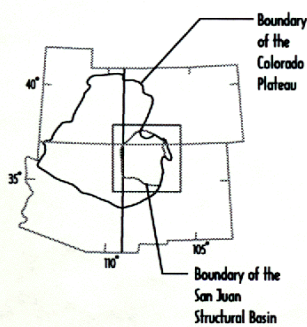
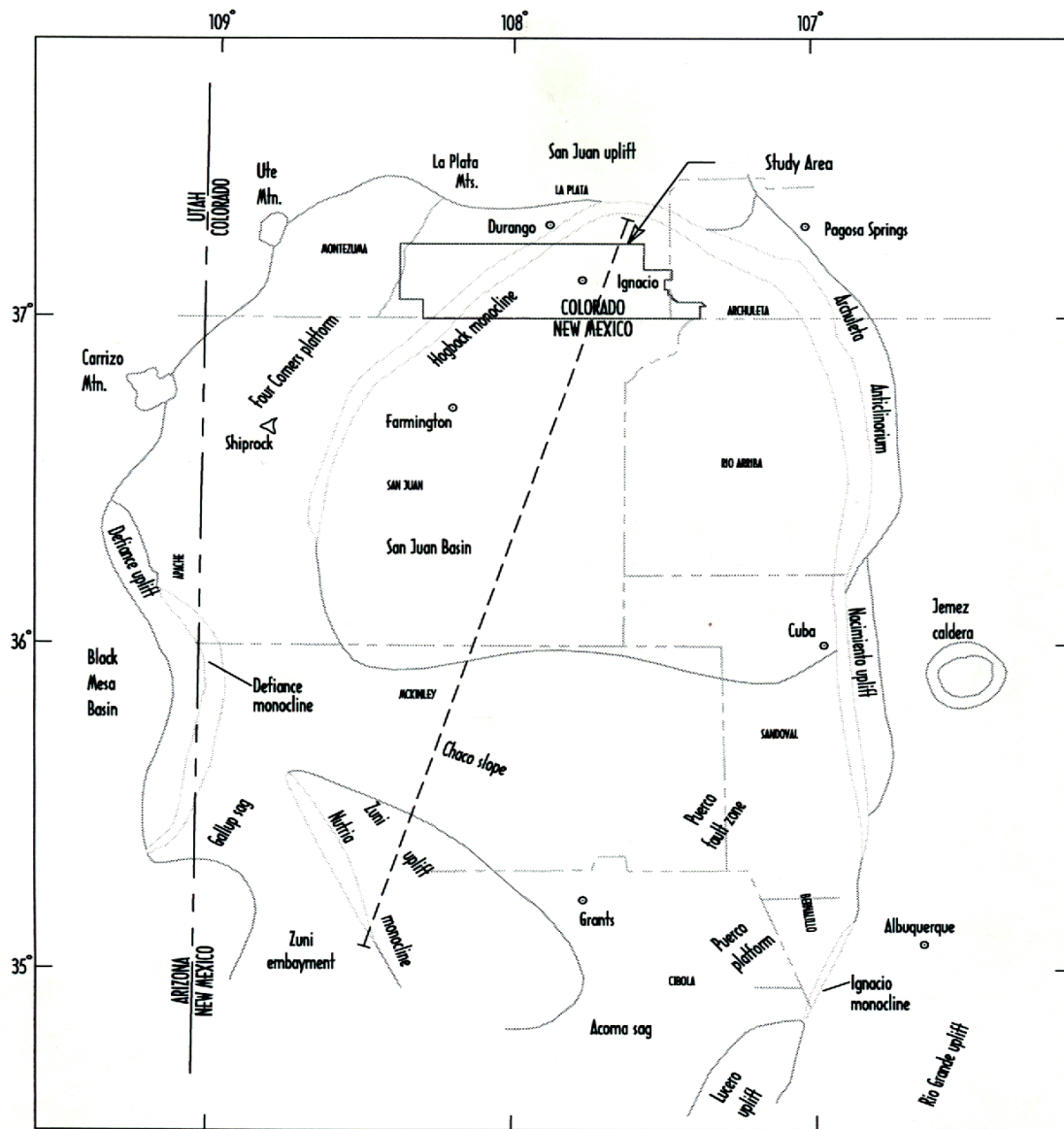


LOCATION MAP

Figure 1-1



— — — Approximate location of the
"cross-section" in Figure 3-3.

STRUCTURAL ELEMENTS OF THE SAN JUAN STRUCTURAL BASIN AND ADJACENT AREAS

Figure 2-1

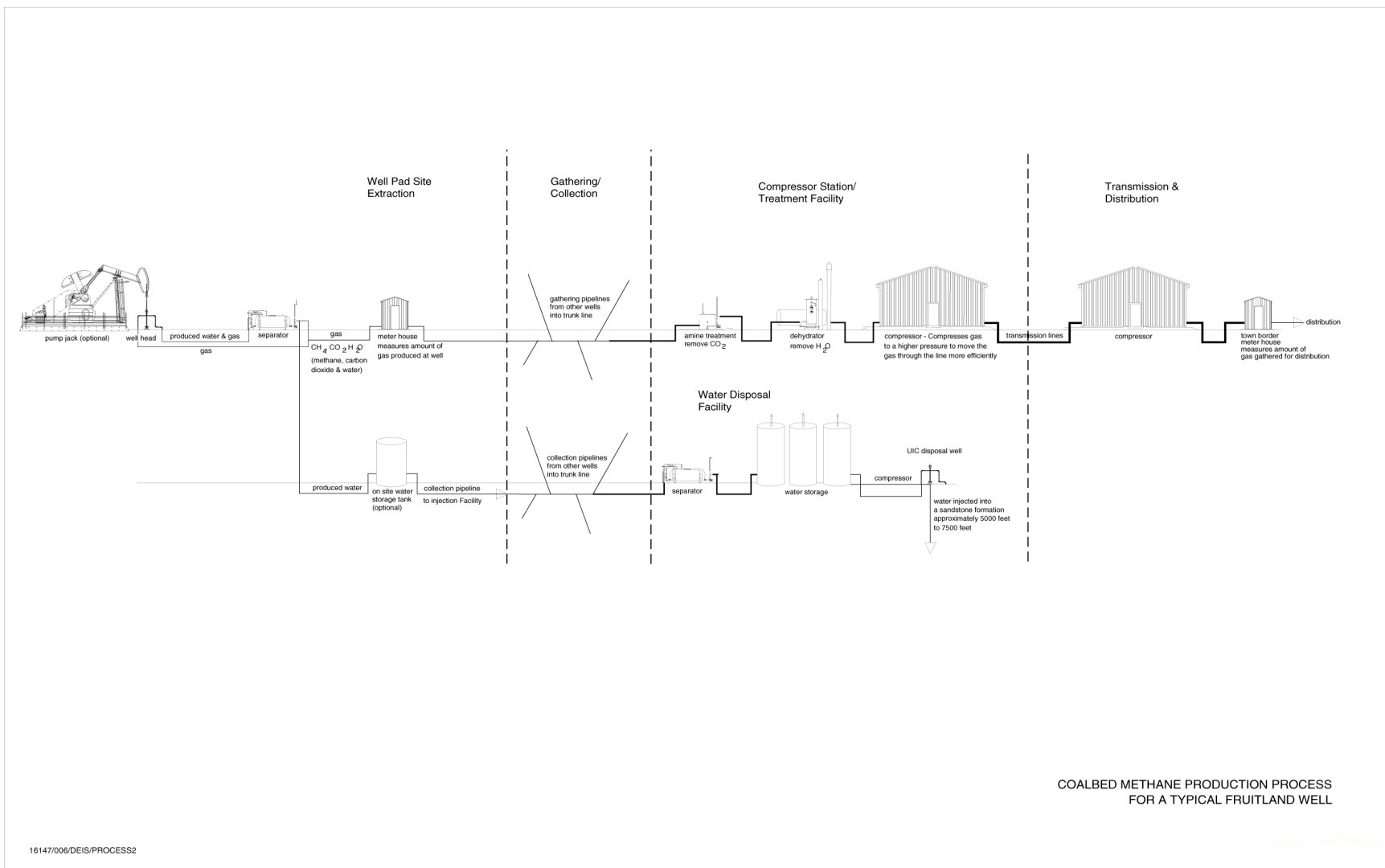
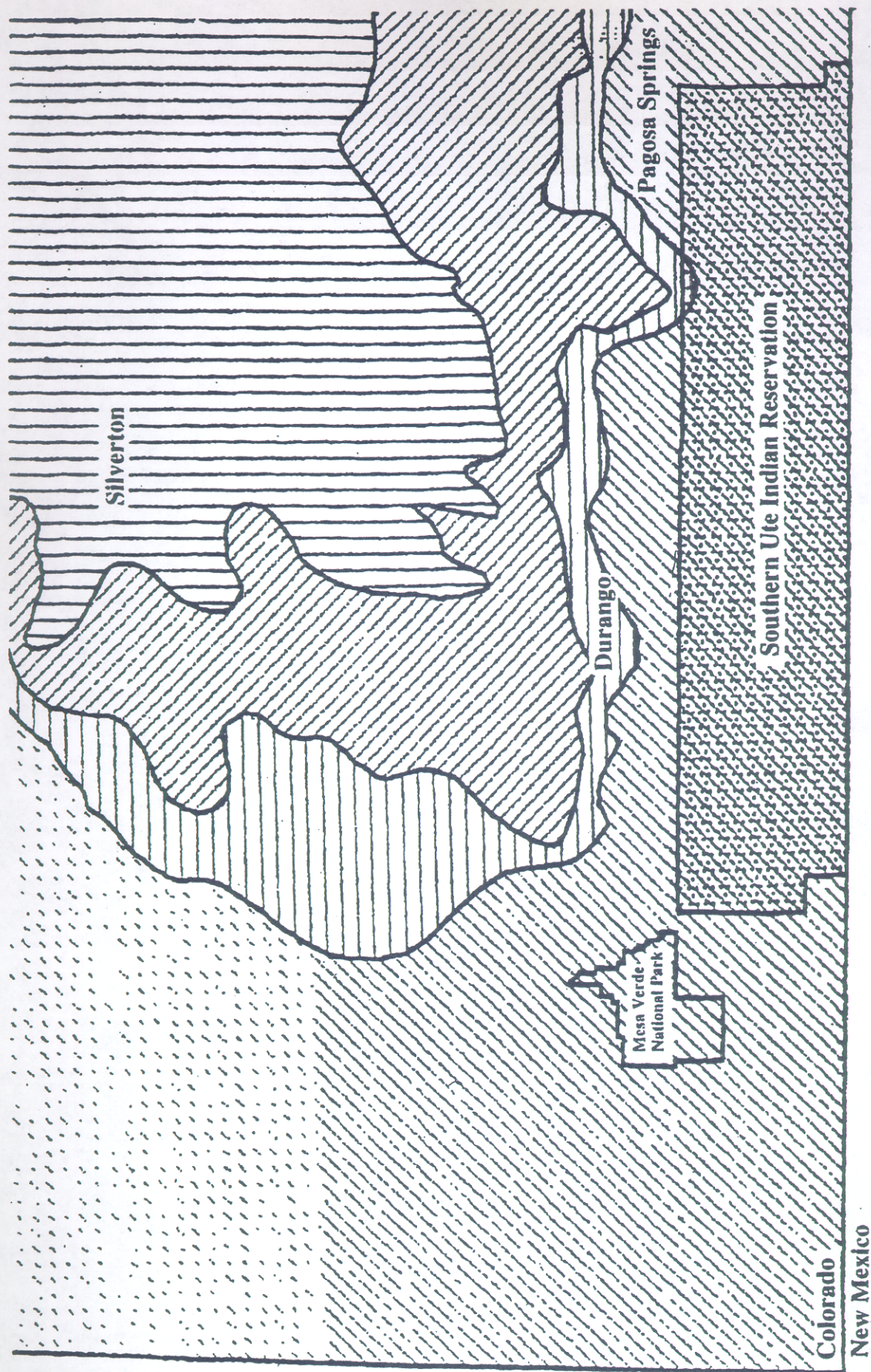


Figure 2-10



OIL AND GAS POTENTIAL

Figure 2-2.

Figure 2-3
IGNACIO BLANCO FIELD
ALL ACREAGE

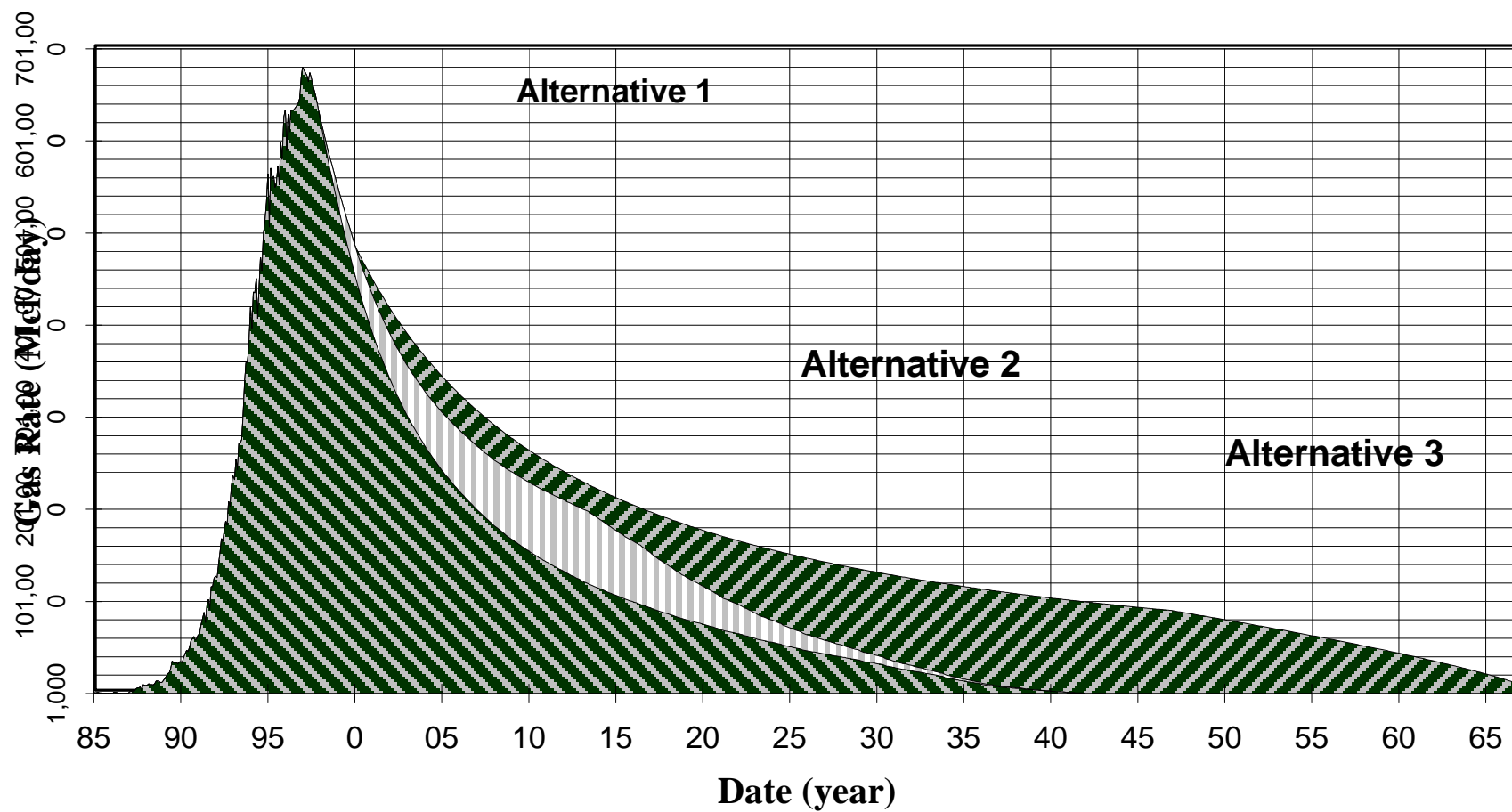


Figure 2-4
IGNACIO BLANCO FIELD
TRIBAL ACREAGE

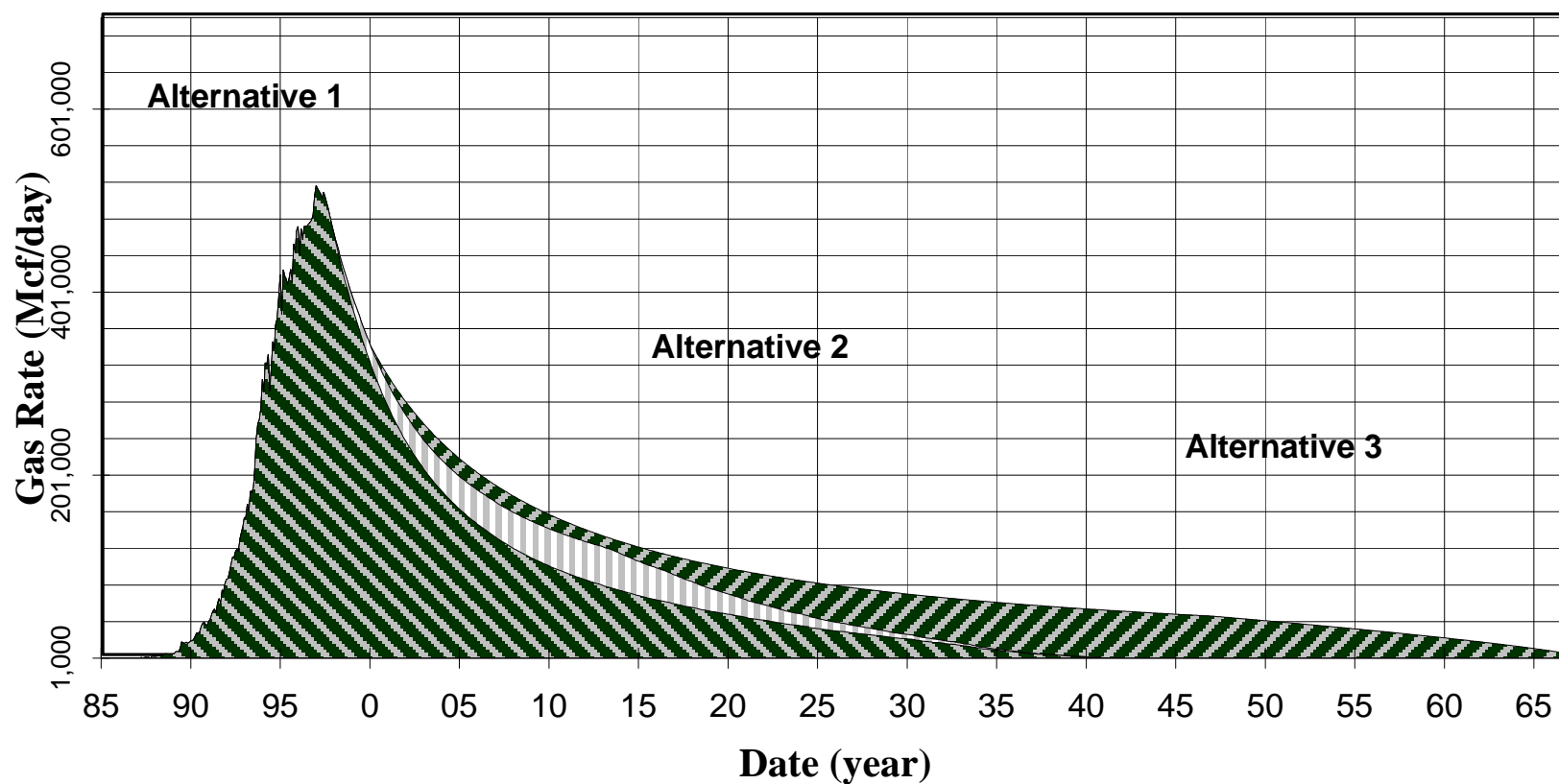
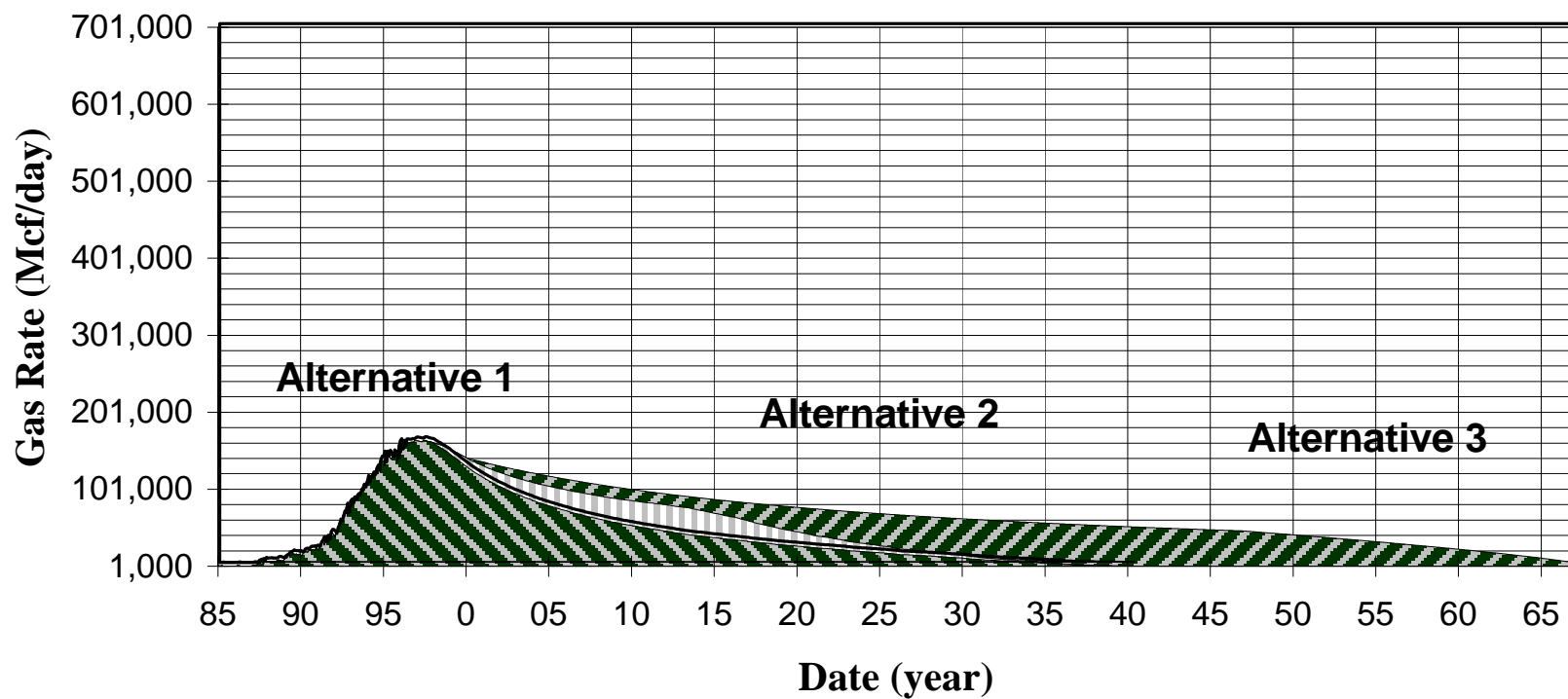


Figure 2-5
IGNACIO BLANCO FIELD
NON-TRIBAL ACREAGE



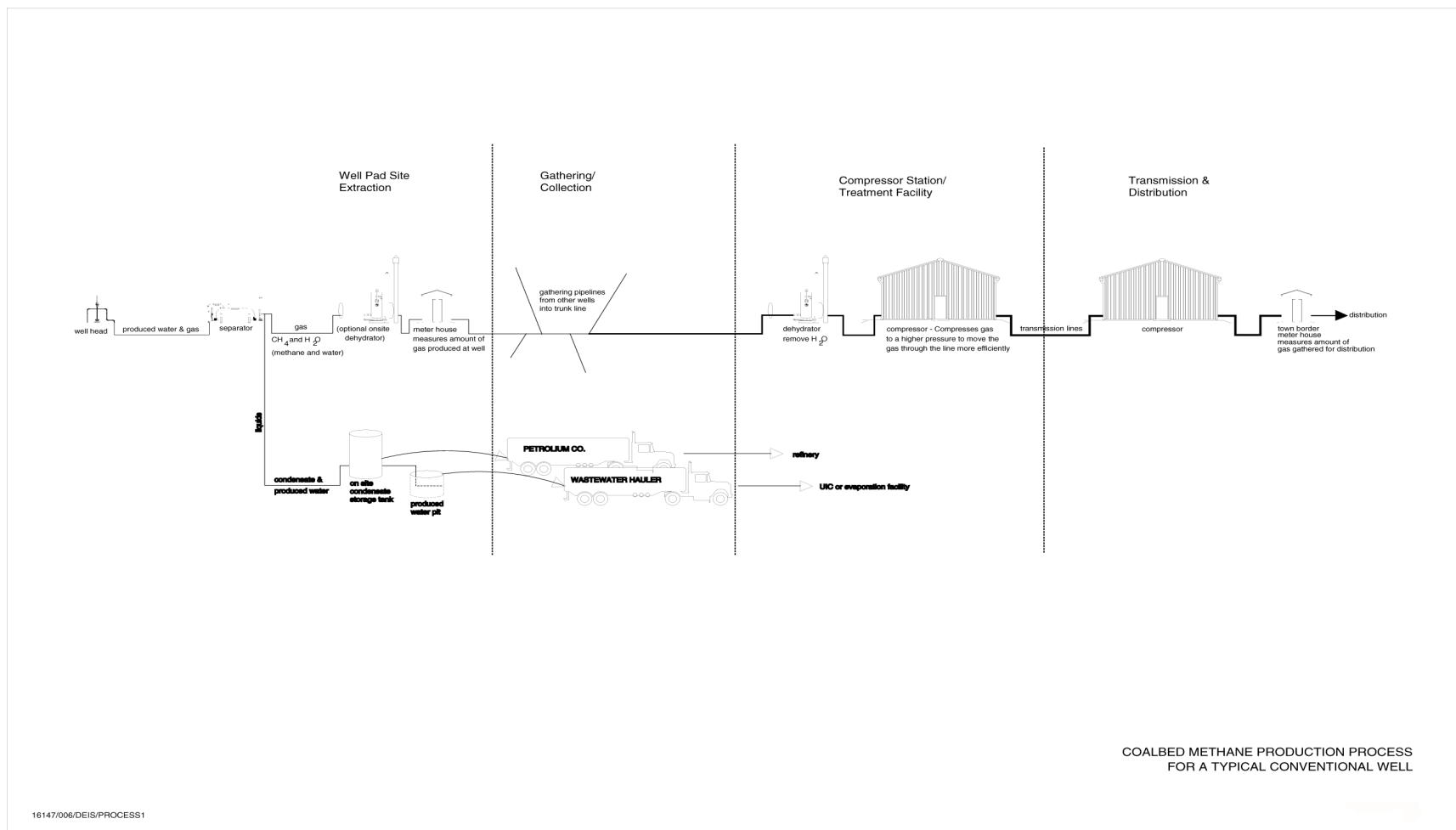


Figure 2-9

FIGURE 3-1 Representative 1990 Wind Rose, Based on MM4 and CALMET Meteorological Models. Source Earth Tech, 2000

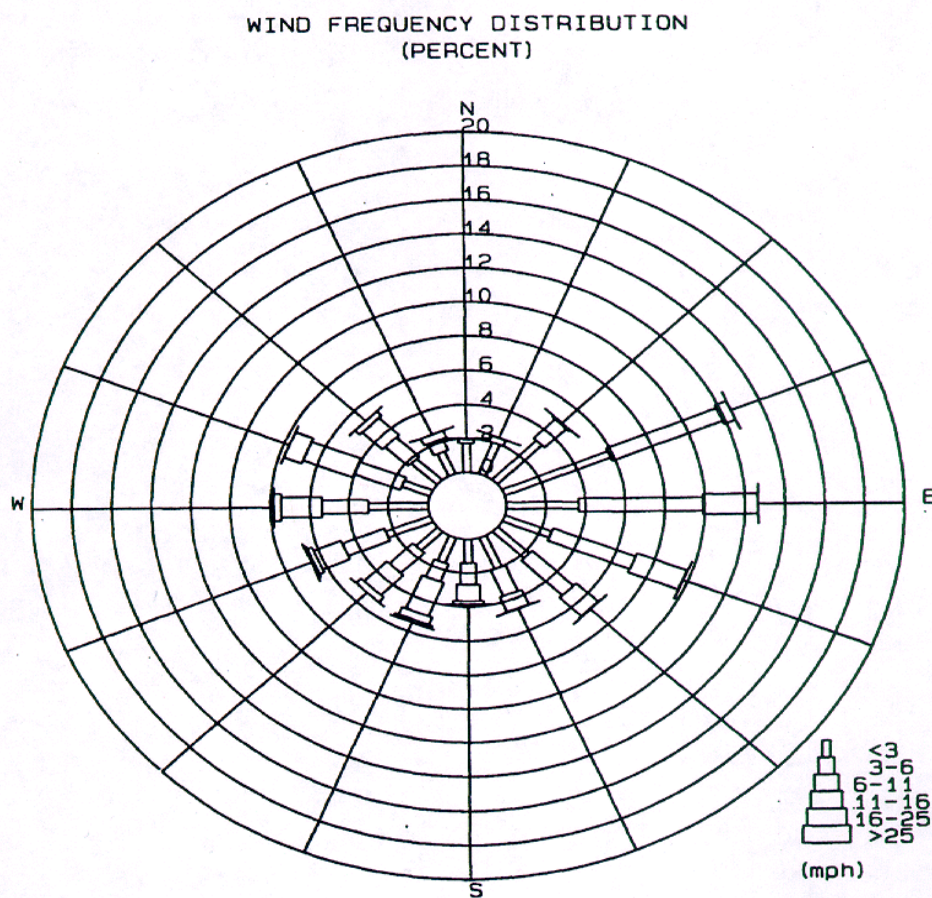
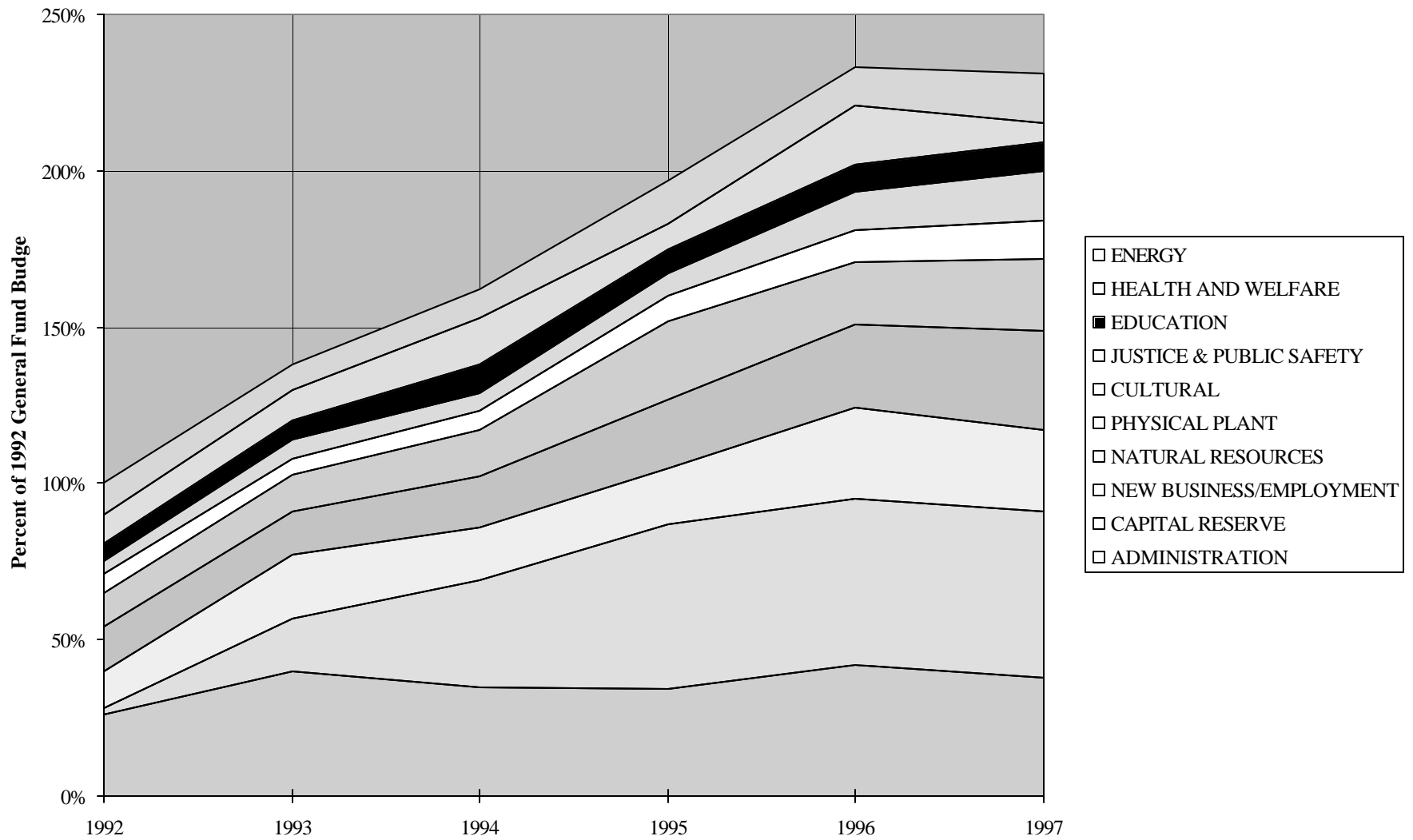
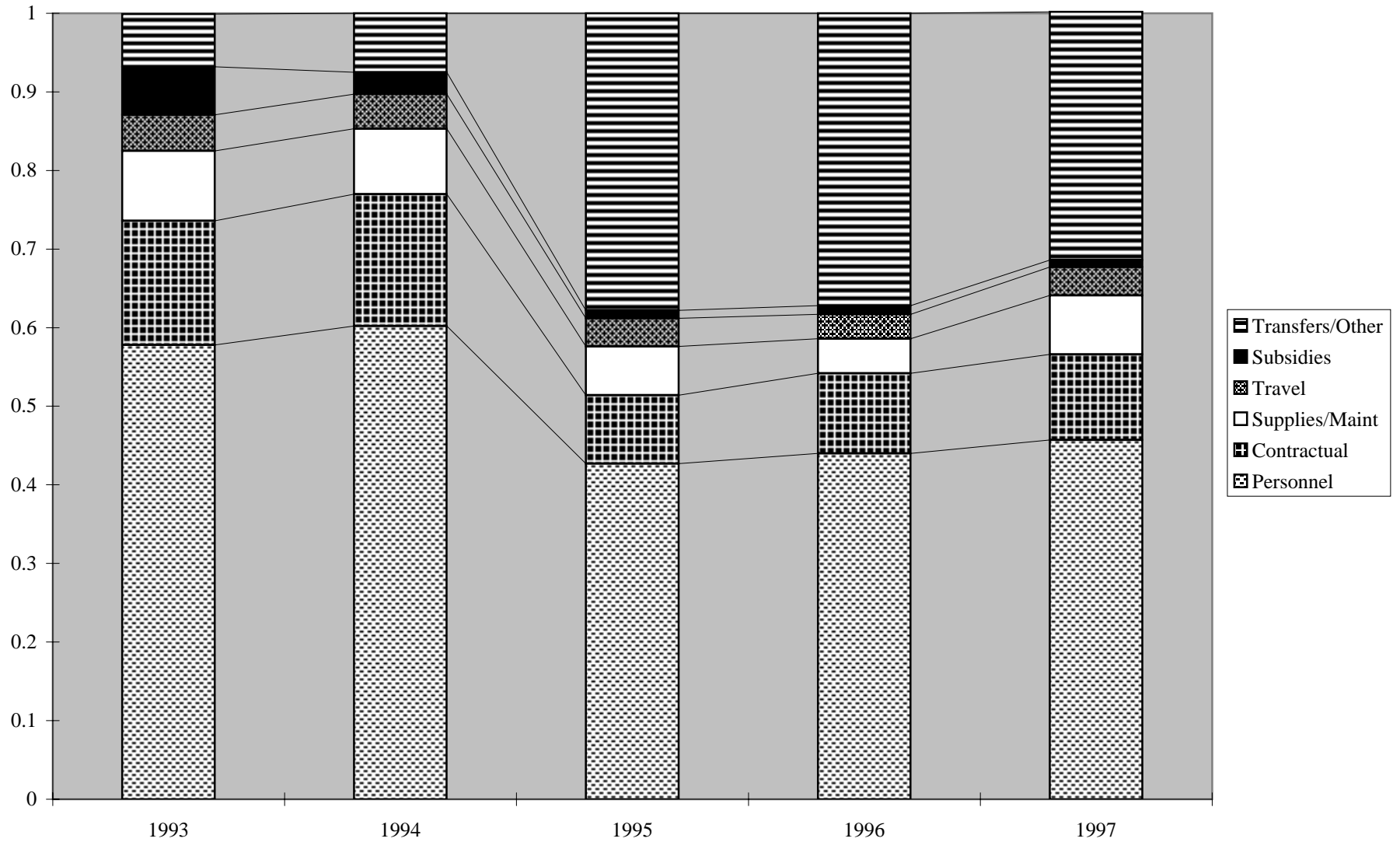


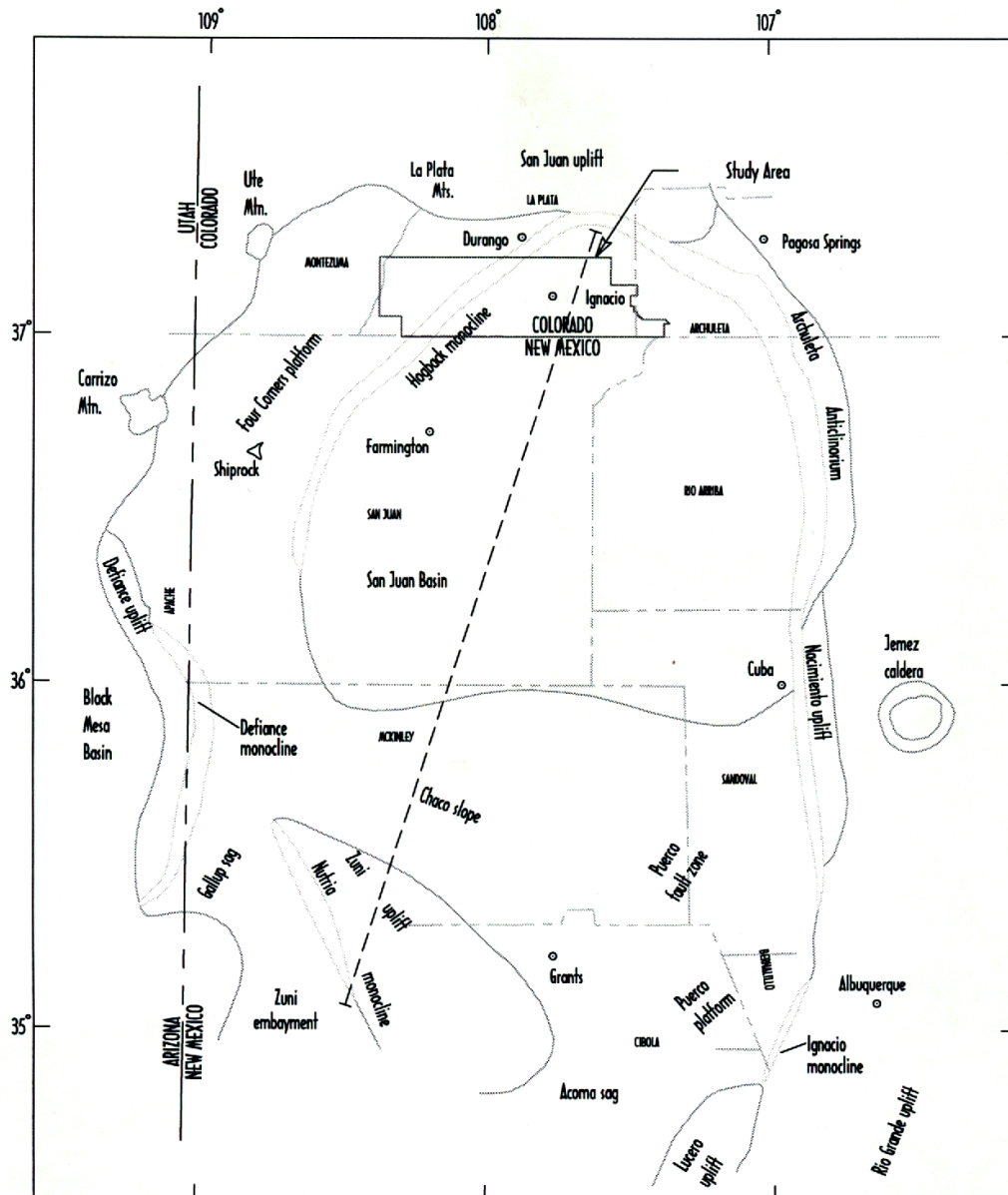
Figure 3-10
General Fund Budgets as a Percent of the 1992 General Fund Budget



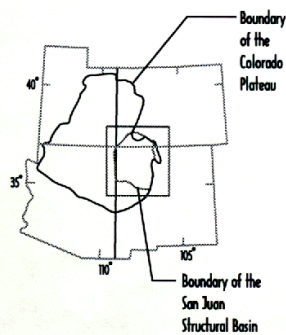
Γ

Figure 3-11
SUIT General Fund: Budgeted Expenses





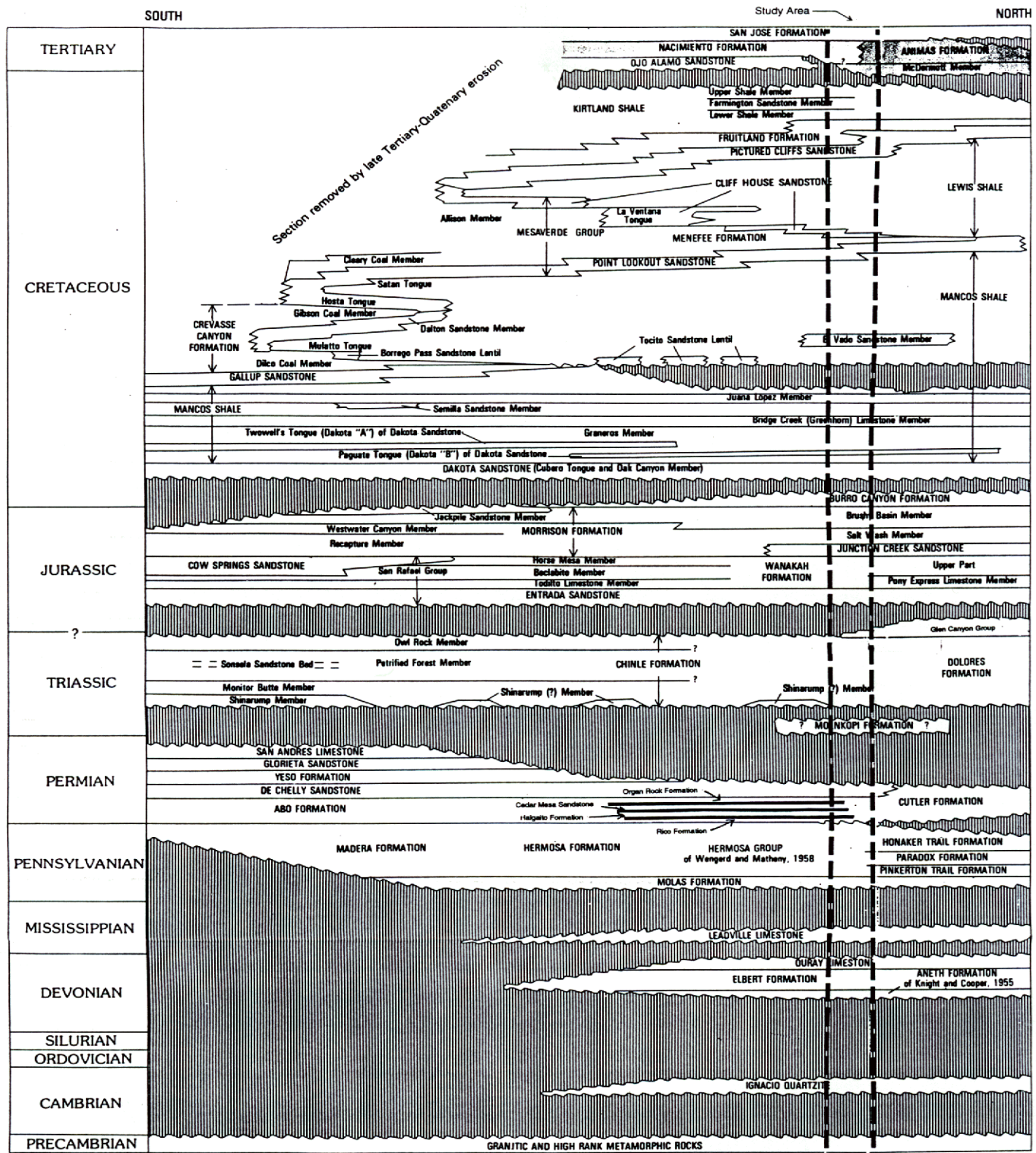
Modified after Kelley 1950 and Kemble and others 1990.



— — — Approximate location of the "cross-section" in Figure 3-3.

STRUCTURAL ELEMENTS OF THE SAN JUAN STRUCTURAL BASIN AND ADJACENT AREAS

Figure 3-2



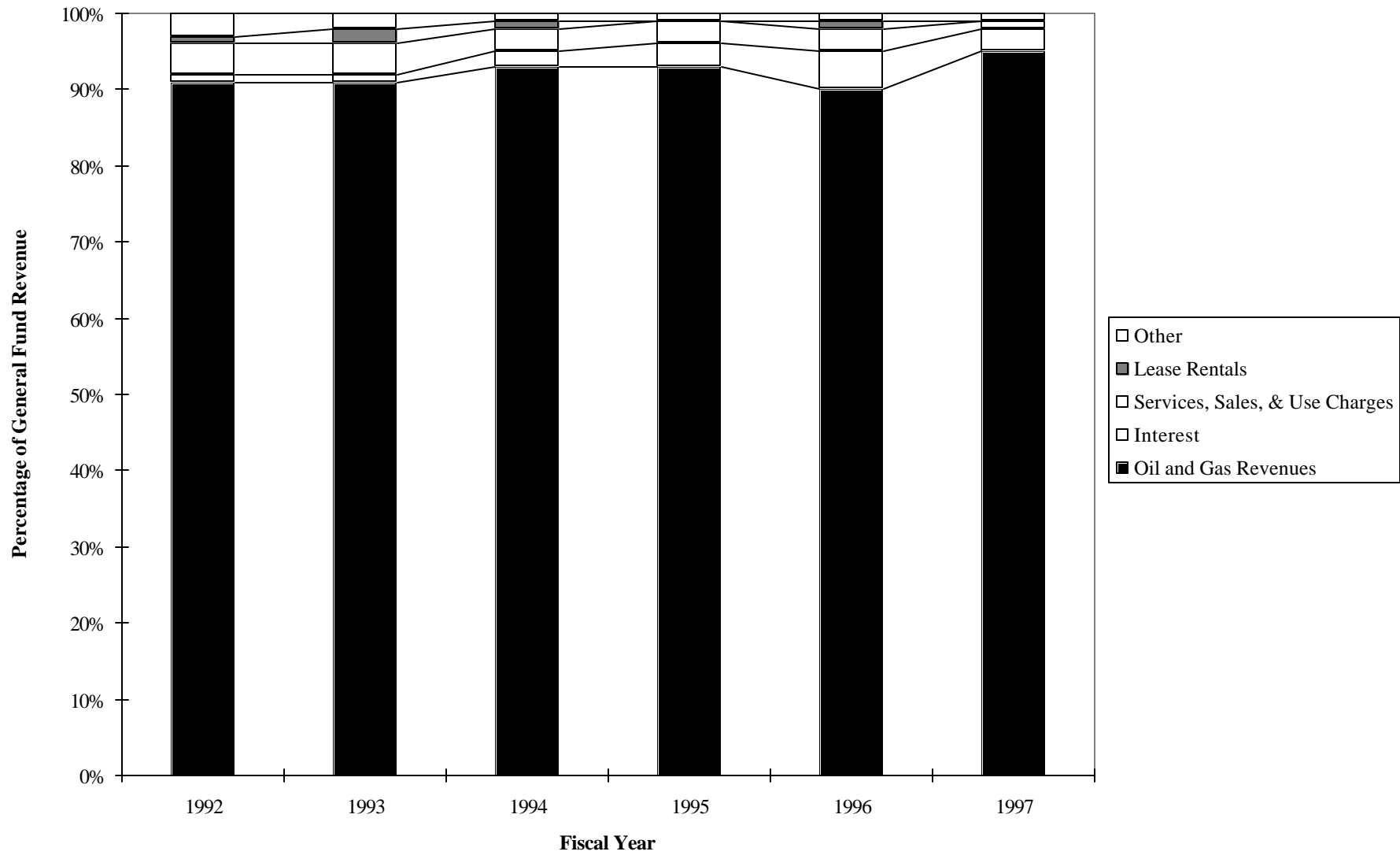
Note: The Rock-Stratigraphic Framework for the Four Corners Platform is the same as presented here for the San Juan Basin with the exception that all units above the Cliff House Sandstone have been eroded away.

From Levings and others 1990. (Modified from Molenaar, 1977 a, b, and 1989)

NORTH-SOUTH TIME AND ROCK-STRATIGRAPHIC FRAMEWORK AND NOMENCLATURE FOR THE SAN JUAN BASIN

Figure 3-3

Figure 3-9
SUIT General Fund Revenue Sources



]

s

CBM Wells

Conventional
Development Area

Environmental Inventory

- Natural Resources**
- Geology and Minerals, Paleontology
 - Soils
 - Groundwater
 - Surface Water
 - Vegetation and Wetlands
 - Wildlife and Fisheries
 - Threatened and Endangered Species
 - Air Quality
- Human Resources**
- Land Use and Ownership/Existing Development
 - Traffic and Transportation
 - Visual Resources
 - Socioeconomics
 - Noise
 - Health and Safety
- Cultural Resources**
- Archaeology
 - History
 - Traditional Cultural Places
 - Homestead Activity

160 Acre
Development Windows320 Acre
Development Windows

Natural Resources

Human Resources

Cultural Resources

Mitigation
Assumptions

Impact Tables

Table 1: Impact Tables (Sample Data)

Resource Type	Impact Description	Impact Rating	Mitigation Measures
Natural Resources	Groundwater Depletion	High	Limit production to sustainable levels
	Surface Water Alteration	Medium	Install erosion control measures
	Vegetation Removal	Low	Replant native species
	Wildlife Habitat Loss	Medium	Set back development from sensitive areas
Human Resources	Land Use Change	Medium	Obtain necessary permits
	Traffic Increase	Low	Implement traffic management plan
	Visual Impact	Low	Use screening vegetation
	Noise Increase	Low	Install noise barriers
Cultural Resources	Archaeological Impact	High	Conduct archaeological survey
	Historical Site Disturbance	Medium	Establish buffer zones
	Traditional Cultural Place	Low	Consult with tribal authorities
	Homestead Activity	Low	Limit access to sensitive areas

Significance Criteria

Existing Wells, Roads
and PipelinesExisting Development
Impacts

- Acres of Resource
- # of Existing Conventional Wells
- # of Existing CBM Wells
- Acres of Existing Conventional Well Pads
- Acres of Existing CBM Well Pads
- Acres of Combined Existing Well Pads
- Total Linear Feet of Existing Unpaved Roads in the Study Area
- Total Acres of Existing Unpaved Roads in the Study Area
- Total Linear Feet of Existing Pipelines in the Study Area
- Total Acres of Existing Pipeline Disturbance in the Study Area
- # of Compressors
- Acres of Disturbance from Compressors
- Total Disturbance
- Existing %

Potential Cumulative
Impacts

Table 2: Potential Cumulative Impacts (Sample Data)

Resource Type	Impact Description	Impact Rating	Mitigation Measures
Natural Resources	Groundwater Depletion	High	Limit production to sustainable levels
	Surface Water Alteration	Medium	Install erosion control measures
	Vegetation Removal	Low	Replant native species
	Wildlife Habitat Loss	Medium	Set back development from sensitive areas
Human Resources	Land Use Change	Medium	Obtain necessary permits
	Traffic Increase	Low	Implement traffic management plan
	Visual Impact	Low	Use screening vegetation
	Noise Increase	Low	Install noise barriers
Cultural Resources	Archaeological Impact	High	Conduct archaeological survey
	Historical Site Disturbance	Medium	Establish buffer zones
	Traditional Cultural Place	Low	Consult with tribal authorities
	Homestead Activity	Low	Limit access to sensitive areas

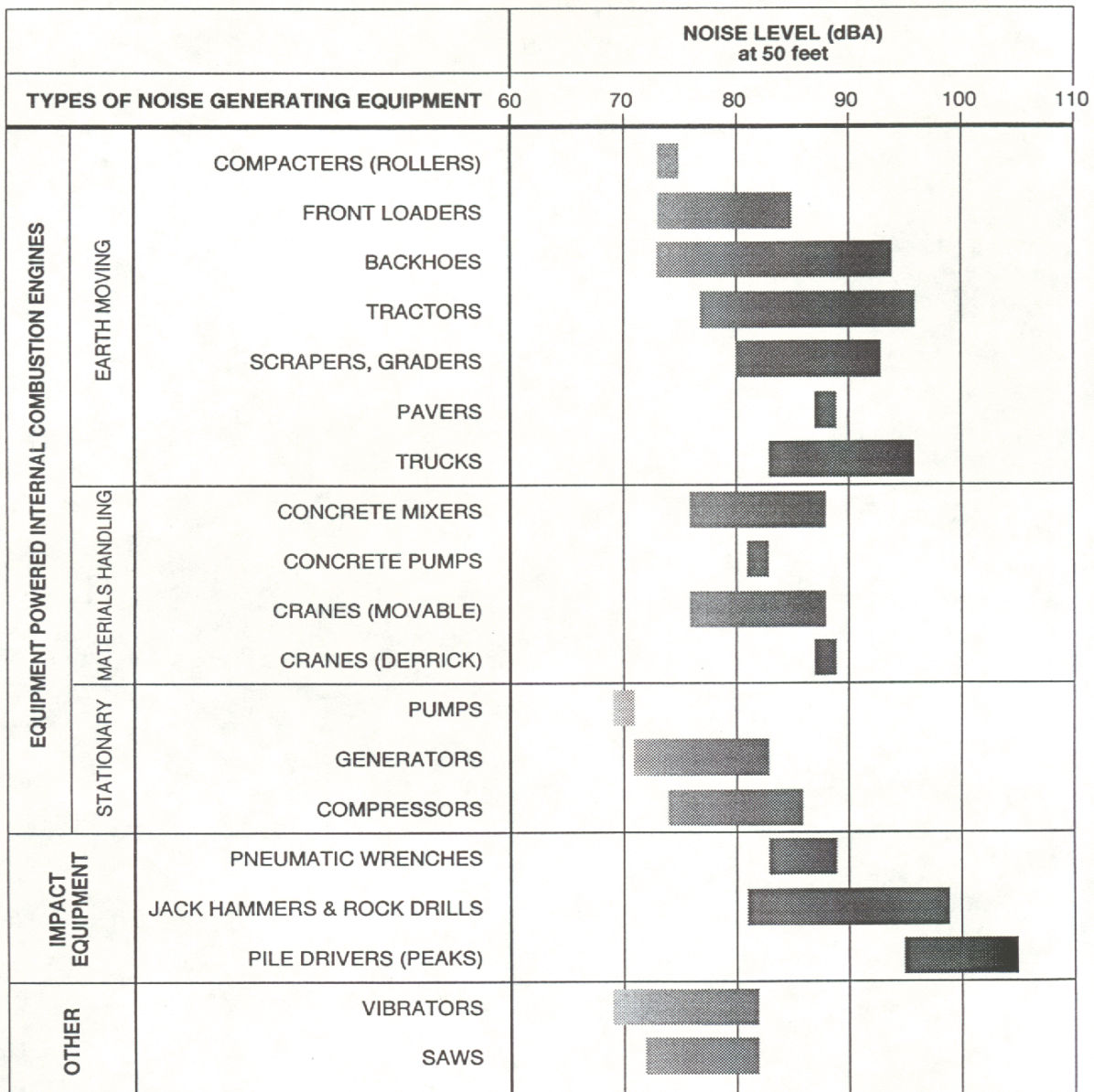
Alternatives Comparison
Summary

Table 3: Alternatives Comparison Summary (Sample Data)

Resource Type	Alternative 1 Continuation of Present Management	Alternative 2 Coal Bed Methane Leasing and Recovery	Alternative 3 Coal Bed Methane Leasing and Recovery
Groundwater	High	Medium	Low
Surface Water	Medium	Low	Low
Vegetation	Low	Low	Low
Wildlife	Medium	Low	Low
Land Use	Medium	Low	Low
Traffic	Low	Low	Low
Noise	Low	Low	Low
Visual	Low	Low	Low
Archaeology	High	Medium	Low
History	Medium	Low	Low
Traditional Cultural	Low	Low	Low
Homestead	Low	Low	Low

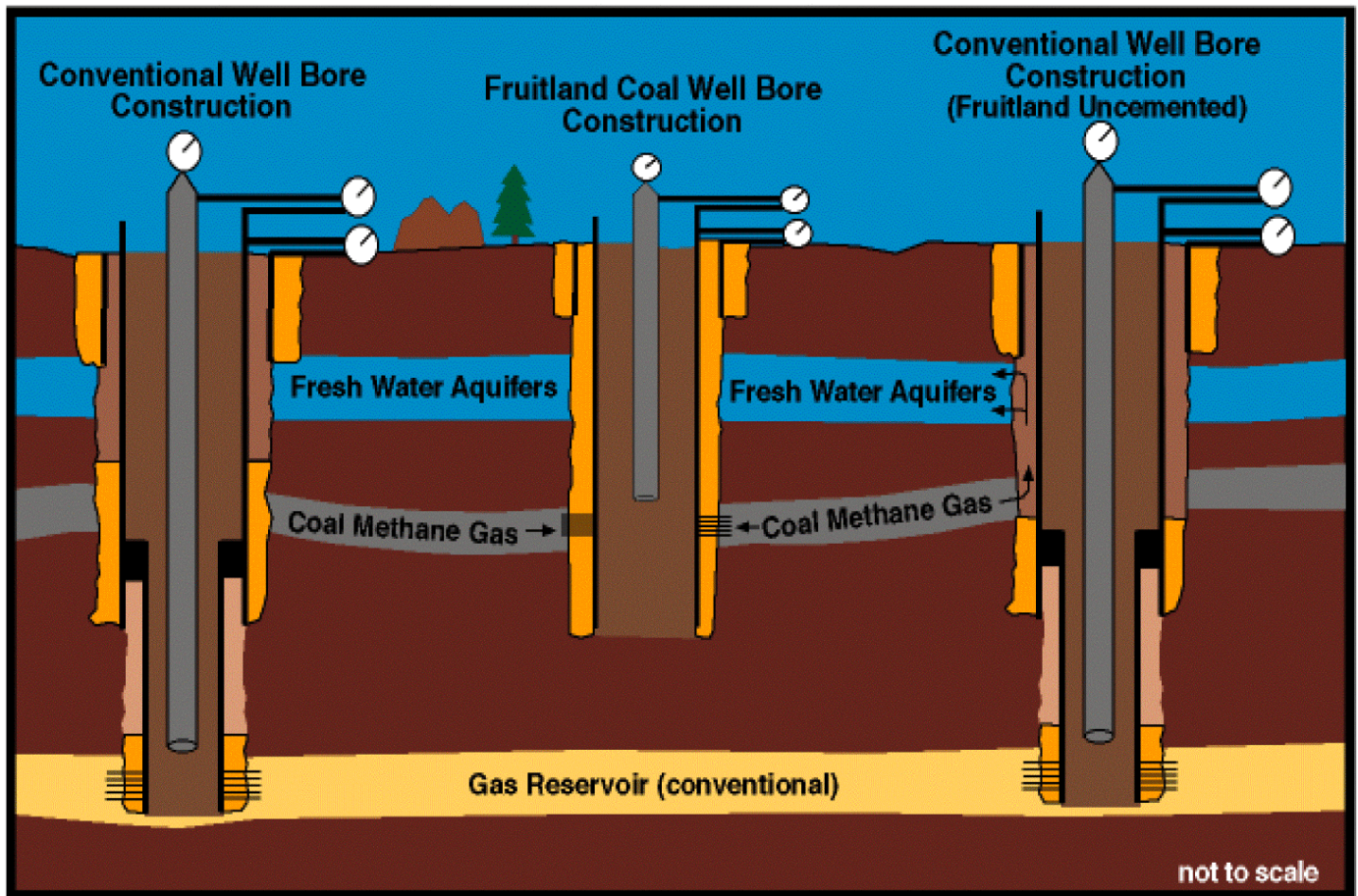
Mitigation
Measures

Southern Ute Indian Reservation
Oil & Gas Leasing and Development EIS
Cumulative Impact Assessment/
Alternative Comparison Process



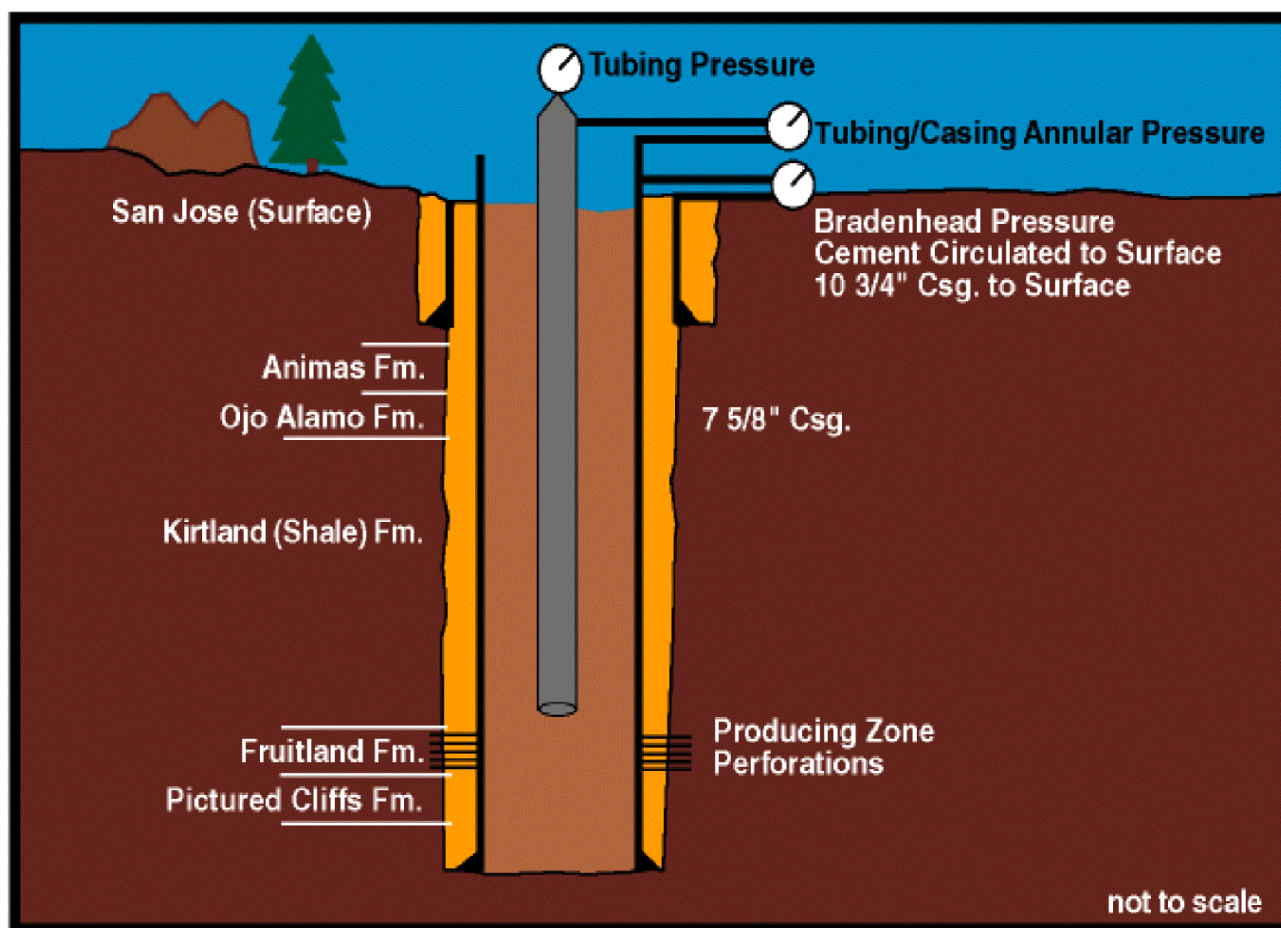
TYPICAL CONSTRUCTION EQUIPMENT NOISE GENERATION LEVELS

Figure 4-12



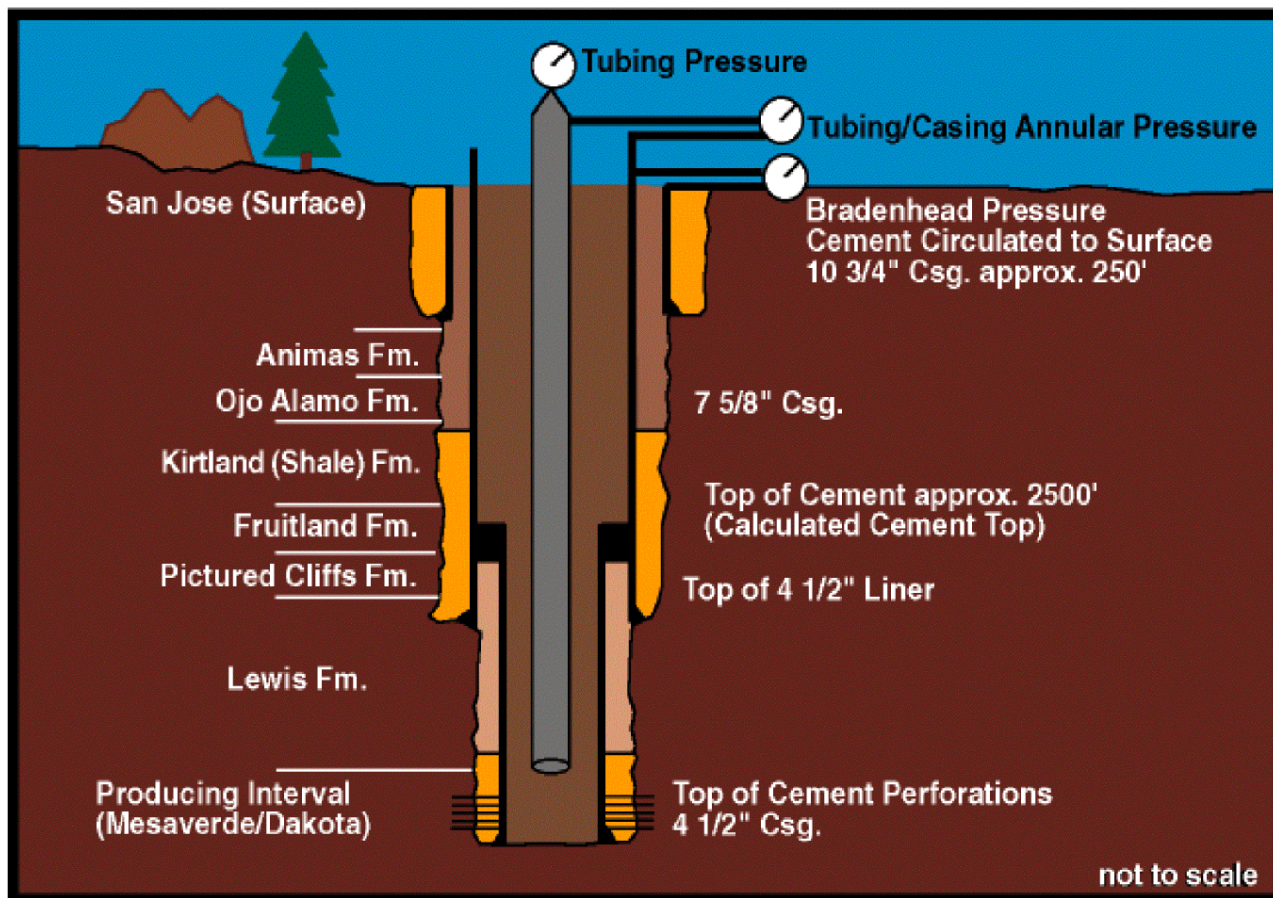
POTENTIAL CROSS FLOW DIAGRAM

Figure 4-2



FRUITLAND WELL BORE CONSTRUCTION

Figure 4-3



CONVENTIONAL WELL BORE CONSTRUCTION

Figure 4-4

Figure 4-5
Ignacio-Blanco Field
Production Projection - All Acreage

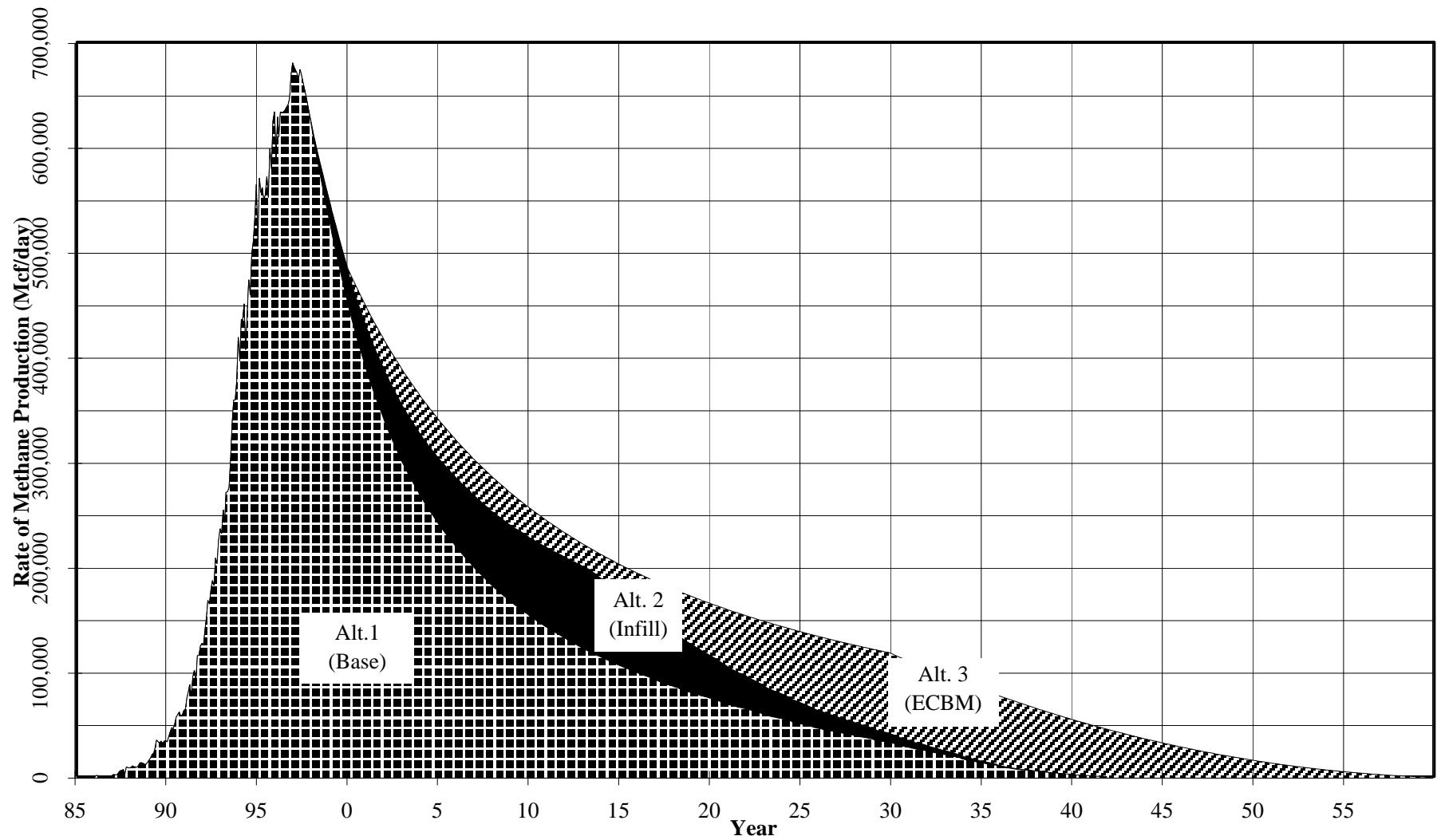


Figure 4-6
Ignacio-Blanco Field
Production Projection - Tribal Acreage

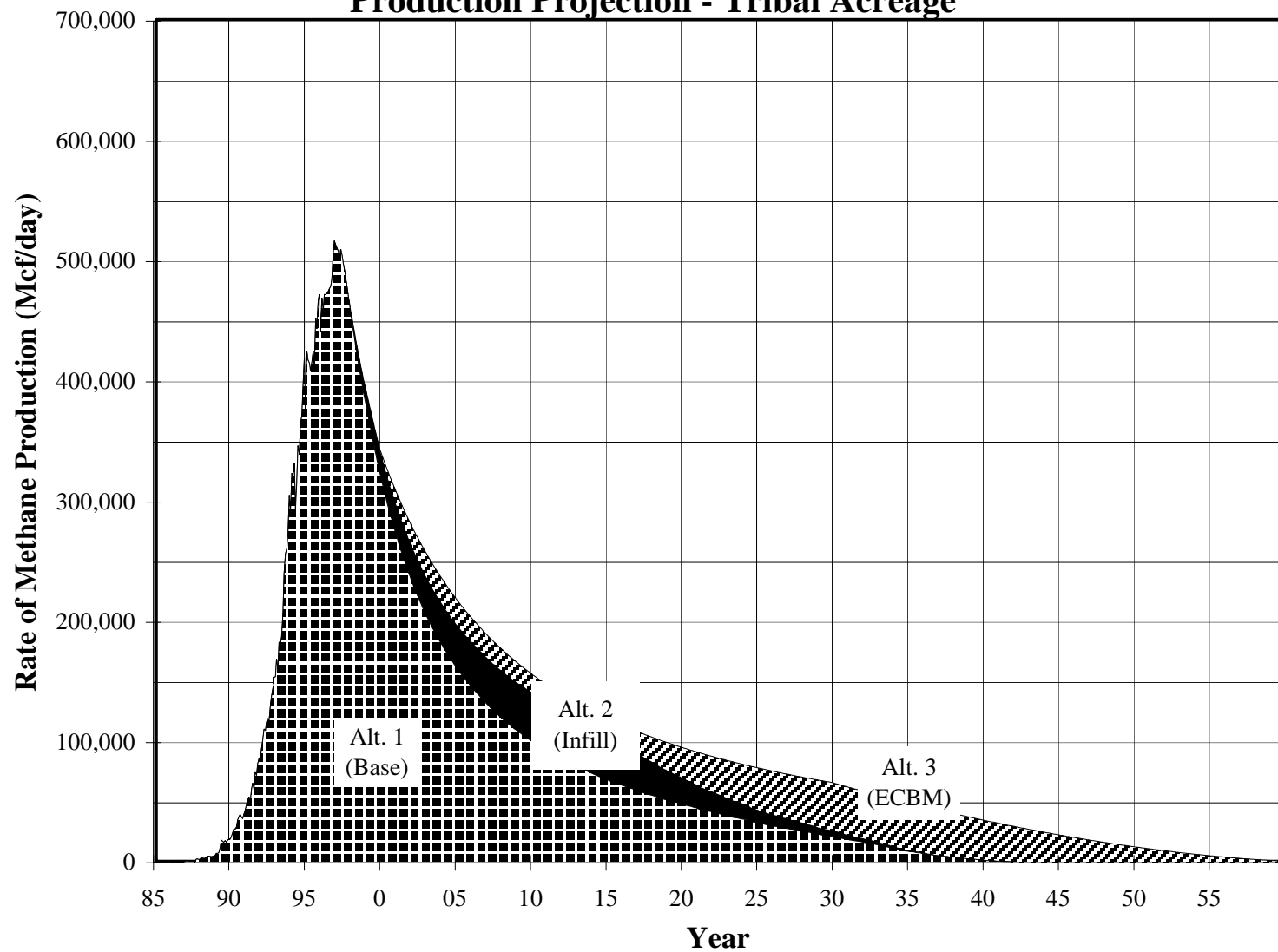


Figure 4-7
Ingnacio-Blanco Field
Production Projection - Non-Tribal Acreage Only

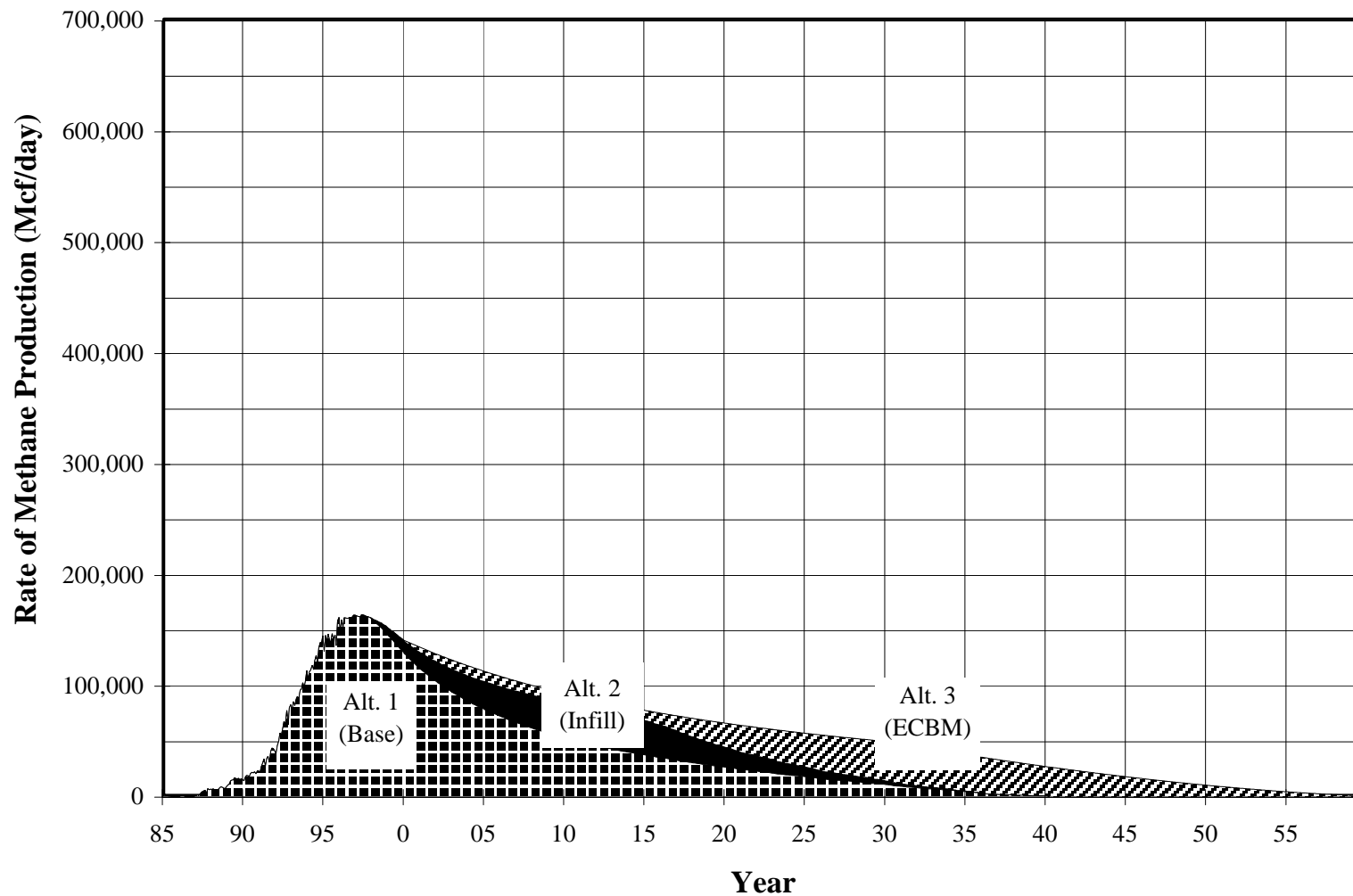


Figure 3-4
Assessed Values of Taxable and Exempt Property
in La Plata County

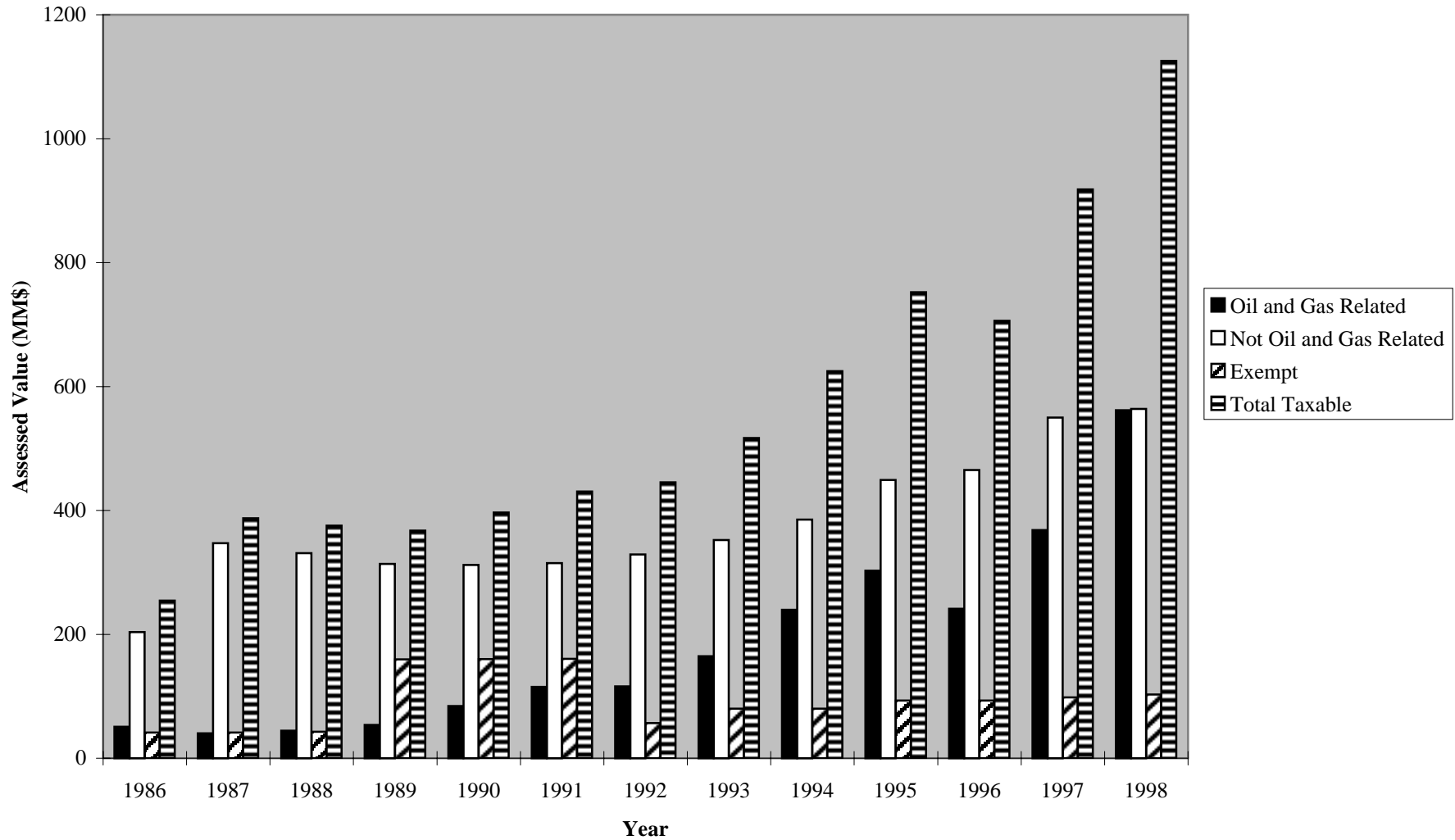


Figure 3-5
Assessed Value of Oil and Gas Property In La Plata County

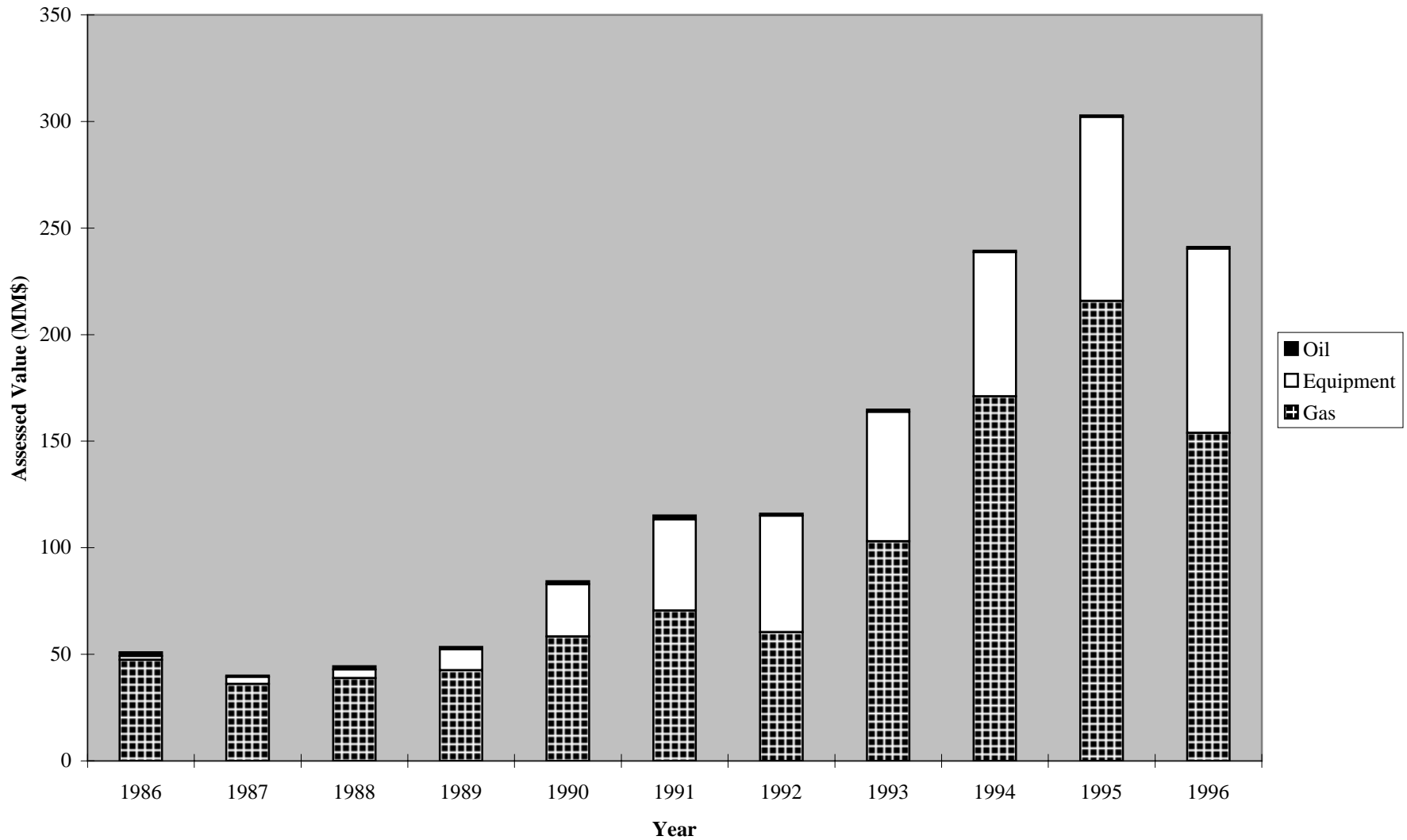


Figure 3-6
Distribution of Property Tax Collected

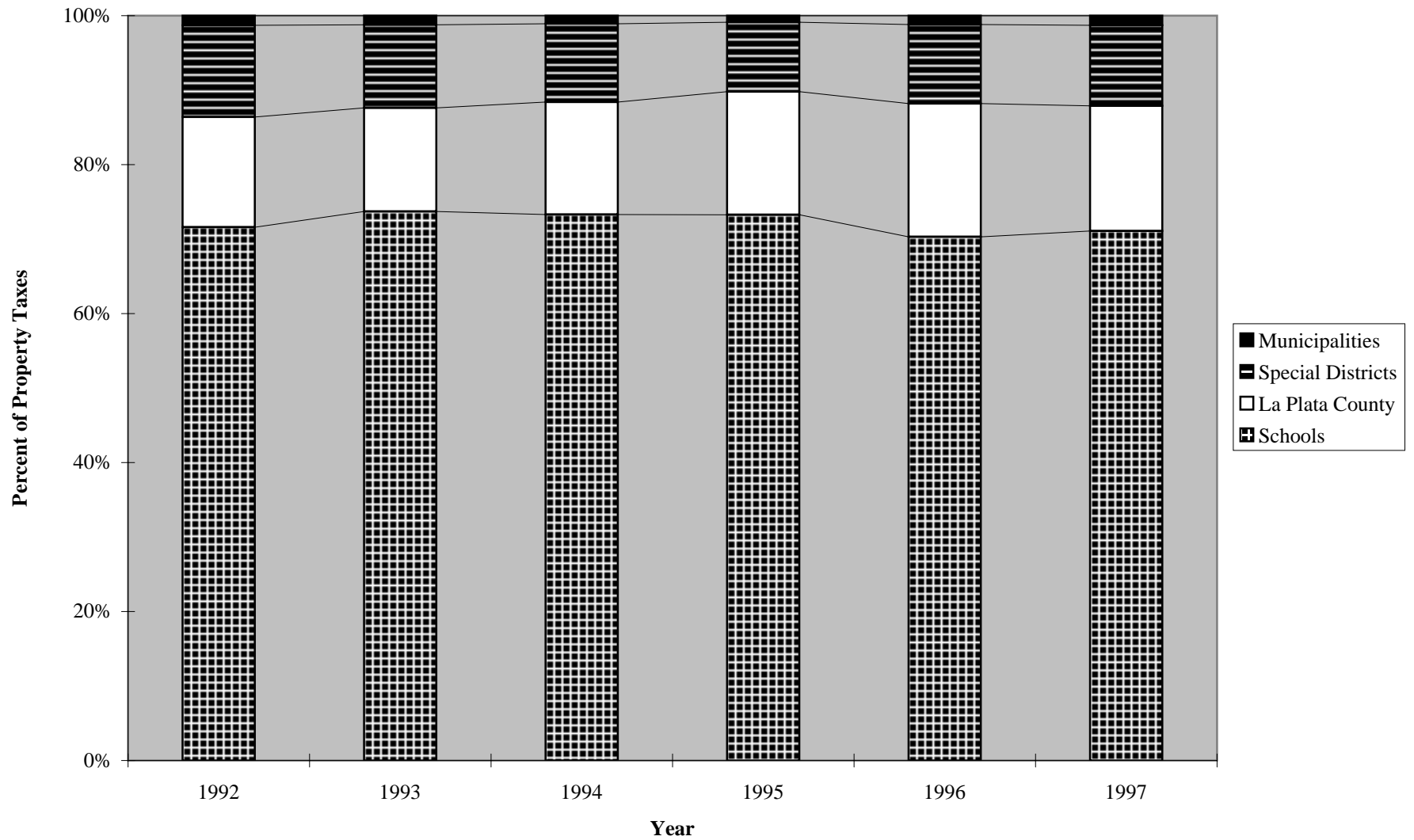


Figure 3-7
Durango 9-R School District: Sources of Revenue

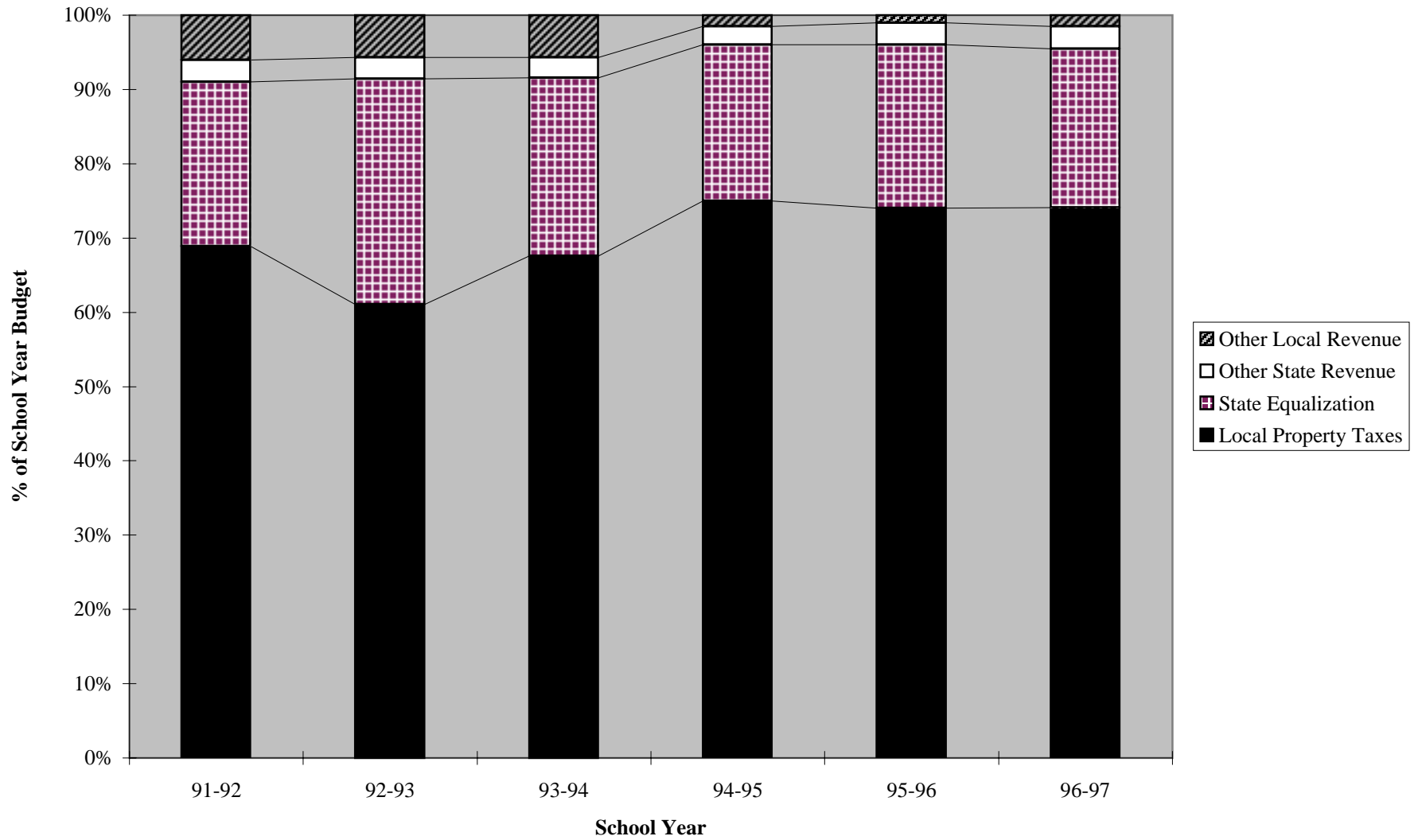


Figure 3-8
La Plata County Budget Revenue Sources

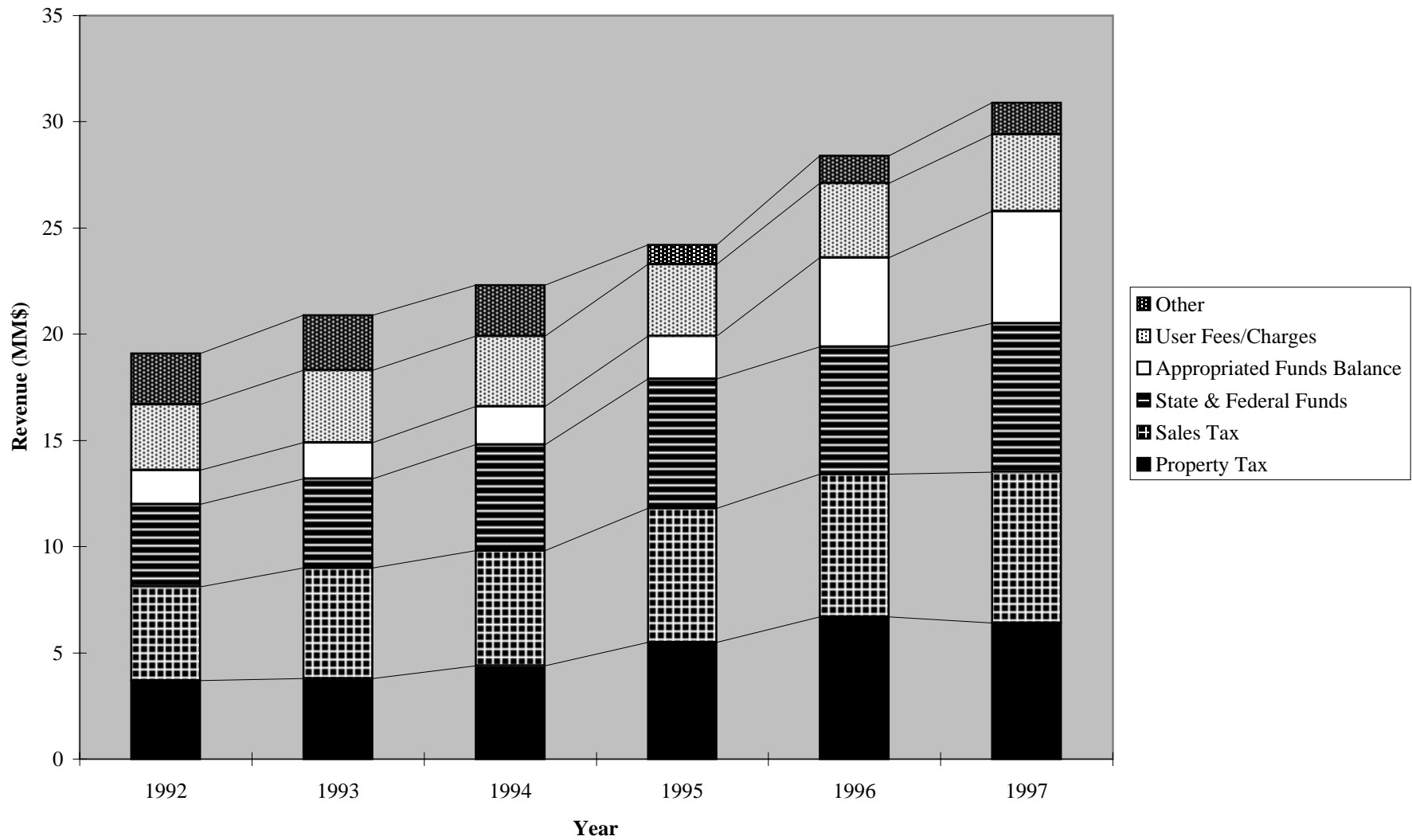


Figure 4-8
Employment for Drilling, Completing, and Operating
New Wells and Compressors

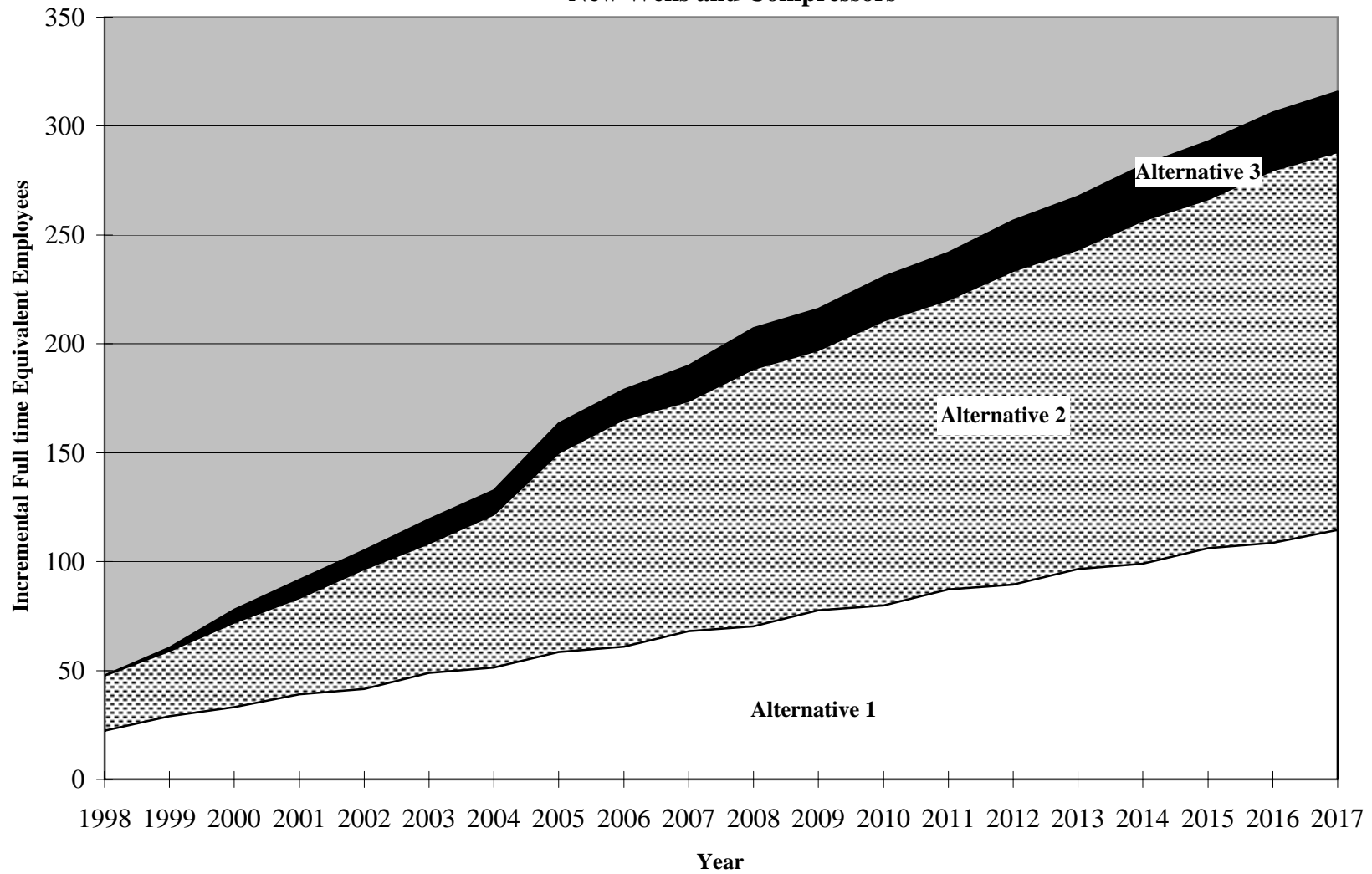


Figure 4-9
Historical and Projected General Fund Budget
as a Percent of the 1992 General Fund Budget
Under Alternative 1

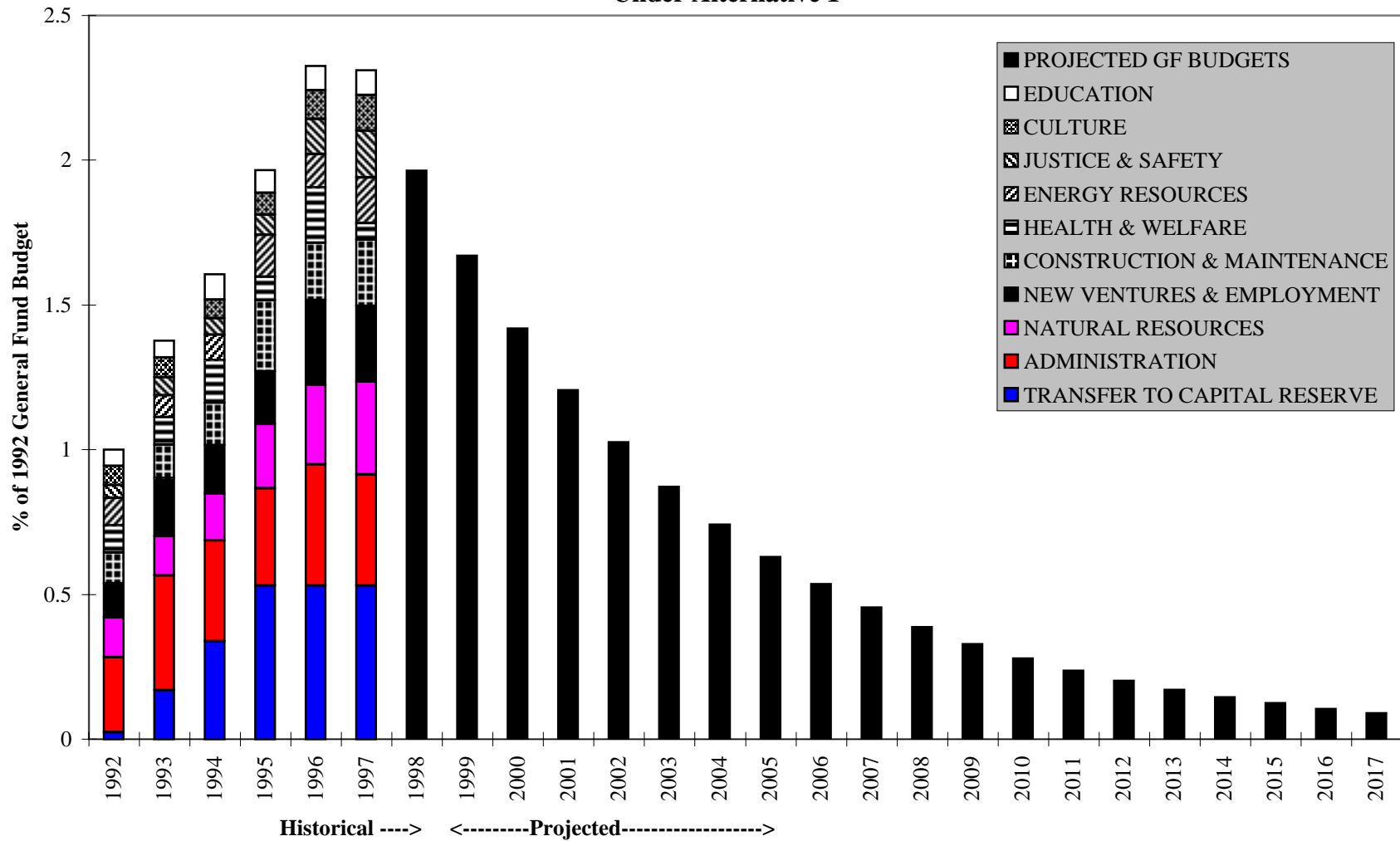


Figure 4-10
Historical Property Tax Sources in La Plata County

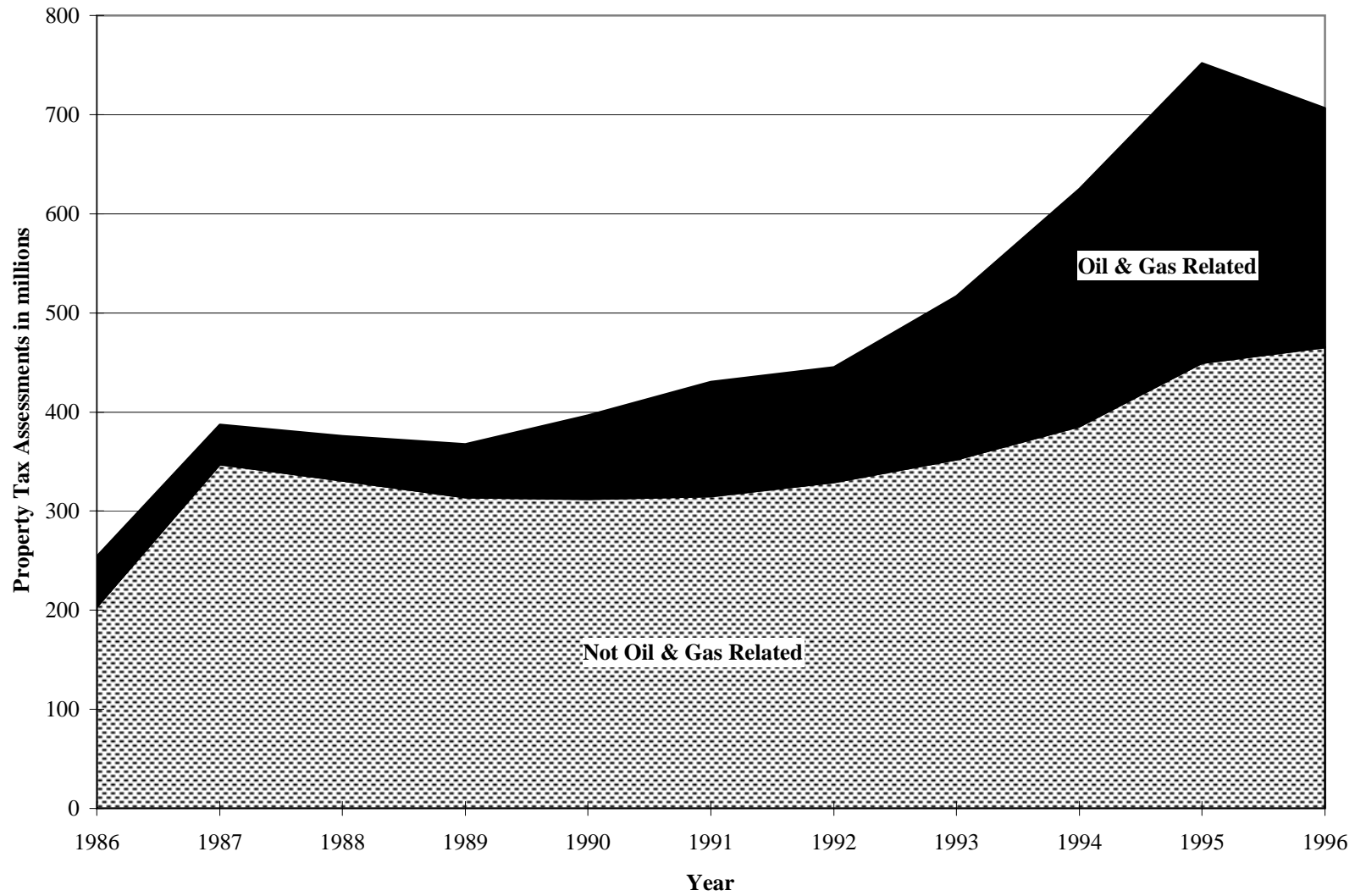


Figure 4-11
Durango 9-R School District Revenues

