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2014 SURVEY OF OFFSHORE NON-CHEMICAL FLOW ASSURANCE SOLUTIONS

Products & Systems Methodologies

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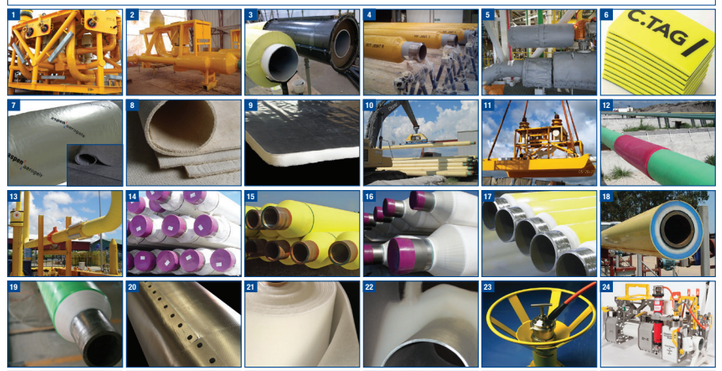

NOTES:

A. Specific heat and density of materials are provided as available from vendors. These characteristics have a strong influence on cool-down time.

B. Although extremely important to flow assurance, pigging issues have not been included in this survey.

F: Flowline
R: Riser
W: Well
T: Tree
JPR: Jumper
JT: Joint
M: Manifold
HP/HT: High Pressure / High Temperature
PL: Pipeline
OD: Outer Diameter
PIP: Pipe-in-Pipe
CAPEX: Capital Expenditure
OPEX: Operating Expenditure
INSTEX: Installation Expenditure
FIELD PROVEN: Previously Used in Field
PROTOTYPE: Passed Onshore Test Program
CONCEPTUAL: Design Only
U-VALUE: Overall Heat Transfer Coefficient
ATD: According to Design
MIN: Minimized

CONVERSION FACTORS:

Length: 1 in. = 25.4 mm
1 ft. = 0.305 m
1 mile = 1,609 m

Thermal Conductivity: 1 Btu/(hr-ft. °F) = 1.73 W/(m-K)

U-Value (Heat Transfer Coefficient): 1 Btu/(hr-ft².°F) = 5.67 W/(m².K)

INFORMATION ACCURACY: Every attempt has been made to locate all companies, their products and services, which provide non-chemical flow assurance solutions. No company was intentionally excluded from the survey. We make no guarantee that this list is all inclusive. We have been careful to summarize the characteristics and experience of each company as well as possible, by acting as a neutral party and integrator of information. We have collected information from each company, phone interviews and personal interviews. Neither McDermott Subsea Engineering nor *Offshore* Magazine guarantees or assumes any responsibility or liability for any reliance on the information presented.

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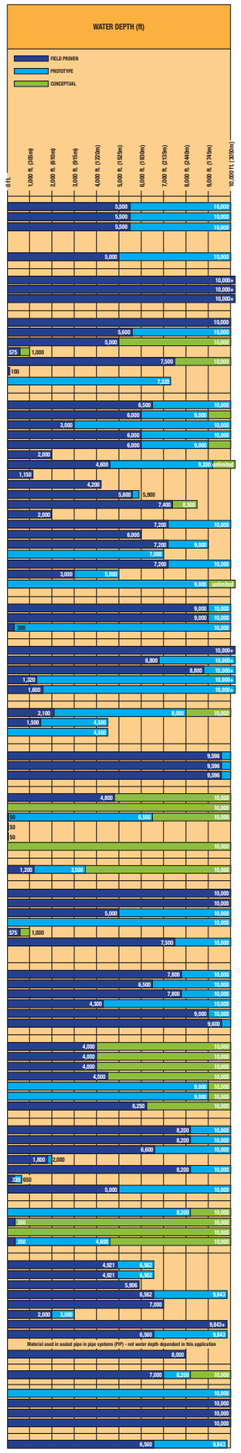

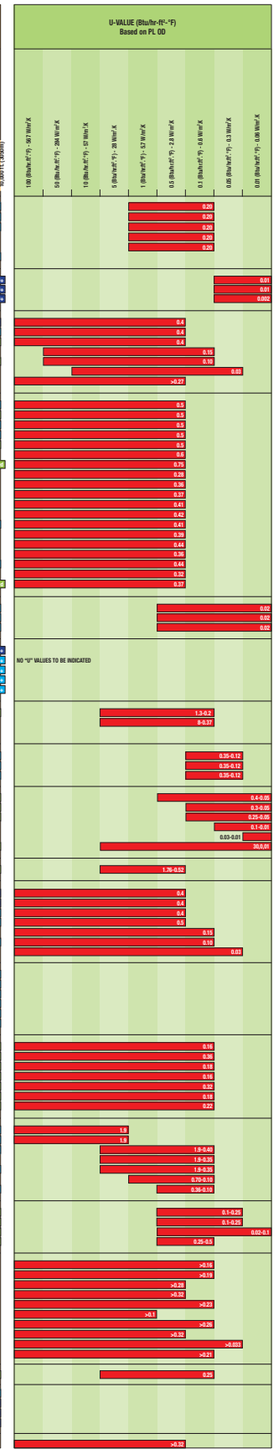

| | VENDORS | ISSUES | | | | SOLUTION TYPES | | | |