

**RESERVOIR SIMULATION STUDY
EAST SHUGART (Delaware) FIELD
Eddy & Lea Counties, New Mexico**

HISTORY MATCH RESULTS

Cum Prod thru' 9/31/97	Model	Historical	% Error
Oil	2240	2172	3.1
Gas	4906	4747	3.3
Water	1081	1788	39.5

**The above match was obtained with very little changes
in Log Derived reservoir data**

**Net pay derived from logs were reduced by 20% for
GERONIMO LEASE**

NEW MEXICO GEOLOGICAL SURVEY
DIVISION OF OIL AND GAS
EXHIBIT **34**
CARENO