

NEW MEXICO OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Humble Oil & Refining Company Lease N. M. State M

Well No. 4 Unit Letter C S 19 T 22S R 37E Pool Arrow Gas

County Lea Kind of Lease (State, Fed. or Patented) State

If well produces oil or condensate, give location of tanks: Unit J S 18 T 22S R 37e

Authorized Transporter of Oil or Condensate Texas-New Mexico Pipe Line Co.

Address Box 1510, Midland, Texas

(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas El Paso Natural Gas Company; Skelly Oil Company

Address Jal, New Mexico; Demise, New Mexico

(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well ( )

Change in Transporter of (Check One): Oil ( ) Dry Gas ( ) C'head ( ) Condensate ( )

Change in Ownership ( ) Other (X)

Remarks: (Give explanation below)

**Reclassified as a gas well.**

**High pressure gas to be transported by El Paso Natural Gas Company, low pressure flash gas to be transported by Skelly Oil Company.**

**Permission is requested to commingle fluid hydrocarbons produced from this well with oil produced from other wells on this lease in the Arrowhead Pool.**

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 21st day of February 19 56

Approved 19

OIL CONSERVATION COMMISSION

By C. M. Linder

Title Engineer District 1

RMC/mcb

By M. M. Rogers

Title Agent

Company Humble Oil & Refining Company

Address Box 2347, Hobbs, New Mexico

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1. The first group of people who are interested in the results of the study are the researchers themselves. They want to know if the study was successful in achieving its objectives and if the results are consistent with their expectations.

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6. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

1. 2. 3.

$$f_{\text{max}} = \frac{1}{2\pi} \sqrt{\frac{1}{L C_{\text{eff}}}} = \frac{1}{2\pi} \sqrt{\frac{1}{L (C_1 + C_2)}} = \frac{1}{2\pi} \sqrt{\frac{1}{L C_1 (1 + \frac{C_2}{C_1})}} = \frac{1}{2\pi} \sqrt{\frac{1}{L C_1}} \frac{1}{\sqrt{1 + \frac{C_2}{C_1}}} = f_{\text{max0}} \frac{1}{\sqrt{1 + \frac{C_2}{C_1}}} \quad (1)$$

*Journal of Management Education* 30(6)p. 789-804