

DATA ENGINEERING

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PROGRAM

SUBJECT	TOPICS
INTRODUCTION TO PORE PRESSURE DETECTION	Pore Pressure Prediction <ul style="list-style-type: none">• Overburden Pressure• Normal Formation Pressure• Abnormal Formation Pressure• Sources of Abnormal Pressure
WELL CONTROL PRINCIPLES	<ul style="list-style-type: none">• Warning Signs• Gas Cut Mud• Connection gas• Trip Gas• Swabbing & Surging• ECD /BHP• SCRs / MAASP• Hydrostatic Calculations• Equivalent Mud Weights• Kick Tolerance Principles
DRILLING FLUIDS & HYDRAULICS	Data Acquisition Hydraulics Theory <ul style="list-style-type: none">• Theory – Surface/Drill Stem/Bit/Annulus• Models
PRESSURE EVALUATION WHILE DRILLING	Abnormal Pressure Detection <ul style="list-style-type: none">• Methods• “d” Exponent in Details• Kick Sheet• LOT / FIT Tripping <ul style="list-style-type: none">• Tripping Procedure• Pipe Displacement / Capacity• Trip Tank Function• Overpull/Drag• Pumping Slug / Sweep• Annular volumes• Concept of Lag Time / Calculation