

BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

TRANSCRIPT OF PROCEEDINGS

CASE NO. 375

June 19, 1952

OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

JUN 30 1952

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BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

JUNE 19, 1952

In the Matter of:

Tide Water's application for permission
to dually complete its O. L. Coleman No. Case No. 375.
3 well (oil-gas), Eunice Pool, NE NE 17-
21S-36E, Lea County, New Mexico.

MR. SPURRIER: The meeting will come to order again.
The next case on the Docket is Case 375.

(Notice of Publication read by Mr. White.)

MR. HOLLOWAY: I am J. B. Holloway, employed by
Tide Water Associated Oil Company and have charge of the pro-
rations department. The application that we filed for dual
completion of our O. L. Coleman No. 3 well very well covers
the subject. However, I might add to that.

Tide Water Associated Oil Company completed its O. L.
Coleman well No. 3, located in the center of the NE/4 NE/4
Section 17, Township 21-S, Range 36-E, Eunice Field, Lea County,
on October 7, 1934. The well originally and is presently
producing oil from the Grayburg-San Andres formation from

open hole interval 3789 feet, the bottom of 7" casing, to 3925 feet, the total depth of the well. An intermediate string of 9-5/8" casing was set and cemented at 2860 feet. In drilling Coleman No. 3, gas zones were logged at several intervals commencing at 3052 feet through 3727 feet. The 7" producing string was cemented with 310 sacks of cement which theoretically should have circulated to within 1600 feet of the surface and which precludes any possibility of now making a bradenhead completion for the purpose of producing gas from the upper zones for lease use or for sale unless another string of casing is run inside the 7". Bradenhead completions are quite common in this area where a more moderate amount of cement is used in setting the producing string and such completions are possible.

It is our opinion that it is practical and economically feasible to dually complete the well in such manner that the Grayburg-San Andres formation would continue to be produced through the tubing and the gas zones, which are identified in this area as the Yates-Seven Rivers formation, would be produced through the annulus between the tubing and casing with no communication between the two producing formations.

If granted permission to dually complete the well, before

doing so we propose to test the 7" casing with 1500 pounds pressure by running a retrievable cement retainer equipped with a perforation above and bull plug below to a depth below 3000 feet and test casing above that depth. A radioactivity log would then be run through the gas section to provide correlation with the successful Skelly gas well completion in its State "B" well No. 7, located approximately 1900 feet southeast of our well. According to our information, Skelly's No. 7 well is producing from the Yates-Seven Rivers formation from open hole interval 2995-3480 feet. The 7" casing would then be perforated opposite the most permeable zones. The well would be completed by setting a Baker Model "D" retainer production packer set at 3750 feet in the 7" and the tubing run through the packer for production of the lower zone, or Grayburg-San Andres formation.

We further propose that prior to the time the well is dually completed, we shall furnish the Commission, for its approval, an electrical log showing the location and extent of each separate stratum yielding production above the casing shoe and the vertical footage location of the proposed perforations; and further upon the actual dual completion of the well, we shall submit to the Commission a diagrammatic sketch

of the mechanical installation which was used to complete and produce the seal between the producing formations, together with a special report of production, gas-oil ratio and reservoir pressure determination of each producing zone immediately following completion, and to comply with any further order of the Commission which to the Commission seems necessary for the prevention of waste or protection of correlative rights.

The well was drilled so long ago that I was unable to find in my file any report made to the Commission covering the completion of this well so I have had a photostat made of our own well record which shows these gas shows by the driller's log. I would like to file one of these as an Exhibit.

I have also had prepared a diagrammatic sketch showing our Coleman No. 3 well, upon which has been superimposed a copy of the electric log of Skelly's gas well which is based upon the assumption that we will find these formations more or less as depicted here (indicating.) Of course, upon the approval of the Commission and final dual completion of the well we shall file a simple diagram which is actually for the well itself. But for anyone that would like to examine it would show the packer setting and how we propose to eventually complete the well. I have also had a field check made, showing

the wells in the area that are producing gas from the Yates and Seven Rivers Sand, one of which is a dual well. Some are bradenhead completions and Skelly 7 is an individually completed well. I have indicated those with red stars. For the convenience of the Commission I file that with the Commission.

In my statement that we would obtain the approval of the Commission for the dual completion of this well by submission of electric log showing where we proposed to perforate. I would like to ask that the Commission if it does grant this application, that we be permitted to obtain such approval from its' office at Hobbs. We ask that for the reason that when we have finished working on the well our expenses will be some six or seven hundred dollars a day and just for economical reasons why it would be most convenient to obtain the approval of the Commission's office there. That is all.

MR. SPURRIER: Does anyone have a question of this witness?

Q (By MR. MACY) Are you gas lifting the well now?

A No, sir, it is pumping. We have to change the installation.

Q You propose, after completion, you propose to gas lift?

A That is correct. We don't have too much confidence in the efficacy of the permanent pack. There would be too much vibration. We will take out the pumping equipment and put in flow test and the gas casing head gas for the Phillip Petroleum Company.

MR. SPURRIER: Anyone else? Mr. Holloway, do you swear to all this testimony you have given?

A Yes, I sure do.

MR. SPURRIER: Very well. No further questions the witness will be excused.

(Witness excused.)

STATE OF NEW MEXICO)
 :
COUNTY OF BERNALILLO)

I HEREBY CERTIFY that the foregoing and attached transcript of hearing in Case No. 375 before the Oil Conservation Commission, State of New Mexico, at Santa Fe, on June 19, 1952, is a true and correct record of the same to the best of my knowledge, skill and ability.

DATED at Albuquerque, New Mexico, this 26th day of June, 1952.


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