# Casa Mo.

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Application, Transcript,
5 mall Exhibits, Etc.

# OIL CONSERVATION COMMISSION

P. O. BOX 871

### SANTA FE. NEW MEXICO

July 25, 1957

Shell Oil Company P. O. Bex 1957 Hebbs, New Mexico

Re: Cancellation of DC established by Order R-222

Gentlemen:

Reference is made to your letter of application dated July 5, 1957 for a 320 acre mon-standard gas promation unit for your State "K" Well No. 4.

Your application indicated you would abendon the Eument gas some in your State Well No. 2 located in the NE/4 NE/4 of Section 13, Tounghip 21 South, Range 35 East, and make only a single oil completion in the Eument Gas Pool. The increase in acreage for your State Well No. 4 from 160 acres to 320 acres will become effective September 1, 1957.

This is to motify you that the dual completion of Well Ro. 2 established by Order R-222 issued December 4, 1952, will be cancelled on September 1, 1957.

The basis for this cancellation is to be the recompletion of this Well Mo. 2 as a single oil completion in the Eument Gas Poel and the increase of acrosps will become effective on September 1, 1957 for your Well Mo. 4 as a non-standard gas proration unit in the Eument Gas Pool.

Yours very truly,

A. L. FORTER, Jr. Secretary-Director

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cc: Oil Conservation Commission - Hobbs New Mexico Oil & Gas Engineering Committee - Hobbs El Pase Netural Gas - Jal Phillips Petreleum Co., P. O. Box 66, Eunice

# 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. 433 ORDER NO. R-222

THE APPLICATION OF SHELL OIL COMPANY FOR AN ORDER GRANTING PERMISSION TO DUALLY COMPLETE AND PRODUCE ITS SHELL STATE "H" NO. 2 WELL, LOCATED IN THE NE/4 NE/4, SECTION 13, 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 "H", No. 2 Well, NE/4 NE/4, Section 13, Township 21 South, Range 35 East, NMPM, was completed in April, 1937, as an oil well producing from Seven Rivers-Queen formation in the open-hole interval 3800-3925 feet, having drilled through the Yates gas zone at an approximate depth of 3400-3700 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 "H", No. 2 Well, NE/4 NE/4, Section 13, Township 21 South, Range 35 East, NMPM, Lea County, New Mexico, in such a manner that gas from the Yates formation may be produced through the annular space between the casing and the tubing, and oil from the Seven Rivers-Queen formation throught 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. Spurfiel, Secretary

# SHELL OIL COMPANY



THIS LETTER IS FROM OUR FIELD OFFICE

AT 10X 3557 Clobba, Latin scien

Cabahar 6, 1958

Case 433

subject: In The Wiles to Backly Complete J. old Darks .-2, penico sheks los Joship, leu Lorice as a Kares (200) Jeven Tiveno-Jacon (Cil) Lell OI COMSERVATION CONTROLS SANTA FE, NEW MENTAL

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OCT 14 1952

(il Conservation Cormission State of New Yorkoo Ornta do, New Yerkoo

Gentleren:

By meens of this somlication the Well (il Company wishes to state the following:

- (a) That shall state U-2, located in the LS/L of the UU/L of Section 13, T-21-3, R-35-3, was completed in April, 1937 at a total depth of 3925 feet. The appended whibit A shows the location of this and all other wells on the Shell State H lease together with the locations of all effect wells.
- (b) That the said well was completed as an oil well producing from the interval 3000-3925 feet in the leven livers-juden form tion eiter having been drilled through the Mates are productive interval expending from approximately 3400 feet to 3700 feet. The appended whibit his a type log of the Dinice-Honument area. It is planned to run a radio-active survey of Shell State H-2 during the fuel completion coerction and a copy of the log will be filed with the Commission.
- (c) That the applicant proposed to (1) perfected the γ-lack excing opposite the Yates gas-productive horizons and (2) set a laker receiper production tacker at approximately 3500 feet in the Y-lack casing. The exact interval (s) to be perforated with be acheeved after the above-most and receipers. active survey has been completed.
- (d) That the applicant proposes to deally complete the build well to produce oil from the Seven Mivers-Queen Mornation through she busing and gos from the Mates formation through the 7-inch ending. The manner and mothed of the proposed dual completion are shown on whichit 3.
- (c) That the granting of this applicabler for paralission to produce duality oil from the Sever Pilvers-Tueen Formation are gas from the Tates Formation is in the interests of conservation are to protection of correlative rights.

(f) That the applicant will do such things as may be required of it by the New Textico Gil Vonservation Commission in the swintespace of separation of production from said two bordsons.

(g) That whe manner and method of the proposed dual completion is specialized feasible and tractical.

Therefore, the Shell Cil Company requests that the Cil Conservation Commission set a certain decrease which this application may be leard and after said hearing to grant permission in order that the applicant may dually complete Shell State H-2 so that oil from the Joven Mivers-Queen formation may be produced through the tubing and gas from the Yutes formation through the casing.

Respectfully submitted,

NIMAN ON COCKAIN

BY: C. R. Mickel

Tree Showing Rums Closed H 注例 - Oil Production -Gas Flow Line

4 % Co.sing Comented a 1586.

Casing Tet Perforated w/ 1.21 gram she's fort Approx. From 1907 to 1909

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Approx. From 3400 to 3700 Baker Medel "D" Retainer Production Packer Set @ 37801 Otis Side Door Choke
Blanked Off

P 3760 Casing Tet Perforated 7" Casing Cemented @\_

TP

39850

Tubing Perforations

3800

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- sxs neat

Detail of Mechanical Vaussment to be installed in hurly Commicted Sunice and Monument Wells for Submission to Oll Conservation Commission