

Reference  
for  
Assessment

"Evaluation of Five Potential Geopressure  
Geothermal Test Sites in Louisiana  
Louisiana"

W.J. Bernard, Pet Engr Dept

DOE Contract EY-76-S-05-4889

June 1979

~~Additional~~ Additional Prospects - now being studied

- Bayou Hebert Prospect  
Lake Theriot

South ~~West~~ White Prospect

Kaplan

Grand Lake

Tuscaloosa

EY-76-S-05-4889

~~Technical~~ Technical Monitoring  
~~with West Texas~~  
~~with Texas~~ - Houston

~~Kaplan~~

Clifton Curville, DOE Wash DC

376-4912

DOE Contract  
number

ref

FINAL REPORT

submitted to

DEPARTMENT OF ENERGY  
DIVISION OF GEOTHERMAL ENERGY

by

McNeese State University  
Lake Charles, Louisiana 70609

entitled

GEOPRESSURED-GEOTHERMAL TEST OF THE EDNA DELCAMBRE NO. 1 WELL,  
TIGRE LAGOON FIELD, VERMILION PARISH, LOUISIANA:

ANALYSIS OF WATER AND DISSOLVED NATURAL GAS

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U.S. DOE CONTRACT NO. EY-76-S-05-4937

*From June 1979  
Report by Bernard*

TABLE I

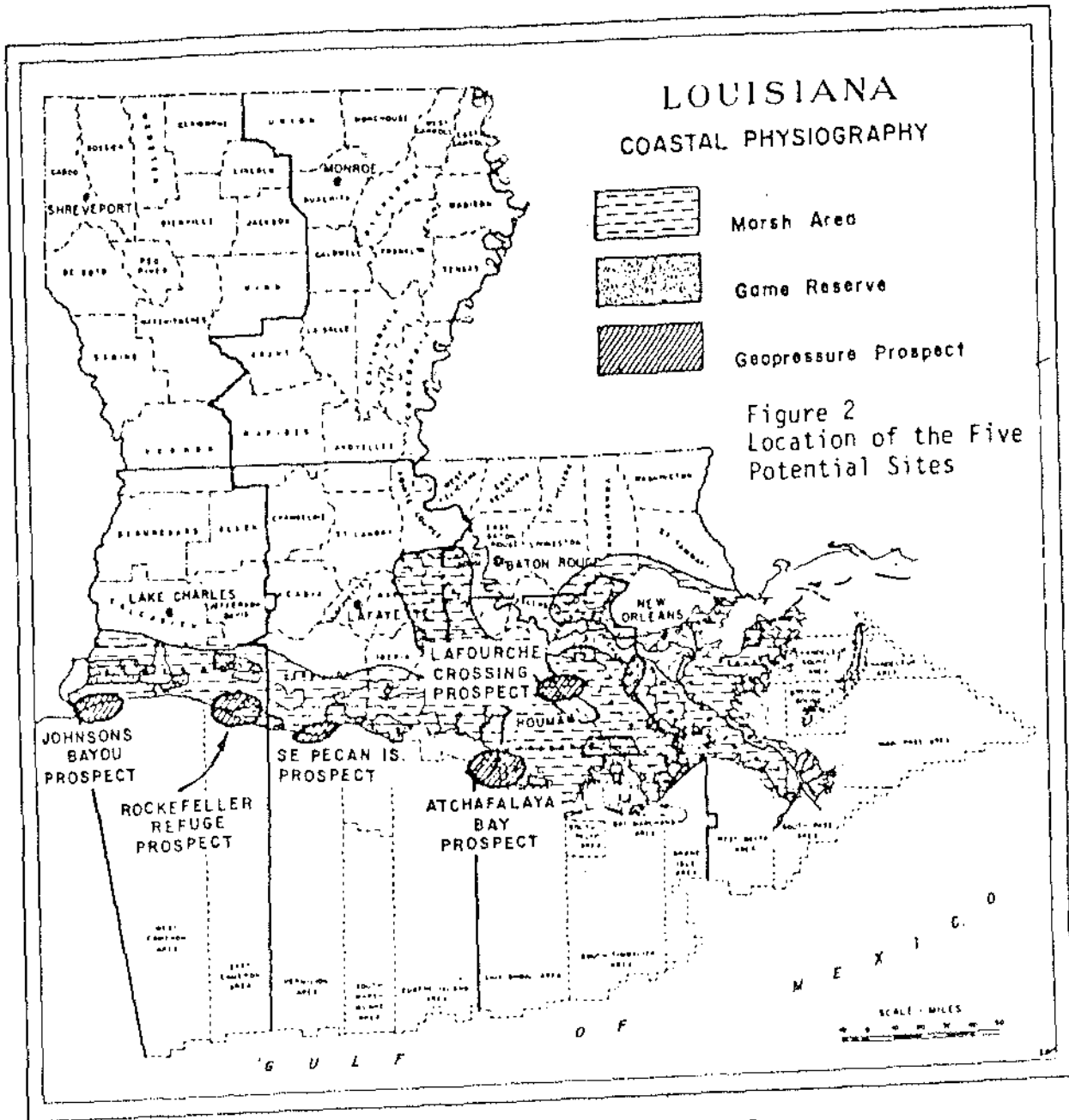
PROSPECT EVALUATION SUMMARY

	<u>Atchafalaya Bay</u>	<u>Johnson's Bayou</u>	<u>Lafourche Crossing</u>	<u>Rockefeller Refuge</u>	<u>S.E. Pecan Island</u>
Township-Range	18-S;12-E	15-S;14-W	15-S;17-E	16-S;4-W	17-S;1-E
Parish	St. Mary; Terrebonne	Cameron	Lafourche; Terrebonne	Cameron	Vermilion
Physiography	Marsh;Bay	Marsh;Gulf	Dry Land	Marsh;Gulf	Marsh;Gulf
Top of Geopressure, feet	11,120	8,740	13,850	14,500	13,400
Bulk Rock Volume, $\text{ft}^3 \times 10^9$	1,051	1,600	332	946	1,342
In-Place Water $\text{bbl} \times 10^9$	49	89	15	39	54
Avg. Pressure, psi	11,400	9,500	12,900	14,200	13,000
Avg. Temp.* °F	222	201	244	293	271
Water Salinity, ppm	107,000	95,000	45,000	56,000	70,000
Gas Solubility SCF/bbl	23	20	35	46	42
In-Place Dissolved Gas $\text{SCF} \times 10^{12}$	1.1	1.8	0.5	1.8	2.3
Permeability, md	95	300	70	80	98**
Porosity, fraction	0.26	0.31	0.25	0.23	0.23

\*Temperatures are uncorrected for mud circulation

\*\*S.E. Pecan Island permeability could be considerably lower, in the 2-10 md. range, according to recently released Exxon information.





GEOPRESSURE ENERGY PROSPECTS  
COASTAL LOUISIANA