

DST #4 (DEVONIAN)

REPORT NO.
139379

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TEST DATE:
20-apr-94

S T A R

Schlumberger Testing Data Report
Pressure Data Report

Schlumberger

COMPANY: THORNTON OPERATING COMPANY

WELL: SEAGULL MIDCOM FEDERAL #1

TEST IDENTIFICATION

Test Type Open Hole DST
 Test No. FOUR
 Formation Devonian
 Test Interval (ft) 9100 to 9177
 Depth Reference GL

WELL LOCATION

Field Wildcat
 County Chaves
 State New Mexico
 Sec/Twn/Rng S6-13S-29E
 Elevation (ft) 3674

HOLE CONDITIONS

Total Depth (MD/TVD) (ft) 9177
 Hole Size (in) 7.875
 Casing/Liner I.D. (in) 8.625 @2097
 Perf'd Interval/Net Pay (ft) .. / 15
 Shot Density/Diameter (in) ...

MUD PROPERTIES

Mud Type SaltGel/Starch/
 Mud Weight (lb/gal) 9.2
 Mud Resistivity (ohm.m)1 @ 78F
 Filtrate Resistivity (ohm.m)..
 Filtrate Chlorides (ppm) 63000

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 4625.08
 Gas Cushion Type
 Surface Pressure (psi)
 Liquid Cushion Type
 Cushion Length (ft)

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) ... 8287 / 3.826
 Collar Length (ft)/I.D. (in) .. 765 / 2.25
 Packer Depths (ft) 9094, 9100,
 Bottomhole Choke Size (in) ... 1.0
 Gauge Depth (ft)/Type 9073/SB-20319

NET PIPE RECOVERY

Volume	Fluid Type	Properties
	Heavy Gas	Rw.11@78F 57000ppm
403 ft	Cut Mud w/	API 44@60F
	Oil	

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
.29 cuft	Gas	
400 cc	Oil	API 44@60F
1800 cc	Mud	Rw.11@78F 57000ppm
Pressure:150 GOR:115 GLR:21		

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, 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 (%) 6
 Reservoir Temperature (F) 146
 Form.Vol.Factor (bbl/STB)

PRODUCTION RATE DURING TEST: Data Report

COMMENTS:

This DST was a mechanically successful test. The first attempt to test the zone was not started because of a drill pipe leak. This test had no leaks. The zone flowed 1.97 bbls. of heavy gas & oil cut mud. Thank You.