

New Location
 Drill Deeper
 Abandonment

75' loc
 2.26 S 39 20
 0.91 W 80 47 30
 15' loc
 2.26 S 48 9 15 98
 3.14 W

Company PHILADELPHIA OIL CO.
 Address CLARKSBURG, W.VA.
 Farm J. W. MULLIGAN ET UX
 Tract _____ Acres 63 Lease No. 13507
 Well (Farm) No. ONE Serial No. 4571
 Elevation (Spirit Level) 1074'
 Quadrangle WEST UNION S.E. 4'
 County DODDRIDGE District CENTRAL
 Engineer J.E. Bigler
 Engineer's Registration No. 764
 File No. _____ Drawing No. _____
 Date MAY 4, 1942. Scale 1" = 300'

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

WELL LOCATION MAP
 FILE NO. DOD-397-A
 was 01771510

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

321

WELL RECORD

Permit No. 397-A

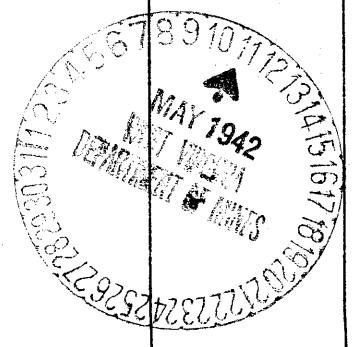
Oil or Gas Well OIL
(KIND)

Company Philadelphia Oil Company.
 Address Clarksburg, West Va.,
 Farm J. W. Mulligan Acres 63
 Location (waters) West Union 2 1/2. 4-1
 Well No. 4571 Elev. 1074'
 District Central County Dodridge
 The surface of tract is owned in fee by J. W. Mulligan
 Address West Union, W. Va.,
 Mineral rights are owned by J. W. Mulligan
 Address West Union, W. Va.,
 Drilling commenced June 12, 1929
 Drilling completed July 12, 1929
 Date Shot 8-7-1929 From 2170 To 2175
 With 20 lbs.
 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. | <u>705'</u> | <u>None.</u> | Size of |
| 8 3/4. | <u>1171'</u> | <u>1171'</u> | Depth set |
| 6 5/8. | <u>2010'</u> | <u>2010'</u> | |
| 5 3/16. | | | Perf. top |
| 3. | | | Perf. bottom |
| 2. | | | Perf. top |
| Liners Used | | | Perf. bottom |

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
 COAL WAS ENCOUNTERED AT 730 FEET 2 1/2 INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|------------|-------|--------------|------|--------|-------------------|-------------|------------|
| Clay | Red | Soft | 0 | 15 | | | |
| Slate | " | " | 16 | 56 | | | |
| Lime | Dark | Hard | 56 | 76 | | | |
| Slate | " | Soft | 76 | 86 | | | |
| Sand | White | " | 86 | 114 | | | |
| Slate | Dark | Soft | 114 | 156 | | | |
| " | Red | " | 156 | 206 | | | |
| Sand | White | " | 206 | 234 | | | |
| Slate | Dark | Soft | 234 | 261 | | | |
| Slate | Red | " | 261 | 276 | | | |
| Slate | Dark | " | 276 | 285 | | | |
| Slate | Red | " | 285 | 300 | | | |
| Lime | Dark | Hard | 300 | 310 | | | |
| Slate | Red | Soft | 310 | 315 | | | |
| Lime | Dark | Hard | 315 | 325 | | | |
| Slate | Red | Soft | 325 | 415 | | | |
| Lime | Dark | Hard | 415 | 425 | | | |
| Slate | Red | Soft | 425 | 435 | | | |
| Sand | White | Hard | 435 | 438 | | | |
| Slate | Red | Soft | 438 | 439 | | | |
| Lime | Dark | Hard | 439 | 460 | | | |
| Slate | Red | Soft | 460 | 475 | | | |
| Sand | White | Soft | 475 | 625 | Water | 620' | 2 Sillers. |
| Slate | Dark | Soft | 625 | 640 | | | |
| Sand | White | Soft | 640 | 670 | | | |
| Slate | Dark | Soft | 670 | 680 | | | |
| Lime | " | Hard | 680 | 700 | | | |
| Slate | Red | Soft | 700 | 727 | | | |
| Lime | Dark | Hard | 727 | 730 | | | |
| Pgh. Coal | Black | Soft | 730 | 732 | | | |
| Lime | Dark | Hard | 732 | 772 | | | |
| Slate | " | Soft | 772 | 782 | | | |
| Lime | " | Hard | 782 | 810 | | | |
| Slate | " | Soft | 810 | 810 | | | |
| Lime | " | Hard | 810 | 820 | | | |
| Slate | Red | Soft | 820 | 900 | | | |
| Lime | Dark | Hard | 900 | 910 | | | |
| Slate | Red | Soft | 910 | 975 | | | |
| L. Dunkard | White | Hard | 975 | 1010 | | | |
| Slate | Red | Soft | 1010 | 1030 | | | |
| Lime | White | Hard | 1030 | 1040 | | | |
| Slate | Dark | Soft | 1060 | 1110 | | | |



| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|--|-------|--------------|------|--------|-------------------|-------------|-----------|
| Big Buckard | White | Hard | 1110 | 1150 | | | |
| Slate | Dark | Soft | 1150 | 1170 | | | |
| " | Red | " | 1170 | 1190 | | | |
| Gas Sand | White | " | 1190 | 1220 | | | |
| Slate | Black | " | 1220 | 1270 | | | |
| 1st. Salt Sand | White | " | 1270 | 1440 | Water | 1300' | 3 Shells. |
| Slate | Black | " | 1440 | 1490 | | | |
| 2nd. Salt Sand | White | Hard | 1490 | 1650 | | | |
| Shells | | | 1650 | 1700 | | | |
| 3rd. Salt Sand | White | Hard | 1700 | 1840 | Water | 1800' | 2 Shells. |
| Slate | Black | Soft | 1840 | 1890 | | | |
| Maroon Sand | White | Hard | 1890 | 1930 | | | |
| Slate | | | 1930 | 1965 | | | |
| Little Line | | | 1965 | 1981 | | | |
| Pencil Core | | | 1981 | 1990 | | | |
| Big Line | | | 1990 | 2074 | | | |
| Big Injan Sand | | | 2074 | 2177 | Gas | 2157-2160' | |
| Slate-Shells | Light | Soft | 2177 | 2260 | Oil | 2175-2177' | |
| Berea Grit | " | Hard | 2260 | 2275 | | | |
| Slate-Shells | " | " | 2275 | 2305 | | | |
| Coats Sand | " | Hard | 2305 | 2435 | | | |
| Slate-Shells | White | Soft | 2435 | 2510 | | | |
| 50 Ft. Sand | Light | Hard | 2510 | 2530 | | | |
| Slate-Shells | White | Soft | 2530 | 2600 | | | |
| Line | " | Hard | 2600 | 2605 | | | |
| Slate-Shells | " | Soft | 2605 | 2670 | | | |
| Line | " | Hard | 2670 | 2675 | | | |
| Slate-Shells | " | Soft | 2675 | 2707 | | | |
| Sand | Dark | Hard | 2707 | 2711 | | | |
| Slate | Light | Soft | 2711 | 2719 | | | |
| Garden Sand | " | Hard | 2719 | 2727 | | | |
| Slate/Shell | " | Soft | 2727 | 2733 | | | |
| Total Depth | | | | 2828 | | 2733' | |
| Hole filled up to 2150 feet present depth. | | | | | | | |

May 6th. 1942

Date _____, 194

PHILADELPHIA OIL COMPANY.

APPROVED _____, Own

By *J. B. [Signature]*
(Title)