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**The Ground Water Protection Council
Presents:
Making Water Produced During Oil and Gas Operations a
Managed Resource for Beneficial Uses
October 16-17, 2002 * Colorado Springs, CO**

Purpose ... to explore innovative approaches to handling oil & gas produced water.

Wednesday, October 16 - Agenda

7:30-8:30 Registration & Morning Reception	
8:30-10:00	Opening Session Moderators Lori Wrotenbery , Director, New Mexico Oil Conservation Division and Mike Paque , GWPC Executive Director -Welcome -- Brian Macke , Colorado Oil & Gas Conservation Commission -Keynote -- Senator Jeff Bingaman , New Mexico -Overview of Issues Related to Handling and Beneficial Use of Produced Water – Bill Bryson , Kansas Geological Survey -Overview of Coal Bed Methane Development, and Associated Environmental Issues of Concern – Dan Arthur , ALL Consulting -Charge to participants - Lori Wrotenbery , Director, New Mexico Oil Conservation Division
10:00-10:20 Break	
10:20-11:15	State Panel Discussion (Beneficial Water Re-use Issues: Current Practice, Policies, Barriers, etc.) New Mexico – Lori Wrotenbery Utah – Gilbert Hunt Wyoming – TBA Colorado – Brian Macke Montana – Tom Richmond California – Mike Stettner
11:15-12:00	Federal Panel Discussion (Beneficial Water Re-use Issues: Current Practice, Policies, Barriers, etc.) Bureau of Land Management – Jim Burd & Matt Janowiak US Department of Energy – Peter Lagiovone US Environmental Protection Agency – Bruce Kobelski & David Hogel US Forrest Service – TBA
12:00-1:30	Networking Luncheon
1:30-4:30 Concurrent Sessions Moderators	
	Produced Water – General Moderator – Bill Bryson , Kansas Geological Survey
	Coal Bed Methane Produced Water Quality and Treatment Moderator – Fred Jones , Marathon Oil Company
1:30-2:00	Evaluation of Technical and Economic Feasibility of Treating Oilfield Produced Water to Create a "New" Water Resource – Roger Funston , Kennedy/Jenks Consultants
2:00-2:30	Overview of Texas A&M's Program for the Beneficial Use of Oil Field Produced Water – David Burnett , Texas A&M University
2:30-3:00	A National Produced-Water Geochemistry Database - James K. Otton , U.S. Geological Survey
2:00-2:30	Comparative Analysis of Water Quality Impacts to the Tongue River, Powder River Basin – Brian Bohm , ALL Consulting and Tom Richmond , Montana Oil & Gas
2:30-3:00	Organic Species in Produced Water: Nature, Distribution and Implications to Water Reuse – Yousif Kharaka , U. S. Geological Survey
2:30-3:00	CBM Produced Water Treatment Options – Brian Hodgson , Marathon Oil Company
3:00-3:20 Break	
3:20-3:50	Characterization and Modeling of Produced Water – Joanna McFarlane , Oak Ridge National Laboratories
3:50-4:20	Production Characteristics of Coal Bed Methane Wells in the Powder River Basin – Bruce Langhus & Mark Layne , ALL Consulting, and Jim Halvorson , Montana Oil & Gas
3:50-4:20	Hybrid Bioreactors - Cost Saving Processes for Decontamination of Water and Air - Jeffrey Boles , Tennessee Valley Authority
4:20-4:50	Water Rights and Beneficial Use of Produced Water In Colorado - Dick Wolfe , Colorado Division of Water Resources
4:20-4:50	Stochastic and Well Optimization Modeling to Evaluate Injection Potential of a California Oilfield – Jeffery Anderson , Geomega Inc
4:20-4:50	Demonstrated Economics of Managed Irrigation for CBM Produced Water – Jonathan Paetz , Cascade Earth Sciences
4:50-5:45	Plenary Session (General Discussion) Moderators Mike Paque , Bill Bryson , and Fred Jones
5:45-7:00	Evening Reception

Thursday, October 17 ~ Agenda

7:30-8:30 Morning Reception, Registration		
8:30-12:00 Concurrent Sessions		
	Produced Water Handling Moderator – Bill Bryson , Kansas Geological Survey	Coal Bed Methane Produced Water Handling Moderator – Fred Jones , Marathon Oil Company
8:30-9:00	TBA	Strategic Produced Water Management and Disposal Economics in the Rocky Mountain Region – Deidre Boysen , B.C. Technologies, Ltd.
9:00-9:30	Strategies for Produced Water Handling in New Mexico - Robert Lee , PRRC/New Mexico Tech	Using a Three-Tiered Systems Approach for Managing the Environmental Risk of CBM Operations: Risk Analysis, Environmental Management, and Quality Assurance - Anthony Gorody , Universal Geoscience Consulting, Inc.
9:30-10:00	An Integrated Treatment System of Bio-processing and Membrane Separation for Beneficial Use of Produced Water – Tom Hayes , Gas Technology Institute	Fruitland Coal Bed Methane Seepage Modeling Study and Fruitland Coal Aquifer Recharge – Russell Schucker , Questa Engineering Corporation
10:00-10:20 Break		
10:20-10:50	The Freeze-Thaw/Evaporation (FTE) Process for the Commercial Treatment and Beneficial Use of Oil and Gas Produced Water - John Boysen , B.C. Technologies, Ltd.	Management of Produced Water from Coal Bed Methane Wells: Discharge, Inject, or Reuse? – John Veil , Argonne National Laboratory
10:50-11:20	Purification of Brackish Water Using Electronic Water Purification – Robert Atlas , Sabrex of Texas, Inc.	Preparation of Water Management Plans for the Development of Coal Bed Methane in the Powder River Basin – Dan Arthur , & John Seekins , ALL Consulting
11:20-12:00 Plenary Session (General Discussion) Moderators Mike Paque , Bill Bryson , and Fred Jones		
12:00- 1:30 Lunch (on your own)		
1:30-4:30 Final Session		
	Beneficial Use of Produced Water – General Moderator – Bill Bryson , Kansas Geological Survey	Beneficial Use of Produced Water from CBM Production Moderator – Fred Jones , Marathon Oil Company
1:30-2:00	Alternative Use of Produced Water in Aquaculture and Hydroponic Systems at Naval Petroleum Reserve No. 3 – Lorri Jackson , Rocky Mountain Oilfield Testing Center	Reuse of Produced Water Using Nanofiltration and Ultra-Low Pressure Reverse Osmosis to Meet Future Water Demands – Chris Bellona , Environmental Science & Engineering Division
2:00-2:30	Produced Water: An Oasis for Arid and Semi-arid Rangeland Restoration - William E. Fox , & David Burnett , Texas Cooperative Extension	Updated Information on Analysis of Water Management Alternatives and Beneficial Uses of Coal Bed Methane Produced Water – Matt Janowiak , BLM, Gary Gianniny , Ft. Lewis College, and Dan Arthur & Greg Casey , ALL Consulting
2:30-3:00	Water Quality Monitoring at the Kern River Field – Dale Brost , ChevronTexaco	Utilization of Water Produced from Coal Bed Methane Operations at the North Antelope / Rochelle Complex Campbell County, Wyoming – Philip Murphree , Powder River Coal Company
3:00-3:20 Break		
3:20-3:50	Capacitive Deionization Technology, A Cost Effective Solution for Brackish Ground Water Remediation – Tobie Welgemoed , Lee & Ro, Inc.	Developing Sustainable Practices for CBM Produced Water Irrigation – Aaron DeJoia , Cascade Earth Sciences
3:50-4:20	Beneficial Use of Produced Water in the Indian Basin Field: Eddy County, NM – Paul Peacock , Marathon Oil	Using Geospatial techniques to develop best management practices and produced water beneficial use options relative to the development of coal bed methane – Jason Patton , ALL Consulting and Jim Halvorson , Montana Oil & Gas
4:20-5:20 Plenary Session (FINAL Wrap Up Discussion) Moderators Mike Paque , Bill Bryson , and Fred Jones		

Mission Statement of the Ground Water Protection Council:

“The Ground Water Protection Council is a national association of state ground water and underground injection control agencies whose mission is to promote the protection and conservation of ground water resources for all beneficial uses, recognizing ground water as a critical component of the ecosystem.”

“The Ground Water Protection Council provides a forum for stakeholder communication and research in order to improve governments’ role in the protection and conservation of ground water.”