## Contents

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Introduction and Background</td>
<td>1</td>
</tr>
<tr>
<td>2. An Initial Attempt at Oil Shale Leasing (1963-68)</td>
<td>9</td>
</tr>
<tr>
<td>3. Evolution of the Prototype Program</td>
<td>29</td>
</tr>
<tr>
<td>4. The Changing Scene Between 1974 and 1979</td>
<td>41</td>
</tr>
<tr>
<td>5. Key Issues in the Prototype Program</td>
<td>65</td>
</tr>
</tbody>
</table>
6. Outlook ................................................................. 77
   Objectives of the 1973 Program .................................. 77
   New Initiatives ..................................................... 79
   Chapter preferences .............................................. 81

List of Tables

Table No. Page
1. Lease Tracts Offered Under the Prototype Oil Shale Leasing Program .......... 37
2. Cost Estimates for Oil Shale Processing Plants ...................................... 41
3. Mining Claims in the Tristate Oil Shale Region, 1968 ............................... 69
4. Nature of Claims on Oil Shale Lands With Commercial Potential, 1968 ........ 70

List of Figures

Figure No. Page
1. Status of Oil Shale Technologies in 1968 ........................................ 31
2. U.S. Petroleum Supplies as Projected in 1971 ................................. 33
3. Cost Trends for Domestic and Imported Petroleum .......................... 34
4. Locations of the Tracts Offered for Lease Under the Prototype Program .... 35
5. Engineering Cost Estimates for 50,000-bbl/d shale Oil Syncrude Plants ....... 42
6. Open-Pit Mining Concept Featuring Off-tract Waste Disposal ............ 43
7. Original Development Plan for Colorado Tract C-a .......................... 43
8. A Multiple-Level Room-and-Pillar Oil Shale Mine .......................... 47

List of Acronyms

BLM — Bureau of Land Management
DDP — detailed development plan
DOE — Department of Energy
DOI — Department of the Interior
EIS — environmental impact statement
EPA — Environmental Protection Agency
ERDA — Energy Research and Development Administration
FLPMA — Federal Land Policy and Management Act
MIS — modified in situ
NAAQS — National Ambient Air Quality Standards
NEPA — National Environmental Policy Act
PSD — prevention of significant deterioration
Tosco — The Oil Shale Corporation [now Tosco, Corp.]
USBM — U.S. Bureau of Mines