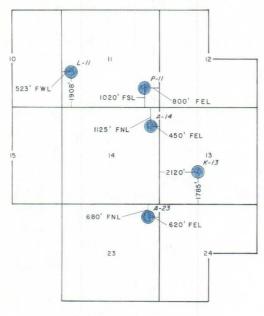
PLAT OF THE FOUR PHASES

OF THE

1965 - 66 INTERFERENCE TEST NIOBRARA - GREENHORN PARTICIPATING AREA

CANADA OJITOS UNIT

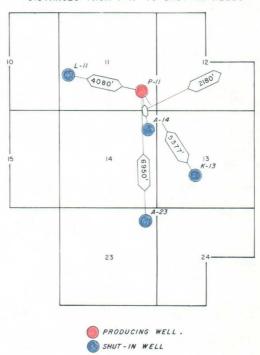




ALL WELLS SHUT - IN

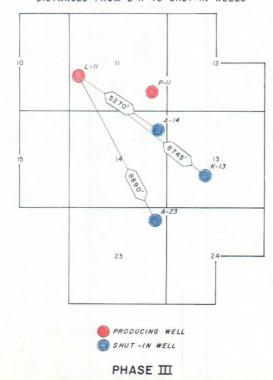
PHASE I

DISTANCES FROM P-II TO SHUT-IN WELLS

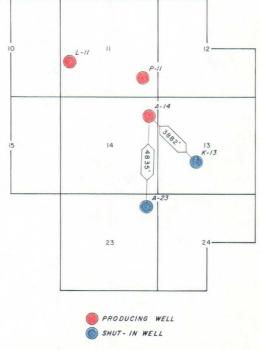


PHASE II

DISTANCES FROM L-II TO SHUT-IN WELLS

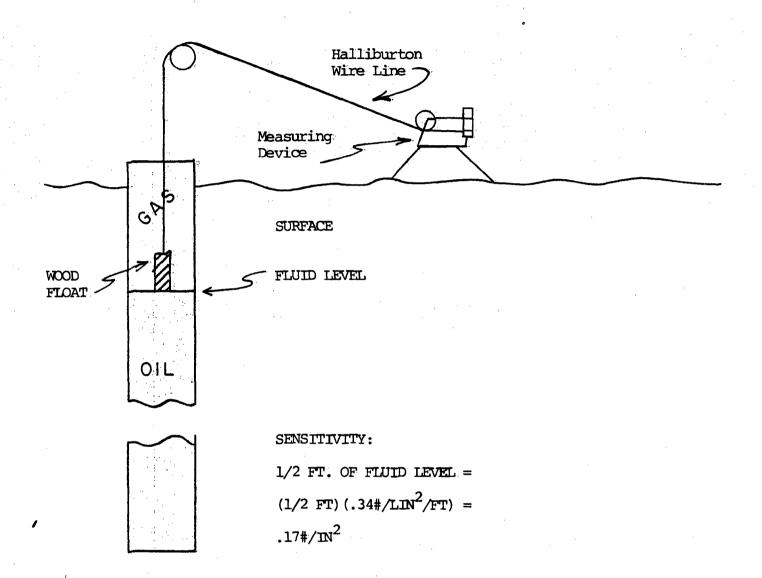


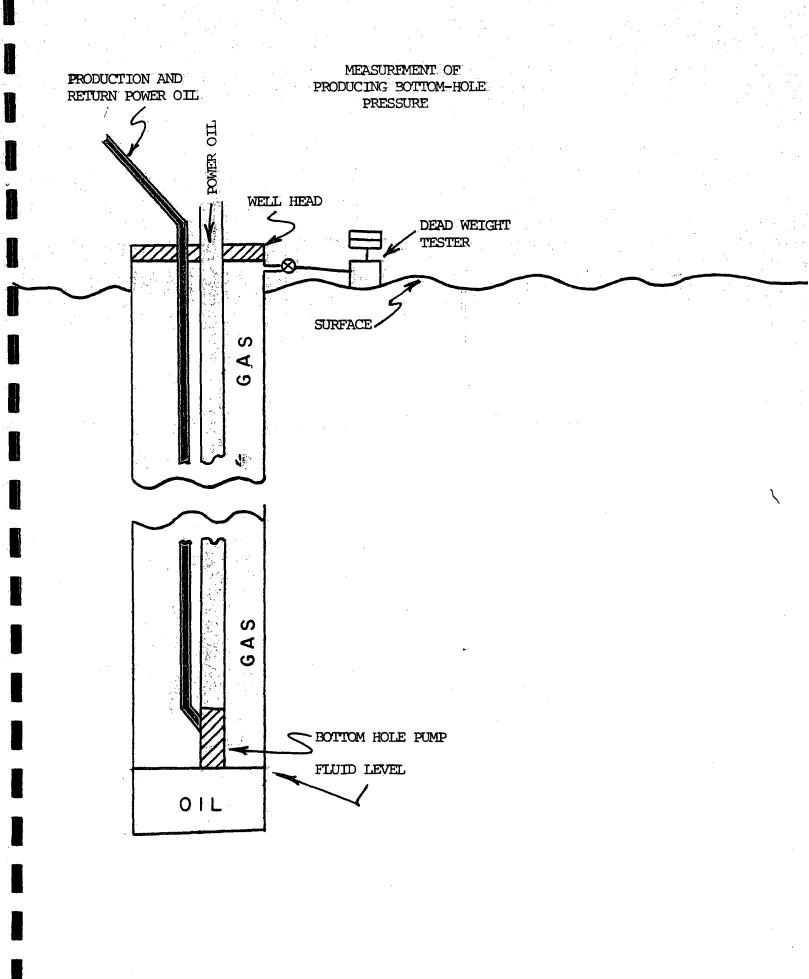
DISTANCES FROM A-14 TO SHUT-IN WELLS



PHASE IV

SKETCH OF FLUID LEVEL MEASURING EQUIPMENT





PER-ACRE OIL IN PLACE CANADA OJITOS UNIT NIOBRARA PARTICIPATING AREA

Liver gar tracky the array.

DETERMINED FROM INTERFERENCE TEST SEDMEMBER OCTORER 1065

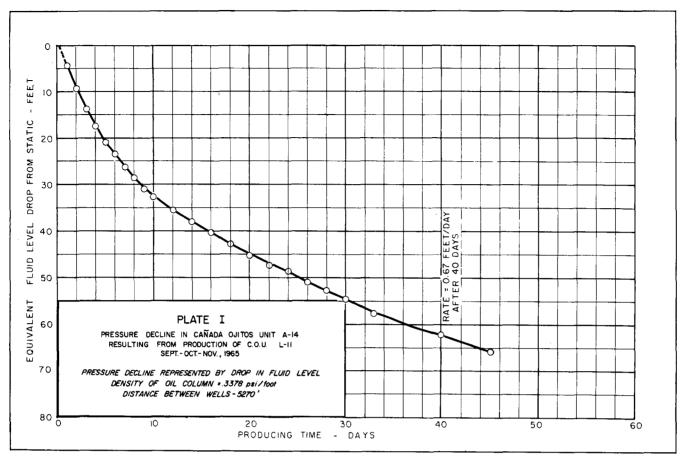
	SELTENDE	211-00-1 <i>(</i>	JDEN. 190 <u>0</u>	
L-11	PRODUCING,	A-14	OBSERVATION	WELL

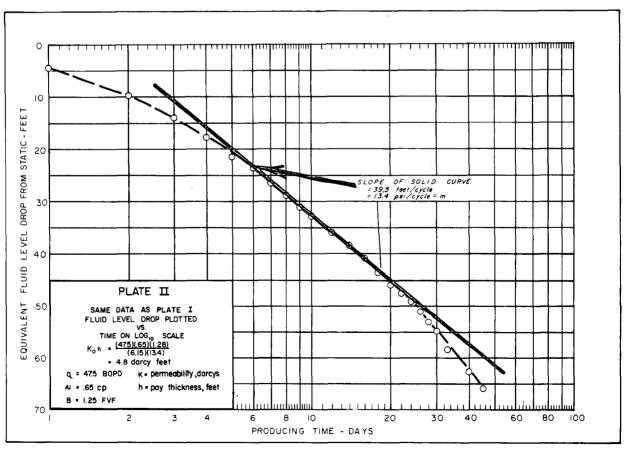
TIME AFTER START OF TEST AT WHICH INTERFERENCE PRESSURE DROP MEASURED		PLACE ELS/ACRE FOR ASSUMED ESSIBILITY INDICATED) For C _e = 50 x 10-6
l day	2250	890
2 days	2520	1010
3 days	2670	1070
4 days	2740	1090
5 days	2660	1050
6 days	2600	1030
8 days	2520	1010
10 days	2460	980
12 days	2420	960
14 days	2440	970

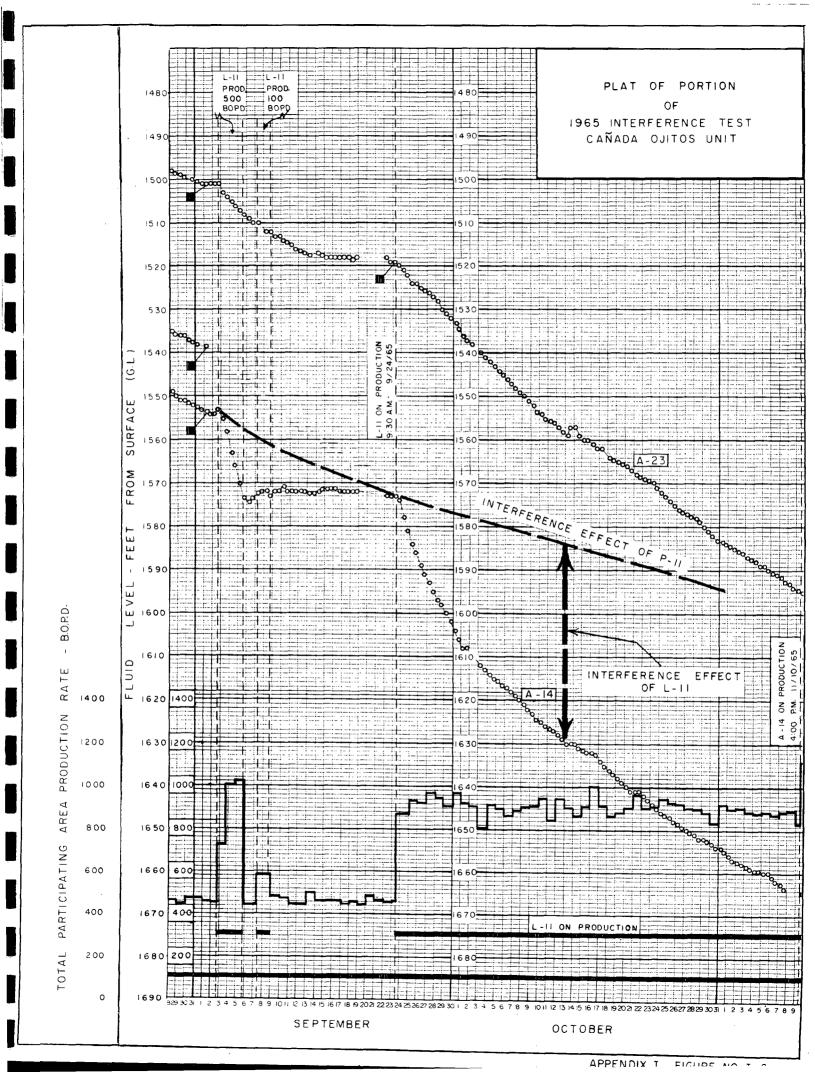
 $C_e = 20 \times 10^{-6}$ results from assumed undersaturated compressibility of 10.5 x 10⁻⁶, connate water 3.3 x 10⁻⁶, formation compressibility of 6.7 x 10⁻⁶ and NOTE: (1) saturation as follows:

> Undersaturated oil 75% of pore space Saturated oil - 0 Connate water 25% of pore space

 $C_e = 50 \times 10^{-6}$ results from same values of fluid compressibilities but with formation compressibility of 23 x 10^{-6} and connate water saturation of 40% (assumed also no saturated oil in reservoir) (2)



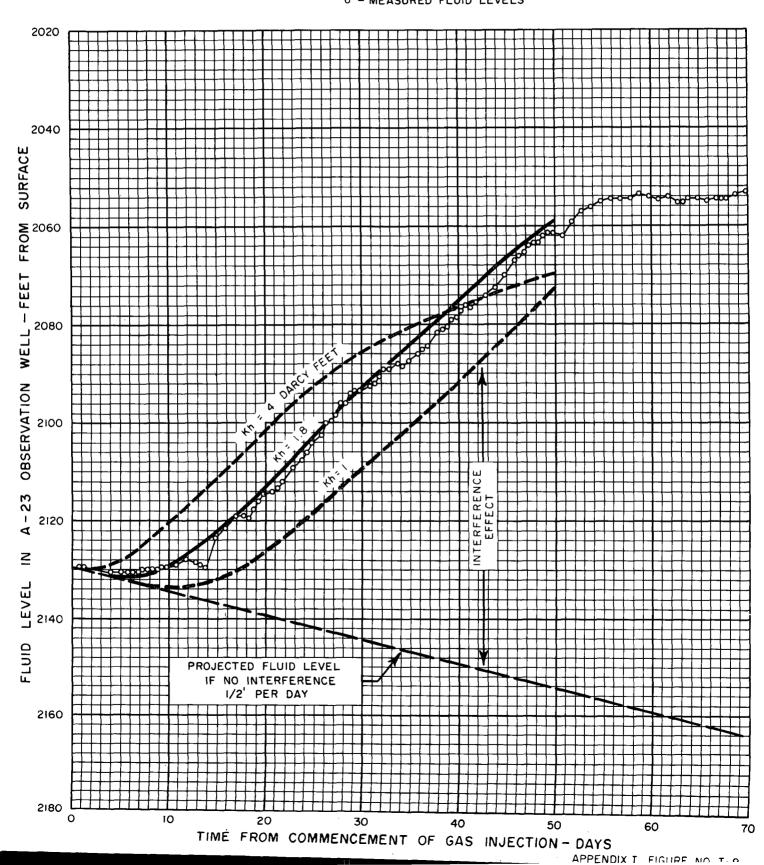




COMPARISON OF ACTUAL INTERFERENCE EFFECT OF INITIAL GAS INJECTION ON FLUID LEVEL OF A-23 OBSERVATION WELL WITH CALCULATED EFFECTS

FOR CONDITIONS OF:

C_e = 415 x IO⁻⁶ F.V.F. = 1.28 •h = 1600 BBLS/ACRE STOCK TANK OIL AND TRANSMISSIBILITIES AS SHOWN • - MEASURED FLUID LEVELS

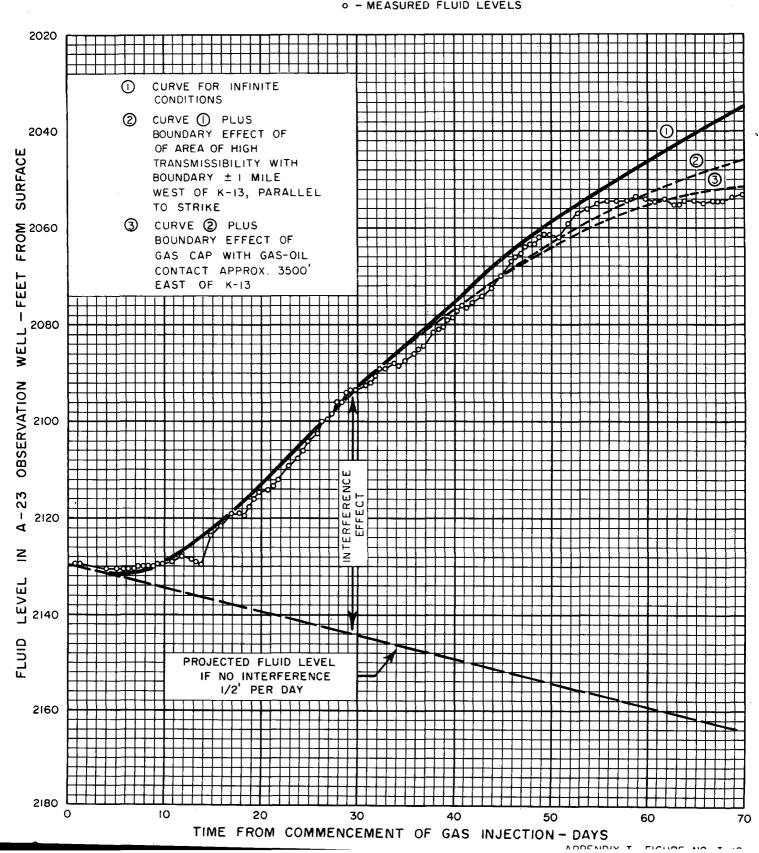


COMPARISON OF ACTUAL INTERFERENCE EFFECT OF INITIAL GAS INJECTION ON FLUID LEVEL OF A-23 OBSERVATION WELL WITH CALCULATED EFFECTS

FOR CONDITIONS OF: $C_e = 415 \times 10^{-6}$ F.V.F. = 1.28

TRANSMISSIBILITY = 1.8 DARCY FEET

- MEASURED FLUID LEVELS



PLAT OF PART

OF

CAÑADA OJITOS UNIT

SHOWING ESTIMATED

RESERVOIR TRANSMISSIBILITY

BY AREAS OF TESTS

EZZZ 2.5 TO 3.5 DARCY FEET

EZZZ 2.5 TO 10 DARCY FEET

EZZZ 10 10 DARCY FEET