

REPORT NO.
151005

PAGE NO. 1

TEST DATE:
20-APR-1997

STAR

Schlumberger Testing Data Report Pressure Data Report

Schlumberger

COMPANY: H.L. BROWN JR.

WELL: N. FEATHER STATE UNIT #2

TEST IDENTIFICATION

Test Type OPEN HOLE DST
Test No. TWO
Formation WOLFECAMP
Test Interval (ft) 9746 to 9878
Depth Reference GL

WELL LOCATION

Field WILDCAT
County LEA
State NEW MEXICO
Sec/Twn/Rng 9/15s/32e
Elevation (ft) 4301

HOLE CONDITIONS

Total Depth (MD/TVD) (ft) 9878'
Hole Size (in) 7.875
Casing/Liner I.D. (in) 8.625 @ 4050'
Perf'd Interval/Net Pay (ft) .. / 40
Shot Density/Diameter (in) ...

MUD PROPERTIES

Mud Type F/W GEL-PAC
Mud Weight (lb/gal) 8.9
Mud Resistivity (ohm.m)
Filtrate Resistivity (ohm.m) .. 0.776 @ 60F
Filtrate Chlorides (ppm) 9000

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi) 4576.23
Gas Cushion Type
Surface Pressure (psi)
Liquid Cushion Type
Cushion Length (ft)

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D. (in) ... 8982 / 3.82
Collar Length (ft)/I.D. (in) .. 0 / 2.25
Packer Depths (ft)
Bottomhole Choke Size (in) ... 0.94
Gauge Depth (ft)/Type 9724/SLSR-884

NET PIPE RECOVERY

Volume	Fluid Type	Properties
	GAS/OIL/H2O	
2501 ft	CUT MUD	API 42.9@60F Rw0.120@
1049 ft	GAS CUT OIL	API 42.7@60F
3493 ft	GAS CUT H2O	Rw0.115@60F 74000ppm

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
1.76 cuft	Gas	
700 cc	Oil	API 42.7@60F
1400 cc	Water	Rw0.120@60F 70000ppm
0 cc	Mud	
Pressure: 1650		GOR: 399
		GLR: 133

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 (%) 8
Reservoir Temperature (F) 143
Form.Vol.Factor (bbl/STB)

PRODUCTION RATE DURING TEST: Data Report

COMMENTS:

This D.S.T. produced 93.15 bbls. At the top was 35.56 bbls. of very heavily gas cut mud with a water and oil mixture. { more water then oil }. The middle was 14.92 bbls. of very heavily gas cut oil with traces of water. At the bottom was 42.67 bbls. of slightly gas cut water. This was a mechanically successful test. Thank you for using Schlumberger.