

COAL OWNED BY _____
 Partial Plug

NEW LOCATION.....

DRILL DEEPER.....

ABANDONMENT.....

TO BE DRILLED DEEPER UNDER PERMIT

COMPANY The Manufacturers Light & Heat Co.

ADDRESS 800 Union Trust Bldg. Pgh. Pa.

FARM Geo. M. Miller

TRACT _____ ACRES 90 LEASE NO. 2298

WELL (FARM) NO. 3 SERIAL NO. 2778

ELEVATION (SPIRIT LEVEL) 789'

QUADRANGLE Cameron SC

COUNTY Marshall DISTRICT Liberty

ENGINEER Thomas E. Virgin J.M.

ENGINEER'S REGISTRATION NO. 1503

FILE NO. _____ DRAWING NO. K-15-193

DATE 28 March 55 SCALE 1" = 800'

MARS-478-D
 STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES 7-16-62
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 478-D
 FILE NO. MARS-371A
 PARTIAL PLUG

+ 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



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Cameron

WELL RECORD

Permit No. MARS-478-D

STORAGE
Oil or Gas Well GAS
(KIND)

Company The Mfrs. Lt. and Ht. Co.
Address 800 Union Trust Bldg, Pittsburgh 19, Pa.
Farm G. M. Miller Acres 90

Location (waters) _____
Well No. 2778 Elev. 789'
District Liberty County Marshall

The surface of tract is owned in fee by _____
Address _____

Mineral rights are owned by _____
Address _____

Drilling commenced July 18, 1962
Drilling completed August 15, 1962

Date Shot 8/15/62 From Maxton To Big Injun
With Pitot Tube

Open Flow 10ths Water in _____ Inch
8 /10ths Merc. in 4-1/2 _____ Inch

Volume 1,720,000 _____ Cu. Ft.

Rock Pressure 710 _____ lbs. 24 _____ 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			
18			
10 3/4"	145'	145'	Size of
8x 5/8"	842'	994'	Depth set
8x 7"	1480'	1480'	
6 3/16			Perf. top
8x 4 1/2"	1616'	1616'	Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

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

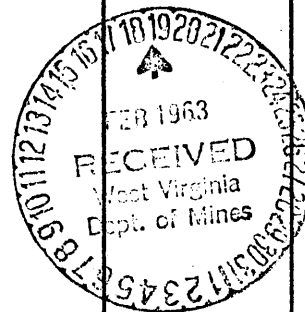
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Harder X Softer	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
✓ Maxton ✓ Lower Maxton ✓ Big Lime ✓ Big Injun	<i>Salt</i>	THICKNESS	1483 1543 1558 1600	1522 1554 1596 1775	Perforated Not Drilled Through	4-Shots per Foot	
Old 7" Left in Total Depth 4-1/2" Tubing Set at			1542	1583 1775 ✓ 1618			Drilled Deeper from 1523' to 1775' with Cable Tools. Using 12.4 PFG Mud. Run 1627' 4-1/2" Tubing, Sn.Gr. J 8-Rd. Set on Halliburton Formation Packer Show at 1618'. Cemented with 275 Sacks of Cement. Good Cement Return. Schlumberger Perforated 4-1/2" Tubing from 1483' to 1522' with 3-1/2" Carrier Jets 4-Shots per foot.

*1775
1522
252*





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

429

478

WELL RECORD

Permit No. MA 175 371-4-P

Oil or Gas Well STORAGE

Company <u>THE MANUFACTURERS LIGHT AND HEAT COMPANY</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>800 UNION TRUST BLDG., PGH., PENNA.</u>	Size			
Farm <u>Geo. M. Miller</u> Acres <u>90</u>	16			Kind of Packer
Location (waters)	13			
Well No. <u>2778</u> Elev. <u>789'</u>	10	<u>147</u>	<u>147</u>	Size of <u>8 1/2 x 4</u>
District <u>Liberty</u> County <u>Marshall</u>	8 1/4	<u>995</u>	<u>995</u>	Depth set <u>1172'</u>
The surface of tract is owned in fee by	6%	<u>1617</u>	<u>1617</u>	
Address	5 3/16			
Mineral rights are owned by	3			Perf. top
Address	2			Perf. bottom
Drilling commenced <u>October 7, 1922</u>	Liners Used			Perf. top
Drilling completed <u>November 7, 1922</u>				Perf. bottom
Date Shot From To				
With				
Open Flow /10ths Water in Inch				
/10ths Merc. in Inch				
Volume Cu. Ft.				
Rock Pressure <u>320</u> lbs. <u>5 Min.</u>				
Oil bbls., 1st 24 hrs.				
Fresh water feet				
Salt water feet				

CASING CEMENTED SIZE No. Ft. Date

COAL WAS ENCOUNTERED AT 200 FEET INCHES
380 FEET INCHES 480 FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Waynesburg Coal			200	205	1/2 bailer water per hr.		
Mapletown Coal			380	385			
Pittsburgh Coal			480	488	1/2 bailer water per hr.		
Murphy Sand			650	700			
Gas Sand			1160	1200			
1st Salt Sand			1280	1340			
2nd Salt Sand			1380	1387	Gas at 1387		
Total Depth			1387				
DRILLING DEEPER---COMMENCED IN SALT SAND AT A DEPTH OF 1387 1/2 ft.							
Commenced May 22, 1925, Completed June 22, 1925							
Second Salt Sand			1387 1/2	1430			
Maxon Sand			1480	1538	Gas at 1500		
Pencil Cave			1556	1559			
Big Lime			1559	1618			
Big Injun Sand			1618	1876	Gas 1618-1628 Gas 1725-1730		
Fifty Ft.			2416	2441	Gas 2418-2422 Steel Line Meas		
Gordon Sand			2478	2496			
Fourth Sand			2538	2546			
Slate Lime & Shells			2715	2880			
Total Depth			2915				
Openflow test 2 1/10 Water 2" opg.							

APR 1955
RECEIVED
WEST VIRGINIA
DEPT. OF MINES

AUG 12 1955

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

Date April 22, 1955

APPROVED ~~THE MANUFACTURERS LIGHT AND HEAT CO.~~ Owner

By *Rent Cooper*
LAND AGENT - (Title)