# Casa Mo.

383

Application, Transcript,
5 mill Exhibits. Etc.

SE 383: Tide Water Associated Oil Co. plication for dual completion of State 2 Well, SE SE 16-218-36E (Oil - gas)

## BEFORE THE OIL CONSERVATION COMMISSION STATE OF NEW MEXICO

TRANSCRIPT OF PROCEEDINGS

CASE NO. 383

July 15, 1952 Regular Hearing

ADA DEARNLEY & ASSOCIATES
COURT REPORTERS
ROOM 12, CROMWELL BLDG
PHONES 7-8645 AND 5-8646
ALBUCUERQUE, NEW MEXICO.

## BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

JULY 15, 1952

In the Matter of:

Tide Water Associated Oil Company's application for permission to dually complete its State "E" no. 2 Well, Eunice Pool, SE SE 16-21S-36E, Lea County (oil from Grayburg-San Andres and gas from the Yates-Seven Rivers).

Case No. 383

(Notice of Publication read by Mr. Graham.)

MR. HOLLOWAY: I am J. B. Holloway, authorized representative of Tide Water Associated Oil 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 "E" No. 2 well located in the center of SE/4 SE/4 of Section 16, Township 21 South, Range 36 East, Eunice 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 dual completion

ADA DEARNILEY & ASSOCIATES
COURT REPORTERS
ROOM 12, CROMWELL BLOG.
PHONES 7-9645 AND 5-9546
ALBUQUERQUE, NEW MEXICO

as we expect it to be. We have no electric or radioactivity, log of this well. We just superimposed one and have drawn on it the packer settings and expected perforations and producing zone just for generalized exhibit.

"Tide 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 total 3827 feet (the bottom of 7" casing) to 3906 feet, (the/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 cement retainer equipped with a perforation above and bull plug below, to a 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 zones. The casing would then be perforated opposite the most permeable zones. Dual 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 zone 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."

MR. HOLLOWAY: I believe that is all. I have a 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.)

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

A Yes.

ADA DEARNLEY & ASSOCIATES

COURT REPORTERS

ROOM 12, CROMWELL BLDG.
PHONES 7-9645 AND 5-9546
ALBUQUERQUE, NEW MEXICO

MR. SPURRIER: Without objections they will be received. Any question of this witness? Is there any objection to Tide 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 HEREBY 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.

REPORTER

ADA DEARNLEY & ASSOCIATES

COURT REPORTERS

ROOM 12, CROMWELL BLDG.
PHONES 7-9645 AND 5-9546
ALBUQUERQUE, NEW MEXICO

Ey#3 Call 383 WELL RECORD ELEV. 3608 2 State E AUTH. NO 2452 LOCATION 660 | North of the Bouth and 660 | West of the East lines FARM OR LEASE 4/2/36 Fox Rig & Lumber Company 4/12/36 DRILLING CONTRACTOR H.W. Bass Drilling Company CASING AND TUBING RECORD PULLED OUT 13400 276 SIZE 9-5/8"00 1579 2-3/8"OD 3907" 740D 3827 BOTTOM THICKNESS INITIAL TORPEDO Lime 3830 3850 TORPEDO COMPANY Lime 3860 3875 Line 3890 3906 TOTAL DEPTH 3906 ND OIL SHOWINGS Show Gas from 3561 | 3580 | 3650 | 3689 | 3790 | 3810 | COMMENCED PRODUCING Went on allowable 6/1/36 SUBSEQUENT HISTORY When completed it would not flow natural, with 750# gas pressure turned in the tubing, flowed 20-bbls per hour. Was treated with 2000-gallons of acid on the 5/20/36, and it flowed 259-bble per hour.

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## FORMATION RECORD

Caliche & Sand	61
Sand	250
Red Bed & Sand Red Bed	295 431
Red Rook & Shale	680
Red Rock & Shells	830
Red Bed & Shale	1005
Red Bed & Shells	1425
Anhydrite	1485
Anhydrite	1510
Red Rook & Anhydrite	1510 1560
8alt	1580
Anhydrite	1582
Salt	1595
Shale & Anhydrite Shell's	1759
Anhydrite	1794
Salt Salt	1825
Anhydrite i Shale	1950
Anhydrite	1977
Anhydrite	2000
Potash	2010
Salt	2096
Salt, Anhydrite & Shells	2364
Anhydrite	2385
Salt.	2397
Anhydrite	2415
Salt	2545
Anhydrite	2557
Salt & Anhydrite Shells	2653
Anhydrite	2675
Salt	2710
Anhydrite	2730
Annydrite	295?
Lime & Anhydrite Brown Lime	29 <b>97</b> <b>30.62</b>
- T T	3085
Line Sandy Line	<b>31</b> 05
Brown & Grey Line	3130
Brown Line (Gas)	3180
Brown & frey Lime	3204
Line	3395
Anhydrite	3413
Lime	3469
Line	3561
Lime	3689
Sandy Line	3723
Lime	3790
Sandy Line (das)	3810
Lime	<b>381</b> 5
Lime	3820
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Lime	3860
Brown Sandy Lime	3555
Lime	3890
Sandy Lime TD	<b>39</b> 06

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With the exception of the different mineral ownership, this application are 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, Range 36 East, Eunice Pool, Lea County, is identical in principle to a similar application made last month under Case No. 375.

Pac 283

Tide 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 "N" 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 sones. The casing would then be perforated opposite the most permeable zones. Deal 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 zone 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

THE APPLICATION OF TIDEWATER ASSOCIATED OIL COMPANY FOR AN ORDER AUTHORIZING THE DUAL COMPLETION (GAS-OIL) OF THEIR NO. 2,XHILLERING 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 COMPUSSION

#### 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
  - (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; (lidewater) 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 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.

CNR 383

#### 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. 383 ORDER NO. R-180

THE APPLICATION OF TIDEWATER ASSOCIATED OIL COMPANY FOR AN ORDER AUTHORIZING THE DUAL COMPLETION (GAS-OIL) OF THEIR NO. ? 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 August, 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 there of.
- (2) That applicant's State "E!, No. 2 Well, SESE, Section 16, Township 21 South, Range 36 East, NMPM, Laa 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 success ful 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

-2-Case No. 383

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,

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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 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 Lo MECHEM. Chairman

GUY SHEP AD, Member

R. R. SPURRIER, Secretary

SEAL

## BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

JUN 19 1952

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.P.M. LEA COUNTY, NEW MEXICO.

#### APPLICATION

COMES NOW, Tide Water Associated Oil Company, a Delawaro Corporation, operating in New Mexico from a field office in Hobbs, New Mexico, and respectfully represents to the Oil 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., Funice 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 cemented 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 authorized 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 leaseholds.

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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