

REPORT NO.  
102256 DST 2

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TEST DATE:  
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# WELL PERFORMANCE TESTING™ REPORT

FLOPETROL JOHNSTON



Based On Model Verified™ Interpretation

Company: SANTA FE ENERGY

Well: STERLING SILVER "34" FEDERAL #1

### TEST IDENTIFICATION

Test Type ..... MFE OH SPRO/TELE  
Test No. .... Two  
Formation ..... Lwr Atoka-Upr Morrow  
Test Interval (ft) ... 14356 to 14406  
Reference Depth ..... Kelly Bushing

### WELL LOCATION

Field ..... Wildcat  
County ..... Eddy  
State ..... New Mexico  
Sec/Twn/Rng ..... 34/ 23s/ 31e  
Elevation (ft) ..... 3449

### HOLE CONDITIONS

Total Depth (MD/TUD)(ft) . 14406  
Hole Size (in) ..... 6  
Casing/Liner I.D. (in) ... --  
Perf'd Interv./Nt Pay(ft). -- / 10  
Shot Density/Diameter(in). --

### MUD PROPERTIES

Mud Type ..... Drispac  
Mud Weight (lb/gal) ..... 11.1  
Mud Resistivity (ohm.m) .. 0.08 at 70 F  
Filtrate Resistiv.(ohm.m). --  
Filtrate Chlorides (ppm) . 140,000

### INITIAL TEST CONDITIONS

Initial Hydrostatic (psi). 8314  
Gas Cushion Type ..... None  
Surface Pressure (psi) ... --  
Liquid Cushion Type ..... Fresh Water  
Cushion Length (ft) ..... 6469

### TEST STRING CONFIGURATION

Pipe Length (ft)/I.D.(in). 5013/2.76 8305/2.60  
Collar Length ft/I.D.(in). 983 / 2.25  
Packer Depths (ft) ..... 14350, 14356  
Bottomhole Choke Size(in). 1/2  
Gauge Depth (ft)/Type .... 14306 / SPRO

### NET PIPE RECOVERY

Volume	Fluid Type	Properties
6469 feet	Cushion	

### NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Properties
13.6 SCF	Gas	
200 cc	Mud	0.07 @60F 130000 PPT
Press. 2918	GOR:	GLR:

### VALIDATION RESULTS

Model of Behavior .....  
Fluid Type Used .....  
Reservoir Pressure (psi) .  
Transmissivity (md.ft/cp)  
Permeability (md) .....  
Skin Factor/Damage Ratio .  
Storativity Ratio .....  
Interporosity Flow Coeff..  
Distance to Anomaly (ft).  
Investigation Radius (ft).  
Potentiometric Surf. (ft).

### ROCK/FLUID/WELLBORE PROPERTIES

Oil Density (deg. API) ... None  
Basic Solids (%) .....  
Gas Gravity .....  
Water Cut (%) .....  
Viscosity (cp) .....  
Tot. Compress. (1/psi) ...  
Porosity (%) .....  
Reservoir Temperature (F). 208  
Form.Vol.Factor (bbl/STB).

PRODUCTION RATE DURING TEST: --

### COMMENTS:

This test was mechanically successful and the zone did produce gas for proper reservoir fluid identification. The zone did not produce enough gas to establish a flowrate against the volume of water cushion used. The general character of the buildup plots suggest that the zone has low effective permeability and no wellbore damage at the time and conditions of the test.