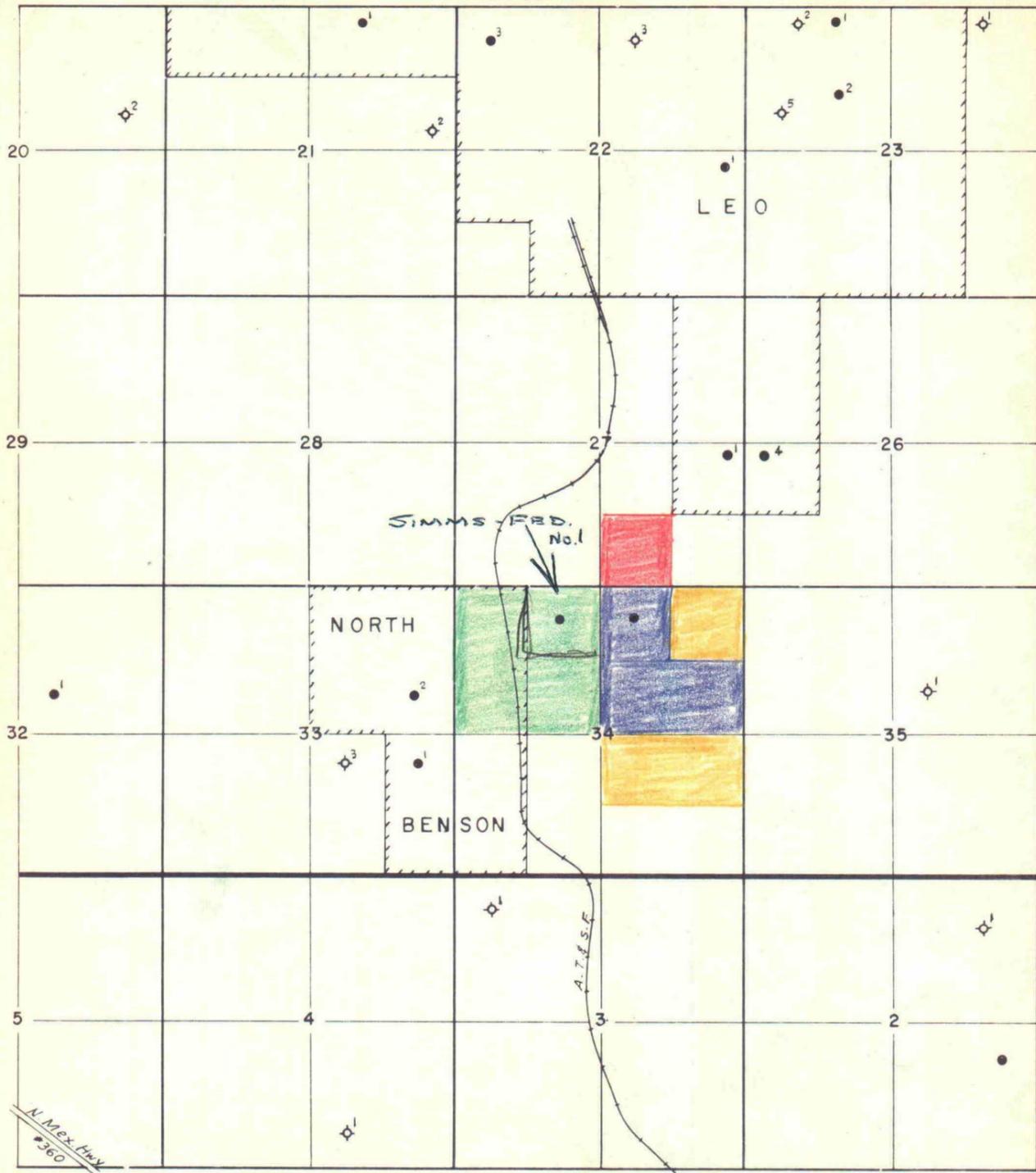


R. 30 E.



T. 18 S.

T. 19 S.

- SIMMS & Reese Tract
- Featherstone Tract
- Jones tract
- Tenaco tract

**NORTH BENSON FIELD**  
 Eddy County, New Mexico  
 SCALE: 2" = 1 MILE

**BEFORE EXAMINER UTZ**  
 OIL CONSERVATION COMMISSION  
 EXHIBIT NO. 1  
 CASE NO. 2397



**READING AND BATES, INC.**  
DRILLING CONTRACTORS  
GENERAL OFFICE — PHILTOWER BUILDING  
TULSA 3, OKLAHOMA

CABLE ADDRESS  
REBAT-TULSA  
PHONE LU 3-8525

October 3, 1961

New Mexico Oil Conservation Commission  
Docket No. 27-61  
Examiner Hearing - October 4, 1961

Case 2397

Re: Temporary Exception to Rule 107 (d)

Reading and Bates, Inc. operator of the Simms-Federal Well No. 1 located in Section 34, Township 18 South, Range 30 East, North Benson Queen Pool, Eddy County, by letter has requested an exception to Rule 107 (d) of the Rules and Regulations to permit production of oil from the Queen formation in the Simms Well without installing tubing for a temporary period of up to six months.

Shut-in pressures averaging 550# - 600# indicate the necessity of killing the well with salt water to make it safely and mechanically possible to change from the Dowell three-way frac head through which the well is now flowing, to a conventional tubing head. It is contended that subjecting the producing formation to salt water may be detrimental to the well's producing ability and may ultimately lower the oil recovery from the reservoir.

On a recent Gas Oil Ratio test, the well produced oil through a 20/64" choke at the rate of 17.7 barrels per hour with a maximum gas/oil ratio of 1528 cubic feet per barrel. Flowing casing pressures ranged from 380# to 335#.

Maximum bottom hole pressure is indicated to be approximately 1669 pounds assuming a full column of 37° gravity oil. A hole full of 10.2# saturated salt water will exert a pressure of only 1537 pounds.

It is our contention that continued production of the well through the casing without installing tubing will not be wasteful of solution gas energy, and by postponing the installation of tubing until pressures decline somewhat, possible reservoir damage may be averted.

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. <u>2</u>
CASE NO. <u>2397</u>

New Mexico Oil Conservation Commission  
Docket No. 27-61  
Examiner Hearing - October 4, 1961 ---- 2

At such time as it is mechanically feasible to place tubing in the well without subjecting the formation to salt water or fluids other than oil the well will be tubed.

Reading and Bates, Inc. Simms No. 1

2938  
    .364  
-----  
17628  
  8814  
-----  
1069432  
  608  
-----  
1669.

Well Data

Total Depth to Bottom Perf.	2,938
Oil Gravity	37°
Pressure of 37° Grav. oil exerted per ft.	.364 #/sq. in.
Pressure of fresh water	.433 #/sq. in.
Pressure of 10.2# salt water	.530 #/sq. in.
Maximum surface pressure	600#
2,938 ft. oil column pressure	1069.4#
Bottom hole pressure indicated	1669.4#
Maximum bottom hole pressure - Fresh water load	1272.
Maximum bottom hole pressure - Salt water load	1537.
5 1/2 inch casing capacity - 2938	69.9 bbls.
Daily Allowable	34 bbls.

ENGINEER	UTZ
IN CHARGE	UTZ
CASE NO.	3
DATE	3/17