

Case No.

127

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Application, Transcript,  
Small Exhibits, Etc.

B  
*Ralph Lowe*

Phone 376

*Midland, Texas*

P.O. Box 832

February 7, 1948

Mr. John M. Kelly  
Box 5671  
Roswell, New Mexico

Dear John:

In accordance with your request of February 5, we are enclosing log of our Shell State #2-C well to 2905' and a projected log of the well to the proposed depth of 3600'.

We propose to run pipe at total depth of 3450' and cement in two stages. The first stage will be in the usual manner and will bring cement from 3450' up to 3000'. The second stage will cement the casing from 2375' up to the bottom of the surface pipe through use of a Baker Multiplex Cementing Collar with a Baker Sliding Metal Petal Basket immediately below the collar. This will leave the gas zone free from cement and still comply with the Commission's regulations regarding cementing of the production string. The plug will then be drilled out and the well deepened to 3600' and the oil horizon tested in the usual manner. If production is obtained, a Baker Retainer Production Packer will be set in the lower part of the casing, and the casing perforated in the gas horizon from approximately 2875' to 2905'. Tubing will then be rerun and the gas produced through the annulus between the casing and tubing, and the oil through the tubing, with the packer between the pays preventing any co-mingling of the products.

At present we do not plan to send any one from this office to the hearing, so if you need any additional information please let us know.

Yours very truly,

*W. C. Mitchell*  
W. C. Mitchell

WCM:gna

**AFFIDAVIT OF PUBLICATION**

State of New Mexico,  
County of Lea

I, ROBERT L. SUMMERS

Of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not in a supplement thereof for a

period of \_\_\_\_\_  
one issue \_\_\_\_\_ weeks.

beginning with the issue dated \_\_\_\_\_  
February 4, 19 48

and ending with the issue dated \_\_\_\_\_

\_\_\_\_\_, 19 \_\_\_\_\_  
Robert L. Summers  
Publisher.

Sworn and subscribed to before me

this 7th day of \_\_\_\_\_  
February, 19 48.

Mervin Jones  
Notary Public.

My commission expires \_\_\_\_\_

January 7, 19 48 51  
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

**LEGAL NOTICES**

Feb. 4, 1948  
**NOTICE OF PUBLICATION  
STATE OF NEW MEXICO  
OIL CONSERVATION  
COMMISSION**

The State of New Mexico, by its Oil Conservation Commission, hereby gives notice, pursuant to law, of the following public hearing to be held February 17, 1948, beginning at 10:00 o'clock a. m. on that day in the City of Santa Fe, New Mexico:

**STATE OF NEW MEXICO TO:**

All named parties in the following case, and notice to the public:

**Case No. 127**

In the matter of the application of Ralph Lowe to dually complete, for oil and gas production from two separate zones, Shell, State No. 2-C, located 990 feet from the south line and 1,650 feet from the west line of section 36, township 23 south, range 36 east, N.M.P.M., Lea County, New Mexico.

Given under the seal of the Oil Conservation Commission of New Mexico, at Santa Fe, New Mexico, on February 2, 1948.

**STATE OF NEW MEXICO  
OIL CONSERVATION  
COMMISSION**

By R. R. Spurrier, Secretary

NOTICE OF PUBLICATION  
STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION  
The State of New Mexico, by its Oil  
Conservation Commission, hereby gives  
notice, pursuant to law, of the following  
public hearing to be held February 11,  
1948, beginning at 10:30 o'clock a.m. on  
that day in the City of Santa Fe, New  
Mexico.

STATE OF NEW MEXICO TO:  
All persons parties in the following case,  
and notice to the public:

Case No. 127  
In the matter of the application of  
Hugh Love to drill complete, for oil  
and gas production from two separate  
zones, Shell, State No. 3-C, located 890  
feet from the south line and 1,850 feet  
from the west line of section 36, town-  
ship 23 south, range 38 east, N.M.P.M.,  
Lea County, New Mexico.

Given under the seal of the Oil Con-  
servation Commission of New Mexico, at  
Santa Fe, New Mexico, on February 2,  
1948.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION,  
By R. R. SPURRIER,  
Secretary.  
(SEAL)  
Pub. Feb. 2, 1948.

## Affidavit of Publication

State of New Mexico }  
County of Santa Fe } ss.

I, John E. Baker, being first duly sworn,  
declare and say that I am the (~~Manager~~) (Editor) of the Santa Fe  
New Mexican, a daily newspaper, published in the English  
Language, and having a general circulation in the City and County of Santa Fe, State of  
New Mexico, and being a newspaper duly qualified to publish legal notices and adver-  
tisements under the provisions of Chapter 167 of the Session Laws of 1937; that the  
publication, a copy which is hereto attached, was published in said paper ~~once each week~~  
for one time ~~once each week~~ on the 3rd day of February, 1948, and that the notice was  
published in the newspaper proper, and not in any supplement, ~~once each week~~ for  
one time ~~once each week~~ publication being on the  
3rd day of February, 1948, and that payment  
for said advertisement has been (duly made), or (assessed as court costs); that the  
undersigned has personal knowledge of the matters and things set forth in this affidavit.

### PUBLISHER'S BILL

31 lines, one time at \$ 3.10  
lines, times, \$  
Tax \$  
Total . . . . \$ 3.10

Received payment,

By

John E. Baker  
Manager  
Subscribed and sworn to before me this 3rd  
day of February, A.D., 1948  
Anna T. Christie  
Notary Public

My Commission expires

June 14, 1949

C  
O  
P  
Y

P. O. Box 171  
February 2, 1940

Hobbs Daily News-Sun  
Hobbs, New Mexico

RE: Case No. 127 - Notice of Publication

Gentlemen:

Please publish the enclosed notice once, immediately.  
Please proof-read the notice carefully and send a copy of the  
paper carrying such notice.

UPON COMPLETION OF THE PUBLICATION, PLEASE SEND  
PUBLISHER'S AFFIDAVIT IN DUPLICATE.

For payment please submit statement in duplicate,  
accompanied by voucher executed in duplicate. The necessary  
blanks are enclosed.

Very truly yours,

GEORGE A. SPANAN,  
Attorney

bpu

cc: Roy Yarbrough

C  
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P. O. Box 871  
February 2, 1943

Santa Fe New Mexican  
Santa Fe, New Mexico

RE: Case No. 127 - Notice of Publication

Gentlemen:

Please publish the enclosed notice once, immediately.  
Please proof-read the notice carefully and send a copy of the  
paper carrying such notice.

UPON COMPLETION OF THE PUBLICATION, PLEASE SEND  
PUBLISHER'S AFFIDAVIT IN DUPLICATE.

For payment please submit statement in duplicate,  
accompanied by voucher executed in duplicate. The necessary  
blanks are enclosed.

Very truly yours,

GEORGE A. WILSON,  
Attorney

gaw

BEFORE THE OIL CONSERVATION COMMISSION OF THE  
STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED  
BY THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO FOR THE  
PURPOSE OF CONSIDERING:

CASE NO. 127

ORDER NO. 750

IN THE MATTER OF THE APPLICATION OF  
RALPH LOWE FOR A SPECIAL ORDER  
AUTHORIZING DUAL COMPLETION FOR OIL  
AND GAS PRODUCTION FROM TWO SEPARATE  
ZONES FROM A SINGLE WELL BORE OF SHELL  
STATE NO. 2-C, LOCATED 990 FEET FROM  
THE SOUTH LINE AND 1650 FEET FROM THE  
WEST LINE OF SECTION 36, TOWNSHIP 23  
SOUTH, RANGE 36 EAST, N.M.P.M., LEA  
COUNTY, NEW MEXICO

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 10:00 o'clock a.m., February 17, 1948,  
at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico,  
hereinafter referred to as the "Commission."

NOW, on this 8th day of March, 1948, the Commission having before it for  
consideration the testimony and other evidence adduced at the hearing of said  
cause, together with the application of petitioner, and being fully advised in  
the premises:

FINDS:

1. That public notice of hearing upon said application having been given  
as required by law fixing the 17th day of February, 1948, at Santa Fe,  
New Mexico, as the time and place for hearing, the Commission has jurisdiction  
of the case;

2. That in previous dual completion cases before the Commission, and in  
this case, it appears questionable whether or not mechanical devices are  
available to absolutely prevent comingling of gas and fluid hydrocarbons from  
two or more different strata through single well bore;

3. That the evidence adduced at said hearing of this case establishes  
that the gas encountered is characterized as "sweet." No evidence was offered  
as to the corrosive properties of the oil encountered or expected to be  
encountered.

4. That additional evidence as to the efficiency of packers and mechanical  
devices in the matter of dual production by a single well bore in the Langlie-  
Hattix Pool could be had by granting the application of the petitioner.

IT IS THEREFORE ORDERED BY THE COMMISSION that effective February 17, 1948,  
Ralph Lowe, petitioner, he, and he hereby is granted permission to dually com-  
plete and produce his Shell-State No. 2-C well in the Langlie-Hattix Pool,  
Lea County, New Mexico, in such manner that gas and/or fluid hydrocarbons are  
produced through the tubing from the 3500-foot zone, and that gas and/or fluid  
hydrocarbons are produced through the annulus, or space between the tubing,  
and casing of said well from the lower horizon between the depths of 2775 feet  
and 2995 feet;

PROVIDED, HOWEVER, that said Shell-State No. 2-C Well shall be dually completed and produced in such manner that there is absolutely no comingling within the bore of the well of gas or fluid hydrocarbons produced from each of the separate productive strata encountered therein. In order to prevent any comingling of gas or fluid hydrocarbons within said well bore, the dual completion thereof shall be made as follows: The well having been completed to the 3600-foot horizon through appropriate casing perforations at the proper depth, the upper zone in like manner may be produced by casing perforations at the 2875 to 2905-foot interval, and each zone or formation carefully tested. Such test and subsequent tests shall be witnessed by an agent of the Commission and by representatives of any offset operator, if any there be. In event intercommunication between the zones behind the casing is indicated by formation tests, corrective measures shall be applied and such tests continued and corrective measures applied, until it is known that no intercommunication between the respective zones behind the casing exists. Should the test or tests establish the absence of intercommunication between the horizons outside of the casing, the petitioner herein may proceed with the dual completion of said well as follows: A suitable packer of the type approved by petitioner's consulting engineer shall be so set as to effectively prevent migration of reservoir gas and fluid hydrocarbons from one zone to another within the casing; the well shall be tubed through the packer; provided further, however, that it shall not be necessary for petitioner to install a circulating port or choke above the packer, should the upper horizon reflect only gas production; nothing herein, however, shall be construed to preclude the installation of such port above the packer if conditions may require, but in case of non-installation above the packer, the circulating device shall be incorporated in the packer; and provided, further, that any packer installed in said well shall be properly tested for leakage at the time of the dual completion and shall be carefully retested at six-month intervals thereafter. The original and all subsequent tests shall be witnessed by a representative of the Commission and by representatives of offset operators, if any there be, and the results of each test properly attested to by the petitioner and all the witnesses and shall be filed with the Commission within ten days after the actual completion of each such test.

IT IS FURTHER PROVIDED that in event intercommunication between the zones is found or is suspected by any witness as the result of any test, the well shall be immediately shut in, the Commission notified, and prompt and immediate action shall be taken by the petitioner to prevent such intercommunication, following which, a retest for leakage shall be made forthwith and witnessed as aforesaid; provided, further, that intercommunication tests between the zones required by this order shall be made as follows: Both zones shall be simultaneously closed in and kept closed a sufficient length of time to reach stabilization as determined by a dead weight tester. A recording depth pressure gauge shall then be run at the maximum depth possible; the zone open to the annulus shall be produced at a maximum safe rate until stabilized flow conditions are obtained. In event a significant decrease in pressure is shown by the recording pressure gauge, intercommunication shall be deemed to exist.

IN ADDITION, HOWEVER, that said well must be designed in such manner that reservoir pressures may be determined on each of the two specified strata separately, and further that said well must be equipped with all necessary connections required to permit recording meters to be installed and used at any time, so that when such meters are installed all natural gas produced from each separate stratum may be accurately measured and the gas-oil ratio determined.

The petitioner having introduced at the hearing an exhibit showing position and thickness of the upper horizon shall within a reasonable time supplement the same with data as to the lower productive horizon.




The petitioner having submitted as exhibits at the hearing completion diagrams, any changes in actual procedure shall be immediately reported to the Commission. Upon final completion of said dual completion of said well, the petitioner shall file with the Commission a report of the step by step procedure followed in producing each zone and an exposition of the merits and demerits of the equipment and mechanical devices used and employed to effect the separation of the productive horizons.

IT IS FURTHER ORDERED that upon failure of the petitioner herein to comply with any provision or provisions of this order, the authority granted hereunder shall immediately terminate.

IT IS FURTHER ORDERED that this case be and it is hereby held open on the docket for such further order or orders as may seem necessary or convenient to the Commission.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

  
THOMAS J. MABRY, CHAIRMAN

JOHN E. MILES, MEMBER

  
R. R. SPIERLER, SECRETARY

NOTICE OF PUBLICATION  
STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

The State of New Mexico, by its Oil Conservation Commission, hereby gives notice, pursuant to law, of the following public hearing to be held February 17, 1948, beginning at 10:00 o'clock a.m. on that day in the City of Santa Fe, New Mexico:

STATE OF NEW MEXICO TO:

All named parties in the following case,  
and notice to the public:

Case No. 127

In the matter of the application of Ralph Lowe to dually complete, for oil and gas production from two separate zones, Shell. State No. 2-C, located 990 feet from the south line and 1,650 feet from the west line of section 36, township 23 south, range 36 east, N.M.P.M., Lea County, New Mexico.

Given under the seal of the Oil Conservation Commission of New Mexico, at Santa Fe, New Mexico, on February 2, 1948.

STATE OF NEW MEXICO

OIL CONSERVATION COMMISSION

By

*R. R. Spurrer*  
R. R. SPURRER, Secretary

#127

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION  
OF RALPH LOWE TO DUALY COMPLETE  
A WELL FOR OIL AND GAS PRODUCTION  
IN LEA COUNTY, NEW MEXICO

TO THE OIL CONSERVATION COMMISSION:

The petitioner, Ralph Lowe, hereby makes application to dualy complete a well in order to produce and market therefrom the gas and oil found in separate zones.

The petitioner presents the following data:

- (1) That this application cover only the Ralph Lowe, Shell State #20 well located 990 feet from the South and 1650 feet from the West line of Section 36, T-23-S, R-36-E, Lea County New Mexico.
- (2) That as of this date said well is drilling below 2905 feet and is projected to drill to 3600 feet.
- (3) That there was encountered between the depths of 2875 and 2905 feet a considerable quantity of hydro-carbon gas under high pressure. The volume of this gas is estimated at between 20 to 30 million cubic feet per day.
- (4) That there is expected to occur at a depth of between 3500 to 3600 feet the regular oil producing horizon of the Langlie-Mattix pool such as was found in the Western Gas Company's Combest #1 well in Section 35, T-23-S, R-36-E.
- (5) That the petitioner to more fully utilize the natural resources of this area and to prevent excessive underground waste desires to dualy complete said Shell State #20 well in such a manner as to produce the gas through the annulus between casing and tubing and the oil through the tubing, placing a suitable retainer to prevent co-mingling of the products from the different formations.
- (6) The petitioner requests that this application be heard at the earliest possible moment as an emergency exists.

Respectfully submitted

  
John M. Kelly  
Consulting Engineer for the  
Petitioner

January 30, 1948