ARIES™ RMS

Overview
ARIES™ RMS is the specialized Reserves Management System that works directly with ARIES economics evaluation software (including ARIES Modeler) and other sources to give you a powerful way to evaluate, approve, reconcile, track and report petroleum reserve and resource values and revisions. It employs a standard, secure process to give you increased control and accuracy, and features built-in government and corporate reports to save you time and effort.

RMS aids technical personnel in preparing reserves and increases management understanding and control of the results. It increases transparency through advanced capabilities such as a second, high level approval process for reserves booking and the option of locking down all reserve and production values that contributed to the result. The software simplifies aligning with the RMS definitions by providing up to 50 company-specified reserve and resource categories.

The RMS tool makes it easier to provide both year-end reports and interim updates for management, comply with requests for values from partners or other company departments, produce engineering details, and more. By offering more choices and more power, the RMS software helps satisfy the growing need of companies to run reserve updates quarterly or even monthly.

Benefits
Increased confidence and transparency
The structured use of information from the central database reduces data redundancy, error-prone re-entry and un-auditable mixtures of spreadsheets. The company controls the authority of who can approve reserve changes, and RMS requires documenting of every booking event.

Higher productivity and efficiency
RMS software works seamlessly with economic reserve results from standard ARIES evaluation runs, volumetrics, and manual entries. Meaning, the hundreds or thousands of your regular property evaluations can be used directly by the RMS tool.

Quality checks
To help you decide if proposed new reserves are reasonable, RMS software automatically reconciles them with prior values and new production volumes from the database to calculate and display the corresponding revision amounts for every value prior to approval.

Works like you do
Adapts to your business processes by letting you define the reserve phases you want to manage, the reserve and resource categories, and the acceptable revision codes.

Company defined settings for phase names and sources, change codes, and reserve categories.

Up to date
You can update reserves at various times during the year and then easily consolidate them to a common effective date using live ties to the production database.
Features

Data compatibility
ARIES RMS Supports the ARIES Classic Data Model and the Engineer’s Data Model™, both of which enable corporate sharing of information among authorized users. Within the database the reserve tables are kept separate from the economic tables.

Open database system
Operates on industry standard relational database systems using:

- Microsoft® Access for single users on the ARIES Classic Data Model
- MS SQL Server, SQL Server Express, and Oracle® databases in multi-user client/server environments
- Supports optional Citrix implementations

Multiple phases and ownerships
Can compute, store and report gross, working interest, and net volumes for up to ten phases, based on netting factors calculated within the ARIES software or entered by the user.

Multiple sources for reserves
Reserve or resource update proposals can originate from economic runs, volumetric parameters, P/Z material balance results, or manually entered values.

Dynamic link to production
RMS software has live links to production history and forecast values in the database:

- Can adjust reserve values to any month to enable shifting the report date or consolidating values that were booked for different effective dates
- Updates your previous volumetric and manual proposals to the effective date of your new economic runs so you can properly compare them for consistency

Booking processes
Several features provide a logical progression for reserves approval, including methods to view or print the “impact” of revision amounts calculated from your new proposals, before you approve them:

- Detail booking – Displays the detailed calculations for your reserve revisions for each property, and lets you approve them when ready
- Mass booking – Displays summaries of the revisions for every active property in your project so you can efficiently approve many properties at once
- Booking memos – Allows creating or reviewing the required approval documentation for each event, as both individual memos for specified properties or common memos that can be shared by many
- Final approval – Locks down the reserves and associated production and forecast volumes to prevent any changes in the working database from affecting the data

Reclassify volumes
Moves the volume for a property from one reserve category to another, such as from PUD to PDP, and records both the removal from the former category and the addition to the new category. Requires booking authority and event documentation.

Security
System access requires login ID and password, and provides four levels of role-based activity:

- User – View and report values, enter memos
- Booking – Adds booking and reclassify
- Freeze – Adds final approval
- Admin – Controls security and database

Based on the Project List, we display the pre-book results for several properties, select one to examine the calculation details, and create its booking memo before we formally approve the new values.
Results and presentation

The reserve-related volumes are stored in the data tables and reported based on the hierarchy (properties and totals) specified within the project:

- Proposed values are stored in the economics and volumetric tables in the working database and displayed using normal ARIES reports.
- Booked (and final) volumes, revision amounts, booked forecasts and event documentation are stored in the reserve tables and reported using RMS software.
- RMS reports are available in library of formats covering gross, net and working interest values for the various phases.
- Reserve status reports present the remaining reserve volumes as of a requested effective date.
- Reserve reconciliation reports present the beginning and end-of-period reserves and the period production, and categorizes all the interim revision amounts.

A preview of one style of reconciliation report, displaying beginning and ending balances and the revision and production components for the specified period.

- EIA-23 reporting prepares field-level summaries by operator for direct submittal to the U.S. DOE.
- Audit screens display the complete events history of booking, reclassification and final approval.

### System Requirements

#### Hardware
- Intel Pentium 1 GHz processor or greater
- 1 GB RAM or greater
- 1024 by 768 graphics resolution or greater
- 200 MB hard disk space (780 MB additional for running on EDM)
- DVD for optional local workstation installations

#### Operating Systems
- Windows® XP Professional SP3 (32- or 64-bit) or Windows 7 (32-bit)

#### Software
- ARIES System or ARIES Economics
- Adobe® Acrobat® Reader® 7+ to view documentation

#### Databases
- Microsoft Access® 2003 or 2007 database (Classic Data Model only)
- Microsoft SQL® Server Express database
- Microsoft SQL® Server 2005 or 2008 database
- Oracle® 10g or 11 database

#### Related Products
- ARIES System
- ARIES Modeler