

**KL FEDERAL 17-#1 FRAC**  
Empire Morrow South  
F Sec 17-17S-29E  
Eddy County, NM  
**PLN 276227-0001-01 WI: 1.000000**

AFE: Pending Amt: \$52,090

PBTD: 10,616' Zone: Morrow

Job intent: Repair tubulars; cleanout junk from wellbore;  
fracture stimulate Morrow gas zone.

1/14/94: Rpt #1: MIRU Clarke Well Service. MIRU frac tank. DC:  
\$385 Cum: \$385

1/17/94: Rpt #2: RU Pro Well Testing. TIH w/ collar stop and set  
@ 10,037'. RU AA Oilfield Services. Load tubing w/ 35 bbl  
3% KCl wtr. Check csg. Csg appeared to be on a vacuum.  
Load csg side w/ 6.4 total bbls. Press csg to 600# and held  
OK. TIH w/ Lightfoot perforator. Made two attempts to  
shoot hole in tbg. Did not work. RD Pro Well Testing. RU  
Black Warrior Wireline. Reload tbg w/ 3% KCl wtr. Shot 2  
circulating holes @ 10,070-10,070.5'. RD Black Warrior. RU  
to swab. Swab until midnight recovering 180 bbls. DC:  
\$7,491 Cum: \$7,876.

1/18/94: Rpt #3: Continued swabbing. Rec total of 195 bbls. RU  
AA Oilfield Services. Pump 100 bbls 3% KCl w/ clay  
stabilizers down casing. Tried to unset packer. Could not.  
Get off on-off tool. Allow pressure to equalize on annulus  
and tubing. Latched back onto packer. Unset packer. Lower  
tubing (141') and tagged lower packer at 10,449'. TOOH and  
remove Vann assembly attached to packer. All shots had  
fired. Tape measure broke during day, and complete tubing  
tally not available until tomorrow. In am will run  
redressed packer back in hole. Will test tubing to 5000# and  
put well back together as it was before workover. DC: \$4005  
Cum: \$11881 {NOTE: About noon on the 18th, it was  
discovered that Tenneco in 1987 had recompleted this well to  
the Atoka and commingled with the Morrow. Tenneco had filed  
all the intents with the NMOCD and BLM. They also had filed  
a commingling application, but there is no verification that  
an order to commingle was ever issued. Both the NMOCD and  
BLM are still researching this issue. There is no trace of  
any of the workover in our files we received from Tenneco,  
nor any trace of the state or BLM files. After this  
information was discovered, it was decided to abort the  
workover, and put the wellbore back into its original  
condition).

1/19/94: Open well. TIH testing tbg to 5000# above slips. RIH w/  
redressed 5-1/2"x2-3/8" Baker Lokset packer with a new on-  
off tool. Packer accidentally set 2-3 times while RIH. Set