REPORT NO. 103007 DST 2

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WELL PERFORMANCE TESTING™ REPORT

FLOPETROL JOHNSTON

Schlumberger

TEST DATE: 14-Aug-1987 A Production System Analysis (NODAL™) Based On Model Verified™ Interpretation

Company: SANTA FE ENERGY	Well: TRIPLE "S" 33 FEDERAL #1
TEST IDENTIFICATION	WELL LOCATION
Test Type MFE OH SPRO/TEL	
Test No Two	Field Sterling Silver
Formation Wolfcamp	County Eddy
Test Interval (ft) 9580 to 9666	State New Mexico
Reference Depth Kelly Bushing	Sec/Twn/Rng 33/ 22s/ 31e
HOLE CONDITIONS	Elevation (ft) 3404
Total Depth (MD/TUD)(ft) . 9666	MUD PROPERTIES
Hole Size (in) 7 7/8	Mud Type Fresh Water Gel
Casing/Liner I.D. (in)	Mud Weight (1b/gal) 9.0
Perf'd Interv./Nt Pay(ft) / 6	Mud Resistivity (ohm.m) 0.40 at 86 F
Shot Density/Diameter(in)	Filtrate Resistiv.(ohm.m)
	Filtrate Chlorides (ppm) . 12,000
INITIAL TEST CONDITIONS	TEST STRING CONFIGURATION
Initial Hydrostatic (psi). 4469	Pipe Length (ft)/I.D.(in). 8983 / 3.83
Gas Cushion Type None	Collar Length ft/I.D.(in). 541 / 2.25
Surface Pressure (psi)	Packer Depths (ft) 9574, 9580
Liquid Cushion Type Water	Bottomhole Choke Size(in), 15/16
Cushion Length (ft) 30	Gauge Depth (ft)/Type 9533 / SPRO
NET PIPE RECOVERY	NET SAMPLE CHAMBER RECOVERY
Volume Fluid Type Properties	Volume Fluid Type Properties
4234 feet Mud Heavily gas cut	2.24 SCF Gas
Rw 0.40 at 85 F	1560 cc Oil 43.5 API at 60 F
12,000 PPM	43.3 AFT UT BØ F
	Press. 1174 GOR: 215 GIR: 215
	Press. 1174 GOR: 215 GLR: 215
UALIDATION RESULTS  Model of Behavior Heterogeneous Fluid Type Used Dil Reservoir Pressure (psi) . 4059 Transmissivity (md.ft/cp) 0.29 Permeability (md) 0.06 Skin Factor/Damage Ratio2.08 / 0.34 Storativity Ratio Interporosity Flow Coeff Distance to Anomaly (ft). Investigation Radius (ft). 10 Potentiometric Surf. (ft). 3243	ROCK/FLUID/WELLBORE PROPERTIES  Oil Density (deg. API) 43.5  Basic Solids (%)  Gas Gravity
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## PRODUCTION RATE DURING TEST: 5 Bbls/day

## COMMENTS:

The results of the interpretation indicate that the well is in a non-homogeneous system (probably naturally fractured) with low effective permeability and with some wellbore stimulation at the time and conditions of the test. There was a drill pipe leak during the test so the TELEFLOW(tm) rates were not directly usable. The reported rate of 5 Bbls/day was determined from the difference in the total indicated pipe fillup rate and the apparent rate due to the leak. The difference in the extrapolations is believed to be due to the nature of the system and not due to depletion.