

BDM SUBCONTRACT FACT SHEET

CONTRACT TITLE: Resolution to Producibility Issues

ID NUMBER: G4P51726 Related WA #: 95-A14	CONTRACT PERFORMANCE PERIOD 10/15/1995 to 10/14/1996
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FUNDING (1000'S)	BDM SHARE	OTHER SHARE	TOTAL
PRIOR FISCAL YRS	0	0	0
FISCAL YR 1996	50	71 68	121
FUTURE FUNDS	0	0	0
TOTAL EST'D FUNDS	50	71	121

PROJECT DESCRIPTION:

The first step in reservoir characterization for this problem is recovery and complete analysis of a whole core. Recent publications on this Jackson trend only contain descriptions of shapes of electric logs. No cores or descriptions are available. A detailed analysis of grain size changes, sedimentary structures, and petrography through the vertical sequence of the Cole reservoir would be useful to other explorationists and producers in the trend. Interpretation of the core determines the nature and thickness of reservoir heterogeneities.

The next step in reservoir characterization is the complete analysis of the reservoirs' properties. Analyses proposed on the core include: porosity, permeability, oil saturation, capillary pressure, relative permeability, wettability, grain mineralogy, and clay mineralogy. The resulting values will help determine oil distribution with respect to different depositional facies. For example, perhaps only the beach facies contains commercial production characteristics. The engineering-type measurements, such as capillary pressure and relative permeability, will help determine the oil saturation needed to produce commercial oil cuts. Oil saturation is a function of height above water and pore throat size. These core analyses will also help calibrate open hole logs so that better log interpretations are possible when core are not taken. After the core has been analyzed, the well will be completed for production, if warranted by both log and core analysis.