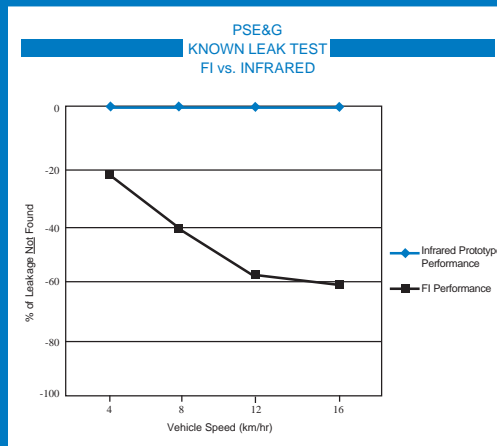
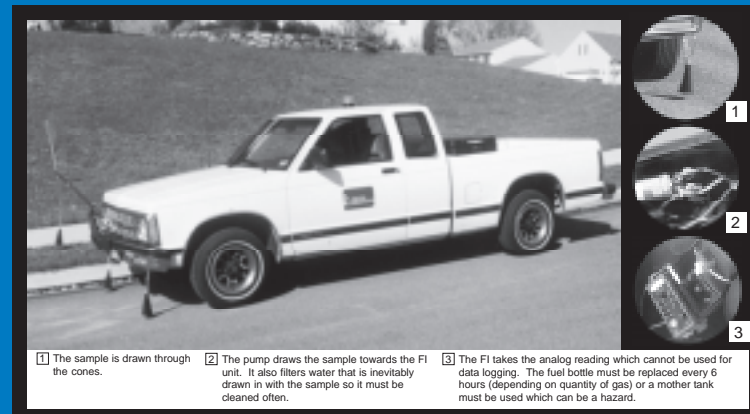
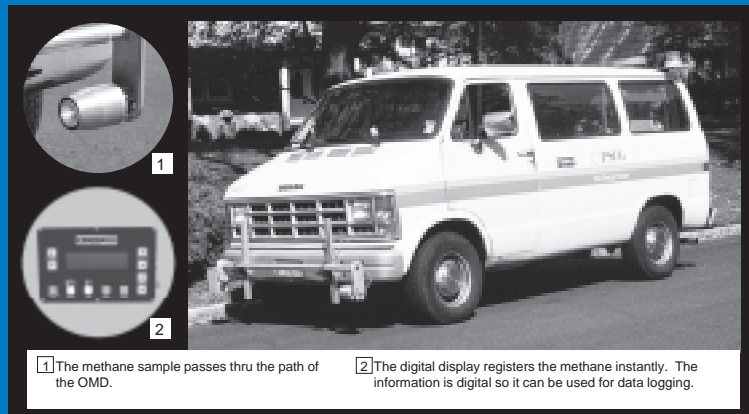


OMD™: LEAK SURVEY'S ROAD TO THE NEW MILLENNIUM

by George Ragula

Public Service Electric & Gas Company, New Jersey, USA



PSE&G DIRECT COST SAVINGS COMPARISON (US DOLLARS)

	1997 FI	1999 OMD
Mobile Survey Leaks Per Mile	0.05	0.07
Mobile Survey Leak Receipts		
Type 1 (Most hazardous)	121	180
Type 2	201	508
Type 3 (Least hazardous)	367	337
Total Mobile Survey Leak Receipts	689	1025
Total Leak Receipts	8141	7514
Leaks Reported by Public	36.10%	30.90%
Leaks Detected by Mobile Survey	8.50%	13.60%
Leaks Detected by all Leak Survey (Includes walking, special, etc.)	46.30%	52.30%
Mobile Survey Mandays	774	522
Mobile Survey Productivity (Miles per day)	18.9	28
(Total Mandays saved 774-522=252)		148%
Direct Annual Cost Savings (at \$42 per hour x 8 hrs x 252)	\$84,672	
Fully Loaded Cost Savings: (at \$81.73 per hour)	\$164,772	

PSE&G SPEED TEST RESULTS FI vs. INFRARED PROTOTYPE January 12, 1995

Vehicle Speed (km/h)	FI Response	Infrared Prototype Response
24	Yes	Yes
32	No	Yes
40	No	Yes
40	No	Yes
48	No	Yes
48	No	Yes

This table illustrates the results of operating the two leak detection units in parallel. In addition to the productivity benefits associated with the increased vehicles speed during the testing, an immediate responses of the infrared equipment was observed as opposed to the lag time normally associated with the conventional FI equipment.