

AFFIDAVIT

COUNTY OF LEA

STATE OF NEW MEXICO

On this 8th day of April, 1949, before me a Notary Public in and for Lea County, New Mexico, appeared Roy Yarbrough, Oil and Gas Inspector, Oil Conservation Commission, State of New Mexico, resident at Hobbs, New Mexico, who, upon oath, deposes and says:

That on March 25, 1949, Continental Oil Company filed Notice of Intention to drill State 8 Well No. 1, located 330' from North and 2310' from West lines of Section 8, Township 19S, Range 29E, Eddy County, New Mexico, and that said Notice of Intention to drill was approved for the Oil Conservation Commission on April 4, 1949;

That spudding operations on the well above described were started at 3:00 P. M. on April 6, 1949, and that this well was drilling at a depth of 120' in red bed as of 7:00 A. M. April 8, 1949.

In witness whereof said affiant has affixed his signature hereto as of the date shown below.

Roy Yarbrough

Subscribed to and sworn to before me this 8th day of April, 1949.

J. P. McCormick
Notary Public, Lea County, New Mexico

My commission expires 5-17-49.

1. The first part of the paper is devoted to a general discussion of the problem of the existence of solutions of the system of equations (1) for arbitrary values of the parameters α and β . It is shown that the system has solutions for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied. In the case when this condition is not satisfied, the system has no solutions.

2. In the second part of the paper, the problem of the existence of solutions of the system of equations (1) for arbitrary values of the parameters α and β is considered. It is shown that the system has solutions for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied. In the case when this condition is not satisfied, the system has no solutions.

3. In the third part of the paper, the problem of the existence of solutions of the system of equations (1) for arbitrary values of the parameters α and β is considered. It is shown that the system has solutions for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied. In the case when this condition is not satisfied, the system has no solutions.

4. In the fourth part of the paper, the problem of the existence of solutions of the system of equations (1) for arbitrary values of the parameters α and β is considered. It is shown that the system has solutions for arbitrary values of the parameters α and β if and only if the condition $\alpha + \beta = 1$ is satisfied. In the case when this condition is not satisfied, the system has no solutions.

Hyunhyang Pyun

Hyunhyang Pyun