

REPORT NO.
108890 DST 3

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TEST DATE:
15-JUL-1988

STARTM

A Schlumberger Transient Analysis Report Of A Flopetrol Johnston Drillstem Test

FLOPETROL JOHNSTON

Schlumberger

Company: FOY & MIDDLEBROOK

Well: CULP RANCH UNIT #2

TEST IDENTIFICATION

Test Type MFE OH DST
Test No. Three
Formation Devonian
Test Interval (ft) ... 10366 to 10393
Reference Depth Kelly Bushing

WELL LOCATION

Field Wildcat
County Chaves
State New Mexico
Sec/Twn/Rng 11/12s/30e
Elevation (ft) --

HOLE CONDITIONS

Total Depth (MD/TUD)(ft) . 10393
Hole Size (in) 7 7/8
Casing/Liner I.D. (in) ... --
Perf'd Interv./Nt Pay(ft). -- / n/a
Shot Density/Diameter(in). --

MUD PROPERTIES

Mud Type Gel Starch
Mud Weight (lb/gal) 9.4
Mud Resistivity (ohm.m) .. n/a
Filtrate Resistiv.(ohm.m). --
Filtrate Chlorides (ppm) . 56,000

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi). 5285
Gas Cushion Type None
Surface Pressure (psi) ... --
Liquid Cushion Type None
Cushion Length (ft) --

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D.(in). 9542 / 3.83
Collar Length ft/I.D.(in). 790 / 2.25
Packer Depths (ft) 10360, 10366
Bottomhole Choke Size(in). 15/16
Gauge Depth (ft)/Type 10386 / J-200

NET PIPE RECOVERY

Volume	Fluid Type	Properties
372 feet	Mud	Rw .17 @ 75F 40000 PPM
4464 feet	Water	Rw 0.24 at 75 F
		25000 PPM

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
2300 cc	Water	0.24 at 75 F
		25000 PPM
Press. 30	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 (%) 6-8
Reservoir Temperature (F). 176
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 good effective permeability and some wellbore damage at the time and condition of the test.