

FRAC GRADIENT ESTIMATES
 BASED ON WELL STIMULATIONS

TAMANO (BSSC) UNIT
 SECTION NOS. 10 & 11
 T-18-S, R-31-E
 EDDY COUNTY, NEW MEXICO

*Overall Migration
 1.5 in 1000 ft*

BEFORE EXAMINER STOCNER
 Oil Conservation Division
Marathon E.D. No. 4-B
 Case No. 10341

WELL	DATE	FRAC GRADIENT PSI/FT
JOHNSON "B" FED. NO. 4		NA
JOHNSON "B" FED. NO. 5	5/29/88	0.802
	8/12/90	0.700
JOHNSON "B" FED. NO. 6		NA
JOHNSON "B" FED. NO. 8	11/9/88	0.684
JOHNSON "B" FED. A/C 1 NO. 3		NA
JOHNSON "B" FED. A/C 1 NO. 7		NA
JOHNSON "B" FED. A/C 1 NO. 9	7/4/90	0.494
JOHNSON "B" FED. A/C 1 NO. 10	9/15/90	0.774
	9/20/90	0.732
SHUGART "B" NO. 1	8/30/88	0.698
	12/18/88	0.696
	8/4/90	0.831
SHUGART "B" NO. 2	4/13/90	0.574
STETCO "10" FED. NO. 1		NA
STETCO "10" FED. NO. 2	10/2/90	0.829
	10/2/90	0.786
STETCO "10" FED. NO. 3	1/3/91	0.786

AVERAGE FRAC GRADIENT		0.722

FRAC GRADIENT = (HYDROSTATIC PRESSURE + ISIP)/MID PERF DEPTH