13 N 10 24

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

Dear Sir:

Champlin Oil and Refining Company operates the Featherstone Federal lease (06171-A), Them (Wolfcamp) Field, Lea County. We believe the No. 1 well of this lease is not being effectively produced by the producing arrangement new being utilized; therefore, Champlin, with the approval of the New Member Cil Conservation Commission, proposes changing the method of production as herein described.

The well is now being produced by a parallel (2" x l"), free Kobe pump. The 2" tubing marries power oil to the hydraulic bottom hole pump, and both the power oil and the formation fluid are transmitted back to the surface through the 1" tubing.

The proposed installation, a Casing Free Kebe, will involve setting a permanent type maker above the perferations. The 2" tubing will then be run through the packer, and a free hydraulic pump will be set in this string. Pewer oil will be injected down the 2" tubing to the bottom-hole pump, and both the power oil and the formation fluid will be returned through the annular area to the surface, where it will discharge to the heater treater at approximately 40 paig.

This proposed installation is a very common solution to some of the problems inherent is bettem-hole hydraulic pumping—for instance high power oil pressures and passefin difficulties in the 1" string. Its chief disadvantage is in the handling of excessive amounts of gas.

Champlin respectfully requests your approval of the proposed installation at your consideration in this matter.

> Yours very truly, CHAMPLIN OIL & REFINING CO.

District Engineer

CEB: bg Encl:

Diagramatic Sketch Attacked

cc: A. L. Porter, Jr. (2)

1958 AUG 13 AM = 10 924 + Oil TUBING KOBE PUMP MODEL "D" PACKER AT APPROX 9900' PRESENT PERFORATIONS 9939-9949

PROPOSED PRODUCING METHOD

CHAMPLIN OIL & REFINING COMPANY'S

FEATHERSTONE FEDERAL WELL No. 1

BAUM (Wolfcamp) FIELD, LEA COUNTY

50 .1

OIL JONSERVATION COMMISSION

P. O. BOX BY:
SANTA FE, NEW MEXICO
HOBBS OFFICE OCC

1958 AUG 13 AM 10:24

August 11, 1958

Champlin Oil and Refining Company P. O. Box 1797 Midland, Texas

Attention: Mr. C. E. Beavers

Gentlemen:

Reference is made to your letter of August 6, 1958, wherein you have proposed the installation of a Casing Free Kobe Pump in your Featherstone-Federal Well Se. 1, legated in the Baum-Welfcamp Pool, Lea County, New Mexico,

Recognizing that the use of easing hydraulic pumps is a common means of solution to certain hydraulic pumping problems encountered, particularly when large volumes of fluid are involved or when paraffin is present, this effice has no objection to the use of such pumps, providing that the well is equipped with a good casing string properly cemented.

Champlin Oil and Refining is therefore, authorised to install a Kobe Free Casing Pump in its Featherstone Federal Well No. 1, located in the Baum Wolfcamp Pool, Lee County, New Mexico, subject to approval by the Hobbs District Office in the usual manner.

Very truly yours,

A. L. PORTER, Jr., Secretary-Director

ALP/DSN/og cc: Oil Conservation Commission - Hobbs

ON JONSERVATION COMMISSION P. O. BOX 871 SANTA FE, NEW MEXICO

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to Mr. Tiber 4)

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