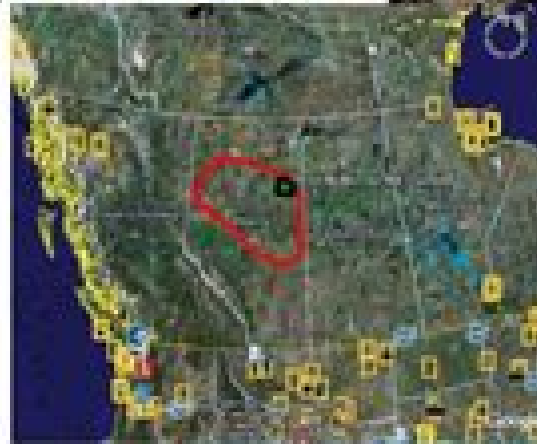


2. *Oil Sands & Oil Shale*

- Oil sand (tar sand) mixture of clay, sand, water, and bitumen- thick, sticky, heavy oil with high sulfur content
- Dug up with giant electric shovels, mixed with hot water & steam to extract bitumen, sent to refinery
- Large areas in Canada has $\frac{3}{4}$ of world's oil sand reserves
- Now Canada comes in 2nd behind Saudi Arabia for oil reserves



Shale Oil Tar Sands And Related Fuel Sources

**United States. Energy Research and
Development Administration. Office of
the Assistant Administrator for Fossil
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Oil Shales and Tar Sands United States. Department of Energy, 1977 **Shale Oil, Tar Sands, and Related Fuel Sources : a Symposium** t. f Yen, 1976 **Fossil Energy Program Report** United States. Energy Research and Development Administration. Office of the Assistant Administrator for Fossil Energy, 1977 *Shale Oil, Tar Sands, and Related Fuel Sources* Teh Fu Yen, American Chemical Society. Division of Fuel Chemistry, American Chemical Society. Division of Petroleum Chemistry, 1976 **Energy: a Continuing Bibliography with Indexes**, 1977 **Inventory of Federal Energy-related Environment and Safety Research for FY 1978**, 1979 *Inventory of Federal Energy-related Environment and Safety Research for FY 1978: Project listings and indexes*, 1979 **Handbook of Industrial Hydrocarbon Processes** James G. Speight, 2010-12-24 Written by an author with over 38 years of experience in the chemical and petrochemical process industry this handbook will present an analysis of the process steps used to produce industrial hydrocarbons from various raw materials It is the first book to offer a thorough analysis of external factors effecting production such as cost availability and environmental legislation An A Z list of raw materials and their properties are presented along with a commentary regarding their cost and availability Specific processing operations described in the book include distillation thermal cracking and coking catalytic methods hydroprocesses thermal and catalytic reforming isomerization alkylation processes polymerization processes solvent processes water removal fractionation and acid gas removal Flow diagrams and descriptions of more than 250 leading edge process technologies An analysis of chemical reactions and process steps that are required to produce chemicals from various raw materials Properties availability and environmental impact of various raw materials used in hydrocarbon processing *A Bibliography of Publications Dealing with Oil Shale and Shale Oil from U.S. Bureau of Mines, 1917-1974, and the ERDA Laramie Energy Research Center, 1975-1976* Marianne P. Rogers, Laramie Energy Research Center, 1977 *EPA-600/7*, 1979 Inventory of Federal Energy-related Environment and Safety Research for ..., 1979 **Handbook of Chemical Technology and Pollution Control** Martin B. B. Hocking, 2013-10-22 Handbook of Chemical Technology and Pollution Control integrates industrial chemistry with pollution control and environmental chemistry This unified approach provides practicing professionals and consultants with a concise yet authoritative handbook covering the Key Features relative importance and environmental impact of currently operating chemical processes It also meets the critical needs of students training for industrial careers Handbook of Chemical Technology and Pollution Control considers community municipal power generation industrial and transportation components of environmental impact The book covers the major inorganic and organic commodity chemicals aluminum iron and steel and copper prodution pulp and paper fermentation petroleum production and refining It also includes key topics and process details for major peterochemicals and large scale consumer and engineering polymers This single convenient volume describes aspects of recycling at the industrial and post consumer levels and emphasizes a

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