SUPPLEMENTAL DRILLING DATA

FRED POOL DRILLING, INC. Hanagan Federal NO. 1 NW/SE, Sec.31,T19S,R30E Eddy County, N.M.

1) <u>SURFACE FORMATION:</u> Artesia Group of Permian Age. Elevation 3318 Gr.

2) ESTIMATED TOPS OF GEOLOGIC MARKERS:

	Rustler	355ft.
	Base Salt	1165
	Yates	1315
	Seven Rivers	1625
	Delaware Sand	3550
	Bone Springs	5915
3)	ANTICIPATED POROSITY ZONES:	
	Fresh water	250
	Capitan reef	2000 to 3200
	Oil and Gas	3900 to 4800; 6000 to 8400

4) CASING PROGRAM DESIGN:

INTERVAL			SIZE	WEIGHT	GRADE
0	-	350	16"	75#	K 55
0	-	1200	11 3/4	47	K 55
0	-	320 0	7 5/8	26#	K 55
0	-	9000	4½	10.5	K 55
		NURDOT	FOUT DMENT		

5) SURFACE CONTROL EQUIPMENT:

A double-ram type BOP will be used.

6) CIRCULATING MEDIUM:

Fresh water mud conditioned as necessary for control of viscosity and water loss, except the salt section, which will be drilled with brine water.

- 7) AUXILLARY EQUIPMENT: None considered necessary.
- 8) TESTING, LOGGING, AND CORING:

No coring, or DST's are planned. A mudlogging unit will be used. Electric logs will include a CNL-FDC and a DLL-RXO with GR and hole caliper.

9) ABNORMAL PRESSURE, TEMPERATURES OR GASSES:

None anticipated.

10) ANTICIPATED STARTING DATE:

It is planne that operations will commence about December 1, 1989. Duration of drilling, completion, and testing operations should be two to six weeks.