

Case No.

436

Application, Transcript,
Small Exhibits, Etc.



SHELL OIL COMPANY

P. O. Box 1858
Roswell, New Mexico

November 28, 1961

Subject: Request for Cancellation of
Dual Completion Order
Shell Livingston 8
Drinkard-Blinebry Fields

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

Gentlemen:

Shell Oil Company requests cancellation of Case No. 436, Order No. R-225, granted December 12, 1952, which authorized dual completion of our Livingston No. 8 in the Drinkard Oil and Blinebry Gas Fields. Livingston 8 has been recently converted to a Drinkard Oil-Blinebry Oil dual as authorized by Order No. MC-1108, dated November 2, 1961.

Please advise if further information is desired concerning this request.

Very truly yours,

R. L. Rankin

R. L. Rankin
Division Production Manager

cc: New Mexico Oil Conservation Commission
P. O. Box 2045
Hobbs, New Mexico

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE NO. 436
ORDER No. R-225

THE APPLICATION OF SHELL OIL COMPANY
FOR AN ORDER GRANTING PERMISSION TO
DUALY COMPLETE AND PRODUCE ITS
SHELL-LIVINGSTON NO. 8 WELL LOCATED
IN LOT 14 OF SECTION 3, TOWNSHIP 21 SOUTH,
RANGE 37 EAST, NMPM, LEA COUNTY, NEW
MEXICO, IN THE DRINKARD POOL.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 20, 1952, at Santa Fe, New Mexico, before the Oil Conservation Commission, hereinafter referred to as the "Commission".

NOW, on this *12th* day of *December*, 1952, the Commission, a quorum being present, having considered the records and the testimony adduced, and being fully advised in the premises,

FINDS:

(1) That due notice having been given as required by law, the Commission has jurisdiction of the case and the persons and subject matter thereof.

(2) That applicant's Shell-Livingston, Well No. 8, Lot 14 of Section 3, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, was completed in September, 1952, as an oil well producing from the Drinkard formation through casing perforations 6654-6686, having drilled through the Blinbry gas zone at an approximate depth of 5660-5790.

(3) That although recent experiments tend to show that mechanical packers and other devices are ordinarily available for successful dual/multiple completions of oil - gas wells, the Commission is unconvinced of the soundness as a waste-prevention practice, of such dual/multiple completions as a general practice in New Mexico without specific controls over each such project.

IT IS THEREFORE ORDERED:

That the applicant herein, Shell Oil Company, be, and it hereby is authorized to dually complete and produce its Shell-Livingston, Well No. 8, located in Lot 14 of Section 3, Township 21 South, Range 37 East, NMPM, in such a manner that gas from the Blinbry formation may be produced through the annular space between the casing and the tubing, and oil from the Drinkard formation through the tubing by proper perforations and the installation of a proper packer or packers:

CASE NO. 436 - - ORDER NO. R-225

PROVIDED, HOWEVER, That subject well shall be completed, and thereafter produced, in such a manner that there will be no commingling within the well bore, either within or outside the casing of gas, oil and gas, or oil produced from either or both of the separate strata, and,

PROVIDED FURTHER, That said subject well for dual completion and production shall be equipped in such a way that reservoir pressures may be determined separately for each of the two specified strata, and further, be equipped with all necessary connections required to permit recording meters to be installed and used, at any time, as may be required by the Commission or its representatives, in order that natural gas, oil, or oil and gas from each separate stratum may be accurately measured and the gas-oil ratio thereof determined, and,

PROVIDED FURTHER, That the operator applicant shall make any and all tests, including segregation tests, but not excluding other tests and/or determinations at any convenient time and in such manner as deemed necessary by the Commission; the original and all subsequent tests shall be witnessed by representatives of the Commission and by representatives of offset operators, if any there be, at their election, and the results of each test properly attested to by the applicant herein and all witnesses, and shall be filed with the Commission within ten (10) days after the completion of such test, and,

PROVIDED FURTHER, That upon the actual dual completion of such subject well, applicant shall submit to the Commission a diagrammatic sketch of the mechanical installation which was actually used to complete and produce the seal between the strata, and a special report of production, gas/oil ratio and reservoir pressure determination of each producing zone or stratum immediately following completion.

IT IS FURTHER ORDERED, That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after proper notice and hearing, the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

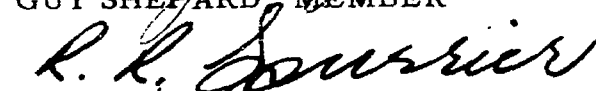
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

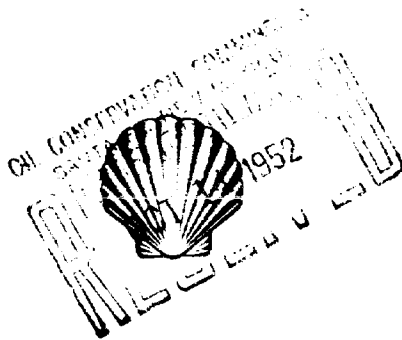


EDWIN L. MECHEM, CHAIRMAN


GUY SHEPARD, MEMBER


R. R. SPURRER, SECRETARY

S E A L



SHELL OIL COMPANY

THIS LETTER IS FROM OUR
FIELD OFFICE

AT Box 1957
Tolba, New Mexico

October 13, 1952

Cases 436 }
437 }

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

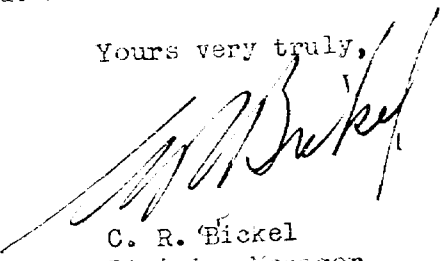
Gentlemen:

We are attaching herewith applications requesting permission to dually complete Shell Livingston 8 and 9 as Drinkard (oil) - Blinbry (gas) producers. Livingston 8 presently is producing as a single zone Drinkard well while Livingston 9 is now being drilled with the Drinkard as the objective horizon. We would appreciate these applications being placed on the November agenda.

With our application for each dual completion we have attached a plat covering the area surrounding the subject well and a graphic illustration of the proposed mechanical aspect of the dual production assembly. A print of the electrical survey of Livingston 8 also is attached. In the instance of Livingston 9, we are submitting a copy of the electrical log of the Hare Field twin well, Livingston 7.

If there is any further information needed with regard to these applications, please do not hesitate to call upon us at any time.

Yours very truly,


C. R. Bickel
Division Manager

Attachments



SHELL OIL COMPANY

THIS LETTER IS FROM OUR
FIELD OFFICE

AT Box 1957
Hobbs, New Mexico

October 10, 1952

Subject: Dual Completion
Livingston 8
Lea County, New Mexico

Case 436

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Gentlemen:

By means of this application the Shell Oil Company wishes to state the following:

- a) That Shell Livingston 8 located in the center of the SE/4 of Lot 14 of Section 3, T-21-S, R-37-E, was completed in September 1952 at a plugged back depth of 6938 feet after being drilled to a total depth of 8030 feet. The appended Exhibit A shows the location of this and all other wells on the Livingston lease together with the locations of all offset wells.
- b) That the said well was completed as an oil well producing from the interval 6654-6686 feet in the Drinkard formation after having been drilled through the Blinebry gas productive interval extending from approximately 5660 to 5790 feet. These data are depicted on the appended Exhibit B.
- c) That the applicant proposes to (1) perforate the 5-1/2 inch casing opposite the Blinebry gas-productive horizons and (2) set a Baker production packer at approximately 6600 feet in the 5-1/2 inch casing.
- d) That the applicant proposes to dually complete the said well to produce oil from the Drinkard formation through the tubing and gas from the Blinebry formation through the 5-1/2 inch casing. The manner and method of the proposed dual completion are shown on Exhibit C.
- e) That the granting of this application for permission to produce dually oil from the Drinkard formation and gas from the Blinebry formation is in the interests of conservation and the protection of correlative rights.
- f) That the applicant will do such things as may be required of it by the New Mexico Oil Conservation Commission in the maintenance of separation of production from said two horizons.

New Mexico
Oil Conservation Commission

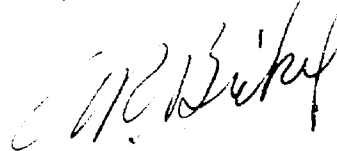
- 2 -

October 10, 1952

g) That the manner and method of the proposed dual completion is mechanically feasible and practical. No corrosion problems are anticipated as the hydrogen sulfide content of the Blinbry gas has been tested to be approximately 0.001 per cent and no carbon dioxide has been found in this gas.

Therefore, the Shell Oil Company requests that the Oil Conservation Commission set a certain day upon which this application may be heard and after said hearing to grant permission in order that the applicant may dually complete Livingston 8 so that oil from the Drinkard formation may be produced through the tubing and gas from the Blinbry formation through the casing.

Respectfully submitted,



C. R. Bickel
Division Manager

Attachments

Drinkard Production

Tree Showing Roots Cleared

Blindbry

Flow Line

Top of Liner 2648

8 5/8" Coating Cement @ 3153
Cement Cylinders 300
Cylinders 300
Cylinders 300

(Casting) Jet Production
w/ 4-21 gpm. Shot / Foot
Approx. From 5660 to 5790

(continued from previous page)
w/ 4 1/2" casing approx. 1300 ft.
Approx. From 5660 to 5790.

One 5 1/2" Deep Casing
Blow-off
@ 6595

By: M. D. R. R. R.
Fredrick P. R. R.
Est. @ 6600

5 1/2" Casing Cmt @ 2000

Tubing Perforations

5 1/2" casing perforations 6654 - 6686

FD TD 6938

TD 8030

Detail of Mechanical Equipment To Be
Installed In Dually Completed Drinkard And
Blindery Wells For Submission To Oil
Conservation Commission

To Accompany Application to Dually Complete Shell Livingston 8