

OPERATIONS PLAN

WELL NAME: Cox Canyon Com. #19

I. LOCATION: 1125' FNL & 1450' FWL

LEASE NUMBER: SF 078231

FEILD: Blanco - Pictured Cliffs

ELEVATION: 6372'GR

II. GEOLOGY:

A. Formation Tops:

Ojo Alamo: 1847'
Kirtland: 1974'
Fruitland: 2772'
Pictured Cliffs: 3087'

Total Depth: 3207'

B. Logging Program: I-ES and Density at T.D.

C. Coring Program: None

D. Testing Program: None

III. DRILLING:

A. Anticipated starting date and duration of activities:

B. BOP: Blind rams and pipe rams, 10', 900 series, double gate, rated at 3000 PSI.

C. Mud Program:

a) Spud Mud: Water, lime and gel.

b) Surface to 2950'

Starloss: CMC mud.

Viscosity: 25-30 sec/qt.

Weight: 8.9-9.0 #/gal.

Water Loss: 7-12 cc.

Ph: 8.5-9.5

c) From: 2950' To: 3207'

Starloss: CMC Hy-gel mud.

Viscosity: 38-80 sec/qt.

Weight: 9.0-9.5 #/gal.

Water Loss: 6-8 cc.

Ph: 8.5-9.5

IV. MATERIALS:

A. Casing Program:

<u>Hole Size</u>	<u>Depth O.H.</u>	<u>Casing Size</u>	<u>Wt. & Grade</u>	<u>Depth Set</u>
12 1/4"	150'	8 5/8"	24# K-55	150'
6 3/4"	3207'	2 7/8"	6.4# K-55	3207'

V. CEMENTING:

A. Surface Casing 8 5/8" - Use 85 sks. Class "B" cement with 1/4# flocele/sk and 3% calcium chloride (100% excess to circulate). WOC 12 hours. Test surface casing to 600 PSI for 30 minutes.

V. Cementing con't.

B. Production Casing 2 7/8" - Use 160 sks 65/35 poz with 10% gel and 1/4 cu. ft. fine gilsonite/cu. ft. slurry and tail in with 50 sks. Class "B" cement with 2% calcium chloride. WOC 24 hours. Run temperature survey after 12 hours.

JPS/ch