

# BDM SUBCONTRACT FACT SHEET

**CONTRACT TITLE:** Computerized Well Monitoring System - Aid to Independents

<b>ID NUMBER:</b> G4P60318  <b>Related WA #:</b> 95-A14	<b>CONTRACT PERFORMANCE PERIOD</b>  04/30/1996 to 12/31/1997
<b>DOE MONITOR</b>  <b>NAME:</b> Betty J. Felber <b>PHONE:</b> (918) 699-2031	<b>PERFORMER</b>  <b>COMPANY:</b> James Engineering, Inc.  <b>CONTACT:</b> Gene Huck <b>ADDRESS:</b> James Engineering, Inc. 231 Third Street Marietta, OH 45750  <b>PHONE:</b> (614) 373-9521 <b>FAX:</b> (614) 373-2750
<b>BDM TECHNICAL MANAGER</b>  <b>NAME:</b> Herb Carroll <b>PHONE:</b> (918) 337-4558	

FUNDING (1000's)	BDM SHARE	OTHER SHARE	TOTAL
PRIOR FISCAL YRS	47	47	94
FISCAL YR 1998	0	0	0
FUTURE FUNDS	0	0	0
<b>TOTAL EST'D FUNDS</b>	<b>47</b>	<b>47</b>	<b>94</b>

**PROJECT DESCRIPTION:**

Develop a simple software to download production forecasts from major commercial reserve analysis software and upload production information from a field or group of wells. Compare actual production with forecast values to identify production declines. This information will be made available to field personnel so they can identify problems quickly and correct deficiencies as soon as possible. This timely transfer of information would be extremely helpful to small to mid-sized producers with lean staffing.

**Accomplishments:**

A computer monitoring and prediction remedial work forecast software package has been developed and is in the trial/evaluation process for 240 wells. Preliminary results are favorable.

A paper describing the software developed was presented at the October 1997 SPE Eastern Regional Meeting in Lexington, Kentucky. The paper included wells successfully identified and corrected by the program. The program also has identified and evaluated many additional wells to determine if production is being optimized.

Modifications to the program, now renamed Priority, have included an action column to aid in the follow-through of wells identified for remedial work. Additional changes have been made to facilitate data entry from sources other than Aries. This helps smaller operators who do not have the more sophisticated software packages. Priority was placed on the DOE Website and is available to small operators at [www.npto.doe.gov](http://www.npto.doe.gov).

The overall results of the program are as follows: During a five-month production period at the end of 1996 and the start of 1997, total production for the 250 wells increased by approximately 5 1/2 % of the same period in 1995 and 1996. It should be noted that the nominal decline for these wells is approximately 6% per year. Although all production increases may not be directly attributable to Priority, they are indirectly attributable. The indirect increase was because of consistent production monitoring, which caused a change in the attitudes and actions of all participants. Monthly accountability swiftly corrected many problems that previously had gone unaddressed.