

Assessing the Technology Needs of Sub-economic Resources

***Phase I: Greater Green River
and Wind River Basins
-Fall 2002-***



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Table of Contents

- **Summary & Background Materials**



- Overview of Past Resource Assessments**



- GSAM Facts Sheet**



- GasTIPS article, Summer 2002**



- PowerPoint Presentation, presented at the August 2002 COGA conference, Denver, CO**

- **Detailed Geologic Analyses**



- Greater Green River Basin (GGRB)**



- Wind River Basin (WRB)**

- **Model Inputs and Analyses**



- Greater Green River Basin (GGRB)**



- Wind River Basin (WRB)**



- Final Report, GGRB & WRB**



Geologic Analyses

Greater Green River Basin

Type Log

Lines of Section **Reference Map**

• **Net Sandstone** **Isopach Maps**

-  Lewis 3
-  Lewis 4
-  Lewis 5
-  Lewis 6
-  Lewis 7
-  Lewis 8
-  Almond A
-  Almond B1
-  Almond B2
-  Almond B3
-  Almond B4
-  Almond C
-  Frontier 0
-  Frontier 1
-  Frontier 2A
-  Frontier 2B
-  Frontier 3,4
-  Frontier 5
-  Muddy
-  Dakota
-  Morrison

• **Net Sandstone Isolith Maps**

-  Lance UOA
-  Lewis UOA
-  Almond UOA
-  Ericson UOA
-  L. Mesaverde UOA
-  Frontier UOA
-  Dakota UOA

• **Stratigraphic Cross** **Sections**

-  N-S Lewis UOA: A-A'
-  W-E Lewis/Almond UOA: B-B'
-  W-E Lewis/Almond/Ericson
UOAs: C-C'
-  N-S Lewis/Almond/Ericson
UOAs: D-D'
-  W-E L. Mesaverde UOA: E-E'
-  N-S L. Mesaverde UOA: F-F'
-  N-S L. Mesaverde UOA: G-G'
-  N-S Frontier/Dakota UOA: H-H'
-  N-S Frontier/Dakota UOA: I-I'
-  N-S Frontier/Dakota UOA: J-J'
-  W-E Frontier/Dakota UOA: K-K'
-  W-E Frontier/Dakota UOA: L-L'

• **Structural Cross Sections**

-  W-E Lance UOA: M-M'
-  GGRB Basin Cross Section N-N'

Model Inputs and Analyses

Greater Green River Basin

-  **UOA Area Map**
-  **Federal Land Access Map**
- **Drilling Mid-Point Maps**
 -  Lance UOA
 -  Lewis UOA
 -  L. Mesaverde UOA
 -  Frontier/Dakota UOA
- **Pressure Maps**
 -  Lewis UOA
 -  Mesaverde "Almond UOA"
 -  Frontier UOA
- **Structural Complexity Maps**
 -  Lewis UOA
 -  Mesaverde "Almond UOA"
 -  Frontier UOA
- **Model Inputs**
 -  Tabular Data by Depth
 -  Histograms



Geologic Analyses

Wind River Basin

Type Log

Lines of Section Reference Map

- **Stratigraphic Cross
Sections**

-  E-W U. Cretaceous
UOA: A-A'

-  N-S U. Cretaceous
UOA: B-B'

-  N-S U. Cretaceous
UOA: C-C'

-  W-E Frontier-Muddy:
D-D'

-  N-S Frontier to
Tensleep: E-E'

- **Structural Cross
Sections**

-  WRB Basin Cross
Section F-F'

- **Net Sandstone
Isopach Maps**

-  Frontier 1,2

-  Frontier 3

-  Frontier 4

-  Frontier 5

-  Muddy

-  Lakota-Morrison

- **Net Sandstone
Isolith Maps**

-  Lower Fort Union UOA

-  Lance UOA

-  Meeteetsee-Mesaverde
UOA

-  Frontier UOA

-  Muddy UOA

-  Nugget UOA

-  Tensleep

Model Inputs and Analyses

Wind River Basin

UOA Area Map

- **Drilling Mid-Point Maps**

-  Fort Union UOA

-  Lance UOA

-  Meeteetsee-Mesaverde UOA

-  Frontier UOA

- **Pressure Maps**

-  Fort Union UOA

-  Lance UOA

-  Meeteetsee-Mesaverde UOA

-  Frontier UOA

- **Structural Complexity Maps**

-  Fort Union UOA

-  Lance UOA

-  Meeteetsee-Mesaverde UOA

-  Frontier UOA

- **Model Inputs**

-  Tabular Data by Depth

-  Histograms

