



Applied Fracture Pressure Analysis For Complex Reservoirs

1	<u>Frac Geom Review</u> - Complete Review - Comparison Designs - Debunk some myths	<u>Combined Analysis</u> - TG1 Problem (E-StimPlan Demo) - Wasatch Problem (ideal case)	<u>TSO Designs</u> - LP Gas Problem	<u>Fracturing for Sand Control Frac-Pack</u> - Review Procedures - FRCPK2 Problem	Reservoir Response - Effect of Layers, Prblm - Limited Frac/Well Connection - Non-Darcy Flow
2	<u>3-D Pres Hist Match</u> - MWX Data				
3		<u>History Match</u> - 2 Break Problem			
4	<u>Treatment scheduling</u> - Settling (Banking) - "Normal" (do MWX dsgn) - TSO (examples later) - "Gotchas" - Convection E-StimPlan Demo	<u>In Situ Stress Logs</u> - history match - Wasatch, calibrate log	<u>Well Deviation</u> <u>Step-Down Tests</u>	- FRCPK1 Problem	
5	<u>Stress Testing Review</u> - 3 Skol Examples	<u>Fluid Loss – Special</u>	<u>Step-Down Test Examples</u> - Vicksburg Ex (2 slope) - Challum 13 (unit slope) - Pennie Well (0.5 slope) - BL 54 Well (0.5 slope)	<u>Fracturing for Sand Control Indirect Fracturing</u> - Discussion - Fracturing for Reservoir Management - Gulfaks Problem	
6	<u>Log-Log Analysis</u> - ARCO "2 break" Example - Whicher Range Example - Wasatch Problem - 'G' Plot Example ???	<u>Gotcha #1 Problem</u>			
7	<u>Nolte-Smith Analysis</u> - Review, Wasatch Prob <u>Pressure Decline Analysis</u> Brief review, limitations		<u>Computer Models</u>		