

PTE 502	Advanced Reservoir Characterization
	Fall Semester 2013
Dr. Iraj Ershaghi	Petroleum Engr. Program University of Southern California contact ershaghi@usc.edu
30-Aug	Introduction-Uncertainty in Reservoir Description/geomodeling
6-Sep	Depositional environments/Sequence Stratigraphy
13-Sep	Depositional Models/ Facies Interpretation/Facies and Lithology
20-Sep	Review of Petrophysics
27-Sep	Flow units/Reservoir rock properties/Structural control on Heterogeneity
4-Oct	Seismic data processing and imaging
11-Oct	Review of Basin Modeling
18-Oct	Data and interpretation for dynamic behavior
25-Oct	Midterm Exam
1-Nov	Performance analysis-Production Geology
8-Nov	Integration of Geology, Petrophysics, Geophysics, and Reservoir Engineering for Reservoir Characterization Studies
15-Nov	Dynamic well tests and production analysis
22-Nov	Stress Impact/ Fracture models
29-Nov	Thanksgiving holiday
6-Dec	Presentation of Projects
13-Dec	Final Exam 2-4 p.m.

Grading	HW 20% Mid Term 30 % Final 40% Project 10%
Reference Books	Stratigraphic reservoir characterization for petroleum geologists, geophysicists, and engineers, Volume 61
	Elsevier Roger M. Slatt
	Facies Models 4– January 1, 2010 by Noel P. James (Author) , Robert W. Dalrymple
	Academic Honesty: All students are expected to adhere to the USC Student Conduct Code.
	SCAMPUS, the Student Guidebook, contains the Student Conduct Code. (Appendix A).
	http://www.usc.edu/dept/publications/SCAMPUS/gov/
	In case of suspicion of academic dishonesty, student(s) will be referred to the office of Student
	Judicial Affairs and Community Standards for further review.
	Students with Disabilities: Any student requesting academic accommodations based on a dis-
	ability is required to register with Disability Services and Programs (DSP) each semester. A letter
	of verification for approved accommodations can be obtained from DSP. It is located in STU 301
	and is open 8:30 a.m.5:00 p.m., Monday through Friday. The phone number for DSP is (213) 740-0776.