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WESTERN UNION

1201

W. P. MARSHALL, PRESIDENT

SYMBOLS

DL=Day Letter
NL=Night Letter
LT=Int'l Letter Telegram
VLT=Int'l Victory Ltr.

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LA24 SSE219

1952 SEP 22 PM 1 44

L. ARA047 PD=ARTESIA NMEX 22 131P=

W B MACEY, ENGR=

NMEX OIL CONSERVATION COMMISSION SANTA FE NMEX=

AIR MAILED REQUEST TO YOU FOR HEARING YESTERDAY=

HAROLD KERSEY=

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

Memo

From
WILLIAM B. MACEY
Chief Engineer

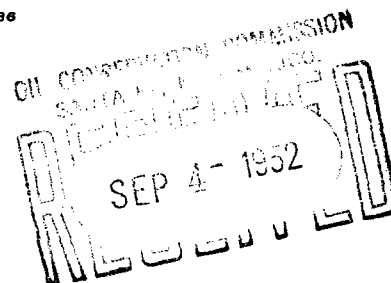
To RRS.

I believe we
ought to talk to
Kersey about this. It
will take a hearing
but his proposal is
vague as hell.

I agree WBM

KERSEY & COMPANY
OIL WELL DRILLING CONTRACTORS
210 BOOKER BLDG. -:- P. O. BOX 305 -:- PHONE 386
ARTESIA, NEW MEXICO

Sept. 2, 1952



Oil Conservation Commission
Santa Fe, N. Mex.

Gentlemen:

Attached hereto is a plat showing a proposed water flooding project in Sec. 19 T17S R28E, Eddy County, N. Mex. The plat shown is tentative and the number of new wells indicated will only be drilled when it is proven by a test well that the area under consideration will water flood successfully.

The names of operators holding leases within one-half mile of the proposed project are: Dean & White Oil Co., Delhi Oil Co., and A. H. Hover et al.

A core analysis has been made on the producing horizon and it is the opinion of our consultants that this formation (Yates-Seven Rivers) can be water flooded profitably.

The water for flooding will be obtained from around 250' to 300' and a water well will be drilled for this purpose.

On the water input wells it is proposed to follow this program: (1) Set 7" casing to shut of water around 300'. (2) Drill into pay and lightly shoot pay. (3) Clean out and set 2" tubing with perforation in pay section. (4) Place gravel around perforation in pay section and 1' of sand on top of gravel and then 10 sacks of cement on top of sand. (5) Mud the hole back to surface around the 2" tubing and pull the surface casing.

It is proposed to inject a maximum of 25 bbls of water per day into each input well. This will be injected into the Yates-Seven Rivers pay which is around 600'. A representative log of existing wells on the lease is enclosed.

The name of the operator for the proposed work is Olen F. Featherstone whose address is 210 Booker Bldg., Artesia, N. Mex.

We would appreciate your study and consideration of this project. If there is any further information you may require please call on us.

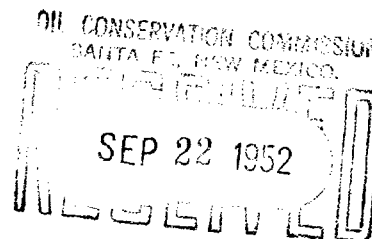
Yours very truly,

Harold Kersey
Harold Kersey

HK:ML
2 - Encl.

KERSEY & COMPANY
OIL WELL DRILLING CONTRACTORS
210 BOOKER BLDG. -:- P. O. BOX 305 -:- PHONE 386
ARTESIA, NEW MEXICO

Sept. 20, 1952



New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, N. Mex.

Gentlemen:

Olen F. Featherstone is the operator of a Federal Oil and Gas Lease covering the N $\frac{1}{2}$ of Sec. 19, T17S, R28E, Eddy County, New Mexico. There are 18 producing wells on this lease as per the enclosed plat.

Production is from the Yates-Seven Rivers at approximately 575'. The thickness of the sand varies from 3' to 4' and it is a fine grained uniform sand that is consistent over the lease. The wells drilled on the lease show up with good flush production but decline very rapidly. It is the general opinion that the bottom hole pressure is depleted and some form of secondary recovery is necessary. We have chosen to try a water flood project on this lease and have cored a well and had a core analysis run and in the opinion of our consultants this lease should water flood with success.

There is water available on the property at a depth of 250' to 300' and we plan to use this water for injection. We plan to inject 25 to 50 bbls of water per day in each injection well. We will drill what ever number of water wells required to get an adequate quantity for injecting.

We respectfully request that the Oil Conservation Commission consider all data submitted and set a hearing for our application at the earliest possible date.

If any additional information is needed, we will gladly supply it.

Yours very truly,

Harold Kersey
Harold Kersey, representing
Olen F. Featherstone

OIL CONSERVATION COMMISSION

P. O. BOX 871
SANTA FE, NEW MEXICO

September 15, 1952

C
O
P
Y

OLEN F. FEATHERSTONE
210 Bocker Building
Artesia, New Mexico

Attention: Mr. Harold Kersey

Gentlemen:

Enclosed please find a copy of Worth Drilling Company's application in Case 334 pertaining to their water-flooding project. I believe that if you follow this pattern and enclose with the application a plat of the area that it will suffice.

Submit the application in triplicate and bear in mind that it must be here in Santa Fe by September 22 in order to be heard at the regular October 15 hearing.

Yours very truly,

W. B. Macey
Chief Engineer

WBM:nr

4

LOCATE WELL CORRECTLY

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Beddingfield-Featherstone Address Box 563, Artesia, N. M.
Lessor or Tract Lucia Brooks Field Empire State New Mexico
Well No. 17 Sec. 19 T. 17 R. 28 Meridian N.M.P.M. County Eddy
Location 1650 ft. {N.} of S. Line and 1734 ft. {E.} of W. Line of 19-17-28 Elevation 3590
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____
Date December 4, 1950 Title _____

The summary on this page is for the condition of the well at above date.

Commenced drilling 10-17-50, 19____ Finished drilling 11-25-50, 19____

OIL OR GAS SANDS OR ZONES
(Denote gas by G)
No. 1, from 552' to 555' No. 4, from _____ to _____
No. 2, from 561' to 565' No. 5, from _____ to _____
No. 3, from 574' to 579' No. 6, from _____ to _____

IMPORTANT WATER SANDS
No. 1, from 295 to 305 No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

| CASING RECORD | | | | | | | | | |
|---|---|------------------|------|--------|--------------|---------------------|------------|-----|---------|
| Size casing | Weight per foot | Threads per inch | Make | Amount | Kind of shoe | Cut and pulled from | Perforated | | Purpose |
| | | | | | | | From— | To— | |
| of 8 1/2" or 8 5/8" or 8 3/4" or 9" or 10" or 11" or 12" or 14" or 16" or 18" or 20" or 22" or 24" or 26" or 28" or 30" or 32" or 34" or 36" or 38" or 40" or 42" or 44" or 46" or 48" or 50" or 52" or 54" or 56" or 58" or 60" or 62" or 64" or 66" or 68" or 70" or 72" or 74" or 76" or 78" or 80" or 82" or 84" or 86" or 88" or 90" or 92" or 94" or 96" or 98" or 100" | It binds or picks or sets or pulls or tears or breaks or cracks or splits or shatters or crushes | | | | | | | | |

| MUDDING AND CEMENTING RECORD | | | | | |
|------------------------------|-----------|------------------------|-------------|-------------|--------------------|
| Size casing | Where set | Number sacks of cement | Method used | Mud gravity | Amount of mud used |
| 7" | 552' | 35 sacks | Denton | | 2 sacks acquegel |
| | | | | | |
| | | | | | |

PLUGS AND ADAPTERS
Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

| SHOOTING RECORD | | | | | | |
|----------------------------|------------|----------------|----------|----------|------------|-------------------|
| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
| 5" | 5" | Nitro | 100 qts. | 11-28-50 | 551-577 | 587' |
| Acidized with 2000 gallons | | | | | | |

TOOLS USED
Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from top (0) feet to 587' feet, and from _____ feet to _____ feet

DATES
_____, 19____ Put to producing 12-2-50, 19____
The production for the first 24 hours was 25 barrels of fluid of which 100 % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES
_____, Driller _____, Driller
_____, Driller _____, Driller

| FORMATION RECORD | | | |
|---------------------|-----|------------|-----------------------------|
| FROM— | TO— | TOTAL FEET | FORMATION |
| 0 | 35 | | red bed |
| 35 | 150 | | shale, gyp |
| 150 | 255 | | broken anhy. |
| 255 | 290 | | brown shale |
| 290 | 310 | | red rock |
| 310 | 350 | | anhy. |
| 350 | 400 | | brown shale, anhy. shells |
| 400 | 420 | | anhy. |
| 420 | 430 | | brown lime |
| 430 | 436 | | anhy. shale breaks |
| 436 | 440 | | sandy lime |
| 440 | 455 | | brown lime, show of oil |
| 455 | 561 | | lime, increase in oil |
| 561 | 566 | | brown lime, increase in oil |
| 566 | 574 | | anhy. |
| 574 | 579 | | brown lime |
| 579 | 587 | | anhy. |
| to be water flooded | | | |

OIL CONSERVATION COMMISSION

P. O. BOX 871
SANTA FE, NEW MEXICO

September 25, 1952

Mr. Harold Kersey
Box 305
Artesia, N. M.

Dear Sir:

With regard to your application on behalf of Olen F. Featherstone for permission to institute a secondary recovery program (by water flooding) on the Brooks Lease in 19-178-28E, this case has been set up as Case 416 and scheduled for hearing on October 15, 1952.

Very truly yours,

W. B. Macey
Chief Engineer

WBM:nr

C
O
P
Y

Case file

*Put in
Case file
under Featherstone*

Feb. 13, 1954

Re: Brooks Water Flood
N^o 19-17-28
Eddy County, N. Mex.

Oil Conservation Commission
Artesia, N. Mex.

Gentlemen:

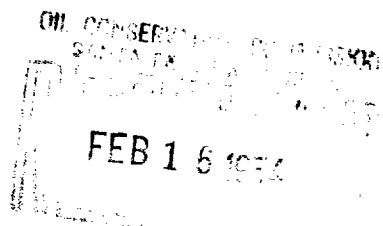
On the above water flood it has been found that water from the input wells has channelled into the producing wells and the project has proven unsuccessful.

We have quit the injection of water into the input wells and the water flood is abandoned.

Yours very truly,

OLEN F. FEATHERSTONE

Harold Kersey
Harold Kersey



OIL CONSERVATION COMMISSION

P. O. BOX 871
SANTA FE, NEW MEXICO

October 28, 1952

C
O
P
Y

OLEN F. FEATHERSTONE
210 Booker Building
Artesia, New Mexico

Attention: Mr. Harold Kersey

Gentlemen:

We enclose for your records two signed copies of Commission
Order R-200 as issued in Case 416, heard on October 15, 1952.

Yours very truly,

W. B. Macey
Chief Engineer

WBM:mr

Ex 416

Artesia, New Mexico
October 9, 1952

Mr. Olen F. Featherstone
212 Booker Building
Artesia, New Mexico

Dear Mr. Featherstone:

In reference to our conversation this is to confirm my advising you that I have no objections to your water flooding the N $\frac{1}{2}$, Section 19, T. 17S, R. 28E, Eddy County, New Mexico

For your information I own SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 19, T. 17S, R. 28E.

Yours very truly



Jerry Curtis
P. O. Box 605
Artesia, New Mexico

JC/g

E. L. KLETT
ROBT. H. BEAN
WM. H. EVANS
—
WM. A. CLIFFORD

KLETT, BEAN & EVANS
ATTORNEYS AT LAW
2ND FLOOR MYRICK BLDG.
LUBBOCK, TEXAS

October 7, 1952

Mr. Olan F. Featherstone
212 Booker Building
Artesia, New Mexico

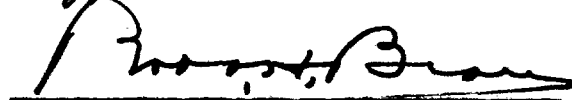
Dear Sir:


The undersigned, owners of the oil and gas leases on the lands lying immediately west of the Brooks lease on the North Half of Section 19, T-17-S, R-28-E, Eddy County, New Mexico, have no objections to your waterflooding the Brooks project upon the above lease, provided, however, that in the event we, our successors or assigns, decide to waterflood any part or all of the leases held by us lying west of the Brooks lease, we may do so without objection upon your part or upon the part of any other owner of the Brooks lease on the North Half of Section 19, T-17-S, R-28-E, Eddy County, New Mexico.


Yours very truly,



Cliff L. Dean


C. Alvin White


Robt. H. Bean


W. M. Ryan


Frank Bass


W. C. McManus


Leonard Latch

Gentlemen:

I agree that you may waterflood your lease should you choose to do so.


Olan F. Featherstone

3 October 1952

Mr. Olen F. Featherstone
Artesia
New Mexico

Dear Mr. Featherstone:

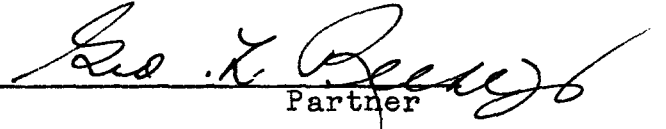
We, as the owners of Federal Oil and Gas Lease covering the SW $\frac{1}{4}$ of Section 18, Township 17 South, Range 28 East, known as the Hastie Lease, and Federal Lease covering the SE $\frac{1}{4}$ of Section 13, Township 17 South, Range 27 East, known as the Saunders Lease, hereby give our consent to the water flooding program which you are about to commence on your lease covering the N $\frac{1}{2}$ Section 19, Township 17 South, Range 28 East, N.M.P.M.

You are authorized to use this letter evidencing our consent at the hearing before the New Mexico Oil and Gas Conservation Commission which is to be held October 15, 1952.

Yours very truly,

SIMMS AND REESE OIL COMPANY

BY:


Partner

GLR:kcp

DELHI OIL CORPORATION

CORRIGAN TOWER

DALLAS 1, TEXAS

October 2, 1952

Mr. Olen F. Featherstone
212 Booker Building
Artesia, New Mexico

Dear Mr. Featherstone:

In reference to our telephone conversation of September 29th, this is to confirm my advising you that Delhi has no objections to your water flooding the $N\frac{1}{2}$, Section 19, T 17S, R 28E, Eddy County, New Mexico.

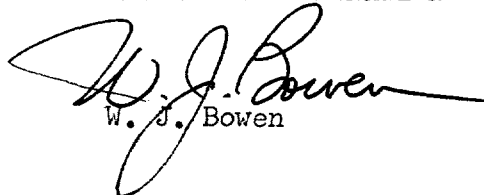
For your information, Delhi has the following leases immediately bordering the location you are planning to flood:

T 17S, R 28E
Section 19
 $SE\frac{1}{4}$
 $NE\frac{1}{4}$ $SW\frac{1}{4}$
Section 20
 $W\frac{1}{2}$

We would appreciate receiving a copy of your preliminary report when available, and subsequent reports as to the progress you are making. If we can be of further assistance, please feel free to call on us.

Yours very truly,

DELHI OIL CORPORATION


W. J. Bowen

WJB/jj

YATES BROTHERS

Oil Producers

HARVEY E. YATES
MARTIN YATES III

309 CARPER BLDG.

ARTESIA, NEW MEXICO

S. P. YATES
JOHN A. YATES

P. O. BOX 397

TELEPHONE 552

October 2, 1952

Mr. Olen F. Featherstone
Artesia, New Mexico

Dear Mr. Featherstone:

Complying with your request in reference to the plans of your company to create a water drive for the purpose of increasing oil production from your oil wells in the Empire field. We have no objection to your plans.

We are the owners of a Federal Oil and Gas Lease referred to as the Hastie Lease, L.C.-045818-B, in Section 18, Township 17 South, Range 28 East, Eddy County.

It is our understanding that you will comply with all Federal rules and regulations in regard to Federal Oil and Gas Leases and the operations thereunder.

Yours very truly,

Estelle H. Yates
Louise D. Yates

Estelle H. Yates
Estelle H. Yates

John A. Yates
John A. Yates

Martin Yates III
Martin Yates, III

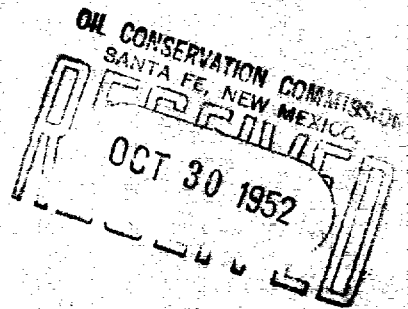
Harvey E. Yates
Harvey E. Yates

S. P. Yates
S. P. Yates

BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

TRANSCRIPT OF PROCEEDINGS
CASE NO. 416

Regular Hearing
October 15, 1952



BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO
Santa Fe, New Mexico.

October 15, 1952.

In the Matter of:

Olen F. Featherstone's application for approval of a secondary recovery program (by water flooding) on Brooks (Federal) lease in 19-17S-28E, Eddy County, Empire Pool, by injection into 12 injection wells on said lease, there now being 18 producing wells on the lease.

Case No.
416.

TRANSCRIPT OF HEARING

(Notice of publication read by Mr. Graham.)

HAROLD KERSAY

having been first duly sworn, testified as follows:

MR. KERSAY: This application is for Mr. Olen F. Featherstone to start a secondary recovery project in the Empire Field in the Yates Seven Rivers Pay. There has been 18 producing wells drilled on this lease, at a total depth of between 550 and 600 feet. The recovery from the 18 producing wells has been approximately 25,000 barrels. The bottom hole pressure is very low in the area and, in order to recover the oil in places, some form of secondary recovery has to be started.

We have chosen a water flood for this program and a core analysis has been made of the Pennsylvanian zones and we had

Consultants Buckles and Hostetler from Monahan, Texas make us a report and study of the area. And, it was their report to us that we could expect recovery of approximately 1,000 barrels per acre on the lease, 320 acres involved in the property. There is water available on the property at the approximate depth of 250 feet. We had drilled a water well and have an adequate quantity of water available.

The consent of the majority of the adjoining operators has been obtained and with no objection to the proposed project. We have a plat showing the adjacent operators and also the proposed water input wells. We propose, at this time, to drill 21 input wells and approximately 11 oil wells. The oil wells will all be orthodox locations. None of the input water wells will be near a property line - 660 feet.

However, at some later date, if this project proves successful and we can deal with, or join with the adjacent operators, we propose to drill line wells in order to complete the recovery. We would like to have an allowable of eight times the current allowable on the 320 acres.

MR. MACEY: You mean by that the current top allowable?

A The current top allowable. That about covers the main points of our application.

MR. GRAHAM: What is the nature of that water?

A The water that we propose to put in --

MR. GRAHAM: (Interrupting) That is fresh water?

A It is fresh water and outside of the irrigation district

so there would be no objection from the irrigation district on using it.

MR. GRAHAM: Of course, water is one of the problems in that area?

A This water is not portable, it has a high gyp content and we are possibly going to have to treat the water in order to inject it, before it can be injected.

MR. GRAHAM: What are the possibilities of securing salt water?

A Well, it is possible at approximately 900 feet in the red sand, and if this water supply should be inadequate, we will no doubt drill to the red sand to secure that water.

MR. WHITE: You say you have waivers from the adjacent operators. Do you have written waivers?

A Yes, we have written consent.

MR. SPURRIER: You wish to introduce that in evidence?

A I wish to introduce that as part of the evidence and also the plat showing the proposed input wells and also an application here, setting out the locations of the proposed input wells.

MR. SPURRIER: Without objection they will be received.

MR. MACEY: This is on Federal land. Have you discussed this with the Federal Government?

A Yes, we have discussed it with the United States Geological Service and they have given their consent to this project.

MR. WHITE: That will be filed as an exhibit too, the

written consent?

A It was verbal. However, we can get their consent.

MR. FEATHERSTONE: I think so.

A We will get that. You have a report of our consultants on this project.

MR. GRAHAM: You propose to make a declaration of the water rights to the State Engineer?

A Is that necessary? Is that a necessary procedure?

MR. GRAHAM: I am sorry, I can't tell you specifically, but I know that the water, New Mexico recovery was, and if you have rights there you should declare them, if you are taking more than domestic use.

A That is something we will have to look into.

MR. SPURRIER: Are there any questions of this witness? If not the witness may be excused.

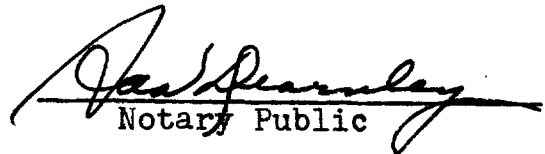
(Witness excused.)

MR. SPURRIER: Any comment in this case? If not the next cases on the Docket are Cases 417, 418, 419 and 420 which I assume that Phillips will want consolidated for the purposes of testifying.

STATE OF NEW MEXICO)
 : SS.
COUNTY OF BERNALILLO)

I hereby certify that the above and foregoing transcript of proceedings in Case No. 416, taken before the Oil Conservation Commission on October 15, 1952, at Santa Fe, New Mexico, is a true and correct record.

Dated at Albuquerque, New Mexico, this 25th day of October, 1952.


Notary Public

My Commission Expires:
June 19, 1955.