

INFORMATION REQUIRED FOR C-103

1. Well Name: Arco #1
2. Location: Sec 18, T-17-S, R-39-E, Lea Co. N.M.

3. Date: 9 JAN 1993

4. Grade, weight, and footage of pipe set: (surface)
24 #, 8 5/8, run 35' jts. (1588')

* Note change in size of pipe (from 7 7/8" as reported on C-101) and change in depth (from 1500')

5. Volume of cement slurry (cubic feet):
Lead Slurry: 970 cu ft Tail slurry: 264 cu ft

6. Brand name of cement and additives, % of additives used, and sequence of placement if more than one type of slurry used.

Lone star cement Dowell Schlumberger additives
Lead: 35/65 P O Z/C + 6% D20 + 5% D44 + 1/4 #1 sk 029

Tail: CLASS C + 2% SI

7. Approximate temperature of cement slurry when mixed
70°F

8. Estimated minimum formation temperature in "zone of interest"
85°F

9. Estimate of cement strength at time of casing test

| | | | | | |
|--------------|----------------|---------------|--------------|-----------------|---------------|
| <u>Lead:</u> | <u>50 psi</u> | <u>6 hrs</u> | <u>Tail:</u> | <u>500 psi</u> | <u>6 hrs</u> |
| | <u>200 psi</u> | <u>12 hrs</u> | | <u>200 psi</u> | <u>12 hrs</u> |
| | <u>350 psi</u> | <u>24 hrs</u> | | <u>2000 psi</u> | <u>24 hrs</u> |

10. What was the time the cement was in place prior to starting the casing test?
10 hours

11. Results of 30 minute casing test:

Pressure held on pipe 1000 psi
Any pressure drop observed? No

* changes from C-101.