STATE OF CALIFORNIA

PETE WILSON, Governor

AIR RESOURCES BOARD
2020 L STREET
P.O. BOX 2815
SACRAMENTO, CA 95812

April 25, 1994

Mr. Wayne Tarpley
Engineering Manager - Dispensers
Schlumberger Technologies
1300 Bicentennial Drive
Post Office Box 280
Bonham, Texas 75418

#94-8

Dear Mr. Tarpley:

Certification of Schlumberger 4000 Series Dispensers using Gilbarco VaporVac Vapor Assist System

You requested California Air Resources Board (CARB) certification of the Schlumberger 4000 series dispensers using the certified Gilbarco VaporVac retrofit vapor recovery assembly.

The Schlumberger 4000 series dispensers were formerly a product of Southwest Pump company which was acquired by Schlumberger in April of 1992. Recently, Schlumberger has entered into a license agreement with Gilbarco, allowing Schlumberger to install VaporVac into its 4000 series Dispenser. The 4000 series dispensers were previously CARB certified for Balance vapor recovery systems by Executive Order G-70-52-AM, Exhibit 10 (refer to approval letter #92-25). It was the task of CARB staff to test and ensure that the Schlumberger 4000 dispensers equipped with VaporVac functioned equivalent to the certified Gilbarco dispensers with respect to vapor recovery.

Schlumberger provided the necessary additional circuitry in order to ensure electronic "communication" with the 4000 series dispenser central processing unit and the Gilbarco VaporVac unit. The additional circuit boards added to ensure dispenser/VaporVac Interface consists of a VaporVac Interface board installed in the dispenser canopy and a Pulser Signal Amplifier installed in the dispenser computer area. The interfacing circuit also ensures that error signals from VaporVac are read and repeated by the Schlumberger 4000 series central processing board.

CARB staff also verified that the vapor recovery system of the Schlumberger 4000 series dispensers with Gilbarco VaporVac functioned equivalent to the certified units. CARB staff conducted air to liquid ratios of the 4000 series dispensers, using the same type of bootless nozzle and hose as the certified vapor recovery system, and found the performance

of the 4000 series dispensers to meet the A/L data of 1.00 to 1.25 as specified in Executive order G-70-150-AB.

As required by the Air Resources Board certification procedures, you requested the approval of the Division of Occupational Safety and Health, the Office of the State Fire Marshal and the Department of Food and Agriculture, Division of Measurement Standards. The necessary approvals have been obtained from these agencies.

I find that the use of the Schlumberger 4000 series dispenser with Gilbarco VaporVac, when installed in accordance with the manufacturer's instructions, will not adversely affect the performance of vapor recovery systems on which they are installed. Based on my staff's analysis and testing, I also find the Schlumberger 4000 series dispenser equipped with Gilbarco VaporVac equivalent to the certified Gilbarco VaporVac bootless nozzle vapor recovery system as contained in Executive Order G-70-150-AB. Therefore, I certify the following model number matrix for the Schlumberger 4000 series dispenser:

4abc - yz - s - VG

"a" = 1 thru 4 (Number of products on the front side)
"b" = 0 thru 4 (Number of products on the back side)
"c" = 0 thru 3 (Number of hoses per side)
"y" = 2 thru 7 (Computer options)
"z" = A; D; or none (Computer options)
"s" = B; L; R; -B-L; -B-R; -L-R; -B-L-R; or no characters (optional features)
VG = VG (Gilbarco VaporVac vapor recovery system)

The above dispenser model matrix number will be added to the Gilbarco Executive Order G-70-150-AB at the next revision.

If you have any questions, please feel free to call Jorge Fernandez at (916) 445-0383 or Laura Sullivan McKinney at (916) 327-1525.

Sincerely,

James J. Morgester, Chief
Compliance Division

cc: Vapor Recovery Technical Committee
Mr. Craig Hartsell, Gilbarco