Caso Mo.

383

Application, Transcript, 5 mill Exhibits, Etc.

BEFORE THE

CIL CONSERVATION CONTRESION

FIRE OF GENERATOO

TRANSCRIPT OF PROCEEDINGS

CASE NO. 383

July 15, 1952 Regular Hearing

> ALIA DEARNLEY & ASSOCIATES COURT REPORT IN: PROOM 12: CHOMWELL ET DO PHONES 7:9645 AND 5:9546 ALBUQUEROUS NEW MEXICO

AMPORE THE CIL COMSERVICION CONSERVICE CHILD TE, The AMERICA

JULY 13, 1962

In the Ekster of:

Tide Water Associated Oil Company's application for parmission to dually complete its State """ no. 2 well, Eunice Pool, Sa Da 16-315-366, lea County (oil from Charburg-San Andres and sas from the Yates-Seven Hivers).

Case No. 383

(Notice of Publication read by Mr. Graham.)

Md. HOLLOWAY: I am J. B. Molloway, authorized representative of Tide Water Associated Cil Company, in the southern southwestern states, including New Mexico. I expect I will be the only witness so I suggest I be sworn here.

MR. J. B. HOLLOWAY,

having been first duly sworn, testified as follows:

"With the exception of the different mineral ownership, this application for permission to dually complete our State "A"

No. 2 well located in the center of Sn/4 SE/4 of Section 16.

Township 21 South, Range 36 hast, Lunice Pool, Lea County, is Identical in principle to a similar application made last month under Case No. 375".

I might offer an exhibit for reference here. I believe you have a map. This has the wells colored on that are producing from the gas and also an exhibit of a typical duall completion

ADA DEARNLEY & ASSOCIATES
COUNT REPORTERS
ROOM 12, CMOMWELL BLLD,
PHONES 7:9645 AND 5:9546
ALBUQUERQUE NEW MEXICO

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"This notes apposituded the Component constraint this will on how 18, 19,6, which britishly and proporting in producing oil from the Grayburg-Jan andres formation from open Mole interval total 3827 feet (the bottom of 7" casing) to 3906 feet, (the/dipth of well). An intermediate suring of g=5/8% dualing was set and cananty at 1979 feet.

of electric longing, however, the driller's los shows gas zones were penstrated at leveral intervals commencing at 3181 feet, which zones are now identified in this area as being the Yutes-Seven divers formation.

The only well in the area producing from the Yates-Seven divers formation and on which an electric log was run that we have a copy of is Skelly til Sempany's State "3" well No. 7, located approximately 4650 feet northwest of our well. Skelly's well is producing was from the Yates-Seven Rivers formation from open hole interval 2995-3480 feet.

It is our opinion that it is practical and economically feasible to dually complete our State "E" No. 2 well in such manner that the Grayburg-San andres formation would continue to be produced through the tubing, and has from the Yates-Seven Rivers zones through the annulus between the tubing and casing.

with no semanization between the two products in Comptions.

propose before before on the seasons of the To desire with 1.00 pounds propose before before and electrophic section retainer equipped with a perforation obeye and ball pine below, to a depth below and fact and test casing above that lapth. A radioactivity bag would then he can through our retainer would then he can through our retainer would then he pareforated opposite the root permeable zoner. Dual completion would be effected by setting a Baker hodel "D" retainer production packer at approximately 370% feet, and tubing run through the packer for projection of the lower zone, or Grayburg-Jan Andres formation. The well is presently equipped for proping, which would be changed to mas-lift to eliminate tubing vibration and possibly cause packer leakage.

we further propose that prior to the time the well is dually completed, to furnish the Commission, for its approval, a copy of the radioactivity log showing the location and extent of each separate stratum yielding production above the casing shoe and the vertical footage location of the proposed perforations; and further upon the actual dual completion of the well we shall submit to the Commission a diagrammatic sketch of the mechanical installation which was used to complete and produce the seal between the producing formations, together with a special report of production, gas-oil ratio and reservoir pressure determination of each producing zone immediately

ADA DEARNLEY & ASSOCIATES
COURT REPORTERS
ROOM 12, CROMWELL BLDG
PHONES 7-9645 AND 5-9546
ALBUQUERQUE, NEW MEXICO

the Commission which to the Commission seems necessary for the prevention of waste or protection of correlative rights.

If we are permitted to recomplete the well in the manner here proposed, it will save the use of approximately 77 tons of critical steel in addition to 227,000-230,000 which is the estimated difference between drilling a new well and the proposed dual completion."

photostatic copy of our company's well log of the well. It was drilled so long ago that I do not have in my file a copy of the completion report that must have been filed with the Commission.

MR. GRAHAM: You're familiar with the general type of the order heretofor issued by the Commission in the case?

A Yes.

MR. GRAHAM: And are prepared to conform with the practices?

A Oh, we are, yes, sir. I rather modeled this application following those requirements that I did know the Commission had, for dual completions.

(Marked Holloway's Exhibits No. 1, 2 & 3, Case No. 383 for identification.)

Md. SPURRIER: Do you offer these exhibits 1, 2 & 3 in evidence?

A Yes.

MIL. SPURMINE: Without objections they will be recrived. Any question of this witness? Is there any objection to Tile Water's proposal? If no further questions the witness may be excused.

(Witness excused.)

Any further comment in the case? The case will be taken under advisement. We will move on to Case 384.

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO)

I HERERY CERTIFY that the foregoing and attached transcript of hearing in Case No. 383 before the Oil Conservation Commission, State of New Mexico, at Santa Fe, on July 15, 1952, is a true and correct record of the same to the best of my knowledge, skill and ability.

DATED at Albuquerque, New Mexico, this ______ day of July, 1952.

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SEST AVAILABLE CORY

With the exception of the different mineral ownership, this application for permission to dually complete our State "E" No. 2 well located in the center of SE/4 SE/4 of Section 16, Township 21 South, Rarge 36 East, Eunice Pool, Lea County, is identical in principle to a similar application made last month under Case No. 375.

Fide Water Associated Oil Company completed this well on May 18, 1936, which originally and presently is producing oil from the Grayburg-San Andres formation from open hole interval 3827 feet (the bottom of 7" casing) to 3906 feet, (the total depth of well). An intermediate string of 9-5/8" casing was set and cemented at 1579 feet,

The well was drilled prior to the time of the general use of electric logging, however, the driller's log shows gas zones were penetrated at several intervals commencing at 3180 feet, which zones are now identified in this area as being the Yates-Seven Rivers formation.

The only well in the area producing from the Yates-Seven Rivers formation and on which an electric log was run that we have a copy of is Skelly Oil Company's State "B" well No. 7, located approximately 4650 feet northwest of our well. Skelly's well is producing gas from the Yates-Seven Rivers formation from open hole interval 2995-3480 feet.

It is our opinion that it is practical and economically feasible to dually complete our State "E" No. 2 well in such manner that the Grayburg-San Andres formation would continue to be produced through the tubing, and gas from the Yates-Seven Rivers zones through the annulus between the tubing and casing, with no communication between the two producing formations.

If granted permission to dually complete the well, we propose before doing so to test the 7" casing with 1500 pounds pressure by running a retrievable

depth below 3000 feet and test casing above that depth. A radioactivity log would then be run through gas section to enable us to identify possible productive gas somes. The casing would then be perforated opposite the most permeable zones. Danl completion would be effected by setting a Baker Model "D" retainer production packer at approximately 3700 feet, and tubing run through the packer for production of the lower zone, or Grayburg-San Andres formation. The well is presently equipped for pumping, which would be changed to gas-lift to eliminate tubing vibration and possibly cause packer leakage.

We further propose that prior to the time the well is dually completed, to furnish the Commission, for its approval, a copy of the radioactivity log showing the location and extent of each separate stratum yielding production above the casing shoe and the vertical footage location of the proposed perforations; and further upon the actual dual completion of the well, we shall submit to the Commission a diagrammatic sketch of the mechanical installation which was used to complete and produce the seal between the producing formations, together with a special report of production, gas-oil ratio and reservoir pressure determination of each producing some immediately following completion, and further to comply with any order of the Commission which to the Commission seems necessary for the prevention of waste or protection of correlative rights.

If we are permitted to recomplete the well in the manner here proposed, it will save the use of approximately 77 tons of critical steel in addition to \$27,000-\$30,000 which is the estimated difference between drilling a new well and the proposed dual completion.

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

> CASE NO. 342 ORDER NO. R-180

ORDER OF THE COMMISSION

BY THE COMMISSION

This cause came on for hearing at a. m., on February 21, 1952, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 20th day of March, 1952, the Commission, a quorum being present, having considered the testimony adduced and the exhibits received at said hearing, and being fully advised in the premises.

FINDS:

- (1) That due public notice have a Commission has a
 - (2) That applicant's State "E", No. 2 Well, SESE, Section 16, Tourship 21 South, Range 36 East, NMPM, Lea County, New Mexico, was completed Mr in May, 1936 as an oil well in the Grayburg-San Andres pay in the Eunice Pool, bottomed at 3906 and produced f om the open hole interval 3827-3906, having drilled through the Yates-Seven Rivers Gas zone (3180-3250).
 - (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 ORLERED:

That the applicant herein; (idewater) issociated Oil Company, be, and it hereby is authorized to dually complete and produce its State "E", Well. No. 2 SE SE, Section 16, Township 21 South, Range 36 East, NAPM, Lea County, New Mexico, in such a manner that gas from the Yates-Seven Rivers formatic may be produced through the annular space between the casing and the tubing, and oil from the Grayburg-San Andres formation through the tubing by proper perforations and 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/or its successors and assignees 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.

OIL CONSERVATION COMMISSION - Signed by Edwin L. Mechem, Chairman; Guy Shepard, Member; R. R. Spurrier, Secretary.

College 2

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

CASE NO. 383 ORDER NO. R-180

THE APPLICATION OF TIDEWATER ASSOCIATED OIL COMPANY FOR AN ORDER AUTHORIZING THE DUAL COMPLETION (GAS-OIL) OF THEIR NO. 2 STATE "E" WELL, LOCATED IN THE SE/4 SE/4 SECTION 16, TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM, LEA COUNTY, NEW MEXICO, IN THE EUNICE POOL.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m., on July 15, 1952, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 5 day of Augus!, 1952, the Commission, a quorum being present, having considered the testimony adduced and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That applicant's State "E", No. 2 Well, SESE, Section 16, Township 21 South, Range 36 East, NMPM, Lea County, New Mexico, was completed in May, 1936 as an oil well in the Grayburg-San Andres pay in the Eunice Pool, bottomed at 3906 and produced from the open hole interval 3827-3906, having drilled through the Yates-Seven Rivers Gas zone (3180-3250).
- (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, Tidewater Associated Oil Company, be, and it hereby is authorized to dually complete and produce its State "E", Well No. 2 SE SE, Section 16, Township 21 South, Range 36 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-San Andres formation through the tubing, by proper perforations and 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 gasoil 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 assignees to limit its activities to regular singlezone 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 Lo MECHEM. Chairman

GUY SHEPARD Member

R. R. SPURRIER, Secretary

SEAL

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

Case 383

IN THE MATTER OF THE APPLICATION OF TIDE WATER ASSOCIATED OIL COMPANY FOR AN ORDER GRANTING PERMISSION TO DUALLY COMPLETE STATE "E" NO. 2 WELL, EUNICE POOL, SE/4 SE/4, SECTION 16, TOWNSHIP 21 SOUTH, RANGE 36 EAST, N.M.F.M. IEA COUNTY, NEW MEXICO.

APPLICATION

COMES NOW, Tide water Associated Cil Company, a Delawaro Corporation, operating in New Mexico from a field office in Hobbs, New Mexico, and respectfully represents to the Cil Conservation Commission of the State of New Mexico that on May 18, 1936, it completed State "E" Well No. 2 located in the center of SE/4 SE/4 Section 16, Township 21 South, Range 36 East, N.M.P.M., Eunice Pool, Lea County, New Mexico; that said well is presently producing oil from the Grayburg-San Andres formation from open hole interval 3827 to total depth 3906 feet; that 7" casing is set and cemented at 3827 feet; that an intermediate string of 9-5/8" casing was set and comented at 1579 feet.

Applicant further represents that a high pressure gas zone exists in the Yates-Seven Rivers formation, present and producing in the open hole interval 2995-3480 feet in Skelly Oil Company's State "B" No. 7 located in the SW/4 NW/4 Section 16, Township 21 South, Range 36 East and from other Bradenhead or dually completed wells in the area.

Applicant further represents that it is practical and economically feasible to dually complete the State HEN No. 2 well to produce oil from the Grayburg-San Andres formation through the tubing and gas from the Yates - Seven Rivers gas zone through the tubing-casing annulus with proper packer and well head connections, and in such manner that there will be no commingling of fluids between the two reservoirs.

WHEREFORE, Applicant respectfully requests that this matter be set down for hearing on due notice, and that at such hearing it be authorised to dually complete said well in accordance with the foregoing petition and the rules and regulations of the Commission.

Attached here to is a plat showing the location of the well proposed for dual completion and surrounding wells and lesseholds.

DONE at Houston, Texas, on this the 16th day of June, 1952.

Respectfully submitted

TIDE WATER ASSOCIATED OIL COMPANY

J. B. Holloway

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Over-sized Map

Map Filmed As Follows:

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