Case Ma

435

Replication, Transcript,
5 mall Exhibits, Etc.

# 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. 435 ORDER No. R-224

THE APPLICATION OF SHELL OIL COMPANY FOR AN ORDER GRANTING PERMISSION TO DUALLY COMPLETE AND PRODUCE ITS SHELL STATE "F", WELL NO. 1 LOCATED IN THE NE/4 SE/4 OF SECTION 29, TOWNSHIP 19 SOUTH, RANGE 37 EAST, NMPM, LEA COUNTY, NEW MEXICO, IN THE EUNICE-MONUMENT 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 12 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 State "F", Well No. 1, NE/4 SE/4, Section 29, Township 19 South, Range 37 East, NMPM, Lea County, New Mexico, was completed in July, 1936, as an oil well producing from the Grayburg formation in the open-hole interval 3687-3943, having drilled through the Seven Rivers-Queen gas zone at an approximate depth of 3400-3650 feet.
- (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 State "F", No. 1 well, located in the NE/4 SE/4 Section 29, Township 19 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner that gas from the Seven Rivers-Queen formation may be produced through the annular space between the casing and tubing, and oil from the Grayburg formation through the tubing by proper perforations and the installation of a proper packer or packers.

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. SPURRIER, SECRETARY

SEAL



### SHELL OIL COMPANY

THIS LETTER IS FROM OUR FIELD OFFICE

AT Box 1957 Hobbs, New Mexico

October 9, 1952

New Mexico Oil Conservation Commission Santa Fe. New Mexico

OCT 14 1952

Gentlemen:

We are attaching herewith a total of eight individual applications for hearings requesting permission to recomplete presently producing oil wells as dual gas-oil producers. Of these eight wells, three are in the Monument Field and five are in the Eunice Field. 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, a graphic illustration of the proposed mechanical aspects of the dual production assembly, and a type lithologic and radio-activity log of the Eunice-Monument area.

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

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Oil Censery ties Commission Litabe of New Mexico Santa Po, New Mexico

Contloach:

Fy means of this application the Shell in Conjugative to atome the following:

- (c) That Shell State F-1, located in the H3/4 of the 3  $\frac{1}{4}$  of the 3  $\frac{1}{4}$  of Section 29, T-19-3, H-37-H, was completed in July 1936 at a total depth of 39h3 Sect. The appended whibit I show the location of this well to either with the locations of all effect wells.
- (b) That the said well was completed as an oil well producing from the interval 3607-3963 feet in the Orapburg formation after having been drilled through the Beven Elvars-queen gas productive interval antending from approximate-lim 3600 feet to 3650 feet. The appended exhibit B is a type log of the sunfactionment area. It is planned to run a radio-activity survey of shell State F-1 during the dual completion operation and a copy of the log will be filed with the Commission.
- (c) That the amplicant proposes to (1) performte the 7-inch casing opposite the Sevon Rivers- mean ras-productive horizons and (2) set a Taker retainer production packer at approximately 3675 feet in the 7-inch casing. The exact interval(s) to be performed with he solveted after the above-mentioned radio-activity survey has been completed.
- (d) That the sughinest proposes to duality complete the said well to produce oil from the Greyburg forms than through the to day seed goes from the Javer Threms- upon formations through the (-1)-inch consing. The morner and notice of the proposed dual completion are shown on willibit  $Q_\bullet$
- (c) Yhot the printing of this explication for particular to produce dually oil from the impliant form to a and can from the form-joren forms—tiens is in the interacts of conservation and the protection of correlative and the protection of correlative.

- (f) That the applicant will do such things as may be required of it by the New Jewico Cil Gerservation descipation in the amintensace of separation of production free suit two hardzens.
- (a) That the twenter and applied of the proposed dual completion is mechanically decable and ractical.

Therefore, the Shell Oil Company requests that the Oil Conservation Commission set a certain day upon which this application may be neard and after said became to great commission in order that the applicant may dually complete Shell State F-1 so that oil from the Chapturg Committee may be produced through the tubing one and from the Seven Rivers-Check demandations through the casing.

Asspectfully sakmitted,

STELL OIL COILERY

BY: C. R. Bickel

Oil Production

Tree Showing Rams Closed \

Gas Flow Line

4 % Casing Cemented @ 1363! w/ 430 sas neal

Casing Tet Perforated w/ 4 - 31 years shorts / fort Approx. From \_3400! to \_\_3650!

7% Casing Comented 1363"

Casing Tet Perforated

W/ 4 - 21 years shorts / feet

Approxifrom 24001 to 36501

Otis Side Door Choke
Blanked Off

D 3655!

Baner Model 'D' Retainer Production Packer Set @ 36751

7" Casing Cemented @ 3687" w/ 250 sx neat

Tubing Perforations

TD 39431

Detail of Mediandeal Van Tent to be Installed in Burlly Completed Sunice and Manument Sells for Japsiselin to the Conservation Conservation

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