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WELL PERFORMANCE TESTING™
REPORT

FLOPETROL JOHNSTON

TEST DATE: 25-Sep-1987

A Production System Analysis (NDDAL™) Based On Model Verified™ Interpretation

Company: SANTA FE ENERGY	Well: STERLING SILUER "34" FEDERAL #1
TEST IDENTIFICATION  Test Type	WELL LOCATION  Field
Casing/Liner I.D. (in) Perf'd Interv./Nt Pay(ft) / 16 Shot Density/Diameter(in)	Mud Resistivity (ohm.m) 0.06 at 70 F Filtrate Resistiv.(ohm.m) Filtrate Chlorides (ppm) . 138,000
INITIAL TEST CONDITIONS Initial Hydrostatic (psi). 8151 Gas Cushion Type None Surface Pressure (psi) Liquid Cushion Type Fresh Water Cushion Length (ft) 6505	TEST STRING CONFIGURATION  Pipe Length (ft)/I.D.(in). 5112/2.,76 8385/2.60  Collar Length ft/I.D.(in). 983 / 2.25  Packer Depths (ft) 14443, 14449  Bottomhole Choke Size(in). 1/2  Gauge Depth (ft)/Type 14484 / SPRO
NET PIPE RECOUERY	NET SAMPLE CHAMBER RECOVERY
Uolume Fluid Type Properties	Volume Fluid Type Properties
1568 feet Cushion Trace of mud	No Sample: High rate washed the lower seal away.
	Press GOR: GLR:
UALIDATION RESULTS  Model of Behavior Homogeneous Fluid Type Used Gas Reservoir Pressure (psi) . 7714 Transmissivity (md.ft/cp) 18,915 Permeability (md) 37.83 Skin Factor/Damage Ratio . 40.52 / 7.26 Storativity Ratio Interporosity Flow Coeff Distance to Anomaly (ft). Investigation Radius (ft). 215 Potentiometric Surf. (ft)6857	ROCK/FLUID/WELLBORE PROPERTIES  Dil Density (deg. API) None  Basic Solids (%)

## PRODUCTION RATE DURING TEST: 14,790 mscf/day

## COMMENTS:

The results of the interpretation indicate that the well is in an assumed homogeneous system with good effective permeability and with some wellbore damage at the time and conditions of the test. The SPRO(tm) instrument indicated some unusual behavior in the final shutin (this was not seen on the mechanical chart). This pressure decrease could be due to the release of pressure in the drill pipe or it could be interference from other producing wells, or it could be phase redistribution in the test interval. Because of this behavior and the very short duration of the flow periods, these results (and the NODAL plots) are only considered to be general indicators.