Subjects: Coal, Synthetic Fuels, Feasibility
Synthetic Fuels, from Coal, Feasibility

References:


Data:

1. The Consol process can produce gasoline from coal. Projected plant capacity: Location eastern United States - 20,522 tons per day of coal (@ $3.75 per ton or 15 cents per million Btu) to produce 48,026 barrels per day of gasoline, half 100 octane, half 93 octane. Plant cost $244.5 million excluding land, catalysts, royalties and working capital. At a profit (after taxes) of 6.4% of investment, the selling price of gasoline would have to be 15.5 cents per gallon at the plant. Average selling price of unbranded gasoline in the area of the plant was between 13 and 14 cents per gallon net to the refiner. At this price the economic feasibility of the project continues to be marginal.

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2. Synthetic crude from coal would be produced at the following prices (which include net profits of 6.4% return on investment).

<table>
<thead>
<tr>
<th>PLANT LOCATION</th>
<th>COAL REQUIREMENT</th>
<th>&quot;PRICE&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern United States</td>
<td>20,000 tons per day</td>
<td>$5.14 per barrel</td>
</tr>
<tr>
<td>Western United States</td>
<td>103,800 tons per day</td>
<td>$3.25 per barrel</td>
</tr>
</tbody>
</table>

At these prices the economic feasibility of the project continues to be marginal.


4. Projects a selling price as low as 38 cents per million BTU for pipeline gas made from lignite using the CO2 Acceptor process. The projected price varies from 38 to 43 cents depending on plant location and cost of lignite at a specific site.

Please send any additional references on this subject or other minerals subjects to DSC (D-310). If the complete article or publication is needed, DSC (D-310) will attempt to obtain a copy or a loan for you.