

REPORT NO.

1171813

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TEST DATE:

03-FEB-1998

S T A R

Schlumberger Transient Analysis Report

Based on Semilog Interpretation

Pressure Data Analysis

Schlumberger

COMPANY: LOUIS DREYFUS NATURAL GAS

WELL: TORO 33 ST #1

TEST IDENTIFICATION

Test Type STRADDLE DST
 Test No. TWO
 Formation MORROW
 Test Interval (ft) 12790 to 13010
 Depth Reference KB

WELL LOCATION

Field WILDCAT
 County LEA
 State NEW MEXICO
 Sec/Twp/Rng 33-19S-35E
 Elevation (ft) 3695

HOLE CONDITIONS

Total Depth (MD/TVD) (ft) 13323
 Hole Size (in) 7.875
 Casing/Liner I.D. (in) 9.825 / 8.921
 Perf'd Interval/Net Pay (ft) ..
 Shot Density/Diameter (in) ...

MUD PROPERTIES

Mud Type BRN/POLY/STARCH
 Mud Weight (lb/gal) 10.6
 Mud Resistivity (ohm.m) 0.070 @ 65F
 Filtrate Resistivity (ohm.m) ..
 Filtrate Chlorides (ppm) 126000

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 7138.85
 Gas Cushion Type
 Surface Pressure (psi)
 Liquid Cushion Type 52.8 BBLS
 Cushion Length (ft) 40.6

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) ... 12329 / 3.826
 Collar Length (ft)/I.D. (in) .. 918 / 2.250
 Packer Depth (ft)
 Bottomhole Choke Size (in) ... 0.94
 Gauge Depth (ft)/Type 12805/SLSR 875

NET PIPE RECOVERY

Volume	Fluid Type	Properties
35 bbl	FREE OIL	API 42.5@56F
44.9 bbl	WATER CUSH.	Rw4.237@60F 1500ppm

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
215 cuft	Gas	
Pressure: 3200	GOR: 0	GLR: 0

INTERPRETATION RESULTS

Model of Behavior
 Fluid Type Used for Analysis ..
 Reservoir Pressure (psi)
 Transmissibility (md.ft/cp) ..
 Effective Permeability (md) ...
 Skin Factor/Damage Ratio
 Storage Ratio, Omega
 Interporos. Flow Coef., Lambda ..
 Distance to an Anomaly (ft) ..
 Radius of Investigation (ft) ..
 Potentiometric Surface (ft) ..

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API)
 Basic Solids (%)
 Gas Gravity
 GOR (scf/STB)
 Water Cut (%)
 Viscosity (cp)
 Total Compressibility (1/psi) ..
 Porosity (%)
 Reservoir Temperature (F) 173
 Form. Vol. Factor (bbl/STB)

PRODUCTION RATE DURING TEST: xxxxxxxx

COMMENTS:

This DST of the Morrow formation was mechanically successful. Oil to surf. in 70min. Flowed 25.2 bbl. oil and 44.9 bbl. water cushion to surf. during test. Reversed an additional 10 bbl. oil, total volume for test is 35 bbl oil and 44.9 bbl. water. Est'd daily rate: 257 bopd. Thank you for choosing Schlumberger.

Cushion