

CO₂ Flooding School
 Course Schedule and Curriculum
 August 16-18 (+19), 2011
 Casper Petroleum Club

Day One – Tuesday, Aug 16, 2011: Overview of the Elements of CO₂ Flooding

8:00	Welcome, Course Overview	Lon Whitman, Steve Melzer
8:30	Overview of EOR Techniques and the History and Current Status of CO ₂ Flooding	Melzer
9:15	CO ₂ Demand, CO ₂ Sources, Natural and Anthropogenic (Man-Made), and the Properties of CO ₂	Melzer
10:30	The Convergence of Carbon Management and CO ₂ EOR	Melzer
12:00	Break for Lunch	
1:00	CO ₂ Transportation and Injection - Pipelines, Trucking, Metering	Melzer
1:45	Reservoir Response - Miscible, Immiscible, Gravity Stable, Processing Rates, Examples	Whitman, Melzer
2:00	CO ₂ Recycling, Plants & Processing - Dehydration, Sulfur/NGL Separation, Compression	Melzer
2:15	Downhole and Wellsite Equipment Practices	Robert Kiker
3:00	Key Elements of Reservoir Geology	Melzer
4:30	Overview: The Business of CO ₂ Wrap-up - Q&A	Melzer

Day Two – Wednesday, Aug 17, 2011: Evaluating a Candidate Flood, Reservoir Response and Flood Operations

8:15	Flood Prospects: The Initial Evaluation and the Concept of Screening	Melzer
9:30	Flow Units and Reservoir Compartmentalization	Melzer
10:00	Geophysical Techniques	Melzer
10:45	Modeling the Reservoir and Waterflood Response – Sweep Efficiency Concepts and Rules of Thumb	Melzer
11:15	Normalizing Flood Response – Actual Examples	Melzer
12:00	Break for Lunch	
1:00	Reservoir Surveillance and Pattern Balancing	Melzer
1:45	CO ₂ Flood Simulation and Response Modeling Techniques	Melzer
2:30	CO ₂ Key Operation Features & Process Flows - Different Operators	Kiker
3:15	CO ₂ Gas Lift and Chemical Treatment	Ed Payne
4:15	Continuation of 2:30 topic: to include Dehydration, Compression, Sulfur Removal, Nat'l Gas Liquids Capture, and Water Injection	Kiker

Day Three – Thursday, Aug 18, 2011: The Business of CO₂ Flooding

8:15	Continuation of Day 2 (As necessary from Previous Day)	Kiker/Payne
10:00	CO ₂ Flood Simulation and Response Modeling Techniques	Melzer
10:30	Land/Mineral Considerations	Melzer
11:00	Fundamental of CO ₂ Supply Contracts	Melzer
12:00	Lunch w/ Presentation on Wyoming Geology	Jim Steidtmann
1:30	Longevity of Example Floods	Melzer
2:00	Parametric Sensitivities and Rates of Return	Melzer
2:30	Major Elements of Costs/Revenue, LOEs	Melzer
3:15	A View to the Future – ROZs and EOR Target Expansion	Melzer/Whitman
4:45	Day-by-Day Eval Forms Wrap-up - Q&A, Certificates	

Day Four (Attendance Optional) – Friday, Aug 19, 2011:

8:30 – 1:30	Field Trip led by Mark Milliken – “From Tensleep to Chugwater: 200 Million Years of Geology by Boat” - Alcova Reservoir (Followed by a Bar-B-Q at Alcova sponsored by the NCG Consulting Group – www.theNCG.com)
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Course limited to first 20 persons to sign up

Total Cost of Course: \$2000 for the three days (which includes the optional field trip)