



RigTesters, Inc.
ABILENE - MIDLAND - GRAHAM
UMC PETROLEUM CORP.



Well identification

Well ID	PARKWAY WEST #	Well location	N. E. CARLSBAD
County/District	EDDY	State, Country	NEW MEXICO
Company	UMC PET. CORP.	Division	DENVER.

Fluid properties

Prod/Inj fluid	OIL	GOR	685:1
Water cut	0%	Condensate yield	UNKNOWN
API gravity	49.90	Gas spec. grav.	0.67
Viscosity	0.56287 cp	Pseudo-critical T	376 deg R
Pseudo-critical P	666.38 psia	H2S mole fraction	UNKNOWN
CO2 mole fraction	UNKNOWN	N2 mole fraction	UNKNOWN
Compressibility(t)	13.509 e-6/psi	Formation vol factor	1.358 RB/STB

Reservoir properties

Porosity	0.12 frac	Formation thickness	25 ft
Wellbore radius	0.32813 ft	Prod-observer distance	N/A
Water-Oil Contact	UNKNOWN	Gas-Oil Contact	N/A
Gas-Water Contact	N/A	Rock compressibility	
Reservoir temperature	146 deg F	Pressure for properties	5411.6 psia

Comments

THE DERIVATIVES INDICATE HOMOGENEOUS RESERVOIR WITH LOW PERMEABILITY & MODERATE SKIN WITH CHANGING STORAGE. THE INITIAL SHUT-IN PERIOD HAD NOT DEVELOPED TRUE RADIAL FLOW REGIME; CALCULATIONS FROM IT ARE SUBJECT TO QUESTION. THE FINAL SHUT-IN PERIOD HAD ACHIEVED RADIAL FLOW AS INDICATED BY FLATTENING OF DERIVATIVE CURVE; ITS CALCULATIONS SHOULD BE RELIABLE. THE LEAKING DRILL PIPE AND EXCESSIVE DRLG. FLUID RECOVERY WILL AFFECT FLOW PERIOD READINGS & CALCULATED PRODUCTION RATES, THUS, AFFECTING PERMEABILITY CALCULATIONS. THE FIXED PARAMETERS USED WERE AN EST. 12% POROSITY, 25 FT. OF NET PAY & AVERAGE PRODUCTION OF 14.2 BOPD FOR THE FINAL FLOW PERIOD. THE RATES WERE BASED ON DENSITY OF FLUID RECOVERED VS. FLOWING PRESSURES. THE TOTAL RADIUS OF INVESTIGATION CALCULATED TO APPROX. 18 FT. FROM WELLBORE.