

REPORT NO.
102761 DST 1

PAGE NO. 1

TEST DATE:

24-Mar-1988

STARTM

A Schlumberger Transient Analysis Report Of A Schlumberger Drillstem Test

FLOPETROL JOHNSTON

Schlumberger

Company: TERRA RESOURCES, INC.

Well: Morgan #1

TEST IDENTIFICATION

Test Type MFE OH STRDL DST
Test No. One
Formation Bough "B"
Test Interval (ft) ... 10385 to 10415
Reference Depth Kelly Bushing

WELL LOCATION

Field Alston Ranch
County Lea
State New Mexico
Sec/Twn/Rng 26/ 13s/ 34e
Elevation (ft) 4137

HOLE CONDITIONS

Total Depth (MD/TUD)(ft) . 10600
Hole Size (in) 7 7/8
Casing/Liner I.D. (in) ... --
Perf'd Interv./Nt Pay(ft). -- / 6
Shot Density/Diameter(in). --

MUD PROPERTIES

Mud Type Salt Gel
Mud Weight (lb/gal) 9.7
Mud Resistivity (ohm.m) .. 0.19 AT 70 F
Filtrate Resistiv.(ohm.m). --
Filtrate Chlorides (ppm) . 38,000

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi). 5038
Gas Cushion Type None
Surface Pressure (psi) ... --
Liquid Cushion Type None
Cushion Length (ft) --

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D.(in). 9805 / 3.83
Collar Length ft/I.D.(in). 540 / 2.25
Packer Depths (ft) 10385, 10415
Bottomhole Choke Size(in). 15/16
Gauge Depth (ft)/Type 10392 / J-200

NET PIPE RECOVERY

Volume	Fluid Type	Properties
140 feet	Mud	
Oil and Gas cut		
1260 feet	Water	Rw 0.16 at 50 F
		20,000 PPM

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
1.45 Scf	Gas	
150 cc	Oil	
1400 cc	Water	Rw 0.16 at 50 F
		20,000 PPM
Press. 400	GOR: 1537	GLR: 149

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) ... 47
Basic Solids (%)
Gas Gravity
Water Cut (%) 90 (sampler)
Viscosity (cp)
Tot. Compress. (1/psi) ...
Porosity (%) 9
Reservoir Temperature (F). 144
Form.Vol.Factor (bbl/STB).

PRODUCTION RATE DURING TEST: --

COMMENTS:

The test was mechanically successful and the zone did produce enough gas, oil and water for proper reservoir fluid identification. The general character of the buildup plots suggest that the zone has fair effective permeability and no wellbore damage at the time and conditions of the test.