

Company: YATES ENERGY CORP.

Well: DESERT ROSE FED. 1

TEST IDENTIFICATION

Test Type OH DST
 Test No. 3
 Formation Morrow
 Test Interval (ft) ... 9964 to 10038
 Reference Depth Kelly Bushing

WELL LOCATION

Field Wildcat
 County Eddy
 State Texas
 Sec/Twp/Rng S.27T23SR23
 Elevation (ft) 4300

HOLE CONDITIONS

Total Depth (MD/TUD)(ft) . 10038
 Hole Size (in) 7.875
 Casing/Liner O.D. (in) ... 6.625
 Perf'd Interv./Nt Pay(ft).
 Shot Density/Diameter(in).

MUD PROPERTIES

Mud Type Cutbrine Drispack
 Mud Weight (lb/gal) 9.6
 Mud Resistivity (ohm.m) .. .01 @ 54 degree F.
 Filtrate Resistiv.(ohm.m).
 Filtrate Chlorides (ppm) . 81000

INITIAL TEST CONDITIONS

Initial Hydrostatic (psi). 5019
 Gas Cushion Type
 Surface Pressure (psi) ...
 Liquid Cushion Type
 Cushion Length (ft)

TEST STRING CONFIGURATION

Pipe Length (ft)/I.D.(in). 9218 / 3.83
 Collar Length ft/I.D.(in). 689 / 2.25
 Packer Depths (ft) 9959, 9964
 Bottomhole Choke Size(in). .93
 Gauge Depth (ft)/Type 10033 / J-300/5007

NET PIPE RECOVERY

Volume	Fluid Type	Properties
2475	Mud	81000 ppm chlorides

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
14.45 cuft	Gas	
1050 cc	Mud	
Press. 2750	GOR: 0	GLR: 2185

VALIDATION RESULTS

Model of Behavior Dual Porosity
 Fluid Type Used Gas
 Reservoir Pressure (psi) . 2430
 Transmissivity (md.ft/cp) 119.25
 Permeability (md) 0.109
 Skin Factor/Damage Ratio . 21.8 / 6.6
 Storativity Ratio
 Interporosity Flow Coeff..
 Distance to Anomaly (ft).
 Investigation Radius (ft). 6.7
 Potentiometric Surf. (ft).

ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API) ...
 Basic Solids (%)
 Gas Gravity 0.7 (est.)
 Water Cut (%) 0.0
 Viscosity (cp) 0.018
 Tot. Compress. (1/psi) ... 2.401 E-04
 Porosity (%) 10
 Reservoir Temperature (F). 180
 Form.Vol.Factor (bbl/STB).

PRODUCTION RATE DURING TEST: 90 mcf / day

COMMENTS:

This test was mechanically successful. Teleflow (tm) calculated gas flow rates at 90 mcf/d during the second flow period. Mud and gas were the drill pipe recovery from this test.

This analysis indicates that the formation is a two porosity system. Note that the shut in period did not reach infinite acting radial flow. Therefore, Horner straight line and calculated results may not be a correct representation of the formation. A more indepth analysis can verify the correct parameters.

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