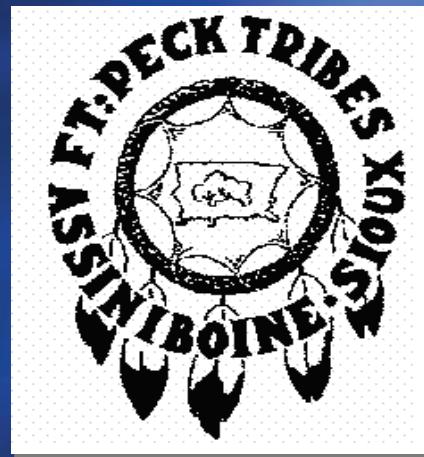


Fort Peck Assiniboine & Sioux Tribes



Office of Economic Development

November 18, 2009

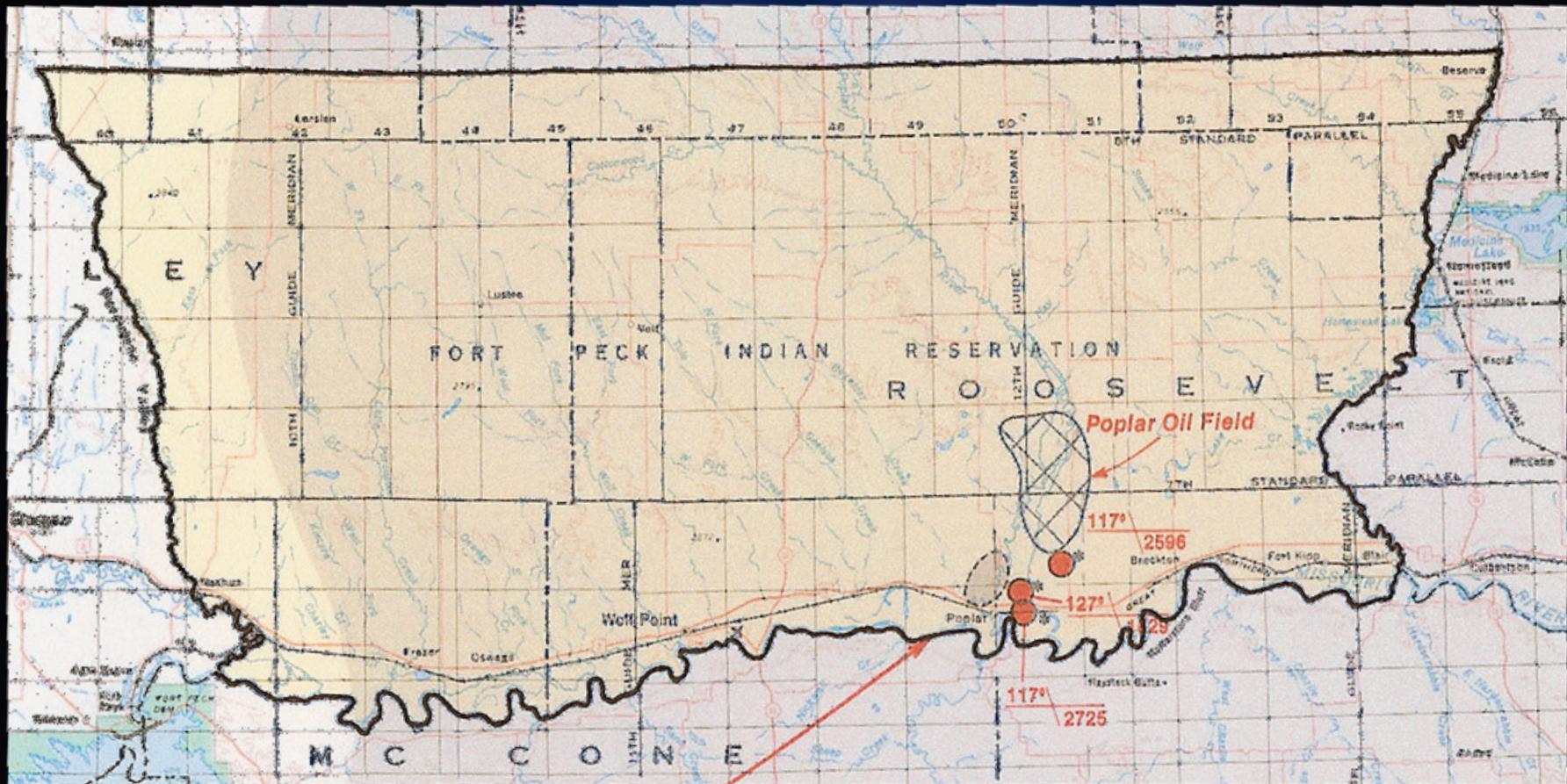
Nakona & Dakota Nations

U.S.A.

Montana

QuickTime™ and a
TIFF (Uncompressed) decompressor
are needed to see this picture.

- ⊕ 2M Acres
- ⊕ ≈12,000 Membership
- ⊕ 6 Communities along Highway 2
- ⊕ 100 mi. x 35 mi.
- ⊕ Southern Boundary - Missouri River



Black Line is the Reservation Boundary

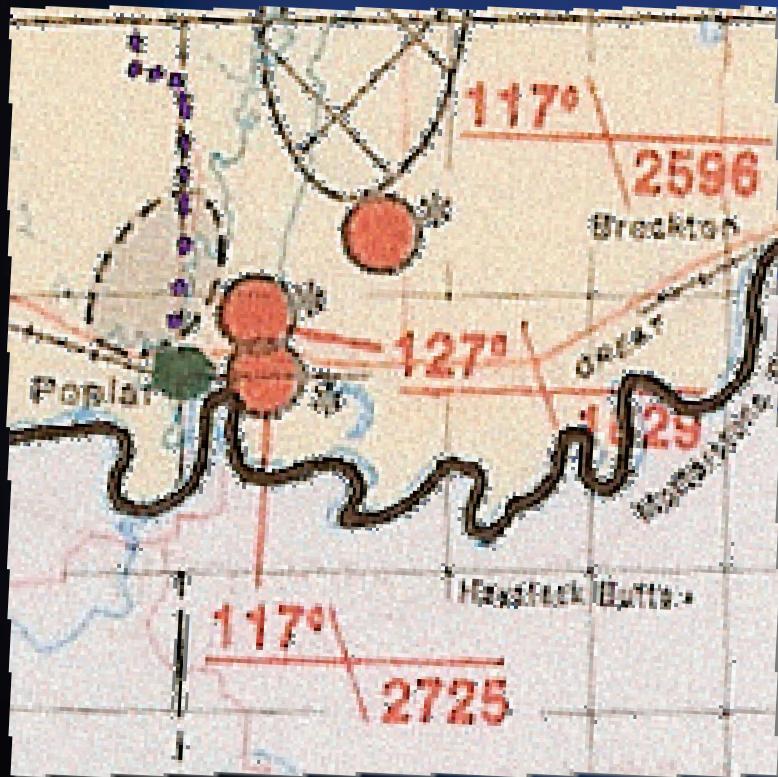
MT Bureau of Mines and Geology Map - 1981

Potential Geothermal Sites.

Geothermal

- ⊕ 1979 Feasibility Study - Scientific Foundation
- ⊕ MIT-Study 2006
- ⊕ Montana Bureau of Mines Information
- ⊕ Co-Produced Liquids Technology - Using abandoned oil wells, current wells.

MIT STUDY



OIL FIELDS

132° C at 2.2km

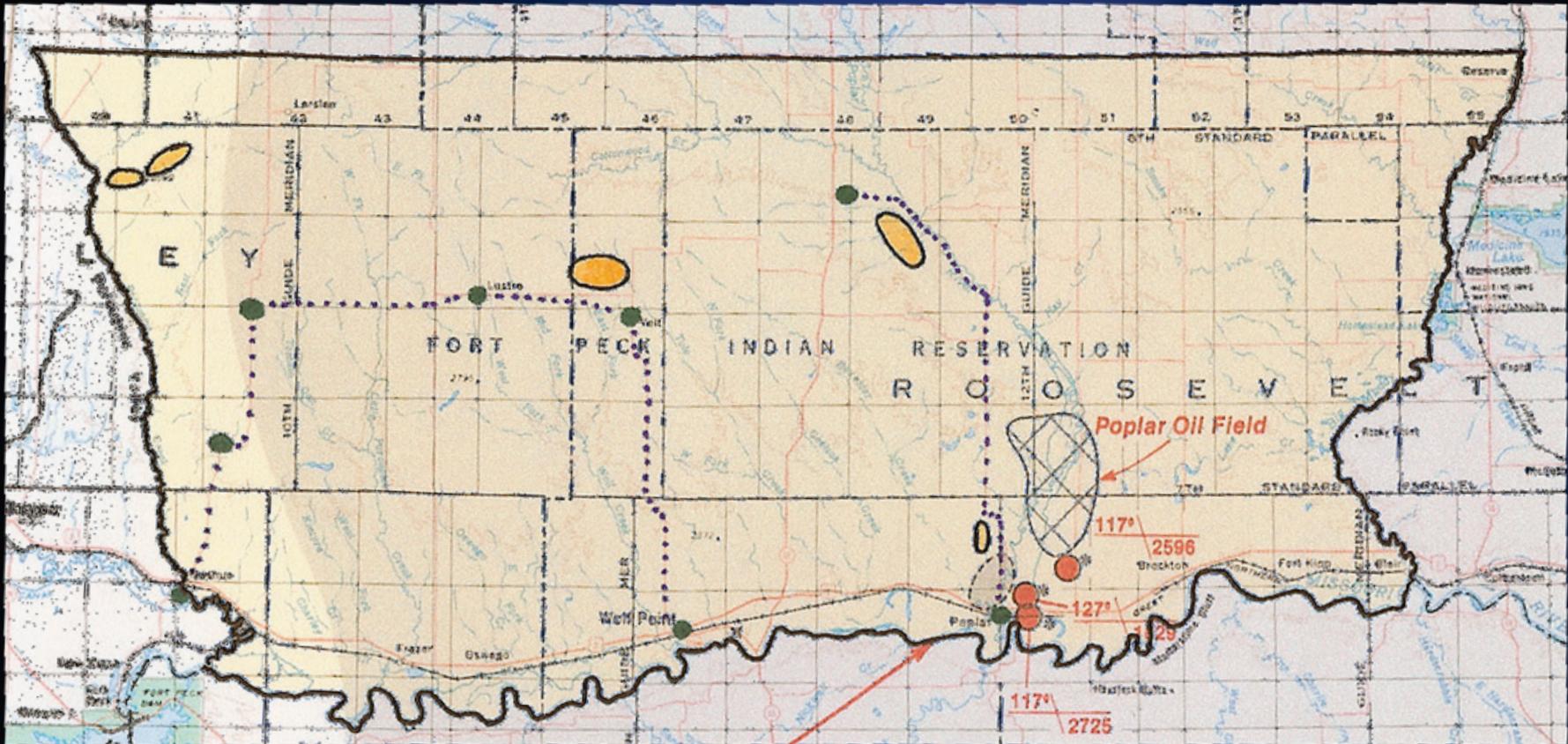
GRANITE BASEMENT

250° C at 6.5km (or less)

Little deep exploration

Few temperature data available

Generally normally pressured



- ⊕ 230 kV Line - East and West along US 2
- ⊕ 1/2 mi. from high temp well to Trans. Line

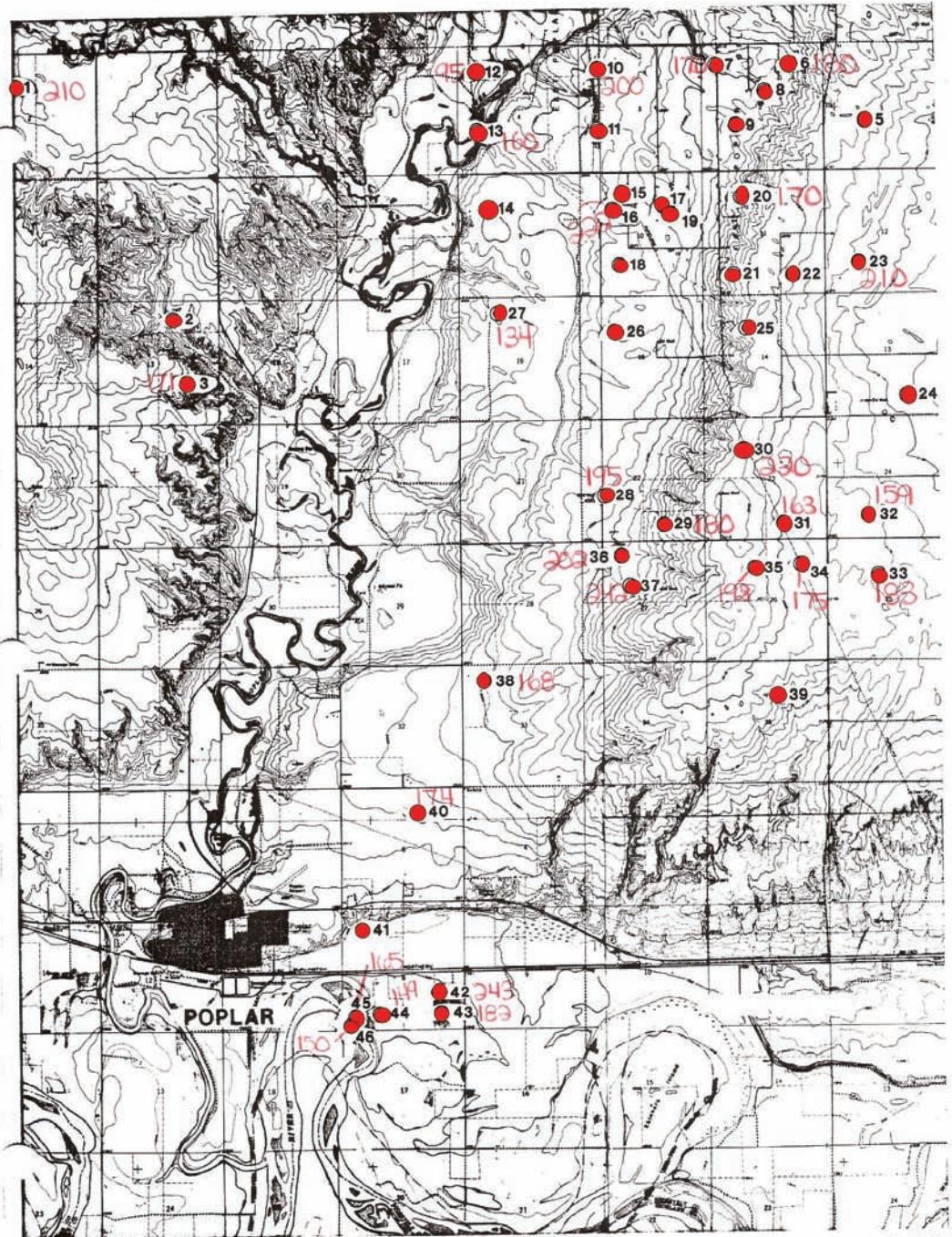
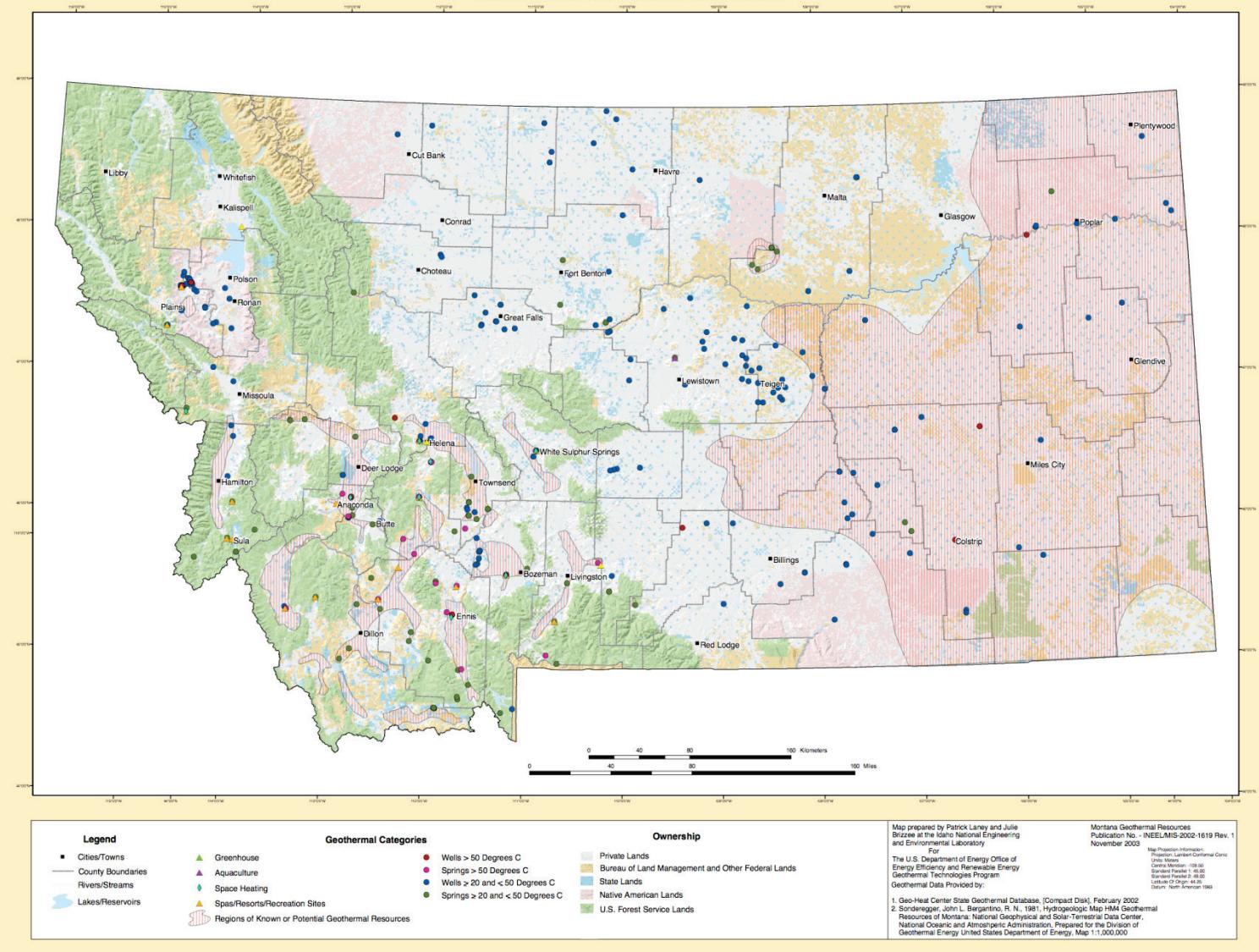


FIGURE III-2 LOCATION OF OIL WELLS USED IN ANALYSIS

1979

• Hottest Temp
according to
Well Logs is
Number 42 at
 243°F @ 6K
feet.

Montana Geothermal Resources



Scope of Work

- ⊕ Phase I - Geothermal Resource Assessment
- ⊕ Phase II - Technical, Socioeconomic, and Environmental Analysis
- ⊕ Phase III - Power Sales, Transmission Issues, Project Financing, Tribal Utility Issues, and Tribal Education Support

Phase I

Geothermal Resource Assessment

- ⊕ Compiling and Analyzing Existing geothermal information
- ⊕ Resource Exploration and Reassessment

Phase II

Technical, Socioeconomic, and Environmental Analysis

- ⊕ Technical Assessment
- ⊕ Economic Assessment
- ⊕ Tribal Education and Tribal Support
- ⊕ Environmental /Permitting Analysis
- ⊕ Tribal Benefits Analysis
- ⊕ Business Plan Development

Phase III

PPA, Transmission, Financing

- ⊕ Tribal Utility Issues
- ⊕ Tribal Education and Support
- ⊕ Power Sales and Transmission Issues
- ⊕ Project Financing
- ⊕ Tribal Education and Tribal Support
- ⊕ LOI's and Council Resolutions

Grant Award

\$233,170

References

- ⊕ **MIT Study -**

http://geothermal.inel.gov/publications/future_of_geothermal_energy.pdf

- ⊕ **1979-1980 Geothermal Feasibility Study**

http://www.osti.gov/bridge/product.biblio.jsp?osti_id=6664705

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