

## **SUPPLEMENTAL DRILLING DATA**

**RELIANCE OPERATING COMPANY  
FEDERAL D-3  
1120' FSL & 1420' FEL  
Section 31, T-9S, R-36E  
Lea County, New Mexico**

The following items supplement Form 3160-3 in accordance with instructions contained in Onshore Oil and Gas Order No. 1

**1. SURFACE FORMATION:**

**Quaternary Fill**

**2. ESTIMATED TOPS OF GEOLOGIC MARKERS:**

<b>YATES</b>	<b>2795'</b>
<b>SAN ANDRES</b>	<b>4060'</b>
<b>ABO</b>	<b>7670'</b>
<b>WOODFORD</b>	<b>11,866'</b>

**3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATIONS:**

<b>Water-</b>	<b>100' to 350'</b>
<b>Oil-</b>	<b>4000' to 12,300'</b>
<b>Gas-</b>	<b>4000' to 12,300'</b>

**4. PROPOSED CASING PROGRAM:**

<b>13 3/8" X 48-54.5#</b>	<b>J-55</b>	<b>Set to 450'+-</b>
<b>8 5/8" X 32#</b>	<b>J-55</b>	<b>Set to 4500'+-</b>
<b>5 1/2" X 17-20#</b>	<b>J-55</b>	<b>Set to 12,300'+-</b>

Surface, intermediate and production casing strings will be tested to 2000 psi.

**5. PRESSURE CONTROL EQUIPMENT:**

Pressure control equipment will include a 5000# BOP stack-Series 1100 with blind and pipe rams. The BOP stack will include kill line and choke manifold tested to 5000 psi. BOP, accumulator and systems will be operated at least daily. A diagram sketch of the BOP stack is attached as Exhibit E.