

REPORT NO.
101932 E/L

PAGE NO. 1

TEST DATE:
6-Feb-1988

STARTM

**A Schlumberger Transient Analysis Report
Based On Model VerifiedTM Interpretation
Of A Flopetrol Johnston Well Test**

FLOPETROL JOHNSTON

Schlumberger

Company: STANDARD OIL PRODUCTION CO.

Well: STATE 2-1

TEST IDENTIFICATION

Test Type E/L Buildup
Test No.
Formation Strawn
Test Interval (ft) ... 11544 to 11606

WELL LOCATION

Field n/a
County Lea
State New Mexico
Sec/Twn/Rng n/a

COMPLETION CONFIGURATION

Total Depth (MD/TUD)(ft) . n/a
Casing/Liner I.D. (in) ... 5 1/2
Hole Size (in) 7 7/8 (bit)
Perforated Interval (ft) . 25 + 30 = 55
Shot Density (shots/ft) .. 4
Perforation Diameter(in) .
Net Pay (ft) 55 (est)

TEST STRING CONFIGURATION

Tubing Length ft/I.D.(in). n/a
Tubing Length ft/I.D.(in).
Packer Depth (ft) n/a
Gauge Depth (ft)/Type ... 11626 / SPRO
Downhole Valve(Y/N)/Type . None

TEST CONDITION

Tbg/Wellhead Press. (psi).
Separator Pressure (psi) .

VALIDATION RESULTS

Model of Behavior Homogeneous (est)
Fluid Type Used Oil
Reservoir Pressure (psi) . 3985 at 11626'
Transmissivity (md.ft/cp) 6246.90
Permeability (md) 39.09
Skin Factor 224.18
Storage Ratio
Interporosity Flow Coeff..
Distance to Anomaly (ft).
Investigation Radius (ft). 1830 (Bu time)

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API) ... 42.9
Basic Solids (%)
Gas Gravity 0.87
GOR (scf/STB) 1187
Water Cut (%) None
Viscosity (cp) 0.34417
Tot. Compress. (1/psi) ... 1.6603 E-05
Porosity (%) 5
Reservoir Temperature (F). 169
Form.Vol.Factor (bbl/STB). 1.6929

FINAL PRODUCTION RATE DURING TEST: 252 Bbls/day

COMMENTS:

The results of the interpretation indicate that the well is in an apparent homogeneous system with good effective permeability and with severe wellbore damage.

Log-log, cartesian, semi-log (superposition) and simulation techniques were used in the analysis. There was good agreement in the calculated parameters and the simulated data matched the actual data fairly well.

This section contains reduced scale interpretation and data plots. The appendix section contains full scale plots and a complete listing of the data collected during the test. Questions concerning this report should be directed to D.A. Warren or Dick Simper at (915) 694-9561.

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