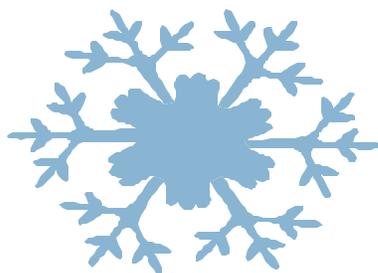
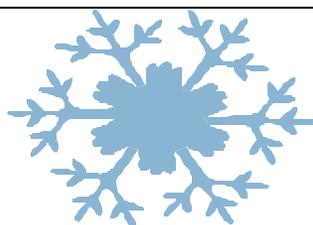

4. *Eddie T. Cousins, Conoco, Inc.*

Industry Perspectives



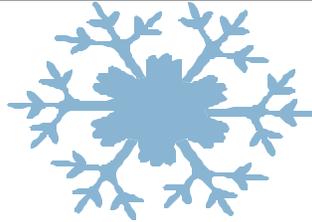
Eddie Cousins
Deep Water
Technology-
Houston, 8/9/00



Hydrates
Good News?
Bad News?
What News?



Houston, 8/9/00



Seafloor and near-seafloor hydrate accumulation is not well known in the industry. Can you say Chemosynthetic Community?



Houston, 8/9/00



Most, almost all reference material on hydrates in house is related to hydrate flow assurance problems and remedies. Inside the pipe rather than outside the pipe.



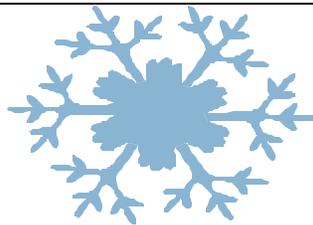
Houston, 8/9/00



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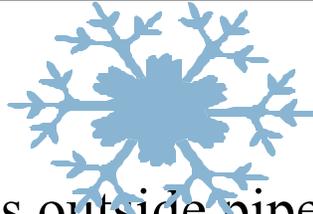
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Hydrates inside the pipe are bad news, but we do know how to deal with these.



Houston, 8/9/00



Hydrates outside pipe can be good news or bad news but either way we lack experience and knowledge about how to deal with seafloor hydrates outside pipe



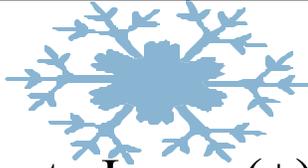
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Hydrate Issues(-):
Foundation Instability
Drilling Hazards
Equipment Failure
Early Detection and Location



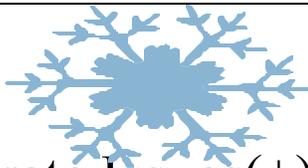
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Hydrate Issues(+):
Aid to exploration efforts
Potential Energy Resource
Possible Gas Storage Solution
How much hydrocarbon can a
chemosynthetic community eat?



Houston, 8/9/00



Hydrate Issues(+):
Can hydrate accumulations
provide foundations?
Remote power buoy fuel?
"Imagination is more important than
knowledge" A.E.



Houston, 8/9/00