

REPORT NO.
150933

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TEST DATE:
22-APR-1997

STAR

Schlumberger Testing Data Report Pressure Data Report

Schlumberger

COMPANY: H. L. BROWN, Jr.

WELL: NORTH FEATHER STATE UNIT #2

TEST IDENTIFICATION

Test Type STRADDLE DST
Test No. THREE
Formation WOLFCAMP
Test Interval (ft) 9746 to 9850
Depth Reference GL

WELL LOCATION

Field N. FEATHER
County LEA
State NEW MEXICO
Sec/Twn/Rng 9-15S-32E
Elevation (ft) 4301

HOLE CONDITIONS

Total Depth (MD/TVD) (ft) 9878/9878
Hole Size (in) 7.875
Casing/Liner I.D. (in) 8.625 / 7.921
Perf'd Interval/Net Pay (ft) .. / 46
Shot Density/Diameter (in) ...

MUD PROPERTIES

Mud Type GEL-PAC
Mud Weight (lb/gal) 8.9
Mud Resistivity (ohm.m)
Filtrate Resistivity (ohm.m) .. 0.656 @ 80F
Filtrate Chlorides (ppm) 8200

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 4465.28
Gas Cushion Type
Surface Pressure (psi)
Liquid Cushion Type
Cushion Length (ft)

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) ... 8951 / 3.826
Collar Length (ft)/I.D. (in) .. 815 / 2.250
Packer Depths (ft) 9740, 9746, 9854
Bottomhole Choke Size (in) ... 1.00
Gauge Depth (ft)/Type 9723/SLSR-882

NET PIPE RECOVERY

Volume	Fluid Type	Properties
443 ft	O&G CUT MUD	
1083 ft	GAS CUT OIL	API 44@60F
1758 ft	O&G CUT H2O	Rw0.120@60F 70000ppm
	30% OIL	
2065 ft	WATER	Rw0.120@60F 70000ppm

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
3.75 cuft	Gas	
600 cc	Oil	API 42.7@60F
1450 cc	Water	Rw0.129@52F 74000pp
Pressure: 1495 GOR: 993 GLR: 291		

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 (%) 10
Reservoir Temperature (F) 142
Form.Vol.Factor (bbl/STB)

PRODUCTION RATE DURING TEST: Data Report

COMMENTS:

THIS IS DST #3. THE STRADDLE PACKERS ISOLATED THE 104' WOLFCAMP INTERVAL. THE ZONE PRODUCED 6.3 BBLs. OF O&G CUT MUD, 15.4 BBLs. OF GAS CUT OIL, 25 BBLs. OF O&G CUT WATER, AND 22.4 BBLs. OF WATER. PLEASE DIRECT ANY QUESTIONS ABOUT THIS TEST TO THE HOBBS TESTING DISTRICT AT (505) 393-4107. THANK YOU FOR USING SCHLUMBERGER.