

# **DRILLING PROGRAM**

**SANTA FE ENERGY RESOURCES, INC.**

**Roaring Springs "13" Fed #2**

In conjunction with Form 3160-3, Application to Drill the subject well, Santa Fe Energy Resources, Inc. submits the following ten items of pertinent information in accordance with Onshore Oil & Gas Order No. 1.

1. **Geologic Name of Surface Formation:** Alluvium

2. **Estimated Tops of Significant Geologic Markers:**

San Andres	585'	Barnett	9640'
Glorieta	2160'	Mississippian	9920'
Bone Spring	3875'	Woodford	10280'
Wolfcamp	7200'	Devonian	10325'
Cisco	7540'	Montoya	11100'
Atoka	8710'	Total Depth	11300'
Morrow	9100'		

3. **The estimated depths at which water, oil or gas formations are expected:**

Water	None expected in area
Oil/Gas/Water	Cisco/Canyon 7530'-8000'

4. **Proposed Casing Program:** See Form 3160-3 and Exhibit A

5. **Pressure Control Equipment:** See Exhibit B

6. **Drilling Fluid Program:** See Exhibit C

7. **Auxiliary Equipment:** A mud logging unit will be utilized to monitor penetration rate and hydrocarbon shows while drilling below the intermediate casing at 1953'

8. **Testing, Logging and Coring Program:**

Drill Stem Tests: (all DST's to be justified on the basis of valid show of oil or gas):

Two Drill Stem Tests are Planned to evaluate the permeability of the Devonian/Montoya formation.

Devonian	10325'-10625'
Montoya	11100'-11300'

Logging:

Dual Laterolog W/MSFL and Gamma Ray	1953'-11300'
Compensated Neutron/Litho-Density/Gamma Ray	1953'-11300'
Compensated Neutron/Gamma Ray (thru csg)	Surface-1953'

Coring: None Planned