

COPY
CABOT CARBON COMPANY
BOX 1101
PAMPA, TEXAS

Handwritten: *See D-20 7/17/59*
June 30, 1959

Re: Salt Water Disposal Application
King Field, Lea County, New Mexico

Mr. A. L. Porter, Jr.
Secretary & Director
New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Dear Sir:

Cabot Carbon Company wishes to obtain administrative approval on its application to dispose salt water into its Howard Fleet Well No. 4 (Unit O, Section 35, T-13-S, R-37-E) King Field, Lea County, New Mexico. We are enclosing a field plat, electric log on subject well, and a diagrammatic sketch of the well along with the application.

We propose to perforate opposite the Lower San Andres formation between the interval 5840' and 6000' and attempt to circulate the drilling mud out of the annulus between the 5-1/2" casing and the 8-5/8" casing above the perforations. If this is successful, the bradenhead valve for this annulus will be closed. We will then attempt to inject water into the perforations. If partial success is obtained, we will acidise and/or frac to attempt to increase injectivity as well as to lower required injection pressure. If the perforations will take a volume of water greater than present requirements at a reasonable pressure, we propose to run tubing set on a packer and install gathering system and surface equipment. The annuli between tubing and 5-1/2" casing and between the 5-1/2" casing and 8-5/8" casing will be filled with oil.

We assume the injection interval will be the San Andres; however, as can be noted on the diagrammatic sketch the water could be entering any zone from 8775' to 4612'. We have not encountered any productive oil or gas zones in this 4163' interval in any King Field wells. We believe that our casing and cementing program originally employed protects all fresh water zones as well as any prospective oil and/or gas zones; therefore, we are fulfilling your State requirement to protect such formations.

Drilling samples have never warranted testing the San Andres in the King Field and the electrical logs have always shown the interval to have a high water saturation. In light of these facts, we have no assurance the San Andres will take water. The outlined procedure will greatly increase the possible disposal interval and save considerable expense; therefore, we ask for administrative approval.

Yours very truly,

Joe M. Daniel, Jr.
Joe M. Daniel, Jr.
Senior Petroleum Engineer

JMD:mn

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