

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(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 South Four Lakes Unit

Well No. 2 Unit Letter G S 2 T 12S R 34E Pool Four Lakes Devonian Gas

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

If well produces oil or condensate, give location of tanks: Unit G S 2 T 12S R 34E

Authorized Transporter of Oil or Condensate Service Pipe Line Company

Address Box 337 - Midland, Texas

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

Authorized Transporter of Gas El Paso Natural Gas Products Co.

Address Jal, New Mexico Date Connected _____

(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)

Liquids derived from compressor plant operations.

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

Executed this the 24th day of December 19 59

By J. R. March

Approved _____ 19 _____

Title Agent

OIL CONSERVATION COMMISSION

Company Humble Oil & Refining Company

By [Signature]

Address Box 2347 - Hobbs, New Mexico

Title _____

On the other hand, the α and β components of the \mathbf{H} vector

$$H_x = H \cos \theta \cos \phi, \quad H_y = H \sin \theta \cos \phi, \quad H_z = H \sin \theta \sin \phi \quad (1)$$

are given by the following relations, where θ is the angle between the \mathbf{H} vector and the z -axis, and ϕ is the angle between the \mathbf{H} vector and the x -axis.

$$H_x = H \cos \theta \cos \phi, \quad H_y = H \sin \theta \cos \phi, \quad H_z = H \sin \theta \sin \phi$$

where θ is the angle between the \mathbf{H} vector and the z -axis,

$$\theta = \cos^{-1} \frac{H_z}{H}$$

or

$$\cos \theta = \frac{H_z}{H} \quad (2)$$

$$\sin \theta = \frac{\sqrt{H_x^2 + H_y^2}}{H} \quad (3)$$

or

$$\sin \theta = \frac{\sqrt{H_x^2 + H_y^2}}{H} \quad (4)$$

$$\cos \theta = \frac{H_z}{H} \quad (5)$$

or