A. P. D. (cont.) Thirteen Point Surface Use Plan Indian Hills Unit # 46

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:

| DEPT <u>FROM</u> | н то | SECTION LENGTH | HOLE <u>SIZE</u> | CSG <u>SIZE</u> | WT. <u>PPF</u> | <u>GRADE</u> | | NEW USED |
|---------------------|---------|-------------------|---------------------|--------------------|-------------------|--------------|-----------|-------------|
| 0 | 1200' | 1200' | 12.25" | 9-5/8" | 36.00# | K-55 | 8rd, STC | New |
| 0 | 4800' | 4800' | 8.750" | 7.00" | 23.00# | K-55 | 8rd, LT&C | New |
| 4800' | 9600' | 4800 ' | 8.750" | 7.00" | 26.00# | K-55 | 8rd, LT&C | New |

| Casing <u>String</u> | | <u>Stg.</u> | Lead <u>Tail</u> | | Type <u>Cement</u> | Yield <u>CF/SX</u> | Wt. <u>PPG.</u> | <u>toc</u> | <u>Additives</u> |
|-------------------------|------|-------------|---------------------|-----|-----------------------|-----------------------|--------------------|------------|------------------|
| 9.625" | none | 1 | L | 300 | Foam Cmt. | 1.78 | 11.2 | 100'. 🛣 | |

9.625" none T 140 "C Neat 1.35 14.8 900' 3% Cacl

This surface casing program has been approved by the OCD in Artesia by Mr. Tim Gum and Mr. Van Barton as of 11/29/01.

| 7.0" | 6300' | 1 | L | 340 | Prem. | 1.44 | 13.0 | 5600' | Foamers, N2 |
|------|-------|---|---|-----|---------------|------|------|---------|---|
| 7.0" | | 2 | L | 840 | Interfill "C" | 2.47 | 11.9 | Surface | 1/4pps Cello,3pps Gilsonite,0.2% Halad 322 |
| 7.0 | | 2 | т | 100 | "C" Neat | 1.32 | 14.8 | 6000' | N/A |