



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL RECORD

Quadrangle Sixteen  
Permit No. WV-375

Oil or Gas Well Gas  
(KIND)

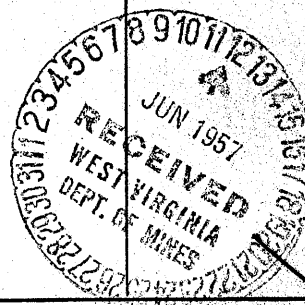
Company THE MANUFACTURERS LIGHT AND HEAT COMPANY  
Address 800 Union Trust Building, Pgh. Pa.  
Farm Joshau Yoho Acres 140  
Location (waters) \_\_\_\_\_  
Well No. E-21779 Elev. 1291'  
District Liberty County Marshall  
The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by \_\_\_\_\_  
Address \_\_\_\_\_  
Drilling commenced December 16, 1954  
Drilling completed May 17, 1957  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume \_\_\_\_\_ Cu. Ft.  
Rock Pressure 75 lbs. 48 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			
16			Kind of Packer
13			
10		372	Size of
8 1/4	1184	1603	
6 5/8 1 1/2"		2191	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

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
SCHLUMBERGER WELL SURVEY							
Pittsburgh Coal		1063	1072	9	All pipe measured over threads Run 372' of 10 3/4 Casing, SM. H40, 32# on a steel shoe. Not cemented. Run 1184' of 8 5/8" Casing, SM. J55 24# and connected to 419' of original casing with a steel die nipple. Cemented with 325 bags cement and 3 bags of Aquagel. Good return of cement at surface. Run 1619' of 7" Casing, 8rd. thd. Used 26# and 410' of 7" Casing,, S.M. J55, 20# on a steel shoe. Cemented with 300 bags cement and 4 bags Aquagel. No return of cement at surface. Ripped pipe at 1300' and cemented with 300 bags. Good return of cement at surface. Filled hole back from a total depth of 2571, to 2460' with 25 bags cement. Run 2191' of 4 1/2" tubing SM. J55, 12# on a steel shoe set at 2173' Cemented with 215 bags cement and 4 bags Aquabel. No return of cement. Completed filling to surface with 42 bags cement pumped in through 300' of 1/2" pipe. Used Six 6 5/8" x 4" Centralizers spaced at 2143-2050-1900-1500-1150 and 500 ft. Washed sand down with 50 gallons of Mud Acid.		
Maxon Sand		2091	2100	9			
Big Lime		2170					
Big Injun Sand		2225	2471	246			
Total depth			2460				
4" Shoe set at			2173				

Reconditioned for storage on Work Order No. 1551-L-806-4



Liberty District, Marshall County, W. Va.

By The Manufacturers Light & Heat Co., 800 Union Trust Bldg.,  
Pittsburgh, Pa.

Redrilled under permit Mars-275-R; Littleton Quadrangle.  
On 140 acres.

Elevation, 1381' L.

Drilling commenced Dec. 16, 1954; completed May 17, 1957.

Rock pressure, 75 lbs. in 48 hrs.

10" casing, 372'; 8 $\frac{1}{2}$ " casing, 1184' (1603'); 4" tubing, 2191'.

All pipe measured over threads. Ran 372' of 10 $\frac{3}{4}$ " casing, SM, H40,32#, on a steel shoe. Not cemented. Ran 1184' of 8 $\frac{5}{8}$ " casing, SM.J-55 24# and connected to 419' of original casing with a steel die nipple. Cemented with 325 bags cement and 3 bags of Aquagel. Good return of cement at surface. Ran 1619' of 7" casing, 8rd.thd. Used 26# and 410' of 7" casing, S.M.H-55,20#. on a steel shoe. Cemented with 300 bags cement and 4 bags Aquagel. No return of cement at surface. Ripped pipe at 1300' and cemented with 300 bags. Good return of cement at surface. Filled hole back from a total depth of 2571' to 2460', with 25 bags cement. Ran 2191' of 4 $\frac{1}{2}$ " tubing, SM.J55, 12#, on a steel shoe set at 2173'. Cemented with 215 bags cement and 4 bags Aquagel. No return of cement. Completed filling to surface with 42 bags cement pumped in through 300' of  $\frac{1}{2}$ " pipe. Used six 6 $\frac{5}{8}$ " x 4" Centralizers spaced at 2143-2050-1900-1500-1150 and 500 feet. Washed sand down with 50 gallons of mud acid.

Reconditioned for storage on Werk Order No. 1551-L-806-4#.

Storage well. Record to Dept. of Mines stamped June 12, 1957.

Record from Allen June 24, 1957.

Top. Bottom.

Schlumberger well survey:	
✓Pittsburgh Coal	1063 - 1072
✓Maxton Sand	2091 - 2100
✓Big Lime	2170 - ....
✓Big Injun Sand	2225 - 2471
Total depth	2460
4" shoe set at	2173

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