REPORT NO.
108964 DST 2

PAGE NO. 1

TEST DATE:
19-Feb-1988

S T A R™

A Schlumberger Transient Analysis Report
Of A Flopetrol Johnston Drillstem Test

FLOPETROL JOHNSTON
Schlumberger

Company: SANTA FE ENERGY

Well: HUMBLE HUME "5" STATE #1

TEST IDENTIFICATION

Test Type ..... MFE OH J-300 DST
Test No. ..... Two
Formation ..... Wolfcamp
Test Interval (ft) ... 9845 to 9922
Reference Depth ..... Kelly Bushing

WELL LOCATION

Field ..... Hume
County ..... Lea
State ..... New Mexico
Sec/Twn/Rng 5/ 16s/ 34e
Elevation (ft) ..... 4138 (G.L.)

HOLE CONDITIONS

Total Depth (MD/TUD)(ft) . 9922
Hole Size (in) 7 7/8
Casing/Liner I.D. (in) ... --
Perf'd Interv./Nt Pay(ft). -- / 60
Shot Density/Diameter(in). --

MUD PROPERTIES

Mud Type ..... Fresh Water Gel
Mud Weight (lb/gal) 8.9
Mud Resistivity (ohm.m) .. 0.25 at 60 F
Filtrate Resistiv.(ohm.m). --
Filtrate Chlorides (ppm) . 2,500

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi). 4451
Gas Cushion Type ..... None
Surface Pressure (psi) ... --
Liquid Cushion Type ..... None
Cushion Length (ft) ..... --

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D.(in). 9039 / n/a
Collar Length ft/I.D.(in). 786 / 2.25
Packer Depths (ft) 9839, 9845
Bottomhole Choke Size(in). 15/16
Gauge Depth (ft)/Type .... 9822 / J-300

NET PIPE RECOVERY

Volume	Fluid Type	Properties
184 feet	Mud	Rw 0.25 at 60 F
		3,000 PPM

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
800 cc	Mud	0.25 @60F 3500 PPM
Press. 50	GOR: --	GLR: --

VALIDATION RESULTS

Model of Behavior .....
Fluid Type Used .....
Reservoir Pressure (psi) .
Transmissivity (md.ft/cp)
Permeability (md) .....
Skin Factor/Damage Ratio .
Storativity Ratio .....
Interporosity Flow Coeff..
Distance to Anomaly (ft).
Investigation Radius (ft).
Potentiometric Surf. (ft).

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API) ...
Basic Solids (%) .....
Gas Gravity .....
Water Cut (%) .....
Viscosity (cp) .....
Tot. Compress. (1/psi) ...
Porosity (%) 10
Reservoir Temperature (F). 139
Form.Vol.Factor (bbl/STB).

PRODUCTION RATE DURING TEST: --

COMMENTS:

This test was mechanically successful but the zone did not produce any significant volumes of oil or gas.

The general character of the buildup plots suggest that the zone has low effective permeability and no wellbore damage at the time and conditions of the test.