUBING | | REMARKS | |
|------------------------|---------|--------------|----------------|-------------------|---------------|
| 30 Sec. | 90 lbs. | 11 | 11 | 3" Sealed out | 2" |
| 1 Min. | 120 | 19 | 19 | .6 W 3" | 8 |
| 2 " | 140 | 31 | 31 | | 12 |
| 5 " | 160 | 46 | 46 | | 21 |
| 10 " | 160 | 50 | 50 | | 43 |
| 15 " | 170 | 20 54 | 54 | .6 W 3" | 64 |
| 30 " | | | | 54 - 20 ft. trial | 76 |
| Rock Pressure | 250 | " in 24 hrs. | June 14 - 1916 | June 15 - 1916 | 59 |
| Taken | Aug 25 | 1911 | | | 170 - 18 hrs. |
| By | Martin | | Norris | | Aug 22 - 1917 |

MATERIAL FOR THIS WELL RECEIVED FROM FOLLOWING SOURCES:

Blank lined area for listing material sources.

FORMATIONS

FORM: 032-5170

Well 2449 David P. Jones

| NAME | TOP | BOTTOM | OIL | GAS | WATER | REMARKS |
|---------------------|------|--------|-----|-----|-------|------------------------|
| Clay | | 20 | | | | |
| Shale | 20 | 95 | | | | |
| Sand | 95 | 130 | | | | |
| Shale | 130 | 162 | | | | |
| Buff Sand | 162 | 213 | | | | |
| Shale | 212 | 235 | | | | |
| Lime | 235 | 268 | | | | |
| Sand | 268 | 283 | | | | |
| Shale | 283 | 450 | | | | |
| Lime | 453 | 499 | | | | |
| Madison Coal | 499 | 574 | | | | |
| Shale | 574 | 575 | | | | |
| Lime | 575 | 606 | | | | |
| Off Coal | 606 | 615 | | | | Steel line measurement |
| Lime | 615 | 680 | | | | |
| Shale + Lime | 680 | 720 | | | | |
| Buff Rock | 720 | 785 | | | | |
| Lime | 785 | 805 | | | | |
| Buff Rock | 805 | 815 | | | | |
| Shale + Lime | 815 | 950 | | | | |
| Light Dumbart | 950 | 990 | | | | |
| Shale | 990 | 1005 | | | | |
| Lime | 1005 | 1030 | | | | |
| Big Dumbart | 1030 | 1176 | | | | |
| Lime, Shale + Shell | 1176 | 1308 | | | | |
| Gas Sand | 1308 | 1415 | | | | |
| Shale | 1415 | 1450 | | | | |
| Salt Sand | 1450 | 1570 | | | | |
| Shale | 1570 | 1578 | | | | |
| Salt Sand | 1578 | 1595 | | | | |
| Shale | 1595 | 1600 | | | | |
| Salt Sand | 1600 | 1700 | | | | |
| Shale | 1700 | 1798 | | | | |
| Buff Rock | 1798 | 1856 | | | | |
| Lime | 1856 | 1866 | | | | |
| Shale | 1866 | 1885 | | | | |
| Little Lime | 1885 | 1895 | | | | |
| Council Cove | 1895 | 1900 | | | | |
| Big Lime | 1900 | 1976 | | | | |
| Big Dumbart | 1976 | 2024 | | | | |
| Red Dirt | 2076 | | | | | |