

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN RE: APPLICATION FOR EXCEPTION
TO RULE 107(d)(3) IN COMPLETION OF
SOUTHERN UNION GAS COMPANY'S
JICARILLA NO. 1-F WELL LOCATED IN
THE APPROXIMATE CENTER OF THE
NORTHWEST QUARTER OF THE SOUTHWEST
QUARTER (NW $\frac{1}{4}$ SW $\frac{1}{4}$), SECTION 27, TOWN-
SHIP 27 NORTH, RANGE 4 WEST, RIO
ARRIBA COUNTY, NEW MEXICO.

CASE NO. TX-2

APPLICATION FOR EXCEPTION TO RULE 107(d)(3)

Comes now SOUTHERN UNION GAS COMPANY and requests that the Commission grant administrative approval to it for completing its Jicarilla 1-F well located in the approximate center of the Northwest Quarter of the Southwest Quarter (NW $\frac{1}{4}$ SW $\frac{1}{4}$) of Section 27, Township ~~27~~²⁶ North, Range 4 West, in Rio Arriba County, New Mexico, without compliance with Rule 107 (d) (3) and in support of such application alleges and states:

1. That the above described well was initially completed as a Mesa Verde gas well.

2. That subsequent to the original completion of such well it was deepened to the Dakota sand formation and thereafter reworked in the Mesa Verde.

3. That in deepening the well to the Dakota sand formation it was necessary to add a whipstock because some of the tubing could not be recovered from the bottom of the Mesa Verde hole. That after drilling to a total depth of 8350 feet a liner was set in said well from 5219 feet to total depth. Whereupon Dakota perforations were had at the following depths:

Interval 1: 8151 ft. to 8182 ft.
Interval 2: 8193 ft. to 8224 ft.
Interval 3: 8266 ft. to 8276 ft.
Interval 4: 8285 ft. to 8291 ft.
Interval 5: 8304 ft. to 8325 ft.

4. That the bottom of the Dakota tubing string was set at 7879 feet, which point is 272 feet above the perforations for the Dakota but that it was necessary to set such tubing at this point because of the fact that perforations in the liner had been made at 7940 feet to 8,000 feet in an effort to complete in another zone, which zone was later cemented off and operator needed to stay at least 100 feet away from such cemented perforations because of the possibility of damage to the pipe at this point and the desirability to keep the packer setting a safe distance from such point.

5. That it was necessary to set the liner in such hole at 5219 feet so that an adequate area of splice was available above the depth of the casing set in the original Mesa Verde hole. That such point was 681 feet above the top of the perforations in the Mesa Verde zone, which perforations were at the following depths:

5900feet to 6030 feet

6. That the outside dimensions of the tubing run to each zone in this well were 2 3/8th inches in the center of the joint and 3 inches where the collar joined the two joints of upset tubing together, and that it is impossible to run more than one string of tubing into the liner. Also, it is necessary to stay several feet above the point where the Dakota tubing would enter into the liner because of the fact that the Dakota tubing would have to center itself in the liner away from the edge of the Mesa Verde string of casing. Therefore, in order to prevent the binding of the Mesa Verde string of tubing, it was bottomed at the above stated depth of 5180 feet.

7. That it was necessary to run tubing of the size above stated to each of the zones in this well, both because of the fact that Commission general orders do not permit a smaller sized tubing and also by reason of the fact that production of oil from the Dakota zone will at a later date have to be pumped and smaller sized tubing would be impractical and improper.

8. That good oil field practice required the dual completion of the above named well in the method herein described; that it was impractical and unsafe to set the tubing in these two zones within 250 feet of the perforations; that completion of this well in the method described above will prevent waste and permit the greatest ultimate recovery of gas and oil in the zones perforated.

WHEREFORE, applicant prays that the New Mexico Oil Conservation Commission grant it administrative approval to complete such well in the method above described, and that upon the Commission entering an order granting permission for a gas/oil dual completion of the above well, for which application has been filed and heard in Case No. 1912, that it be given permission to produce such well with tubing set at the points above stated.

SOUTHERN UNION GAS COMPANY

By _____
(Geo. L. Verity)
Its Attorney

STATE OF NEW MEXICO)
) SS:
COUNTY OF SAN JUAN)

ORAN L. HASELTINE, of lawful age, being first duly sworn, on his oath states that he is Production Superintendent for Southern Union Gas Company and makes this verification in such capacity and for and in behalf of the above named applicant; that he has read the foregoing application, knows the contents thereof, and that the statements therein contained are true and correct to the best of his knowledge and belief.

Oran L. Haseltine
(Oran L. Haseltine)

Subscribed and sworn to before me this 29th day of February,

1960.

Louis Mason
Notary Public, San Juan County, N. M.

My commission expires: 10/24/62 .

GEO. L. VERITY
ATTORNEY AT LAW
SUITE 152 PETROLEUM CENTER BUILDING
FARMINGTON, NEW MEXICO
TELEPHONE DAVIS 5-0203

24

February 29, 1960

TX-2

New Mexico Oil Conservation Commission
Capitol Building
Santa Fe, New Mexico

Gentlemen:

ATTN: Mr. E. A. Utz, Gas Engineer

Enclosed herewith you will find the original and two copies of an application for administrative approval for completion of Southern Union Gas Company's Jicarilla #1-F well contrary to Rule 107 (d)(3).

I am sending this application to the attention of Mr. Utz because he was apprised of the details regarding the completion of this well in hearing on application for permission to dually complete it as a gas/oil production.

If you have any questions regarding the application, please call upon the undersigned.

Yours very truly,


Geo. L. Verity

GLV/m
3 encls
cc: Southern Union Gas Co.
Burt Bldg.
Dallas, Texas

HUMBLE OIL & REFINING COMPANY

R. R. MCCARTY
MANAGER

MAIN OFFICE OFF

PRODUCTION DEPARTMENT WESTERN DIVISION

J. S. BOLDRICK
OPERATIONS SUPERINTENDENT

P. O. BOX 1600

H. L. HENSLEY
OPERATIONS SUPERINTENDENT

15 AM 8:21

MIDLAND, TEXAS

H. E. MEADOWS
ENGINEERING COORDINATOR

March 14, 1960

A. J. BEDFORD
ADMINISTRATIVE COORDINATOR

6-1

New Mexico Proration

The New Mexico Oil
Conservation Commission
107 Mabry Hall
Capitol Building
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

Southern Union Gas Company has advised of their application for exception to Rule 107(d)(3) in completion of their Jicarilla F-1, located in Section 27, Township 26 North, Range 4 West in Rio Arriba County, New Mexico. Humble, as 50 percent working interest owner, urges approval of this application.

Sincerely yours,

HUMBLE OIL & REFINING COMPANY

R. R. McCARTY

RLB/sm

By: 
Henry E. Meadows

OIL CONSERVATION COMMISSION

P. O. BOX 871
SANTA FE, NEW MEXICO

March 7, 1960

Mr. George L. Verity
Attorney at Law
Suite 152, Petroleum Center Building
Farmington, New Mexico

RE: Administrative Order TX-2
Tubing Requirement Exception
Southern Union Gas Co.
Jicarilla Well No. 1-F

Dear Sir:

Reference is made to your application dated February 29, 1960, wherein you request administrative exception to Rule 107 (d) (3) for Southern Union Gas Company's Jicarilla Well No. 1-F, located in the NW/4 SW/4 of Section 27, Township 26 North, Range 4 West, Rio Arriba County, New Mexico.

It is our understanding that the tubing for the Mesaverde formation of the subject dually completed well is set some 720 feet above the uppermost Mesaverde perforation, and that the tubing for the Dakota formation is set some 272 feet above the uppermost Dakota perforation. We further understand that these tubing setting depths were occasioned by serious mechanical difficulties which were encountered in drilling and completing the well.

Inasmuch as it appears that for the time being at least, no serious problem of waste would result from continued production in the aforementioned manner, the requested exception is hereby granted. This approval is subject to the provision that if, at any time, the producing characteristics of either or both zones of the dual completion may so change as to warrant such action, this approval may be rescinded.

Very truly yours,

A. L. PORTER, JR.
Secretary-Director

ALP:DSN:esr

cc: OCC, Aztec

MV DK

$$\begin{array}{r} 5900 \\ 5180 \\ \hline 720 \end{array} \text{ measure}$$

5180

5219

5419

5900

6030

$$\begin{array}{r} 8151 \\ 7879 \\ \hline 272 \end{array}$$

Ret. Pkr.
7816

7879

Perfs 7940
Squeezed 8000

8151

8325

8350

TD

