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Application, 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. 434 ORDER No. R-223

THE APPLICATION OF SHELL OIL COMPANY FOR AN ORDER GRANTING PERMISSION TO DUALLY COMPLETE AND PRODUCE ITS SHELL STATE "M". WELL NO. 4, LOCATED IN LOT 16 OF SECTION 1, TOWNSHIP 21 SOUTH, RANGE 35 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 # 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 "M", Well No. 4, Lot 16, Section 1, Township 21 South, Range 35 East, NMPM, Lea County, New Mexico was completed in July 1937 as an oil well producing from the Grayburg formation in the open-hole interval 3715-3865, having drilled through the Yates-Seven Rivers gas zone at an approximate depth of 3000-3600 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 "M", No. 4 Well, located in Lot 16 of Section 1, Township 21 South, Range 35 East, NMPM, Lea County, New Mexico, in such a manner that gas from the Yates-Seven Rivers formation may be produced through the annular space between the casing and the 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

FDWM L MECHEM Chairman

GUY SHEPARD, Member

R. R. SPURRER, Secretary

SHELL OIL COMPANY



THIS LETTER IS FROM OUR FIELD OFFICE

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SANTA FE, NEW MEXICO.

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(SEL) 533. OIL CONSERVATION COMMISSION

Cil Conserv tion Commission State of Mess-exico Santa Pe, New Toxico

Gentlemen:

By means of bhis additablen the Shell (il Commany alshes to state the following:

- (a) That Shall State N-4, located in Lot 10 of Section 1, N-21-3, N-35-E, was completed in July, 1937 at a total depth of 3865 feet. The appended Skhibit A shows the location of this and all other wells on the Shall State M lease together with the locations of all offeet wills.
- (b) That the said well was conflicted as in oil well producing from the interval 3830-3838 feet in the prayoury formation after having been drilled through the Yates-Seven Rivers gas productive interval extending from approximately 3000 feet to 3600 feet. The appended schibit I is a type log of the bunice-Honument area. It is planned to run a radio-active curvey of shell State 17-4 during the duck completion operation and a copy of the log will be filed with the Commission.
- (c) That the applicant proposes to (1) perforate the 7-inch cusing opposite the Moter-Seven Rivers gab-productive herisons and (2) set a Raker retainer production packer at approximately 3730 feet in the 5-inch casing liner. The exact interval(s) to be perfected will be scheeted after the above-mentioned radio-active corvey has been completed.
- (d) That the applicant proposes to dually exposes the said well to produce oil from the Armyburn Population bloom is the tubing and has from the Mates-Ceven divers for which through the V-inch causing. The warmer and method of the processed dual completion are choice on which W.
- (e) What is a transition of this angliferation for naturalsolon to produce duality oil from the Grapburg formation and the first ties haves leven divers for this in the interests of corporation and the protection of correlative richo.

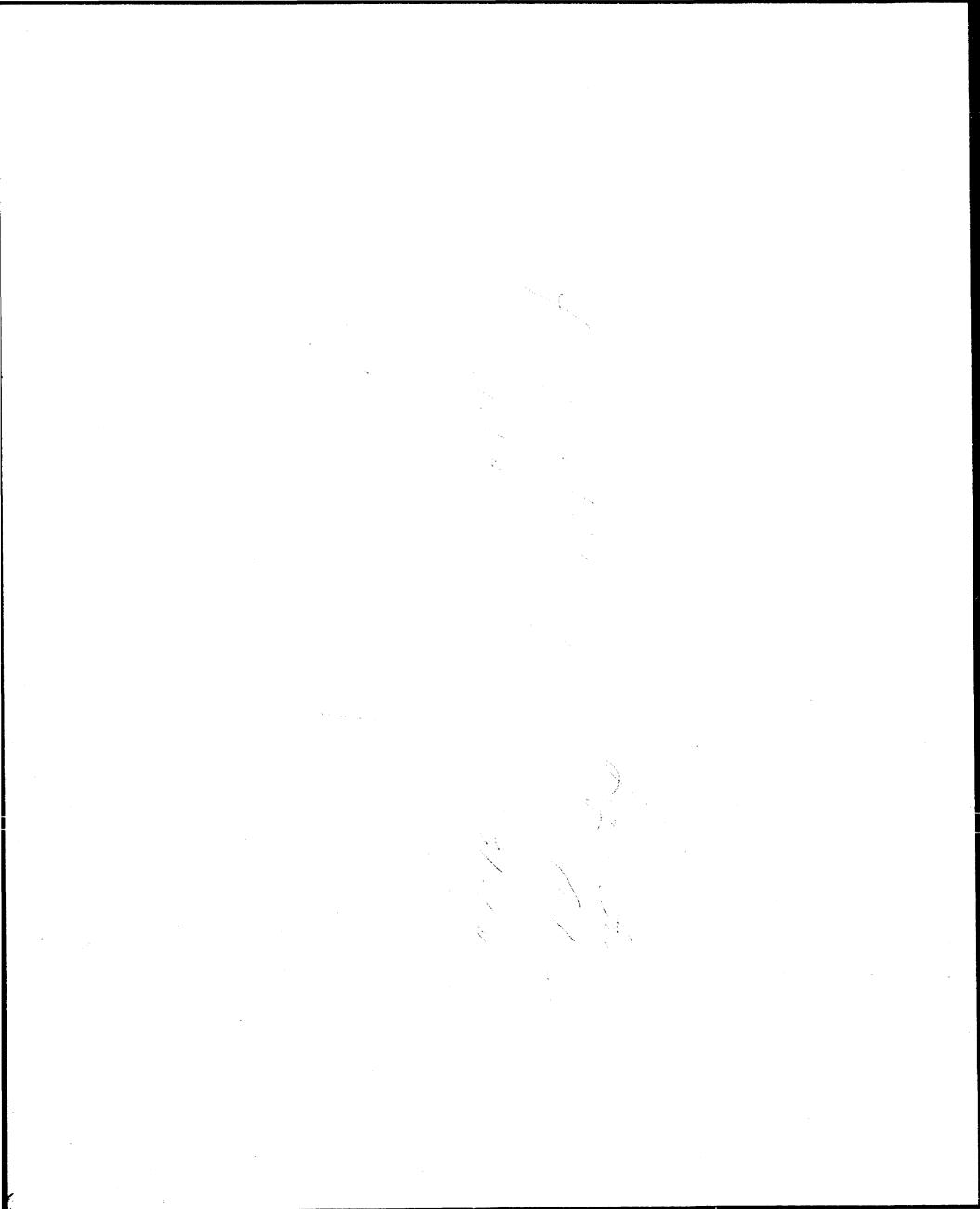
- (f) That the ambiguity will do such this as may be required of it by the New Mexico Chi Conservation Counts sion in the emirated are aspuration of production from sale two Lorizons.
- (g) That the manner and method of the proposed dust completion is mechanically feacible and practical.

Therefore, the Tiell 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 deally complete Shell State 1-4 so that oil from the Trayburg formation may be produced through the tubing and cas from the Mates-Jeven Aivers formation through the easing.

Respect Milly sammitted,

MARCHET ANTERY

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Tree Showing Rams Closed - Oil Production -Gas Flow Line

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Otis Side Door Chake Blanked Off

D 3710

Baser Medel D Retainer Freduction Packer Set & 3770

Tubing Perforations

7" Casing Comented @ 3715 w/

175 sas neat

TD 3865.

Decall of Member 1931 Voucement to be Installed in Though Correlated Suntal and Monument wells for Benedission to Oli Connervation Commission