

COAL OWNED BY M. A. Hanna Coal Company

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

Issued 7-13-70
Redrilled for Storage

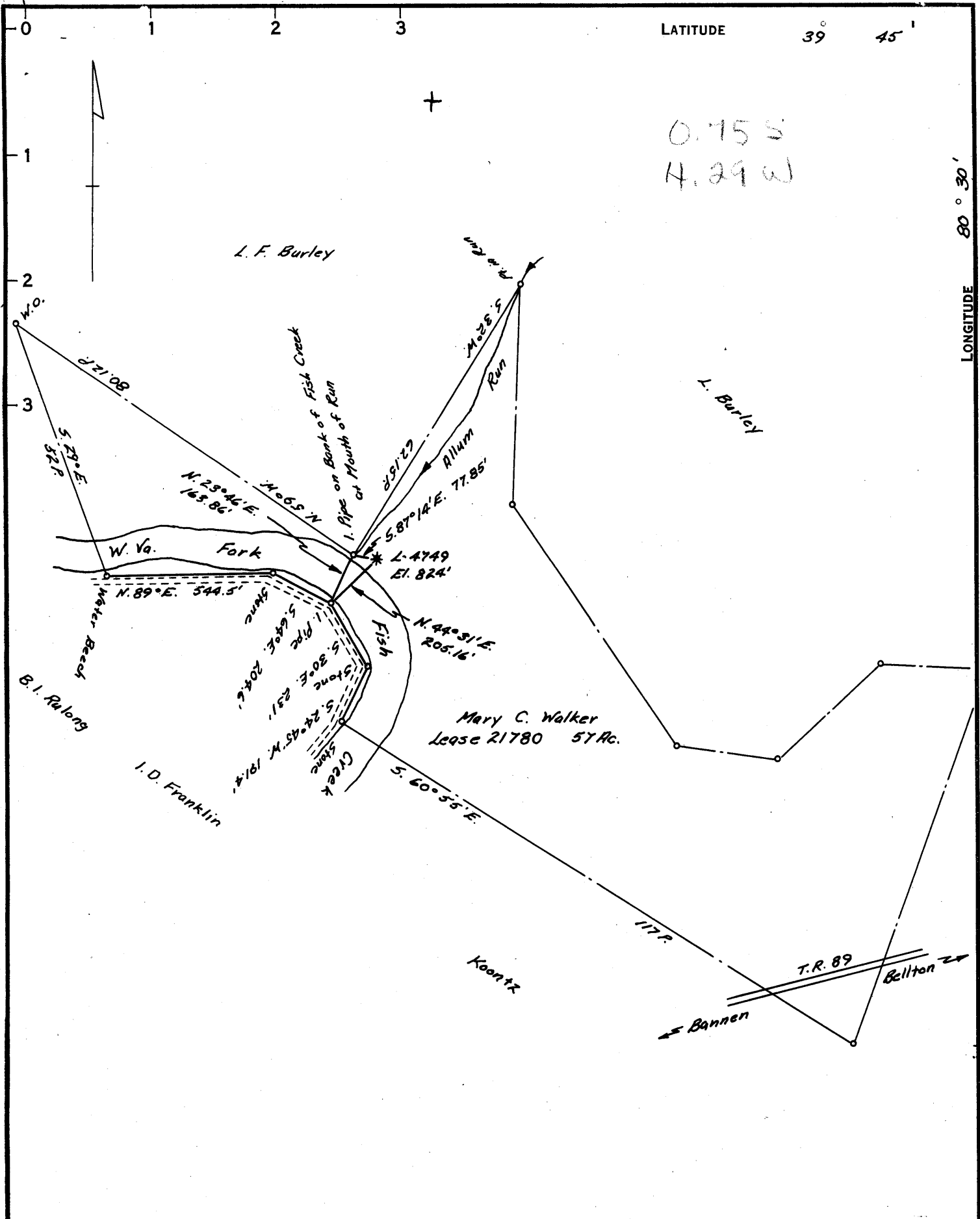
"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."
Minimum degree of accuracy is one part in 2500

Signed Robert M. Heill (JF)

COMPANY The Manufacturers Light And Heat Company
 ADDRESS 800 Union Trust Bldg. Pittsburgh, Pa.
 FARM Mary C. Walker
 MAP P-25/4 ACRES 57 LEASE NO. 21780
 WELL (FARM) NO. 1 SERIAL NO. L-4749
 ELEVATION (SPIRIT LEVEL) 824'
 QUADRANGLE Littleton 15' NC
 COUNTY Marshall DISTRICT Liberty
 POINT OF PROVEN ELEVATION U.S.G.S. B.M. U-125
 FILE NO. _____ DRAWING NO. Y-25-830
 DATE Oct. 9, 1963 SCALE 1"=400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. MARS-519-R-P
 + 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.

9-0 25 JUL 19 1970



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 ELEVATION (SPIRIT LEVEL) 824'
 QUADRANGLE Littleton 15' -NE
 COUNTY Marshall DISTRICT Liberty
 POINT OF PROVEN ELEVATION U.S.G.S. B.M. U-125

FILE NO. _____ DRAWING NO. Y-25-830
 DATE Oct. 9, 1963 SCALE 1"=400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP

FILE No. MARS-519-R

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Littleton

Permit No. WV-519-B

WELL RECORD

Oil or Gas Well Gas
(HWS)

Company The Manufacturers Light & Heat Company
Address 800 Union Trust Bldg., Pittsburgh, Pa. 15222
Farm Mary C. Walker Acres 57
Location (waters) _____
Well No. 4749 Elev. 824.0'
District Liberty County Marshall
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced April 27, 1964
Drilling completed July 7, 1964
Date Shot 7/7/64 From 1796' Big Injun To 2046'
With Orifice Gas Well Tester
Open Flow /10ths Water in 1/4 Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure 20 lbs. 24 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|----------------|
| Size | | | |
| 16 | | | Kind of Packer |
| 18 3/8 | 97' | 97' | |
| 10 3/4 | 816' | 816' | Size of |
| 8 5/8 | 1120' | 1120' | |
| 6 7/8 | 1785 | 1785 | Depth set |
| 5 3/16 | | | |
| 8 | | | Perf. top |
| 8 | | | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 650 FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|-----------------|-------|------------------|------|--------|-------------------|-------------|---------|
| | | <u>THICKNESS</u> | | | | | |
| Pittsburgh Coal | | 7' | 650 | 657 | | | |
| Big Dunkard | | 20' | 1140 | 1160 | | | |
| 2nd Salt Sand | | 27' | 1443 | 1470 | | | |
| Maxton Sand | | 42' | 1580 | 1622 | | | |
| Big Lime | | 36' | 1756 | 1792 | | | |
| Big Injun Sand | | | 1796 | 2046 | | | |
| TOTAL DEPTH | | | | 2046 | | | |

1756
824
-932