

REPORT NO.
16904F DST 2

PAGE NO. 1

TEST DATE:

17-FEB-1987

WELL PERFORMANCE

TESTINGTM REPORT

A Production System Analysis (NODALTM)
Based On Model VerifiedTM Interpretation

FLOPETROL JOHNSTON

Schlumberger

Company: YATES PETROLEUM CORPORATION		Well: BROWN "AEI" #1																															
TEST IDENTIFICATION Test Type MFE OH DST Test No. Two Formation Abo Test Interval (ft) 10334 to 10409 Reference Depth Kelly Bushing		WELL LOCATION Field Casey, Strawn County Lea State New Mexico Sec/Twn/Rng 26/ 16s/ 37e Elevation (ft) n/a																															
HOLE CONDITIONS Total Depth (MD/TUD) (ft) 10409 Hole Size (in) 7 7/8 Casing/Liner I.D. (in) -- Perf'd Interval/Net Pay (ft) .. -- / 21 Shot Density/Diameter (in) ... --		MUD PROPERTIES Mud Type Cut Brine Mud Weight (lb/gal) 9.0 Mud Resistivity (ohm.m) 0.12 at 60 F Filtrate Resistivity (ohm.m) .. -- Filtrate Chlorides (ppm) 57,000																															
INITIAL TEST CONDITIONS Initial Hydrostatic (psi) -- Gas Cushion Type None Surface Pressure (psi) -- Liquid Cushion Type None Cushion Length (ft) --		TEST STRING CONFIGURATION Pipe Length (ft)/I.D. (in) ... 9799 / 3.83 Collar Length (ft)/I.D. (in) .. 478 / 2.25 Packer Depths (ft) 10328, 10334 Bottomhole Choke Size (in) ... 15/16 Gauge Depth (ft)/Type 10403 / J-200																															
NET PIPE RECOVERY <table border="1"><thead><tr><th>Volume</th><th>Fluid Type</th><th>Properties</th></tr></thead><tbody><tr><td>735 feet</td><td>Oil</td><td>35 API at 60 F</td></tr><tr><td>2165 feet</td><td>Water, top</td><td>sample 55,000 PPM</td></tr><tr><td></td><td>Mid. sample</td><td>54,000 PPM</td></tr><tr><td></td><td>Bot. sample</td><td>43,000 PPM</td></tr></tbody></table>		Volume	Fluid Type	Properties	735 feet	Oil	35 API at 60 F	2165 feet	Water, top	sample 55,000 PPM		Mid. sample	54,000 PPM		Bot. sample	43,000 PPM	NET SAMPLE CHAMBER RECOVERY <table border="1"><thead><tr><th>Volume</th><th>Fluid Type</th><th>Properties</th></tr></thead><tbody><tr><td>0.3 scf</td><td>Gas</td><td></td></tr><tr><td>600 cc</td><td>Oil</td><td>35 API at 60 F</td></tr><tr><td>1450 cc</td><td>Water</td><td>Rw 0.18 at 60 F</td></tr><tr><td></td><td></td><td>43,000 PPM</td></tr></tbody></table> Pressure: 500 GOR: 80 GLR: 23		Volume	Fluid Type	Properties	0.3 scf	Gas		600 cc	Oil	35 API at 60 F	1450 cc	Water	Rw 0.18 at 60 F			43,000 PPM
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INTERPRETATION RESULTS Model of Behavior Fluid Type Used for Analysis .. Reservoir Pressure (psi) Transmissibility (md.ft/cp) .. Effective Permeability (md) .. Skin Factor/Damage Ratio Storativity Ratio Interporosity Flow Coeff. Distance to an Anomaly (ft) .. Radius of Investigation (ft) .. Potentiometric Surface (ft) ..		ROCK/FLUID/WELLBORE PROPERTIES Oil Density (deg. API) 35 Basic Solids (%) Gas Gravity Water Cut (%) 71 (sampler) Viscosity (cp) Total Compressibility (1/psi). Porosity (%) Reservoir Temperature (F) 152 Form.Vol.Factor (bbl/STB)																															

PRODUCTION RATE DURING TEST: --

COMMENTS:

This test was mechanically unsuccessful due to failure of the clock mechanisms in both pressure instruments, no reliable pressure data was obtained.

The average rate during the test (based on the total fluid recovered in the drill string) was 735 BLPD. this value suggests that the zone has good effective permeability and "good" reservoir pressure.