CALCULATION OF RECOVERABLE GAS WILDCAT QUEEN ZONE GERALDINE DOUGHTY NO. 1 LEA COUNTY, NEW MEXICO

INTERVAL	h			
3988 - 3995'	7'	Øn = 3%	Ød = 12%	Øcp = 8%
3995 - 40021	7'	Øn = 3%	Ød = 18%	Øcp = 11.8%
Sw Calculations				
		Rt	Sw	
3988 - 3995'	7'	47 .	34.7%	
3995 - 4002'	7'	60 s	20.2%	
	Sw =	27.45%		

Volumetric Gas-In-Place

Initial Bottom-hole Pressure: 2094 psi Initial Producing Temperature: 95.80 F Gas Gravity: .6 Estimated Abandonment Pressure: 400 psi

Bgi = .00615 = 162.7 SCF/FT³ Bgab = .03804 = 26.3 SCF/FT³

Recovery Factor = 83.8%

Co. 8631 F Said Revaco House 10-17-85

Recoverable Gas-In-Place 43,560 (A) (h) (ø) (1-Sw) (RF)
Bgi

Recoverable Gas-In-Place 43,560 (160) (14) (.099) (1-.2745) (.838) (160 Acre Unit) .00615

Recoverable Gas-In-Place 954,943 MCF