

Offshore Drilling Module

Capability Overview



Today's economic environment demands tighter control of budgets and a greater understanding of project costs as early in the project development phase as possible. Bayphase, a leading international oil and gas consultancy, provides upstream field development solutions and decision support through rapid cost estimating.

Oil & Gas Cost Estimating Software





Cutting Edge Cost Estimation Analysis

NETCO\$TER provides rapid and accurate cost estimates for oil and gas wells; including those for exploration, appraisal and development. It is a cutting-edge software tool developed and used by Bayphase to carry out technical definition and generate costs for all types of offshore well: vertical, deviated and horizontal.

The system is based on data gathered from a wide range of international projects executed by the company over the past 30 years. It is the result of an in-house programme to leverage this significant bank of knowledge and experience built up within Bayphase over numerous studies.

Technical Capabilities

NETCOSTER is used worldwide in feasibility and concept selection studies to provide engineering definition and cost estimates for field development.

It has been developed to meet the constantly changing needs and challenges of the upstream market, it keeps Bayphase ahead of the opposition through delivering estimates consistently and efficiently.

The program's engineering algorithms are based on sound engineering principles and experience derived from the development of actual offshore wells in many of the world's oil and gas provinces.

Sophistication

NETCO\$TER provides a consistent, global platform for concept screening and optimisation and costcontrol. Apart from using it in-house, we have a global network of field development experts who use our **NETCOSTER** software platform to provide engineering definition and life-cycle cost estimates for field development concepts. This easy to use tool saves hundreds of hours of in-house research and analysis time.

Speed and Accuracy

NETCO\$TER also enables sound project cost modelling and evaluation. It allows our clients to make well-founded concept decisions for their development projects thereby increasing efficiency during execution and decreasing risk. It contributes greatly to successful project planning.

It has been benchmarked against many actual wells – contact us for more details on this.

The **NETCO\$TER** cost estimation system is modular in form and is used to estimate costs for the full range of oil and gas projects:

- Small, large and giant fields
- Oil, condensate and non-associated gas
- Any international location
- Sweet and sour fields

It has been deployed as a corporate modelling solution for large and small companies, and has proven to be invaluable in:

- Equity research
- Portfolio analysis
- Business development
- Mergers and acquisition
- Benchmarking
- Competitor analysis





Framework

The **NETCOSTER** framework delivers a powerful and intuitive functionality that is core to all the estimation modules. Bayphase's framework approach delivers a powerful solution to cost modelling by utilising a number of key features:

- Transparent models developed entirely in Microsoft Excel. This delivers a consistent and familiar user interface and experience. It also takes advantage of Microsoft Excel's more advanced features therefore minimising systems requirements for running the software. Only Microsoft Office 2007 or above is required.
- There are no significant memory disk space requirements.
- Use of first principles algorithms to automate design, sizing and weight estimating for facilities takes the guess work out of cost estimation and delivers accurate results rapidly.
- The cost modules are updated twice per year through reference to market databases, supplier quotations and cost trends identified by Bayphase. In addition, key cost rates are monitored on a quarterly basis and users are given access to this data to enable them to develop fully up-to-date estimates.

Cost Categorisation

NETCOSTER provides a breakdown of the costs. The data base follows a categorisation that is applied to all modules. This categorisation is strictly maintained as all past projects have been analysed using this matrix to provide consistency. In addition, it broadly follows categorisations used by vendors and industrial cost data bases available in the market place.



Data Input and Technical Database

NETCOSTER uses primary input data such as, reservoir depth, gas oil ratio and well prognosis. In addition, built in choices can be selected and customised to best fit user data. Once the well configuration data is input or chosen, a cost estimate is run.

What it does:

- It allows the user to estimate cost for virtually any type of well configuration determined by the user. The User inputs the well data the more specific the data is the more accurate the estimate will be and follows a series of steps to define the offshore drilling configuration. Well types covered include:
 - Exploration
 - o Appraisal
 - o Development
- The program provides a number of cost data bases for the world's key oil and gas provinces but users can customise these to generate their own databases (up to three) based on their own experience.
- Users can consider intricately tailored logging and testing programs for exploration drilling as well as completion methods and types. They can also add their own log types.
- Users can choose between using platform based rigs and mobiles drilling units:
 - o Barges
 - o Jack-ups
 - o Semi-submersibles
 - o Drill ships
- Users can consider wells drilled in all water depths encountered in the offshore industry including:
 - o Shallow Water
 - o Normal Depth
 - o Deep Water
 - o Ultra-Deep Water
- Users can access vertical, deviated and horizontal wells and the system will generate a drilling profiles fully reflective of these considerations.
- Once the easy to follow steps have been completed, **NETCO\$TER** provides a breakdown of the drilling costs.
- The cost database is driven by past data and as such uses a series of algorithms to determine cost

of casing, completions, drilling durations and completion times.

Key benefits:

- The user can input actual observed field data to model real cases.
- The input data can be varied for sensitivity analysis and enable users to understand the key drivers of a well's cost.

Project Wizard

A powerful component of the **NETCO\$TER** interface, the wizard guides the user through all steps required to create and estimate well costs.

What it does:

- The wizard provides step-by-step guide for creation of a well cost estimate through simple user dialogue screens
- Enables the user to enter all data, with the assistance of additional intuitive wizards and messages
- Allows users to create their own cost databases that allow tailored estimates based on local experience to be made.

Key benefits:

- Quick and easy to use.
- Ease of navigation through the model.
- Useful for both expert and novice users alike.

Screening and Reporting

NETCOSTER powerful screening and reporting tools can be used to present the results of analysis, allowing users to easily compare findings from multiple wells calculated under different scenarios.

What it does:

- Produces reports including: Well Cost Breakdown, Technical Data, Drilling Profiles, Cost Schedule, and Investment Profile.
- A built-in scheduling tool allows the user to schedule costs to provide project cash flows.
- Reports can be printed or exported to spreadsheets

Key benefits

- Quick and easy to use.
- Enables users to use the output reports in other cost estimating programs.

An integrated cost estimating solution that improves reliability, optimises performance and reduces cost and cycle time during the concept appraisal and selection phases for oil and gas companies worldwide.

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Modifications S 10 % 10 % Sub Total Engineering and Project Alangement Cost 177.003 Certification 8.825.000 \$ 1.5 % 1372.000 Contingency 8.957.000 \$ 10 % 3895.000 Engineering, Project Management, Certification and Contingency Total 1.205.000 Total Project Cost	Well Design	500 hrs	210 USD/hr	165 686
Sub Total Engineering and Project Management Cost 177,000 Sectification 8.825 000 \$ 15.5% 132,000 Contingency 8.957,000 \$ 19.% 880,000 Engineering, Project Management, Certification and Contingency Total 1,205,000 Total Project Cost	Modifications	\$	10 %	
Contingency 0,02,977 2 1.3.7% 132,000 Contingency 8,957,000 S 10 % 885,000 Engineering, Project Management, Certification and Contingency Total 1226,000 Total Project Cost 9,883,000	Cartification	Sid	Total Engineering and Project Management Cost	177,000
Engineering, Project Management, Certification and Contingency Total 1,205,000 Total Project Cost 9,853,000	Contingency	8,957,000 \$	1.3 % 10 %	896.000
Total Project Cost 9,883,000		Engineering, Project M	anagement, Certification and Contingency Total	1,205,000
	8		Total Project Cost	9,853,000

Total Project Cost: Offshore Drilling Module

ALC: NOT THE

Page 1 of 1



NETCO\$TER Offshore Drilling Module uses a Graphic User Interface that allows Users to input case data to arrive at their cost estimate. For illustrative purposes a number of screen shots from the program are provided below.

Opening User Form

This is the first form seen by the User when running a case allowing them to view the process units that can be handled by the program, it also provides the ability to access the results on completion of the cost estimating run.

NETCO\$TER Offshore Drilling Module, Version 1.1:	15 August 2013, 16:40:34	
NAVIGATION BAR	FRONT PAGE	<u>_</u>
PROJECT DETAILS		
DRILLING COSTS & WELL DATA	SELECT AN OPTION BELOW TO PROCEED	
RIG TYPE & LOGISTICS	Pure National Contractions	
DRILL STRING DEPTH	Drilling Module Open Saved Case Exit	
CASING SETTINGS		
LOGGING SETTINGS		
ADDITIONAL TESTS & COMPLETION		
COMPLETION & WELL HEAD		
SUMMARY PAGE		
NETCOSTER		-
		<u> </u>

Project Definition User Form

This form is used by the User to define the key parameters of the case for file accessing and cost scheduling purposes.

NETCO\$TER Offshore Drilling Module, Version 1.1: 15 Augu	ist 2013, 16:40:34			x
NAVIGATION BAR		PROJEC	CT DETAILS	
PROJECT DETAILS		Project Title	North Sea	
DRILLING COSTS & WELL DATA		ldentifier User Name	North Sea Well-1 Bayphase	
RIG TYPE & LOGISTICS		Start Year For Cost Schedulling Run Date	2015 15 August 2013, 16:40:34	
DRILL STRING DEPTH		Currency	USD	
CASING SETTINGS				
LOGGING SETTINGS				
ADDITIONAL TESTS & COMPLETION				
COMPLETION & WELL HEAD				
SUMMARY PAGE				
NETCOSTER		ок	Escape	-
•				•

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