



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



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Well ID County/District Company

SHUGART "22" #1 EDDY

Well location State, Country **UMC PETROLEUM Division**

W. HOBBS **NEW MEXICO** MIDLAND/DENVE

Fluid propertie

Prod/Ini fluid Water cut API gravity Viscosity Pseudo-critical P CO₂ mole fraction Compressibility(t)

OIL 0% 39.70 0.88152 cn 666.38 psia UNKNOWN 13.252 e-6/psi **GOR** Condensate yield Gas spec. grav. Pseudo-critical T **H2S** mole fraction N2 mole fraction Formation vol factor

570:1 **UNKNOWN** 0.67 376 deg R AT LEAST 1600 PP **UNKNOWN** 1.2961 RB/STB

Reservoir properties

Porosity Wellbore radius Water-Oil Contact **Gas-Water Contact** Reservoir temperature 0.14 frac 0.32813 ft UNKNOWN N/A 113 deg F

Formation thickness Prod-observer distance **Gas-Oil Contact** Rock compressibility Pressure for properties

20 ft **UNKNOWN** N/A

2667.3 psia

Comments

THE DERIVATIVES INDICATES A HOMOGENEOUS RESERVOIR WITH LO ILITY & MODERATE SKIN. THE FINAL SHUT-IN PERIOD WAS AFFECTED BY STATIC PRESSURE COMMUNICATION; THE CALCULATIONS & DATA FROM T NOT RELIABLE. ALTHOUGH THE INITIAL SHUT-IN WAS ALSO PARTIALY AFT IT HAD OBTAINED TRUE RADIAL FLOW REGIME AS INDICATED ON THE DERIV CURVE. THE PERMEABILITY & SKIN CALCULATIONS FROM IT ARE RELIABLE D THE FIXED PARAMETERS USED WERE 14% POROSITY WITH 20 FT. OF NET PAY R PORTED & AVERAGE PRODUCTION OF 23 BOPD. RATES WERE BASED ON DENSITY OF FLUID RECOVERED VS. FLOWING PRESSURES. THE TOTAL RADIUS OF INVESTI-GATION CALCULATED TO APPROX. 43 FT. FROM THE WELLBORE.