

CORE LABORATORIES

TEXACO INC.
FEDERAL NEFF "13" NO. 2

Field : LIVINGSTON RIDGE FIELD
Formation : DELAWARE CHERRY CANYON

File No.: 57181-15898
Date : 9-23-89

TABLE I
SUMMARY OF CORE DATA

ZONE AND CUTOFF DATA		CHARACTERISTICS REMAINING AFTER CUTOFFS	
ZONE:		ZONE:	
Identification -----	DELAWARE	Number of Samples -----	17
Top Depth -----	7145.0 ft	Thickness Represented -	17.0 ft
Bottom Depth -----	7205.0 ft		
Number of Samples -----	19	POROSITY:	
DATA TYPE:		Storage Capacity -----	206.8 ϕ -ft
Porosity -----	(HELIUM)	Arithmetic Average ----	12.2 %
Permeability -----	(MAXIMUM) Kair	Minimum -----	8.2 %
		Maximum -----	20.6 %
		Median -----	10.6 %
CUTOFFS:		Standard Deviation ----	± 3.7 %
Porosity (Minimum) -----	0.0 %		
Porosity (Maximum) -----	100.0 %	GRAIN DENSITY:	
Permeability (Minimum) ---	0.0000 md	Arithmetic Average -----	2.66 gm/cc
Permeability (Maximum) ---	100000. md	Minimum -----	2.63 gm/cc
Water Saturation (Maximum)	100.0 %	Maximum -----	2.69 gm/cc
Oil Saturation (Minimum) -	0.0 %	Median -----	2.66 gm/cc
Grain Density (Minimum) --	2.00 gm/cc	Standard Deviation ----	± 0.02 gm/cc
Grain Density (Maximum) --	3.00 gm/cc		
Lithology Excluded -----	NONE		
		PERMEABILITY:	
		Flow Capacity -----	64.9 md-ft
		Arithmetic Average ----	3.82 md
		Geometric Average -----	1.02 md
		Harmonic Average -----	0.20 md
		Minimum -----	0.02 md
		Maximum -----	33.0 md
		Median -----	1.00 md
		Standard Dev. (Geom) --	$K \cdot 10^{+0.772}$ md
		HETEROGENEITY (Permeability):	
		Dykstra-Parsons Var. --	0.514
		Lorenz Coefficient ----	0.652
		AVERAGE SATURATIONS (Pore Volume):	
		Oil -----	8.0 %
		Water -----	61.7 %