## A. P. D. (cont.) Thirteen Point Surface Use Plan Indian Hills Unit #25

## Test Frequency

- 1. When installed.
- 2. Anytime a pressure seal is broken (test confined only to affected equipment).
- 3. At least every 20 days.
- 4. Blind and pipe rams shall be activated each trip but not more than once/day.

## 4. Casing and Cement Program:

I

"

DEPTH FROM <u>TO</u>		SECTION <u>LENGTH</u>		HOLE <u>SIZE</u>	CSG <u>SIZE</u>	WT. <u>PPF</u>	<u>GRADE</u>	THREADS COUPLINGS		NEW USED
0 0	1800' 4800'	1800' 4800'		17.50" 12.25"	13-3/8" 9-5/8"	54.50# 40#	K-55 L-80	8rd, ST 8rd, LT		New New
4800'	8800'	4000'		12.25"	9-5/8"	53.5	C-75	8rd, LT	&C	New
Casing <u>String</u>	DV <u>Depth</u>	<u>Stg.</u>	Lead <u>Tail</u>	Amt <u>SXS</u>	Type <u>Cement</u>	<u>t</u>	Yield <u>CF/SX</u>	Wt. <u>PPG.</u>	<u>тос</u>	<u>Additives</u>
13-3/8"			L	100	"C"		7.15	9.5		Dia Seal
13-3/8"			L	100	Thixset		1.52	14.0		Thixset
13-3/8"			L	746	Lite		2.02	12.4	surface	2% cacl2
13-3/8"			т	300	PremP	lus	1.34	14.8		
9-5/8"	6400'	1	L	350	u	"	2.18	9.2		N2
9-5/8"	,	1	т	700	"	"	1.44	13.0		N2
9-5/8"	,	2	L	1360	Interfill	"C"	2.47	11.9		Flocele

PremPlus

1.32 14.8

Neat

200

Each stage will be preceded by an appropriate mud flush. Actual production hole volumes will be based on the caliper volume plus 20% excess.

## Centralizer Program:

2

Т

9-5/8"

9 5/8" Conventional centralizers. Bottom 3 joints and every fourth joint to surface.