



	Spring 2019 PTE 517			
	Dr. Ershaghi ershaghi@usc.edu Cell: 310 991 -1337			
	PTE-517 Testing of Wells and Aquifers			
	2:00–4:40 PM Thursdays			
	Topic			
10-Jan	Introduction to well testing/flow equation in various geometries			
17-Jan	Solutions in radial, linear systems, diagnostic methods			
24-Jan	Superposition in space and in time/Multiple Rate Tests			
31-Jan	Pressure build up and pressure drawdown			
7-Feb	First Exam			
14-Feb	Layered, Composite, Faulted Reservoirs			
21-Feb	Gas well testing/ Isochronal tests			
28-Feb	Naturally Fractured Reservoirs			
7-Mar	Hydraulically Fractured Wells			
14-Mar	Spring recess			
21-Mar	Horizontal Wells/Tight sands/Coalbed Methane			
28-Mar	2nd Exam			
4-Apr	Interference and Pulse Tests			
11-Apr	Injection Well Testing/DST/Pumping wells			
18-Apr	Computer Aided Analysis/Use of artificial intelligence/Testing of aquifers			
25-Apr	Project Presentation			
2-May	Final 2-4 PM			
	Grading HW 15% ; Exam 1 25% Exam 2 25% Final 25 % Project 10 %			
	Reference Books and papers TBD			