

|                             |  |
|-----------------------------|--|
| Company                     | LEONARD HART                             |
| Address                     | 702 2 <sup>ND</sup> ST. ST. MARYS, W.VA. |
| Farm                        | J. C. COTTON 45-A                        |
| Tract                       | 1 Acres 45 Lease No. 12                  |
| Well (Farm) No.             | 15 Serial No. 4                          |
| Elevation (Spirit Level)    | 985                                      |
| Quadrangle                  | ST. MARYS                                |
| County                      | PLEASANTS District WASHINGTON            |
| Engineer                    | John W. Hamilton                         |
| Engineer's Registration No. | 3274                                     |
| File No.                    | Drawing No.                              |
| Date                        | MAY 1, 1961 Scale 1" = 20 P              |

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

WELL LOCATION MAP  
 FILE NO. PLEAS-895-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.

J.C. COTTON No. 15 (A) LEONARD HART PLEAS-895-A



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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle St. Marys

Permit No. 548A

WELL RECORD

Oil or Gas Well Oil  
(KIND)

Company Leonard Hart  
 Address 702 Second Street, St. Marys, W. Va.  
 Farm J. C. Cotton Acres 45  
 Location (waters) Long Run  
 Well No. 15 Elev. 985'  
 District Washington County Pleasants  
 The surface of tract is owned in fee by J.C.Cotton Heirs  
 Address \_\_\_\_\_  
 Mineral rights are owned by J.C.Cotton Heirs  
 Address \_\_\_\_\_  
 Drilling commenced \_\_\_\_\_  
 Drilling completed June, 1900  
 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 \_\_\_\_\_  
 WELL FRACTURED \_\_\_\_\_

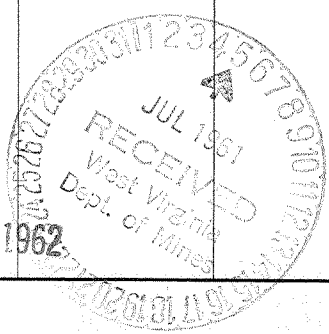
| Casing and Tubing | Used in Drilling | Left in Well | Packers              |
|-------------------|------------------|--------------|----------------------|
| Size              |                  |              | Kind of Packer _____ |
| 16.               |                  |              |                      |
| 13.               |                  |              |                      |
| 10.               |                  |              | Size of _____        |
| 8 1/4             |                  |              |                      |
| 6 1/4             | <u>760'</u>      |              | 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 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT \_\_\_\_\_  
 ROCK PRESSURE AFTER TREATMENT \_\_\_\_\_  
 Fresh Water \_\_\_\_\_ Feet Salt Water \_\_\_\_\_ Feet

| Formation          | Color | Hard or Soft | Top        | Bottom      | Oil, Gas or Water | Depth | Remarks |
|--------------------|-------|--------------|------------|-------------|-------------------|-------|---------|
| <u>Cow Run</u>     |       |              | <u>798</u> | <u>830</u>  |                   |       |         |
| <u>Total Depth</u> |       |              |            | <u>830'</u> |                   |       |         |

(over)



| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-----------|-------|--------------|-----|--------|-------------------|-------------|---------|
|           |       |              |     |        |                   |             |         |

Date June 30, 19 61

APPROVED LEONARD HART, Owner

By *Leonard Hart*  
(Title)