BERTHA COAL CO OWNS COAL
COAL NOT OPERATED

New Location: X
Drill Deeper: □
Abandonment: □

Company: THE MANUFACTURERS LIGHT AND HEAT CO.
Address: 800 UNION TRUST BLDG, PITTSBURGH, PA.
Farm: RACHEL AND BEATRICE YEATER
Tract: 40 Acres
Well (Farm) No.: 1
Lease No.: 18340
Serial No.: L-3626
Elevation (Spirit Level): 1418'

Quadrangle: LITTLETON N.E.
County: MARSHALL
District: LIBERTY
Engineer: Donald H. Hall
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

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.
Permit No. 124
Company: The Manufacturers Lt&Heat Co.
Address: 800 Union Trust Bldg., Pittsburgh, Pa.
Farm: Beatrice Yostar
Location: Across 40
Well No.: 1-3626
District: Liberty, Marshall County
Surface: Beatrice Yostar, New Martinsville, W.Va.
Commenced: 12-3-41
Completed: 12-30-41
Flow: 30/10ths W in 2½"
Volume: 294,900 C.F.
Rock Pressure: Max. 204 lbs. 18 hrs.

Clay: 0
Sand: 10
Slate: 30
Lime: 60
Slate, Sand: 75
Rock, Slate & Lime: 100
Lime & Slate: 330
Rock, Lime & Slate: 430
Sand: 655
Slate & Lime: 700
Coal: 746
Lime & slate: 749
Coal: 810
Slate: 813
Sand: 845
Coal: 877
Slate & Lime: 940
Mayesburg Coal: 947
Lime: 950
Mapletown Coal: 1090
Lime: 1094
Pitts. Coal: 1194
Slate & Lime & Rock: 1201
Slate & Lime: 1350
Slate, Lime & Rock: 1472
Little Dunkard: 1535
Sh of gas
Slate & Lime: 1555
Rock, Slate & Lime: 1591
Big Dunkard Sand: 1609
Slates, Shells, Limes: 1645
Coal: 1765
Lime, Slate, Shells: 1770
Gas Sand: 1828
Slates, Limes, Shells: 1963
Silt Sand: 1983
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

<table>
<thead>
<tr>
<th>Company</th>
<th>THE MANUFACTURERS LIGHT &amp; HEAT CO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>800 UNION TRUST BUILDING, P.O., PENNA.</td>
</tr>
<tr>
<td>Farm</td>
<td>Beatrice Yeater</td>
</tr>
<tr>
<td>Acres</td>
<td>40</td>
</tr>
</tbody>
</table>

| Location (waters) | | |
|-------------------|---|
| Well No | 3636 |
| Elev. | 1418' |

<table>
<thead>
<tr>
<th>District</th>
<th>Liberty</th>
</tr>
</thead>
<tbody>
<tr>
<td>County</td>
<td>Marshall</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>The surface of tract is owned in fee by</th>
<th>Address</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Mineral rights are owned by</th>
<th>Address</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Drilling commenced</th>
<th>January 13, 1955</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilling completed</td>
<td>April 13, 1955</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date Shot</th>
<th>From</th>
<th>To</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>With</th>
<th>Open Flow 1/10ths Water in. 1&quot; Inch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Volume 1/10ths Merc. in. Inch</td>
</tr>
<tr>
<td></td>
<td>Rock Pressure 75 lbs. 48 hrs.</td>
</tr>
<tr>
<td></td>
<td>Oil 75 bbls., 1st 24 hrs.</td>
</tr>
<tr>
<td></td>
<td>Fresh water feet</td>
</tr>
<tr>
<td></td>
<td>Salt water feet</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Casing and Tubing</th>
<th>Used in Drilling</th>
<th>Left in Well</th>
<th>Packers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 18&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Size 10&quot;</td>
<td>312'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Size 8 1/4&quot;</td>
<td>1601</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Size 8 1/2&quot;</td>
<td>2405</td>
<td>Depth set</td>
<td></td>
</tr>
<tr>
<td>Size 8</td>
<td>2484</td>
<td>Perf. top</td>
<td></td>
</tr>
<tr>
<td>Size 2</td>
<td>2484</td>
<td>Perf. bottom</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Liners Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perf. top</td>
</tr>
<tr>
<td>Perf. bottom</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>CASING CEMENTED</th>
<th>SIZE</th>
<th>No. Ft.</th>
<th>Date</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>COAL WAS ENCOUNTERED AT</th>
<th>877 FEET</th>
<th>INCHES</th>
</tr>
</thead>
<tbody>
<tr>
<td>947 FEET</td>
<td>INCHES</td>
<td>1050 FEET</td>
</tr>
<tr>
<td>1194 FEET</td>
<td>INCHES</td>
<td>2475</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Formation</th>
<th>Color</th>
<th>Hard or Soft</th>
<th>Top</th>
<th>Bottom</th>
<th>Oil, Gas or Water</th>
<th>Depth Found</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nextvice Coal</td>
<td></td>
<td></td>
<td>877</td>
<td>880</td>
<td></td>
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<tr>
<td>Wayneburg Coal</td>
<td></td>
<td></td>
<td>947</td>
<td>950</td>
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<tr>
<td>Mapleton Coal</td>
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<td></td>
<td>1090</td>
<td>1090</td>
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<tr>
<td>Pittsburgh Coal</td>
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<td></td>
<td>1194</td>
<td>1200</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Drilled down from</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand, slate, lime, &amp; shale</td>
<td></td>
<td></td>
<td>2000</td>
<td>2313</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pencil cave</td>
<td></td>
<td></td>
<td>2313</td>
<td>2325</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Big Lime</td>
<td></td>
<td></td>
<td>2325</td>
<td>2386</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Big Injun sand</td>
<td></td>
<td></td>
<td>2396</td>
<td>2636</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Depth</td>
<td></td>
<td></td>
<td>2536</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas at</td>
<td></td>
<td></td>
<td>2470</td>
<td>2475</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Over)
OIL & GAS
OILS & G.A.S. WELLS DIVISION

DEPARTMENT OF MINES
STATE OF WEST VIRGINIA

WELL RECORD

Company: Columbia Gas Transmission Co.
Address: 800 Union Trust Bldg., Pgh., Pa.
Frm.: Beatrice Yeater
Acres: 20
Location (water): Well No. L-3626
Elev.: 4418'
District: Liberty
County: Marshall
The surface of tract is owned in fee by:
Mineral rights are owned by:

WELL FRACTURED

Date Shot: From: 6-19-69
To: 9-22-69
With Before fracturing
Open Flow 24'/10th's Water in 4' pitot Inch
809 MCF/day Cu. Ft.
Rock Pressure 625 lbs. 8 days hrs.
Oil

WELL ACIDIZED

OPENED (DETAILS)

WELL FRACTURED (DETAILS) Treatment-=25,000#sand; 20,600 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.

Producing Sand Small Injun

Formations
Pittsburgh Coal drilled down from 2000'
Sand, slate, lime & shale
Pencil cane
Big Lime
Big Injun Sand

Color
Hard or Soft
Top
1194
2000
2313
2325
2386
1201
2313
2325
2386
2638

Oil, Gas or Water
Depth
Remarks
Gas
2470-75
10-3/4" Not cemented
8-5/8" (new) 1392' connected to 209'
of original 8" and cemented with 350 sgs.
7" cemented with 250 sgs.
Work done by Well Service Inc., in year 1955.
4-1/2" Liner cemented by Halliburton 7-17/69 with 70 sgs. Latex Cement.

(over)