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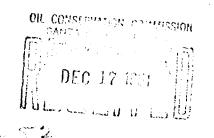
335

Application, Transcript,

Small Exhibits, Etc.



SHELL OIL COMPANY



THIS LETTER IS FROM OUR FIELD OFFICE

Box 1957 AT Hobbs, New Mexico

December 14, 1951

Oil Conservation Commission State of New Mexico Santa Fe, New Mexico Application to Dually Complete Shell Sarkeys 2, Drinkard Field, Lea County, New Mexico as a Blinebry (Gas)-Drinkard (Oil)

Gentlemen:

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

a) That Shell Sarkeys 2, located in the NE/4 of the SW/4 of Section 23-21S-37E, was completed in July 1948 at a total depth of 6610 feet. The appended Exhibit A shows the location of this and all other wells on the Sarkeys lease together with the locations of all offset wells.

Subject:

Well

- b) That the said well was completed as an oil well producing from the interval 6460 6610 feet in the Drinkard formation after having been drilled through the Blinebry gas productive interval extending from approximately 5555 feet to 5670 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 6400 feet and a Cameron anchor-type packer at approximately 6390 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.
- g) That the manner and method of the proposed dual completion is mechanically feasible and practical.

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 Sarkeys 2 so that oil from the Drinkard formation may be produced through the tubing and gas from the Blinebry formation through the casing.

Respectfully submitted,

SHELL OIL COMPANY

BY: C. R. Bickel

DEFORE 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 335 and 336 (Consolidated) ORDER NO. R-131

THE APPLICATION OF SHELL OIL COMPANY FOR AUTHORITY TO DUALLY COMPLETE AND PRODUCE ITS SARKEYS NO. 2 WELL, NE SW 23-21S-37E, NMPM: AND ITS SHELL TURNER NO. 5 WELL, NE SE 22-21S-37E, NMPM, AS BLINEBRY (GAS) - DRINKARD (OIL) WELLS.

ORDER OF THE COMMISSION

BY THE COMMISSION:

These causes, as consolidated, came on for hearing at 10 o'clock a. m. on January 22, 1952, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 6th day of March 1952, the Commission, a quorum being present, having considered the records and the testimony adduced, and being fully advised in the pramises,

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 Sarkeys No. 2 well, NE SW 23-21S-37E, NMPM, was completed in July 1948 as an oil well in the Drinkard pay, bottomed at 6610', and produced from the 6460' -6610' interval, having drilled through the Blinebry gas sone (5555' 5670').
- (3) That applicant's Shell Turner No. 5, in NE SE 22-21S-37E, NMPM, was completed in September 1949 as an oil well in the Drinkard pay, bottomed at 6612', and produced from the 6450' 6612' interval, having drilled through the Blinebry gas zone (5510'-5635').
- (4) 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, effective as of January 22, 1952, the applicant herein, Shell Oil Company, be, and it hereby is authorized to dually complete and produce (1) its Sarkeys No. 2 Well, NE SW 23-215-37E, NMPM, in the Drinkard pool, Lea County, New Mexico, in such a manner that gas from the Blinebry formation may be produced through the annular space between the casing and tubing, and oil from the Drinkard formation through the tubing; (2) in like manner, its Shell-Turner No. 5 well in NE SE 22-215-37E, NMPM, in the Drinkard pool, Lea County, New Mexico, that gas from the Blinebry formation may be produced through the annular space between the casing and tubing, and oil from the Drinkard formation through the tubing;

in each case, by proper perforations and packer installations,

PROVIDED, HOWEVER, That each of the subject wells herein shall be completed and thereafter produced in such a manner and way that there will be no commingling within the well-bore between the respective formations either within or outside the casing, of gas, oil, or oil and gas produced from either or both of the separate producing horizons, and,

PROVIDED FURTHER, That each of the subject wells for dual completion and production shall be equipped in such a way that reservoir pressures thereunder may be determined separately for each of the two specified zones of production, and, further, each subject well shall be equipped with all necessary connections which may be 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 for each subject well may be accurately measured or tested and the gas-oil ratio thereof determined, and,

PROVIDED FURTHER, That the applicant operator shall make any and all tests, including segregation tests but not excluding other tests, at any convenient time, and in such manner as deemed necessary by the Commission; the original and all subsequent tests shall be witnessed by a representative of the Commission and by representatives of offset operators, if any there be, at their election, and the results of each such test for each subject well, properly attested to by the applicant operator, and all witnesses, shall be filed within 10 days after completion thereof with the Commission in Santa Fe, New Mexico; and

PROVIDED FURTHER, That prior to the time each such subject well is dually completed, the applicant/operator shall furnish the Commission, for its approval, a drawing showing the proposed method and manner of completion, together with an electrical log showing the location and extent, for each subject well, of each separate stratum yielding production, and the vertical footage location of the proposed perforations, and,

PROVIDED FURTHER, That upon the actual dual completion of each such subject well (Sarkeys No. 2, NESW 23-215-37E, and Shell-Turner No. 5, NESE 22-215-37E) a plat or diagrammatic sketch of the mechanical installations which were actually used to complete and produce the seal between the strata for each subject well, and a special report of production, gas-oil ratio, and reservoir pressure determination of each producing zone for each subject well, be furnished immediately following completion.

IT IS FURTHER ORDERED, That jurisdiction of Causes No. 335 and 336, as consolidated, is hereby retained by the Commission for such other and further orders as may seem necessary or convenient to it, for the prevention of waste and/or protection of correlative rights; upon failure of applicant or its successors to comply with any requirement of this order, after proper notice and hearing, the Commission may terminate the authority hereby granted for either or both subject wells, and require applicant or its successors and assignees to limit its activities to regular

-3-Case No. 335 and 336 Order No. R-131

single-zone production in the interest of prevention of waste and/or protection of correlative rights.

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

OIL CONSERVATION COMMISSION STATE OF NEW MEXICO

Transcript of Hearing

CASE NO. 335

January 22, 1952

Henrickson's Reporting Service 2224 - 47th Street Los Alamos, New Mexico

OIL COMBERVATION COMMISSION SANTA FE, NEW MIXICO

Jamary 22, 1952

Case 335: Shell Oil Company's application for permission to dually complete its Sarkeys No. 2 well, Hortheast quarter, Southwest quarter, Section 23, Township 21 South, Range 37 Mast, MAPM as a Bline-bry gas-oil well which was completed in July of 1948 as an oil well only at 5,610 feet in the Drinkard formation.

JOHN D. SAVAGE.

having first been duly sworn, testified as follows:

MR. SAVAGE: May we not combine cases 335 and 336 - they are similar. They are both alike, really.

MR. GRAHAM: Will you please explain how they are similar?

MR. SAVAGE: Well, the wells themselves are both Drinkard producers, close to the same depth of approximately 6,600 feet each and we request permission to bring each well into a Blimebry gas—

Drinkard oil to completion. And the method of precedure which we plan to earry out is the same in each case and we will perforate the "sormbs" on each well.

MR. GRAHAM: Proceed in your own words.

MR. SAVAGE: Well, we plan to do it this way. These wells are now Drinkard-producing wells and we will kill a well, perforate the deposite above the gas-collecting sone, and expect to do

completion by the use of a daker Production Type Packer. It is really a permanent insulation of the casing about he present oil zone and gas will produce in the "attics" while the oil will continue to be produced in the new.

MR. GRAHAM: Nave you previously submitted - - -

MR. SAVAGR: Yee, we submitted our application to do this work. We submitted three exhibits - the first, exhibit A, which was a map showing the well which we are supposed to work on and the location of all surrounding eff-set wells; the second exhibit, exhibit B, are copies of the venticlause of the wells we intend to work on and they show how we are to perforate in the existing preducing some and them Exhibit C, the boundaries of each well with mechanical a diagrammatic sketch of the/means whereby we propose to effect the dual completion. Those were sent in with our application to do the work.

MR. GRAHAM: You are familiar with the usual type of order in these dual completions issued by the Commission?

MR. SAVAGE: Our present order - - -

MR. GRAHAM: With particular reference to your sand guage test?

MR. SAVAGE: Oh yes, indeed.

MR. GRAHAM: Inside and outside?

KR. SAVAGE: Yes.

MR. GRANAM: Is this work contemplated or has it already - -

HR. SAVAOE: We have done no work.

HR. GRAHAM: And after you have completed each of these wells, then you will be prepared to actually submit a draft of - - - -

HR. BAVADE: Yes, we will.

MR. SPURRIER: Do have a relative bottom hele or a - - -

HR. SAVAGE: I don't have it handy but they are in the New Mexico file.

MR. SPURRIER: Are there any further questions of this witness?

If not, the witness may be excused.

STATE OF HEW MEXICO)
COUNTY OF LOS ALAMON)

I hereby certify that the foregoing and attached transcript of hearing in Case 335 before the Cil Conservation Commission on January 22, 1952, at Santa Fe is a true record of the same to the best of my knowledge, skill and ability.

DATRO at Les Alames, this 22nd day of January, 1952.

Andrey M. Barickson

My commission expires September 20, 1955.

Zefore the Oil Conservation Commission of New Mexico.

In the matter of the hearing Called by the Oil Conservation Commission of New Mexico for the purpose of Considering:

Case 335 = 336 (Consoliction)

Order no _____

(DUAL COMPLETION)

The application of Shell Oil Companies for Authority to dually Complete and produce its Dorkeys no 2 meel, NE Dw. 23. Twp. 21. S. R. 37E n.m.pm., and its Shell-Jurner no 5. well, NE DE 22- 21.5-37E nm pm. as Blinky Jas, Hunkard oil Wells,

By the Commission: There Causes as Consolidated,

Came on for hearing at 10:00 octors a.m. on

January 22, 1952, at Santa Fe, New Mexico, hefore

the Oil Conservation Commission of New Mexico, herein after

referred to as the "Commission".

New on This 8th day of Tehruary 1952, The Commension, a quorum being present, having considered the records and the testimony addiced, and being July advised in the premises,

Finds, (1.) Hot due notice having heen given as required by law, The Commission has Jansobelin of the case and the persons and subject matter there of. 1) That applicants Sarkeys # 2 well, Mr. Swx 23-215-R31E nmpm was completed in July 1948 as an Die well in the Brukard pay, at 6610' bottomed at 6610' and producing from the 6460'- 6610' interval, having drilled through the Blindry gas zero (5555'-5670'). (3) That applicant's Shell writer no J, in ne'se's 22-215-37 E, nmpm was completed in Destember 1949, as an Oil well in the Abrinkard pay bottomed at 6612' and producing from 6450'- 6612' interval, having dulles through the Blinebry gas zone (5510'-5635'). (4) That although recent experiments Tend to show that mechanical pockers and other devices are ordinarily available for engineeringly duccentul dual/multiple completions of oil-gas wells, the Commission is unconvinced of the boundness as a waste prevention proctice, of such dual multiple completions as a glneral proctice in new mexico without Afreign controls over each such project. A is Herefore Ordered, that effective of January 22, 1952 The applicant Lerein, Shell Oil Company, be, and it hereby is Guthorned to dually complete and produce (1.) its Sarkeys # 2 well, 72 mi, 23-215-R37E, In project in the Port, Lea County, nm, in back a manner that gas from the Blineber Journation (5555'- 5670') may be produced Through The annulas space between the Casing and thing, and oil from the Wrink and (6460'- 6610') formation Through the tubing of the formation of the formation sustatution of the production of the sond (2)-

to the manner, its Shell-Joiner no 5, well in M de, 22-515-37 E. n m pm, in the pore Lea County 7 h, that gas from the Blindry formation (55 10 = 5635) may be produced through the annular spore between the Carring and Making and Oil from the Dunkard (6450'-6612') formation through the tubing; In each case by projer perforations and porter installations, Provided, however, Ihrt to lock of the Subject wellsterain, shall be completed, and thereafter produced in Such a less manner and was that there were he no commingling within the well bore, either within, or outside the Casing of gas, oil, or oil and gas produced from either or both of the Asparate Producus horizons and Provided, Turther That each of the Subject weeks I for dual completion and production shoel he equipped in such a way that reservoir fressures Thereunder may be to determined separately for each of the two specified zones of production, and further each broseit well shall be equipped with all necessary Connections which may be required to permet 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, oic, or oil and gas from each separate shakin for each subject well may be accurately measured a lester and The Oil gus ratio thereon determined, and, Knowided Jurker that the applicant/operator shall make any and all tests, including segregation tests but not excluding other tests, at signer any convenient time, and in sugh manner as deemed hecemany by The Commenium; the original.

and are subsequent tests shall be witnessed by a representative of the Commession and by representatives I offset aferators, if any There be, at their election, and We results I each such test for each subject well, properly attested to by the Opplicant operator, and see witnesses, shall be filed within 10 days exter completion with the Commencer in Santa de, new mexico. fronded Further That prior to the time each such that Subject well is dually Completed The appheant/operator shall fremish the Commission, for its approval, a drowing showing the proposed method and manner of Completion, Together with an electrical log showing The location and extent for each Dubject well, of each Reparate Thatum yielding production, and the Vertical fortige location of the proposed perforations, and, frouded Further that upon the actual dual Completion of each such subject well (Aarkays # 2, WE DW - 23 - 215 - 37 E, and Shell Jurner nos, MEDE - 12-21-37E) a plat or diagrammatic statch of the mechanical installations which was actually used to complete and produce the seal between the Shota for each Antifect well, and a special regard of production gas/oil notes, and reservoir frement dellaminchen of each producing zone for each such surpert well unmediately following completion. It is Jurther Ordered that Jurusduction & Course no 375 and 336, as Consolikated in feat, Witamed by the Commission for such other and for the Orders as may seem necessary or Convenient the it, for the prevention of wante and/or

Motisteen Correlative rights; upon Judice of applicant or its Duccernors to comply with any requirement of this Order exter proper notice and hearing, The Commission may derminate the Authority hereby granted for either or both Dubject wells, and require applicant or its successors and assigned to limit its activities to regular bugl zone production in the interest of preventing waste and/or protection of Correlative rights.

Done at Santa Te, Then mexico on the day was year. Perematore designated.

State og h m Oil Conservation Commission

Any Jan Stepans Show Sug Jand Can Sug 1 RR. S. Jang. Oce

STATE OF NEW MEXICO OFFICE OF STATE GEOLOGIST SANTA FE, NEW MEXICO

January 2, 1952

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Shell Oil Company Box 1957 Hobbs, New Nextoo

Attention: Mr. C. R. Bickel

Centlemen:



This is to advise that your applications relating to dual completion (gas - oil) of your Sarkeys No. 2 and Turner No. 5 wells in Township 21 South, Range 37 East, have been formalised as Case 335 and 336, respectively, and will be heard on January 22, 1952, at the regular hearing of the Commission.



Very truly yours,

RRSinr

R. R. Spurrier Secretary - Director