

DRILLING PROGRAM
SANTA FE ENERGY RESOURCES, INC.
Sinagua "19" Federal No. 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:**

| | |
|----------------------|---------|
| Rustler Anydrite | 1,490' |
| Top of Salt | 1,630' |
| Base of Salt | 3,130' |
| Yates | 3,310' |
| Delaware | 5,400' |
| Bone Spring | 8,350' |
| 1st Bone Spring Sand | 9,350' |
| Wolfcamp | 11,250' |
| Strawn | 12,250' |
| Atoka | 12,500' |
| Morrow | 12,850' |
| Lower Morrow | 13,400' |
| Total Depth | 14,000' |
3. **The estimated depths at which water, oil or gas formations are expected:**

| | |
|-------|-------------------------|
| Water | None expected in area |
| Oil | Bone Spring 9400'-9500' |
| Gas | Morrow 13,300'-400' |
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 casing point at 5200.
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):

| | |
|-------------|---------------|
| Bone Spring | 9400'-9500' |
| Morrow | 13300'-13400' |

Logging:

| | |
|---|---------------|
| Dual Laterolog W/MSFL and Gamma Ray | 5200'-14000' |
| Compensated Neutron/Litho-Density/Gamma Ray | 5200'-14000' |
| Compensated Neutron/Gamma Ray (thru csg) | Surface-5200' |
| Phasor Induction/SFL/Gamma Ray | 5200'-14000' |

Coring: No conventional cores are planned