

Pressure Buildup Calculations
San Juan 28-7 Unit - Typical Dakota

Well Name:	Typical San Juan 28-7 Dakota	Source
Initial Rate:	437 MCFD	Decline Curve Analysis
Ave Perm to Gas:	0.025	Type Curve Matching
Ave Z Factor:	0.92	PVT Correlation
Ave Net Thickness:	40 ft	Log Evaluation
Ave Gas Viscosity:	0.0145 cp	PVT Correlation
Reservoir Temp:	635 Deg-R	Log Evaluation
Dakota Pressure @ Datum:	1959 psi	Static Pressure Survey
Original MV Pressure @ Datum:	1238 psi	Pressure Data
Pressure-Squared Buildup Eqn:	$P_i^2 - P_{ws}^2 = 1,637[(Q_g)(\text{visc})(Z)(T)/(k)(h)]*\log[(t_p+dt)/dt]$	
Eqn Source: WELL TESTING, by John Lee, SPE Textbook Series Vol 1 Page 44, Eqn 2.35 for reservoirs less than 2000 psi		

