

REPORT NO.
110969

PAGE NO. 1

TEST DATE:
14-Sep-1989

STARTM

A Schlumberger Transient Analysis Report A Production System Analysis (NODALTM) Of A Schlumberger Production Logging Test

Schlumberger

Company: U-F PETROLEUM INC.

Well: Humble Townsend #1

TEST IDENTIFICATION

Test Type PTS
Test No.
Formation Morrow
Test Interval (ft) ... 11800 to 11810

WELL LOCATION

Field Townsend
County Lea
State New Mexico
Sec/Twn/Rng 9 / 16S / 35E

COMPLETION CONFIGURATION

Total Depth (MD/TUD)(ft) . 11810
Casing/Liner I.D. (in) ... n/a
Hole Size (in) 4.75
Perforated Interval (ft) . 10
Shot Density (shots/ft) . 2
Perforation Diameter(in) . 0.450
Net Pay (ft) 10 (est.)

TEST STRING CONFIGURATION

Tubing Length ft/O.D.(in). 11714 / 2.375
Tubing Length ft/I.D.(in).
Packer Depth (ft) 10054
Gauge Depth (ft)/Type ... 11790
Downhole Valve(Y/N)/Type .

TEST CONDITION

Tbg/Wellhead Press. (psi). 1401 to 358
Separator Pressure (psi) .

VALIDATION RESULTS

Model of Behavior
Fluid Type Used Gas
Reservoir Pressure (psi) . 2247 (est.)
Transmissivity (md.ft/cp)
Permeability (md)
Skin Factor
Storage Ratio
Interporosity Flow Coeff..
Distance to Anomaly (ft).
Investigation Radius (ft).

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API) ... 56.4
Basic Solids (%)
Gas Gravity 0.645
GOR (scf/STB) 52580
Water Cut (%) 14.5
Viscosity (cp)
Tot. Compress. (1/psi) ...
Porosity (%) 12.5
Reservoir Temperature (F). 174
Form.Vol.Factor (bbl/STB).

LAST RATE DURING TEST: 1048 mscf/day

MAXIMUM PRODUCTION RATE POTENTIAL: 1134 mscf/day

TEST OBJECTIVES:

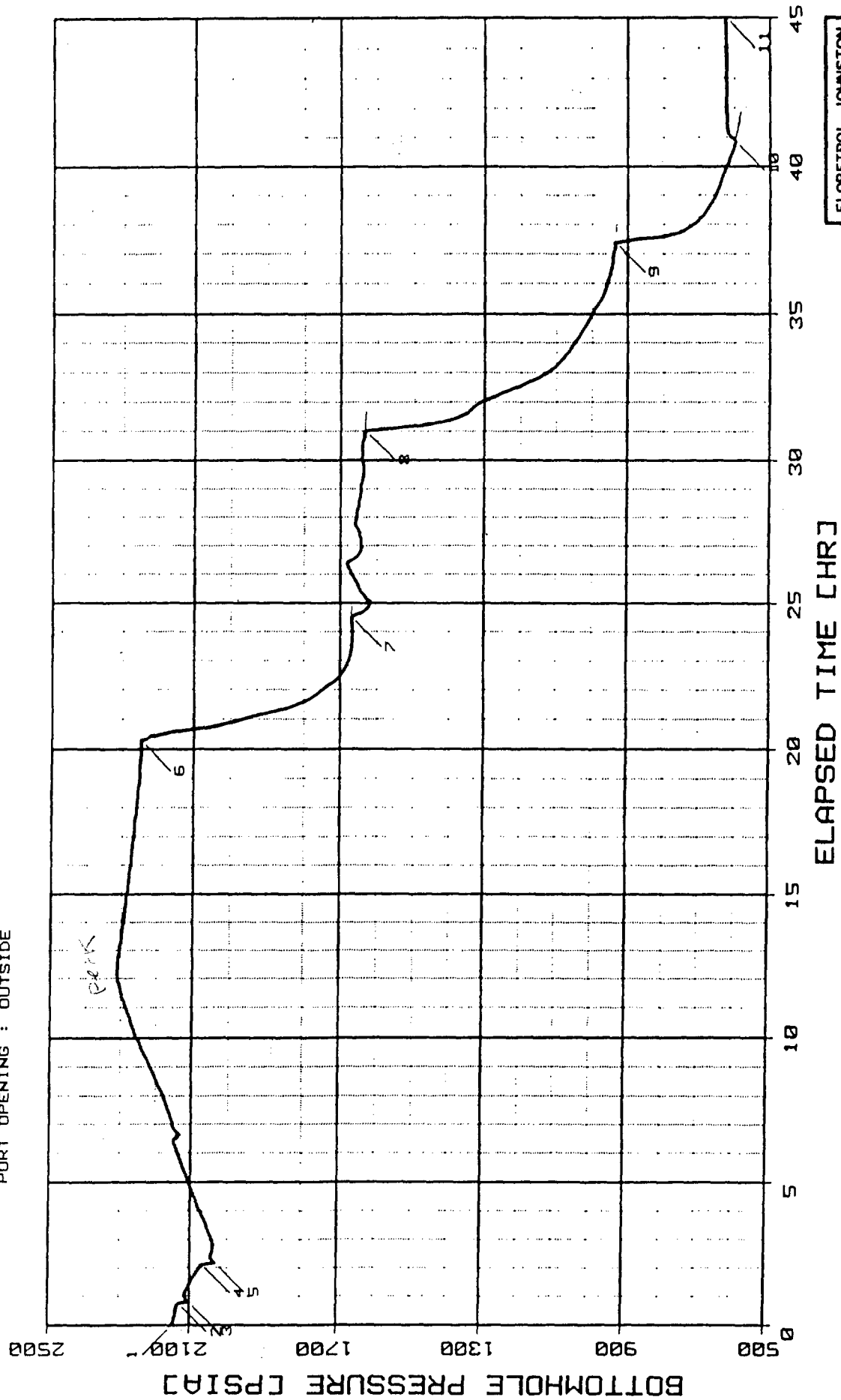
The purpose of this test was to determine the absolute flow potential for the Humble Townsend #1.

COMMENTS:

* Prior to the start of the 4 pt. test, there appears to be interference from an offsetting well. This can be seen on the bottom hole pressure log (refer to points 1-6) where the bottom hole pressure decreases even though the well is shut in.

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 110969 COMPANY : U-F PETROLEUM INC.
INSTRUMENT NO. 850425 WELL : HUMBLE TOWNSEND #1
DEPTH : 11790 FT
CAPACITY : 6025 PSI
PORT OPENING : OUTSIDE



FLOPETROL JOHNSTON

Schlumberger

 * ALL TEST DATA PRINTOUT *

FIELD REPORT # : 110969

COMPANY : V-F PETROLEUM INC.
 WELL : HUMBLE TOWNSEND #1

INSTRUMENT # : 850425
 CAPACITY [PSI] : 6025.
 DEPTH [FT] : 11790.0
 PORT OPENING : OUTSIDE
 TEMPERATURE [DEG F] : 174.0

LABEL POINT INFORMATION

#	TIME OF DAY	DATE	EXPLANATION	ELAPSED TIME, HR	BOT HOLE PRESSURE PSIA
1	11:15: 0	13-SP	SHUT-IN POINT	0.000	2146
2	12: 0:37	13-SP	START FLOW	0.760	2132
3	12: 3: 0	13-SP	END FLOW	0.800	2103
4	13:23:10	13-SP	START FLOW	2.136	2071
5	13:25:20	13-SP	END FLOW	2.172	2031
6	7:32:43	14-SP	START FLOW	20.295	2247
7	11:45:20	14-SP	CHANGED CHOKE	24.506	1668
8	18:16:32	14-SP	CHANGED CHOKE	31.026	1632
9	0:39:43	15-SP	CHANGED CHOKE	37.412	933
10	4: 7:49	15-SP	CHANGED CHOKE	40.880	597
11	8:15: 0	15-SP	END FLOW	45.000	623

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME, HR	END ELAPSED TIME, HR	DURATION HR	START PRESSURE PSIA	END PRESSURE PSIA	INITIAL PRESSURE PSIA
1	0.760	0.800	0.040	2132	2103	2132
2	2.136	2.172	0.036	2071	2031	2071
3	20.295	45.000	24.705	2247	623	2247

Case: _____
EXHIBIT NO: _____

**BEFORE THE
OIL CONSERVATION DIVISION**
Santa Fe, New Mexico

Case No. 11842 Exhibit No. 15

Submitted by: V-F Petroleum Inc.

Hearing Date: November 6, 1997