AOGCC Reservoir Depletion Studies Prior to Major Gas		FY2009 Request:	\$1,500,000	
Sales	-	Reference No:	45396	
AP/AL: Appropriation	Project Ty	Type: Planning		
Category: Natural Resources				
Location: Statewide	Contact: E	ric Swanson		
House District: Statewide (HD 1-40)	Contact Ph	none: (907)465-5655		
Estimated Project Dates: 07/01/2008 - 06/30	/2010			

Brief Summary and Statement of Need:

The AOGCC must independently evaluate depletion plans for reservoirs prior to start of major gas sales from the North Slope of Alaska. Withdrawal of gas prior to the end of oil productive life may cause severe loss of hydrocarbons. The Commission will be required to rule upon offtake rates, timing, and depletion plans for the fields being developed before gas sales are approved. Significant reservoir evaluation studies will be necessary in order to accomplish these tasks. The AOGCC has completed a portion of the necessary work, but does not currently have the resources to complete these studies.

Funding:	FY2009	FY2010	FY2011	FY2012	FY2013 F	Y2014	Total
AK Cap Inc Gen Fund	\$1,500,000	\$500,000	\$500,000				\$1,500,000 \$1,000,000
Total:	\$1,500,000	\$500,000	\$500,000	\$0	\$0	\$0	\$2,500,000
State Match Required 🔲 One-Time Project 🗌 Phased - new 🔲 Phased - underway 🗹 On-Going							
0% = Minimum	n State Match %	Required	Amendme	ent	Mental Health Bill		

Operating & Maintenance Costs:	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Additional Information / Prior Funding History:

\$1.2 million was appropriated in FY2006. \$1.0 million was appropriated in FY2008.

Project Description/Justification:

The existing AOGCC Prudhoe Oil Pool gas offtake rate rules were established at the time of commencement of production from the Prudhoe Oil Pool and are now almost 30 years old. Prior to commencement of major gas sales from the Prudhoe Oil Pool, applicable law requires the gas offtake rate to be substantiated by the most current available information. Failure to do so could result in significant waste of valuable oil resources.

Gas offtake rates have never been established for the Pt. Thomson or other North Slope reservoirs, and pool rules will also need to be adopted for these reservoirs prior to commencement of production.

The technical work and reservoir modeling needed to support current rule making will require significant time and resources to complete.

<u>Problem To</u> <u>Be Solved:</u> The AOGCC must independently evaluate depletion plans for reservoirs prior to start of major gas sales from the North Slope of Alaska. Withdrawal of gas prior to the end of oil productive life may cause severe loss of hydrocarbons. The Commission will be required to rule upon offtake rates, timing, and depletion plans for the fields being developed

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verifying the impact of major gas sales upon ultimate appropriate depletion plans for the fields, and rule up that the sale of gas does not waste hydrocarbon reso are Prudhoe Bay and Pt. Thomson fields, though ren The magnitude of the proposed work compares to \$7	e hydrocarbon recovery, o oon mitigation measures to ources. The main fields to naining fields will later be 7 million spent on consult	determine to ensure o be studied e studied. cants' studies
recovery and prevent waste of hydrocarbon resource trillions of cubic feet of gas are at stake with gas sale	es. Millions of barrels of o es from the North Slope.	il, and The State of
evaluation tools (models), recommendations concern	ning appropriate depletion	
\$1.2 million was appropriated in FY2005 and \$1.0 million	illion was appropriated in	FY2008.
30, 2011. The cost and time to complete these studie the producers' willingness to share the details of thei have full cooperation from the producers to share the this effort is anticipated to be \$4.7 million. Proposed FY2005 - \$1.2 million FY2006 - \$0 FY2007 - \$0 FY2008 - \$1.0 million FY2009 - \$1.5 million FY2010 - \$0.5 million FY2011 - \$0.5 million	es continues to be depen r reservoir studies. Assur eir technical information,	dent upon ming we
	in order to accomplish these tasks. The AOGCC has work, but does not currently have the resources to co The AOGCC has hired independent expert consultar verifying the impact of major gas sales upon ultimate appropriate depletion plans for the fields, and rule up that the sale of gas does not waste hydrocarbon reso are Prudhoe Bay and Pt. Thomson fields, though ren The magnitude of the proposed work compares to \$7 performed in the late 1970's, which led toward formut depletion plans for the Prudhoe Reservoir. These studies will enable the Commission to fulfill its recovery and prevent waste of hydrocarbon resource trillions of cubic feet of gas are at stake with gas sale Alaska will clearly benefit from acquiring the necessar responsibly develop its valuable gas resources. The consultants working with Commission staff will d evaluation tools (models), recommendations concerr and will be available for testimony in public hearings. \$1.2 million was appropriated in FY2005 and \$1.0 m This project began on March 1, 2005, and is expecte 30, 2011. The cost and time to complete these studie the producers' willingness to share the details of their have full cooperation from the producers to share the this effort is anticipated to be \$4.7 million. Proposed FY2005 - \$1.2 million FY2006 - \$0 FY2007 - \$0 FY2008 - \$1.0 million FY2009 - \$1.5 million FY2010 - \$0.5 million	before gas sales are approved. Significant reservoir evaluation studies will be in order to accomplish these tasks. The AOGCC has completed a portion of t work, but does not currently have the resources to complete these studies. The AOGCC has hired independent expert consultants to assist the Commiss verifying the impact of major gas sales upon ultimate hydrocarbon recovery, o appropriate depletion plans for the fields, and rule upon mitigation measures that the sale of gas does not waste hydrocarbon resources. The main fields the are Prudhoe Bay and Pt. Thomson fields, though remaining fields will later be The magnitude of the proposed work compares to \$7 million spent on consult performed in the late 1970's, which led toward formulation and AOGCC appro- depletion plans for the Prudhoe Reservoir. These studies will enable the Commission to fulfill its mandate to ensure grea recovery and prevent waste of hydrocarbon resources. Millions of barrels of c trillions of cubic feet of gas are at stake with gas sales from the North Slope. Alaska will clearly benefit from acquiring the necessary information with which responsibly develop its valuable gas resources. The consultants working with Commission staff will deliver technical studies a evaluation tools (models), recommendations concerning appropriate depletion and will be available for testimony in public hearings. \$1.2 million was appropriated in FY2005 and \$1.0 million was appropriated in This project began on March 1, 2005, and is expected to be completed on or 30, 2011. The cost and time to complete these studies continues to be depen the producers' willingness to share the details of their reservoir studies. Assu have full cooperation from the producers to share their technical information, this effort is anticipated to be \$4.7 million. Proposed allocation of funds are: FY2005 - \$1.2 million FY2007 - \$0 FY2007 - \$0 FY2008 - \$1.0 million FY2009 - \$0.5 million FY2010 - \$0.5 million