

HOBBS OFFICE O.C.C.

APR 16 2 16 PM '69

Attachment to C-105

Sam Boren Crowley State "A" Well No.1 Section 5, T12S, R33E,  
NMPM Lea County

1. With respect to Gas lift installation - See Otis Engineering Co. diagram of downhole installation.

Otis Engineering Co. estimated that with existing Wolfcamp Gas Reservoir Pressures that 300,000 ft<sup>3</sup> of gas per day would pass through 5/64" choke in the side door port to gas lift the Ranger Lake Zone production.

On a daily basis 300 MCF of the 400 MCF of gas produced from the tubing would be gas lift gas. Thus the gas oil ratio of the Ranger Lake Zone would be.

$$\frac{(400,000 - 300,000) \text{ ft}^3}{105 \text{ BOPD}} = 952 \text{ ft}^3 / \text{bbl}$$

2. The Wolfcamp Gas Zone is produced on the casing side and the zone has been tested during the past 60 days.

On a test 4-2-69

Surface Pressure shut in	2070 psi
Flowing Surface pressure	1885 psi
Choke size	14/64
Rate	2900 MCFD
Line Pressure	900 psi

The Wolfcamp zone produces 13.3 barrels/MMCF of water white 59° API condensate.

The Wolfcamp Zone (Casing completion) is shut in waiting on a high pressure gas connection and designation of a new gas pool.