



COAL OWNED BY _____
 RECONDITION
 NEW LOCATION.....
 DRILL DEEPER.....
 ABANDONMENT.....

COMPANY THE MANUFACTURERS LIGHT & HEAT
 ADDRESS 800 UNION TRUST BLDG. PGH. PA.
 FARM RAY & FAY RIGGLE
 TRACT _____ ACRES 140 LEASE No. 19926
 WELL (FARM) No. 2 SERIAL No. 4529
 ELEVATION (SPIRIT LEVEL) 1306.37'
 QUADRANGLE CAMERON NE
 COUNTY MARSHALL DISTRICT WEBSTER
 ENGINEER H. Streater M.
 ENGINEER'S REGISTRATION No. 9442
 FILE No. _____ DRAWING No. Y-15-873
 DATE 19 DEC. 1958 SCALE 1" = 800'

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

WELL LOCATION MAP

File No. MARS-335-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 Commonwealth

WELL RECORD

Permit No. MARS-335-R

Oil or Gas Well Storage
(KIND)

Company The Manufacturers Light and Heat Company
Address 800 Union Trust Bldg., Pittsburgh 19, Pa.
Farm Ray and Fay Riggle Acres 140
Location (waters) _____
Well No. 4529 Elev. 1306.37' G. L.
District Webster County Marshall
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Ray and Fay Riggle
Address _____
R Drilling commenced January 30, 1959
R Drilling completed August 10, 1959
Date Shot _____ From _____ To _____
With _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
18 3/8"	57'10"	57'10"	
10 3/4"	762'	762'	Size of
8 5/8"	867'	1302'	Depth set
7"	1440'	1850'	
5 3/16"			Perf. top
3 1/2"	1999'8"	1999'8"	Perf. bottom
2"			Perf. top
Liners Used			Perf. bottom

Open Flow 64/10ths Water in 3 Inch
/10ths Merc. in _____ Inch
Volume 564,568 Cu. Ft.
Rock Pressure 633 lbs. 72 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 766 FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Thickness	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Schlumberger Gamma Ray Survey							
Pittsburgh Coal		6	766	772	Abandoned Well Redrilled for <u>Storage</u> on W.O. 1952-L-1886-5		
Sand		37	1226	1263	Elevation - 1306.37' (Ground Level)		
Sand		36	1325	1361	Depth Datum - derrick floor - same as original ground level.		
Gas Sand		54	1424	1478	13 3/8" (48#, H-40) Csg. Pt. - 57'10" Cement with 65 bags 2-4-59		
Sand		31	1579	1610	10 3/4" (32.75#, H-40) Csg. - 762'		
3rd Salt Sand		54	1681	1735	8 5/8" (24#, J-55) Csg. - 867' Screwed on and cemented with 10" Casing with 425 bags		
Maxton Sand		50	1767	1817	4-24-59. Bottom of original 8" - 1302' (orig. well record)		
Big Lime		19	1831	1850	7" (20#, J-55) Csg. - 1440' Screwed on and cemented with 125 bags 5-20-59		
Big Injun			1868		Bottom of original 7" - 1850' (Schlumberger 4 1/2" (12.6#, J-55) Tubing - 1990'8" Cemented with 250 bags 7-20-59		
C.O. to 1999'8" and cemented with 4" Tubing Cement drilled out inside tubing to 1980'							
TOTAL DEPTH 1980							
Pay zones determined from G.R.N. & M.L. logs, original well record, and correlation							
1940 - 1952	Perforated with 4 - 2 7/8" capsule jets/ft. 8-5-59						
Original shot hole below 1964'							
1968 - 1973	Not perforated (Possible Oil and water)						
8-6-59	Open flow - 564,568 cu. ft/day Well makes 2 gal. of fluid per min. (1 gal. oil & 1 gal. water)						

1831
1306
575

Storage