

Latitude 39°22'30"

75'
+

0.852
1.926

80°40'00"

Longitude

Topo Location

7.5' Loc. _____ 15' Loc. _____
_____ (calc.) _____

Company _____ #4107

Farm R.K. + P.J. Cehfield

15' Quad _____
(sec.)

7.5' Quad Smithburg

District GRANT

WELL LOCATION PLAT

County 017 Permit 30970

970A

Grant District, Doddridge County, W. Va.
 By Equitable Gas Co., W. Va. Div., Clarksburg, W. Va.
 Abandoned under permit Ded-.....-47
 On 351 acres; Centerpoint S/W 1-2.
 Elevation, 1063' L.

(on plat 00dd.96)

Surface owned by Edward Leisare, West Union, W. Va., and minerals by
 R. L. and Kenna McCulty, Spencer, W. Va.

Drilling commenced Sept. 28, 1912; completed Nov. 25, 1912.

10" casing, 287' (pulled); 8 1/2", 1171' (pulled); 6", 1923'.

Coal was encountered at 170-172, 400-404, and 650-652'.

Gas well. Record to Dept. of Mines dated Nov. 30, 1944; stamped Nov. 22, 1944.

Record to BOT from Mrs. Griffith Feb. 11, 1953. G.F.No. 891.

| | Top. | Bottom. |
|--------------------------------------|------|---------|
| Clay, yellow, soft | 0 | 8 |
| Slate, white, soft | 8 | 40 |
| Red rock, soft | 40 | 60 |
| Slate, dark, soft | 60 | 90 |
| Sand, yellow, hard | 90 | 112 |
| Slate, dark, soft | 112 | 170 |
| Coal, black, soft | 170 | 172 |
| Slate, dark, soft | 172 | 195 |
| Lime, white, hard | 195 | 220 |
| Slate, white, soft | 220 | 238 |
| Red rock, soft | 238 | 250 |
| Lime, white, hard | 250 | 275 |
| Red rock, soft | 275 | 290 |
| Slate, dark, soft | 290 | 335 |
| Red rock, soft | 335 | 345 |
| Sand, white, hard | 345 | 393 |
| Slate, white, soft | 393 | 400 |
| Coal, black, soft | 400 | 404 |
| Lime, white, hard | 404 | 430 |
| Slate and shells, white, soft & hard | 430 | 460 |
| Red rock, soft | 460 | 470 |
| Lime, white, hard | 470 | 520 |
| Slate, white, soft | 520 | 575 |
| Red rock, soft | 575 | 585 |
| Lime, white, hard | 585 | 600 |
| Slate, soft | 600 | 610 |
| Lime, hard | 610 | 630 |
| Slate, soft | 630 | 640 |
| Slate, dark, soft | 640 | 650 |
| Pittsburgh Coal, black, soft | 650 | 652 |
| Lime, white, hard | 652 | 670 |
| Slate, dark, soft | 670 | 700 |
| Sand, white, hard | 700 | 735 |
| Slate, white, soft | 735 | 743 |
| Lime, white, hard | 743 | 770 |
| Red rock, soft | 770 | 805 |
| Lime, white, hard | 805 | 835 |
| Slate, white, soft | 835 | 840 |
| Lime, white, hard | 840 | 853 |
| Slate, white, soft | 853 | 870 |
| Sand, white, hard | 870 | 880 |
| Lime, white, hard | 880 | 955 |
| Lime and slate, white, hard & soft | 955 | 1000 |

(OVER)

JAMES L. CARR NO. 4107 WELL (Continued).

| | Top. | Bottom. |
|--|------|------------|
| Red rock, soft | 1000 | - 1010 |
| Little Dunkard Sand, white, hard | 1010 | - 1040 |
| Slate, white, soft | 1040 | - 1080 |
| Lime, red, hard | 1080 | - 1100 |
| Big Dunkard Sand, white, hard | 1100 | - 1146 |
| Slate, dark, soft | 1146 | - 1173 |
| Lime, white, hard | 1173 | - 1220 |
| Slate, white, soft | 1220 | - 1270 |
| Big Dunkard Sand, white, hard | 1270 | - 1295 |
| Slate, white, soft | 1295 | - 1300 |
| Gas Sand, white, soft | 1300 | - 1360 |
| Slate and lime, white, soft & hard | 1360 | - 1410 |
| Sand, white, soft | 1410 | - 1445 |
| Slate, white, soft | 1445 | - 1470 |
| 1st Salt Sand, white, hard | 1470 | - 1525 |
| Slate and shells, dark, soft | 1525 | - 1560 |
| Lime, white, hard | 1560 | - 1580 |
| 2nd Salt Sand, white, hard | 1580 | - 1605 |
| Slate, dark, soft | 1605 | - 1665 |
| Sand, white, hard (show gas, 1700') | 1665 | - 1710 |
| Slate and lime, dark, soft & hard | 1710 | - 1740 |
| Lime, dark, hard | 1740 | - 1740 (?) |
| Maxton Sand, white, hard | 1740 | - 1800 |
| Slate, dark, soft | 1800 | - 1848 |
| Red rock, soft | 1848 | - 1900 |
| Little Lime, dark, hard | 1900 | - 1915 |
| Slate, dark, soft | 1915 | - 1920 |
| Big Lime, white, hard | 1920 | - 2010 |
| Big Injan Sand, white, hard (gas, 2105-2128') | 2010 | - 2160 |
| Slate and shells, white, hard & soft | 2160 | - 2320 |
| Gantz Sand, white, hard | 2320 | - 2430 |
| Slate, dark, soft | 2430 | - 2515 |
| 50-Ft. Sand, dark, hard | 2515 | - 2545 |
| Slate, dark, soft | 2545 | - 2592 |
| 30-Ft. Sand, dark, hard | 2592 | - 2615 |
| Slate and shells, dark, soft & hard | 2615 | - 2720 |
| Gordon Stray Sand, dark, hard | 2720 | - 2726 |
| Slate, dark, soft | 2726 | - 2732 |
| Gordon Sand, dark, hard (gas, 2751') | 2732 | - 2755 |
| Slate and shells, dark, soft & hard | 2755 | - 2925 |
| 5th Sand, gray, hard | 2925 | - 2930 |
| Slate, dark, soft | 2930 | - 2951 |
| Total depth | | 2951 |



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

891

Permit No. 000-970-A

WELL RECORD

Oil or Gas Well **"GAS"**
(KIND)

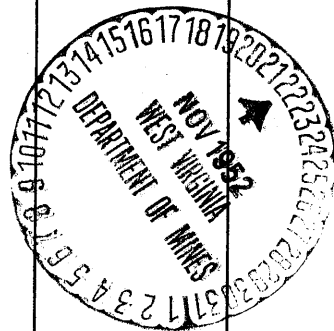
Company EQUITABLE GAS COMPANY-WEST VA DIV.
Address Clarksburg, West Va.
Farm James L. Carr Acres 351
Location (waters) Centerpoint S/W. 1-2
Well No. 4107 Elev. 1063' L
District Grant County Doddridge
The surface of tract is owned in fee by Edward Leisure
R.D.#2 Address West Union, W. Va.
Mineral rights are owned by R.L.A. Kenna McCully
Address Spencer, W. Va.
Drilling commenced September 28, 1912
Drilling completed November 25, 1912
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 | 287' | None | Size of |
| 8 1/4 | 1171' | None | |
| 6 5/8 | 1923' | 1923' | Depth set |
| 5 3/16 | | | |
| 3 | | | Perf. top |
| 2 | | | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

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

COAL WAS ENCOUNTERED AT 170 FEET 24 INCHES
400 FEET 48 INCHES 650 FEET 24 INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|--------------|--------|--------------|-----|--------|-------------------|-------------|---------|
| Clay | Yellow | Soft | 0 | 8 | | | |
| Slate | White | " | 8 | 45 | | | |
| Red Rock | Red | " | 45 | 60 | | | |
| Slate | Dark | " | 60 | 90 | | | |
| Sand | Yellow | Hard | 90 | 112 | | | |
| Slate | Dark | Soft | 112 | 170 | | | |
| Coal | Black | " | 170 | 172 | | | |
| Slate | Dark | " | 172 | 195 | | | |
| Lime | White | Hard | 195 | 220 | | | |
| Slate | " | Soft | 220 | 238 | | | |
| Red Rock | Red | " | 238 | 250 | | | |
| Lime | White | Hard | 250 | 275 | | | |
| Red Rock | Red | Soft | 275 | 290 | | | |
| Slate | Dark | " | 290 | 335 | | | |
| Red Rock | Red | " | 335 | 345 | | | |
| Sand | White | Hard | 345 | 393 | | | |
| Slate | " | Soft | 393 | 400 | | | |
| Coal | Black | " | 400 | 401 | | | |
| Lime | White | Hard | 401 | 430 | | | |
| Slate&Shells | " | Soft&Hard | 430 | 460 | | | |
| Red Rock | Red | Soft | 460 | 470 | | | |
| Lime | White | Hard | 470 | 520 | | | |
| Slate | " | Soft | 520 | 575 | | | |
| Red Rock | Red | " | 575 | 585 | | | |
| Lime | White | Hard | 585 | 600 | | | |
| Slate | " | Soft | 600 | 610 | | | |
| Lime | " | Hard | 610 | 630 | | | |
| Slate | " | Soft | 630 | 640 | | | |
| Slate | Dark | " | 640 | 650 | | | |
| Pgh. Coal | Black | " | 650 | 662 | | | |
| Lime | White | Hard | 662 | 670 | | | |
| Slate | Dark | Soft | 670 | 700 | | | |
| Sand | White | Hard | 700 | 735 | | | |
| Slate | " | Soft | 735 | 743 | | | |
| Lime | " | Hard | 743 | 770 | | | |
| Red Rock | Red | Soft | 770 | 805 | | | |
| Lime | White | Hard | 805 | 835 | | | |
| Slate | " | Soft | 835 | 840 | | | |



| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|------------------|-------|--------------|------|--------|-------------------|-------------|---------|
| Lime | White | Hard | 840 | 853 | | | |
| Slate | " | Soft | 853 | 870 | | | |
| Sand | " | Hard | 870 | 880 | | | |
| Lime | " | Hard | 880 | 955 | | | |
| Lime&Slate | " | Hard&Soft | 955 | 1000 | | | |
| Red Rock | Red | Soft | 1000 | 1010 | | | |
| Little Dunkard | White | Hard | 1010 | 1040 | | | |
| Slate | " | Soft | 1040 | 1080 | | | |
| Lime | Red | Hard | 1080 | 1100 | | | |
| Big Dunkard | White | " | 1100 | 1146 | | | |
| Slate | Dark | Soft | 1146 | 1173 | | | |
| Lime | White | Hard | 1173 | 1220 | | | |
| Slate | " | Soft | 1220 | 1270 | | | |
| Big Dunkard | " | Hard | 1270 | 1295 | | | |
| Slate | " | Soft | 1295 | 1300 | | | |
| Gas Sand | " | " | 1300 | 1360 | | | |
| Slate&Lime | " | Soft&Hard | 1360 | 1410 | | | |
| Sand | " | Soft | 1410 | 1445 | | | |
| Slate | " | Soft | 1445 | 1470 | | | |
| 1st. Salt Sand | " | Hard | 1470 | 1525 | | | |
| Slate&Shells | Dark | Soft | 1525 | 1560 | | | |
| Lime | White | Hard | 1560 | 1580 | | | |
| 2nd. Salt Sand | " | " | 1580 | 1605 | | | |
| Slate | Dark | Soft | 1605 | 1665 | | | |
| Sand | White | Hard | 1665 | 1710 | Sh. Gas | 1700' | |
| Slate&Lime | Dark | Soft&Hard | 1710 | 1740 | | | |
| Lime | " | Hard | 1740 | 1740 | | | |
| Mass Sand | White | " | 1740 | 1800 | | | |
| Slate | Dark | Soft | 1800 | 1848 | | | |
| Red Rock | Red | " | 1848 | 1900 | | | |
| Little Lime | Dark | Hard | 1900 | 1915 | | | |
| Slate | " | Soft | 1915 | 1920 | | | |
| Big Lime | White | Hard | 1920 | 2010 | | | |
| Big Injun Sand | " | " | 2010 | 2160 | Gas | 2105-2128' | |
| Slate&Shells | " | Hard&Soft | 2160 | 2320 | | | |
| Gas Sand | " | Hard | 2320 | 2430 | | | |
| Slate | Dark | Soft | 2430 | 2515 | | | |
| 50 Ft. Sand | " | Hard | 2515 | 2545 | | | |
| Slate | " | Soft | 2545 | 2592 | | | |
| 30 Ft. Sand | " | Hard | 2592 | 2615 | | | |
| Slate&Shells | " | Soft&Hard | 2615 | 2720 | | | |
| Shadr G. Stray | " | Sm& Hard | 2720 | 2726 | | | |
| Slate | " | Soft | 2726 | 2732 | | | |
| Gordon Sand | " | Hard | 2732 | 2755 | Gas | 2751' | |
| Slate&Shells | " | Soft&Hard | 2755 | 2925 | | | |
| 5th. Sand | Gray | Hard | 2925 | 2930 | | | |
| Slate | Dark | Soft | 2930 | 2951 | | | |
| Total Depth..... | | | | 2951 | | | |

November 30, 1944

Date _____, 19__

EQUITABLE GAS COMPANY-WEST VA DIV.

APPROVED _____, Owner

By W. H. Masterson
(Title)

