



BERTHA COAL CO OWNS COAL
COAL NOT OPERATED

FRACTURE 8-29-69

New Location:
 Drill Deeper:
 Abandonment:

Company THE MANUFACTURERS LIGHT AND HEAT CO.

Address 800 UNION TRUST BLDG PITTSBURGH, PA.

Farm RACHEL AND BEATRICE YEATER

Tract Acres 40 Lease No. 18340

Well (Farm) No. 1 Serial No. L-3626

Elevation (Spirit Level) 1418'

Quadrangle LITTLETON N.E. NC

County MARSHALL District LIBERTY

Engineer Ronald H. Bell

Engineer's Registration No.

File No. Drawing No. Y-10-370

Date OCTOBER 27 1941 Scale 1" = 20 RODS

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP

File No. MARS-124-B-FRAC

+ 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.

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. 124		Gas Well
Company	The Manufacturers Lt.&Heat Co.	Casing & Tubing
Address	800 Union Trust Bld.,Pittsburgh,Pa	10 312'1" 312'1"
Farm	Beatrice Yeater Acres 40	8½ 1599'8" 1599'8"
Location	--	4 2008' 2008'
Well No.	1-3626 Elev. 1418'	
District	<u>Liberty</u> <u>Marshall County</u>	<u>Packer</u>
Surface	Beatrice Yeater, New Martinsville, W.Va.	Anchor Packer
Mineral	The Mfrs. Lt.&Heat Co.,800 Union Trust Co. Pittsburgh, Pa.	size-8½x4" Depth-1986'6"
Commenced	12-3-41	
Completed	12-30-41	Coal--746'--36"
Shot	1-22-42 Depth 1997-2000	" --810'--36"
Flow	30/10ths W in 2½"	" --877'--36"
Volume	268,000 C F.	" --947'--36"
Rock Pressure	Max. 204 lbs. 18 hrs.	" - 1090'--48"
		" - 1194'--84"

Clay	0	10
Sand	10	30
Slate	30	60
Sand	60	75
Slate, Sand	75	100
Rock, Slate & Lime	100	330
Lime & Slate	330	430
Rock, Lime & Slate	430	655
Sand	655	700
Slate & Lime	700	746
✓Coal	746	749
Lime & Slate	749	810
✓Coal	810	813
Slate	813	845
Sand	845	877
✓Coal	877	880
Slate & Lime	880	947
✓Waynesburg Coal	947	950
Lime	950	1090
✓Mapletown Coal	1090	1094
Lime	1094	1194
✓Pitts. Coal	1194	1201
Sl. & Lime & Rock	1201	1350
Slate & Lime	1350	1472
Slate, Lime & Rock	1472	1535
✓Little Dunkard	1535	1555 Sh of gas
Slate & Lime	1555	1591
Rock, Slate & Lime	1591	1609
✓Big Dunkard Sand	1609	1645
Slate, Shells, Lime	1645	1765
✓Coal	1765	1770
Lime, Slate, Shells	1770	1818
✓Gas Sand	1818	1872
Slate, Lime, Shells	1872	1983
✓Salt Sand	1983	2000 Gas 1997-2000
TOTAL DEPTH		2000



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Littletown

WELL RECORD

Permit No. MARS-124-D

Oil or Gas Well Stor
(KIND)

Company THE MANUFACTURERS LIGHT & HEAT CO.
Address 800 UNION TRUST BUILDING, PGH., PENNA.
Farm Beatrice Yeater Acres 40
Location (waters) _____
Well No. 3626 Elev. 1418'
District Liberty County Marshall
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced January 13, 1955
Drilling completed April 13, 1955
Date Shot _____ From _____ To _____
With _____
Open Flow 10/10ths Water in 1" Inch
_____ /10ths Merc. in _____ Inch
Volume 24,789 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		312'	Size of _____
8 1/4		1601	
7		2405	Depth set _____
5 3/16			
8			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

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

COAL WAS ENCOUNTERED AT 877 FEET _____ INCHES
947 FEET _____ INCHES 1090 FEET _____ INCHES
1194 FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Native Coal			877	880			
Waynesburg Coal			947	950			
Mapletown Coal			1090	1094			
Pittsburgh Coal			1194	1201			
Drilled down from				2000			
Sand, slate, lime, & shale			2000	2313			
Pencil cave			2313	2325	2325		
Big Lime			2325	2386	2386		
Big Injun sand			2386	2636	2636		
Total Depth			2636				
Gas at			2470	2475			





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OIL & GAS
DEPT. OF MINES

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

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Littleton N. E.
Permit No. MARS-124-D-^WFree

WELL RECORD

Oil or Gas Well Gas (KIND)

Company Columbia Gas Transmission Corp.
Address 800 Union Trust Bldg., Pgh., Pa.
Farm Beatrice Yeater Acres 2.0
Location (waters) _____
Well No. L-3626 Elev. 1418'
District Liberty County Marshall
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Reconditioning 6-19-69
Reconditioning 9-22-69
Date Shot _____ From _____ To _____
With Before fracturing
Open Flow 24 /10ths Water in 4" pitot _____ Inch
/10ths Merc. in _____ Inch
Volume 809 MCF/day _____ Cu. Ft.
Rock Pressure 625 lbs. 8 days _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			Size of
10 3/4"	original	312	Depth set
8 5/8"	1392	1601	
7"	2386	2386	
5 3/16			
4 1/2			
3			Perf. top 2463' ^{Big Injun}
2			Perf. bottom 2472'
Liners Used 4-1/2"	340	340	Perf. top _____
			Perf. bottom _____

Attach copy of cementing record.
CASING CEMENTED _____ SIZE See below No. Ft. _____ Date _____
Amount of cement used (bags) See below
Name of Service Co. See below
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED (DETAILS) Treatment--25,000#sand; 20,400 gal. water; 1,000 gal. penetrating acid;
Max. Press--2,650; Aug. Press--2,508 psig; Injection Rate--31.3 bbls/min.
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 3,110 MCF/day
ROCK PRESSURE AFTER TREATMENT 720 psig HOURS 72 hrs.
Fresh Water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Big Injun Depth 2463-2472

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Pittsburgh Coal			1194	1201			
drilled down from		2000'					
Sand, slate, lime & shale			2000	2313			
Pencil cane			2313	2325			
Big Lime			2325	2386			
Big Injun Sand			2386	2638	Gas	2470-75	
Total Depth				2638			
Above is record of well after being drilled deeper 4/13/55 per Permit No. MARS-124-D. Liner was installed from 2293' to 2633', perforated and fractured on 9/10/69.					10-3/4" Not cemented 8-5/8" (new) 1392' connected to 209' of original 8" and cemented with 350 sks. 7" cemented with 250 sks. Work done by Well Service, Inc., in year 1955. 4-1/2" liner cemented by Halliburton 7-17-69 with 70 sks. Latex Cement.		