

Case No.

1417

Application, Transcript,  
Small Exhibits, Etc.



[REDACTED]

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EXAMINER HEARING  
OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
April 10, 1958

IN THE MATTER OF: Case No. 1417

TRANSCRIPT OF PROCEEDINGS

MCARNLEY - MEIER & ASSOCIATES  
INCORPORATED  
GENERAL LAW REPORTERS  
ALBUQUERQUE, NEW MEXICO  
3-6691 5-9546



Application of Sinclair Oil and Gas Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its A. M. York "B" Well No. 2, located in the NE/4 NE/4 Section 20, Township 21 South, Range 37 East, Lea County, New Mexico, to produce oil from the Tubb Gas Pool and from the Drinkard Oil Pool through parallel strings of tubing.

Case 1417

TRANSCRIPT OF PROCEEDINGS

(Witness sworn.)

DIRECT EXAMINATION

Q State your name and position.



A R. M. Anderson, senior petroleum engineer, Sinclair Oil and Gas Company, Division Office in Midland, Texas.

Q Does your office have direction and supervision of your operations in Lea County?

A Yes.

Q Have you made a study of the data pertinent to this application?

A I have.

Q Have you previously qualified to give testimony as a petroleum engineer before the Oil Conservation Commission?

A I have.

Q The records of the Commission will show, will they not, that on December 21, 1957, by its Order No. DC-541, administrative approval was given to the dual completion of the A. M. York "B" well as a Drinkard oil well and Tubb gas well, is that correct?

A That is correct. I believe the date of the order is December 31, 1957. I believe you said December 21st.

Q Our application states December 21st.

MR. UTZ: That's what the application says, yes.

A The date should be December 31st.

MR. UTZ: That's the actual date on the order?

A Yes.

Q Following that order, did you attempt to perforate the Tubb zone?

A Yes, we did.



Q Will you state what operation you conducted and whether you encountered oil or gas?

A Pursuant to that order, on February 3rd we perforated the Tubb zone in this well, in the interval 6204 to 6250 feet, and 6270 to 6300 feet.

MR. UTZ: Do you have a diagram of your dual completion?

A Yes, sir, I do. The following day, on February 4th, we sand and oil fracked the well with 20,000 gallons of oil and 20,000 pounds of sand. For the next 18 days we swabbed and flowed the Tubb zone through tubing and measured various amounts of oil per day, ranging from 312 barrels of oil per day to as high as 360 barrels of oil per day, with a gas-oil ratio estimated between 400 to 500 to 1.

Q The well had previously been completed as a Drinkard oil well prior to this time?

A Yes, sir, July 16, 1947, the well was originally drilled and completed as a Drinkard oil well.

Q Will you please narrate the remainder of your testimony and produce such exhibits as you have prepared or caused to be prepared, and explain them?

A Yes, I have prepared an area map which I would like to introduce as Exhibit No. 1. On that area map I have outlined the 80 acres that was established as a non-standard gas proration unit in the Tubb Gas Pool to be assigned this well, or A. M. York "B" No. 2 well, in the event that it was a gas well as it was anticipated.



Of course, that 80 acres occupies the East Half of the Northeast Quarter of Section 20, 21 South, 37 East; of course, now that the well is an oil well only, the north 40 acres of that acreage will be dedicated to the Tubb well.

I have circled in red the subject well. I have circled in yellow all of the Tubb Gas Pool wells that are immediately offsetting our lease. I have indicated the western limit of the Tubb Gas Pool, a portion of that limit, to show that the lease is inside of the horizontal limits of the Tubb Gas Pool.

I have also prepared a diagramatic sketch of the proposed dual completion installation which I would like to enter as Exhibit 2. This sketch, the Drinkard Oil is colored in green on this sketch and the Tubb Oil is colored in red. The sketch indicates the surface casing where it is set, the intermediate casing where it is set; indicates the top of the cement behind the 7-inch oil string, as determined by the temperature survey that occurred at 3,172 feet. It indicates that we propose to install a parallel tubing string. The long string to produce the Drinkard zone will be standard 2-inch EUE tubing, the short string will be 2-inch Hydril CS tubing. We have installed in the well at the present time a Baker Model "D" production packer at 6500 feet. Both the Tubb and Drinkard perforations are indicated on this sketch, as is the fact that the 7-inch casing is set on bottom. There is no open hole. I might state that this 2-inch EUE tubing, that is nominal, that is 2-3/8 inch OD tubing, and the 2-inch Hydril is



nominal size. That is approximately the ID of the Hydril, both strings have the same ID, which is slightly under 2-inch, it's standard.

MR. UTZ: Isn't the 2-inch Hydril commonly called the 2-1/16 inch Hydril?

A No, that is inch and a half Hydril, nominal size. The Hydril we propose to use has an ID the same as 2-inch EUE tubing and that ID exactly is 1.995 inch.

MR. UTZ: Okay.

A I have marked a full-scale gamma ray-neutron log to illustrate the same thing that is shown on this diagramatic sketch. I would like to introduce that as Exhibit 3. On that log I have marked the top, I have marked the Tubb marker as defined by the Commission in their appropriate order, and I have indicated the vertical limits of the Tubb Gas Pool extending up from a point 100 feet above to a point 225 feet below that marker. I have indicated the perforated interval in the Tubb zone in red, showing that it falls within the vertical limits of the Tubb Gas Pool.

I have indicated the location of the Baker Model "D" packer at 6500 feet, and I have indicated in red the Drinkard perforations below the packer. I have summarized some of the pertinent data on this well on a statistical data sheet which I would like to introduce as Exhibit 4.

I have shown the original completion date and the producing interval in the Drinkard zone, and I might state that a recent



test on the Drinkard zone February 1st, 1958, the zone flowed after stimulation at a rate of 326 barrels of oil per day. The gas-oil ratio of 1840 cubic feet, 1860 cubic feet per barrel. The gravity of the oil was measured at 37 gravity. I have shown here the dual completion order number and the date of the dual completion I have shown as the date that we completed testing the Tubb zone and moved off the well. The dual completion has not actually been completed yet, in that we have the long string, the 2-inch EUE set in the packer and the Tubb zone is confined in the annulus and is shut in, and the Drinkard is being produced currently through the long string from below the packer. That is the present status of the well on completion.

On approval of this application, we intend to move back in and run the second string of Hydril, 2-inch Hydril tubing and complete the well in that manner.

I have shown the overall producing interval in the Tubb zone, and I have previously indicated the productivity of the Tubb during the testing period, around 312 to 360 barrels per day, it produced at those rates. The gravity varied from about 39.4 to 41.3 gravity in the Tubb zone during this testing. The gas-oil ratio, as I say, was not measured, but it was very low and it was estimated by field personnel to be between four and five hundred cubic feet per barrel.

I have put detailed casing records showing the 7-inch and the weights of the various 7-inch casing that is in the well, and



once again the setting depth of the Model "D" packer and the proposed tubing, where we propose to hang it; the well location as being summarized there.

I don't believe I have anything further.

Q In your opinion would this method of completion insure adequate separation of the two zones?

A Yes, I believe that our proposed installation would insure separation of the two zones?

Q What is your opinion as to whether or not it would be economically feasible to produce the Tubb except by the dual completion?

A I believe that it would be an economic waste to have to drill a twin well; as a matter of fact, I do not believe that my company would consider drilling a twin well to develop the Tubb zone under this 40-acre tract. Our geology and our examination of the area indicated to us that this 40-acre tract would be productive of gas, and we fully expected to get a gas well, and we were surprised to get this oil well. We have not been able to evaluate the reserves that might be under the oil well. We are sure that they could be considerable, and then the other well, the well could go to a high gas-oil ratio with very short production life.

Q Are there no other Tubb wells in the immediate area?

A No, sir.

Q Do you believe, then, that the granting of this application



will be in the interest of waste prevention?

A Yes, I believe it will prevent waste.

Q Will correlative rights be adversely affected?

A I don't believe that any correlative rights will be impaired by the granting of this application.

MR. BURTON: The Applicant offers the Exhibits 1 to 4 in evidence.

MR. UTZ: Without objection they will be received.

MR. BURTON: That's all.

MR. UTZ: Do you have a question, Mr. Nutter?

MR. NUTTER: Yes.

CROSS EXAMINATION

By MR. NUTTER:

Q Mr. Anderson, how long was the well produced from the Tubb formation?

A We produced it every day for about 18 days, starting on February 4th through February 22nd. Then we shut the well in for about 11 days and about March 5th, I believe, we produced the well for about the next 6 days running a packer leakage test.

Q Did you take GOR's periodically while you were producing the well?

A We did not take GOR's on the Tubb zone.

Q You don't know whether the GOR has changed materially as a result of production of the well?

A No, sir, except I know that the GOR for the last production



that came out of the well was still very low and was estimated in the vicinity of four to five hundred cubic feet per barrel.

Q How about the gravity? Did you measure the gravity of the oil periodically?

A It was measured periodically and it varied between 39.4 to 41.3 during the last days --

Q (Interrupting) Was that variation upward?

A My impression that a trend is not established by the variation. The two particular tests that I referred to, the gravity was not determined every day that the well was produced, but on the 6th at 41.3 gravity oil was produced, 60 barrels in four hours, and on the 7th it was 39.4 gravity, 75 barrels of oil in five hours; so they were consecutive days, the last two days, and they are the last two gravities that were measured.

Q The reason I was asking if a trend in the gravity had been established, Mr. Anderson, is that Commission Order R-586-B prescribed the manner in which a well will be determined to be a gas well or oil well in the Tubb Pool. The only criterion, if a well produces fluids with a gravity of 45 degrees API or less, it is classified as an oil well. Do you think that there is any indication that this well upon production will change into a gas well again? Has there been any indication to date, I should put it that way.

A No. We have tested it for quite a few days hoping that it would definitely firm up as to whether it was going to be oil



or gas. We are satisfied in our minds it is going to be an oil well for a while. It is fairly stabilized as an oil well at this time. I believe it is possible, and we anticipate that the gas-oil ratio may go up in the future, but not the immediate future. I don't anticipate an early change in this well's classification.

Q Now, DC Order 541 authorized the completion as a gas-oil dual, correct?

A Yes.

Q Did that authorize the dual completion for the production of the gas through the casing annulus?

A Through the casing annulus.

Q In the event the well changes and becomes a gas well, would you leave this string of tubing in here and produce it through the tubing, or would it be produced through the annulus?

A I would imagine that we would leave it in there until such a time as we had occasion to go in and work over the well. We would salvage surplus equipment then, if this original dual completion order were not cancelled, if the DC-541 were not cancelled, if it were still effective.

Q It is restrictive?

A Yes.

Q It authorizes the production of gas through the annulus?

A Yes.

Q I was wondering, if the possibility is that this well would become a gas well, perhaps this order that should enter from this



case today should be for oil or gas?

A I think that probably would be a good idea to have the order written in that manner. Of course, there will be both oil and gas produced through the Hydril string, even as an oil well.

MR. NUTTER: Off the record.

(Discussion off the record.)

MR. BURTON: Let the record show that Applicant amends the application for the oil-oil dual or oil-gas dual to permit the production of gas, if the well turns into a gas well.

MR. UTZ: From the Tubb zone?

MR. BURTON: Yes.

A Can we go off the record again a minute?

MR. UTZ: All right. Off the record.

(Discussion off the record.)

MR. UTZ: Let's go back on the record.

MR. BURTON: Mr. Examiner, I would like to ask if the record clearly shows what we desire in this order? If I understand it, we would like Order DC-541 to remain in effect so that the well could be produced from the Tubb through the annulus as a gas well, if it should go to gas; and that the order we are now requesting would permit the well to be produced either as an oil or gas well through the string of tubing. Is that what we want, Mr. Anderson?

A That's my understanding.

MR. UTZ: Without objection to counsel's amendment of the



application, it will be so amended. Is that all, Mr. Nutter?

MR. NUTTER: I have a few more questions.

Q (By Mr. Nutter) Will you briefly summarize the pressures on these two zones?

A The pressure history is rather limited in the Tubb zone, in that it's just been opened up. However, the bottom-hole pressure was measured in the Drinkard zone the first part of March at 1,090 pounds after 48-hour shut-in. At that time the surface pressure on the Drinkard zone, which was in the tubing, was 910 pounds.

Q Is that shut-in tubing pressure?

A That is the shut-in tubing pressure. The shut-in casing pressure, which reflects the Tubb zone at the same time, was 872 pounds; we had the tube in the annulus.

Q Do you have a bottom-hole pressure for the Tubb?

A No, sir.

Q Now, the comparative gravities of the fluids produced from the two zones?

A Upon completion of the stimulation of the Drinkard zone in January, we tested the Drinkard at a gravity of 37 gravity.

Q The Tubb gravity was in the range of --

A (Interrupting) 39.4 to 41.3, it's in that range.

Q How about the GOR's on the two zones?

A The Drinkard zone was measured at 1860 cubic feet per barrel; the Tubb zone was not measured, but was estimated at between four and five hundred cubic feet per barrel.



MR. NUTTER: Thank you.

MR. UTZ: Are there any other questions of the witness?  
Did you offer your exhibits?

MR. BURTON: Yes, I did.

MR. UTZ: That's right, they were accepted. The witness  
may be excused.

(Witness excused.)

MR. UTZ: Any statements to be made in this case? If there  
are none, the case will be taken under advisement, and the hearing  
is adjourned.

(Hearing adjourned.)

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C E R T I F I C A T E

STATE OF NEW MEXICO     )  
                                  ) ss  
COUNTY OF BERNALILLO    )

I, ADA DEARNLEY, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in stenotype and reduced to typewritten transcript under my personal supervision, and that the same is a true and correct record to the best of my knowledge, skill and ability.

WITNESS my Hand and Seal this 24 day of May, 1958,  
in the City of Albuquerque, County of Bernalillo, State of New Mexico.

  
NOTARY PUBLIC

My commission expires:

June 19, 1959.

I do hereby certify that the foregoing is  
a true and correct record of the proceedings in  
the hearing and trial of Case No. 1947,  
before the New Mexico Oil Conservation Commission,  
May 2, 1958.  
\_\_\_\_\_  
Ada Dearnley, Notary Public, Bernalillo, New Mexico



**OIL CONSERVATION COMMISSION**  
P. O. BOX 871  
SANTA FE, NEW MEXICO

April 29, 1958

Mr. Horace Burton  
Sinclair Oil & Gas Company  
P.O. Box 1470  
Midland, Texas

Dear Mr. Burton.

We enclose a copy of Order R-1168 issued April 28, 1958,  
by the Oil Conservation Commission in Case 1417, which was  
heard on April 9th before an examiner at Santa Fe.

Very truly yours,

A. L. Porter, Jr.  
Secretary - Director

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Encl.

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**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. 1417  
Order No. R-1166

**APPLICATION OF SINCLAIR OIL & GAS  
COMPANY FOR AN OIL-OIL DUAL COMPLETION  
IN THE TUBB GAS POOL AND THE DRINKARD  
POOL IN LEA COUNTY, NEW MEXICO.**

**ORDER OF THE COMMISSION**

**BY THE COMMISSION:**

This cause came on for hearing at 9 o'clock a.m. on April 9, 1958, at Santa Fe, New Mexico, before Elvin A. Utz, Examiner duly appointed by the New Mexico Oil Conservation Commission, herein after referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 28<sup>th</sup> day of April, 1958, the Commission a quorum being present, having considered the application, the evidence adduced and the recommendations of the Examiner, Elvin A. Utz, 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 the applicant, Sinclair Oil and Gas Company, is the operator of the A. M. York "B" Well No. 2, located in the NE/4 NE/4 of Section 20, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant, by Administrative Order DC-541, dated December 31, 1957, received authority to dually complete the subject well to produce gas from the Tubb Gas Pool and oil from the Drinkard Pool through the casing-tubing annulus and the tubing respectively; upon completion oil was encountered in the Tubb formation rather than gas.

(4) That the applicant proposes to dually complete the said A. M. York "B" Well No. 2 in such a manner as to permit the production of oil from the Tubb Gas Pool and to permit the production of oil from the Drinkard Pool through parallel strings of 2 1/16-inch and 2 3/8-inch tubing respectively.

(5) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(6) That approval of the subject application will not cause waste nor impair correlative rights.

(7) That the subject application should be approved.



**IT IS THEREFORE ORDERED:**

1. That the applicant, Sinclair Oil and Gas Company, be and the same is hereby authorized to dually complete its A. M. York "B" Well No. 2, located in the NE/4 NE/4 of Section 20, Township 21 South, Range 37 East, MNPM, Lea County, New Mexico, in such a manner as to permit the production of oil from the Tubb Gas Pool and to permit the production of oil from the Drinkard Pool through parallel strings of 2 1/16-inch and 2 3/8-inch tubing respectively.

2. That in the event the completion in the Tubb Gas Pool becomes a gas well, the applicant be and the same is hereby authorized to produce such gas through the 2 1/16-inch tubing.

**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,

**PROVIDED HOWEVER,** That prior to the actual dual completion the operator shall make pressure tests of the casing to prove that no casing leaks exist. In the event a casing leak is apparent the operator shall take appropriate steps to adequately repair the leak. The results of these tests shall be reported to the Commission on Form C-103.

**PROVIDED FURTHER,** That upon the actual dual completion of such subject well applicant shall submit to the appropriate District Office of the Commission copies of Oil Conservation Commission Form C-103, Form C-104, Form C-110, and Form C-122, outlining the information required on those forms by existing Rules and Regulations, and two copies of the electric log of the well.

**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 or gas-liquid ratio thereof determined, and

**PROVIDED FURTHER,** That the operator shall make any and all tests, including segregation and packer-leakage tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Drinkard Pool, commencing in the year 1959, and whenever the packer is disturbed, but not excluding any other tests and/or determinations as deemed necessary by the Commission; the original and all subsequent tests shall be witnessed 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, shall be filed with the Commission within fifteen (15) days after the completion of such tests, and further, that applicant shall file with the Commission in duplicate a packer-setting affidavit, which affidavit shall be due within fifteen (15) days of the dual completion or whenever the packer is disturbed, and



-3-

Case No. 1417  
Order No. B-1168

**PROVED 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 well between the strata, and a special report of production, gas-oil ratio or gas-liquid ratio, and reservoir pressure determination for 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

*E. L. McQueen*

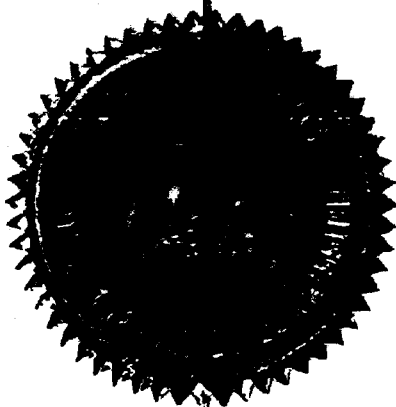
EDWIN L. McQUEEN, Chairman

*Murray E. Morgan*

MURRAY E. MORGAN, Member

*A. L. Porter, Jr.*

A. L. PORTER, Jr., Member & Secretary



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OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

Date 4-11-58

CASE 1417 Hearing Date 4-9-58

My recommendations for an order in the above numbered cases are as follows:

1. ~~approve~~ as requested using ~~the~~ <sup>the</sup> ~~string~~ oil-oil dual order.
2. Upper Completion is ~~Subst.~~ <sup>Subst.</sup> Pool
3. Lower " " ~~Drilled~~ Oil Pool.

*[Signature]*  
Examiner

\_\_\_\_\_  
Staff Member



- CASE 1408: Application of Delhi-Taylor Oil Corporation for a non-standard gas proration unit. Applicant, in the above-styled cause, seeks an order establishing a 170.58-acre non-standard gas proration unit in the Aztec-Pictured Cliffs Gas Pool consisting of the SW/4 of Section 30 and the N/2 NW/4 of Section 31, all in Township 29 North, Range 8 West, San Juan County, New Mexico, said unit to be dedicated to the applicant's Jones Well No. 3, located 1750 feet from the South line and 1090 feet from the West line of said Section 30.
- CASE 1409: Application of Gulf Oil Corporation for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Lea State "CL" Well No. 1, located 2651 feet from the North line and 1650 feet from the East line of Section 2, Township 16 South, Range 32 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Wolfcamp formation adjacent to the Anderson Ranch-Wolfcamp Pool and oil from the Anderson Ranch-Devonian Pool through parallel strings of tubing.
- CASE 1410: Application of Gulf Oil Corporation for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Lea State "R" Well No. 1, located 990 feet from the North line and 660 feet from the East line of Section 2, Township 16 South, Range 32 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Wolfcamp formation adjacent to the Anderson Ranch-Wolfcamp Pool and oil from the Anderson Ranch-Devonian Pool through parallel strings of tubing.
- CASE 1411: Application of Gulf Oil Corporation for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its J. F. Janda "F" Well No. 3, located 1980 feet from the North and West lines of Section 4, Township 22 South, Range 36 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Jalmat Gas Pool and oil from the South Eunice (Oil) Pool through parallel strings of tubing.
- CASE 1412: Application of John M. Kelly for a non-standard gas proration unit. Applicant, in the above-styled cause, seeks an order establishing a 240-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the E/2 SW/4, W/2 SE/4, and W/2 NE/4 of Section 16, Township 19 South, Range 37 East, Lea County, New Mexico, said unit to be dedicated to the applicant's Humble State No. 1 Well located 1980 feet from the South and West lines of said Section 16.
- CASE 1413: Application of Austral Oil Exploration Company for an exception to Rule 309 of the Commission Rules and Regulations. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from all wells completed in the Townsend-Wolfcamp Pool, Lea County, New Mexico, on the following described leases:



DOCKET: EXAMINER HEARING APRIL 9, 1958

OIL CONSERVATION COMMISSION 9 a.m., MABRY HALL, STATE CAPITOL, SANTA FE, NM

The following cases will be heard before Elvis A. Utz, Examiner:

- - -

- CASE 1356: Application of Cities Service Oil Company for an order amending Order No. R-1128. Applicant, in the above-styled cause, seeks an order amending Order No. R-1128 to authorize the transfer of allowable from water injection wells to other wells on the same basic lease, to establish a lease allowable for the applicant's Government "B" Lease, and to authorize administrative approval for additions to, or deletions from the pilot area and/or injection wells.
- CASE 1404: Application of Continental Oil Company for permission to produce more than eight oil wells into a common tank battery. Applicant, in the above-styled cause, seeks an order authorizing the production of a maximum of eleven oil wells in the Jalmat Gas Pool into a common tank battery. Said wells are located on the applicant's Eaves A-19 lease comprising the S/2, S/2 NW/4, and NW/4 NW/4 of Section 19, Township 26 South, Range 37 East, Lea County, New Mexico.
- CASE 1405: Application of Continental Oil Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its A. M. Lockhart E-14 "A" No. 1-D Well, located 1980 feet from the North line and 660 feet from the East line of Section 14, Township 21 South, Range 37 East, Lea County, New Mexico, in such a manner as to produce oil from the Terry Blinebry Oil Pool and oil from the Drinkard Oil Pool through parallel strings of tubing.
- CASE 1406: Application of Continental Oil Company for a non-standard gas proration unit. Applicant, in the above-styled cause, seeks an order establishing a 200-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the S/2 S/2 and the NW/4 SW/4 of Section 13, Township 20 South, Range 37 East, Lea County, New Mexico, said unit to be dedicated to the applicant's SEMU Permian Well No. 41 located 660 feet from the South and East lines of said Section 13.
- CASE 1407: Application of Delhi-Taylor Oil Corporation for a non-standard gas proration unit. Applicant, in the above-styled cause, seeks an order establishing a 169.42-acre non-standard gas proration unit in the Aztec-Pictured Cliffs Gas Pool consisting of the SW/4 and S/2 NW/4 of Section 31, Township 29 North, Range 8 West, San Juan County, New Mexico, said unit to be dedicated to the applicant's Prichard Well No. 4-C, located 1450 feet from the South line and 790 feet from the West line of said Section 31.



-4-

Docket No. 10-58

Examiner Hearing April 9, 1958

**CASE 1418**

Continued: all in Township 25 North, Range 12 West, San Juan County, New Mexico. Applicant further seeks authority to commingle the production from each of said leases after separately measuring said production by means of positive displacement meters.

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Examiner Hearing April 9, 1958

CASE 1413  
Continued:

W. M. Snyder "B" Lease - Township 16 South, Range 36 East  
Section 6: Lots 9, 10, 15, & 16  
and SE/4

W. M. Snyder "C" Lease - Township 16 South, Range 36 East  
Section 5: Lot 5  
Section 6: Lots 1, 7, & 8

CASE 1414:

Application of The Texas Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its C. H. Weir "B" Well No. 1, located in the SE/4 NE/4 of Section 11, Township 20 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Skaggs-Drinkard Pool and oil from an undesignated Glorieta oil pool through parallel strings of tubing.

CASE 1415:

Application of Phillips Petroleum Company for authority to effect an oil-oil dual completion and to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Santa Fe Well No. 18, located in the NW/4 NE/4 of Section 34, Township 17 South, Range 35 East, Lea County, New Mexico, in such a manner as to produce oil from the Yates Vacuum (San Andres) Pool through parallel strings of tubing. Applicant further seeks authority to commingle the oil produced from the separate reservoirs in common storage after measuring the Yates oil through dump-type meters.

CASE 1416:

Application of Aztec Oil and Gas Company for a non-standard location. Applicant, in the above-styled cause, seeks an order authorizing a non-standard gas well location for its Culpepper-Martin Well No. 9, to be located 1850 feet from the North line and 1950 feet from the West line of Section 30, Township 32 North, Range 12 West, Blanco Mesaverde Pool, San Juan County, New Mexico.

CASE 1417:

Application of Sinclair Oil and Gas Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its A. M. York "B" Well No. 2, located in the NE/4 NE/4 Section 20, Township 21 South, Range 37 East, Lea County, New Mexico, to produce oil from the Tubb Gas Pool and from the Drinkard Oil Pool through parallel strings of tubing.

CASE 1418:

Application of Shell Oil Company for an exception to Rule 309 of the Commission Rules and Regulations. Applicant, in the above-styled cause, seeks an order authorizing the transportation, prior to measurement, of oil produced on its E. W. Mudge No. 4 Lease, comprising All of Sections 21, 28, 33, and 34, to its L. M. Phillips No. 2 Lease, comprising the S/2, NE/4, and Lots 1 and 2 of Section 4, N/2 Section 9, SW/4 and E/2 Section 10, All Section 15, N/2 and SE/4 Section 22, and W/2 Section 27,



Case 1417

# SINCLAIR OIL & GAS COMPANY

PETROLEUM LIFE BUILDING

MIDLAND, TEXAS

March 17, 1958

LEGAL DEPARTMENT

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Re: Application of Sinclair Oil & Gas Company for an order permitting and authorizing the oil-oil dual completion of its A. M. York "B" Well #2 for the production of oil from the Drinkard Oil Pool and from the Tubb Gas Pool (Oil), in Lea County, New Mexico.

Gentlemen:

Enclosed in triplicate is Sinclair Oil & Gas Company's application for an order authorizing and permitting an oil-oil dual completion of its A. M. York "B" Well No. 2 for the production of oil from the Drinkard Oil Pool and Tubb Gas Pool (Oil), Lea County, New Mexico.

Yours very truly,

*Layton A. Webb*  
Layton A. Webb  
Division Attorney

LAW/ld  
Encls.



BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION  
OF SINCLAIR OIL & GAS COMPANY FOR  
AN ORDER PERMITTING AND AUTHORIZING  
THE OIL-OIL DUAL COMPLETION OF ITS  
A. M. YORK "B" WELL NO. 2 FOR THE  
PRODUCTION OF OIL FROM THE DRINKARD  
OIL POOL AND FROM THE TUBB GAS  
POOL (OIL) IN LEA COUNTY,  
NEW MEXICO

CASE NO. 1412

ORDER NO. \_\_\_\_\_

A P P L I C A T I O N

Sinclair Oil & Gas Company, a Maine corporation with an operating office in Midland, Texas, hereby requests that it be permitted and authorized to dually complete its A. M. York "B" Well No. 2 for the production of oil from both the Drinkard Oil Pool and the Tubb Gas Pool (oil), Lea County, New Mexico, and in support thereof shows:

1.

That Sinclair Oil & Gas Company is the operator of its A. M. York "B" well No. 2 located in the center of the NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> of Section 20, T-21-S, R-37-E, N. M. P. M., Lea County, New Mexico. Said well was drilled to a total depth of 6637 feet and completed as an oil well in the Drinkard Oil Pool on July 16, 1957; 7" casing was set at total depth in said well and cemented with 500 sacks of cement and perforated in the Drinkard Oil zone from 6569 to 6608 feet, and top of the cement behind the production string was found at 3172 feet.

2.

That on December 19, 1957, Sinclair Oil & Gas Company filed its application to this Commission to dually complete said A. M. York "B" Well No. 2 for the production of oil from the Drinkard Oil Pool and gas from the Tubb Gas Pool. Pursuant to such application this Commission issued Order No. DC-541, dated December <sup>31</sup>~~21~~, 1957, authorizing and permitting Sinclair Oil & Gas Company to dually complete said A. M. York "B" Well



No. 2 for the production of oil from the Drinkard Oil Pool and gas from the Tubb Gas Pool.

3.

That in accordance with Order No. DC-541, Sinclair Oil & Gas Company commenced operations for the dual completion authorized therein and perforated the Tubb Gas Pool from 6204 to 6250 feet and from 6270 to 6300 feet, which zones were found to be oil bearing and not gas bearing as had been anticipated.

4.

That Sinclair Oil & Gas Company now proposes to dually complete said A. M. York "B" Well No. 2 for the production of oil from the Drinkard Oil Pool and the Tubb Gas Pool (Oil) in the following manner:

- (a) Set a Model "D" Production Packer below the Tubb perforations at approximately 6525 feet to separate the two pay zones;
- (b) Produce the oil from the Drinkard Oil Pool and Tubb Gas Pool (Oil) through parallel strings of 2" tubing;
- (c) Comply with all rules and regulations of the Commission applicable to dual completions and the separation of pay zones.

5.

That the following is a list of the names and addresses of all of the offset operators insofar as is known by this applicant:

Amerada Petroleum Corporation  
P. O. Box 312  
Midland, Texas

E. G. Rodman  
P. O. Box 591  
Odessa, Texas

Continental Oil Company  
P. O. Box 431  
Midland, Texas

N. B. Hunt  
Andrews Highway  
Odessa, Texas

The Ohio Oil Company  
P. O. Box 552  
Midland, Texas

Tidewater Oil Company  
P. O. Box 1231  
Midland, Texas

Sunray Mid-Continent Oil Company  
201 Midland National Bank Building  
Midland, Texas

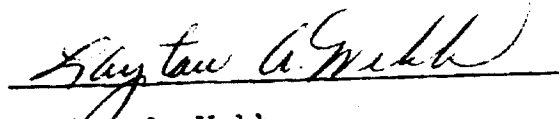
6.

That Sinclair Oil & Gas Company believes and therefore



alleges that the manner and method of this proposed oil-oil dual completion is mechanically feasible and practicable and that the same will not result in underground waste and will prevent economic waste.

WHEREFORE, Sinclair Oil & Gas Company requests that this application be set for hearing before an Examiner either in Hobbs or Santa Fe, New Mexico, at your earliest convenience, and that upon such hearing Sinclair Oil & Gas Company be authorized and permitted to dually complete its A. M. York "B" Well No. 2 for the production of oil from both the Drinkard Oil Pool and the Tubb Gas Pool (Oil) in the manner set forth above.

  
Layton A. Webb  
P. O. Box 1470  
Midland, Texas

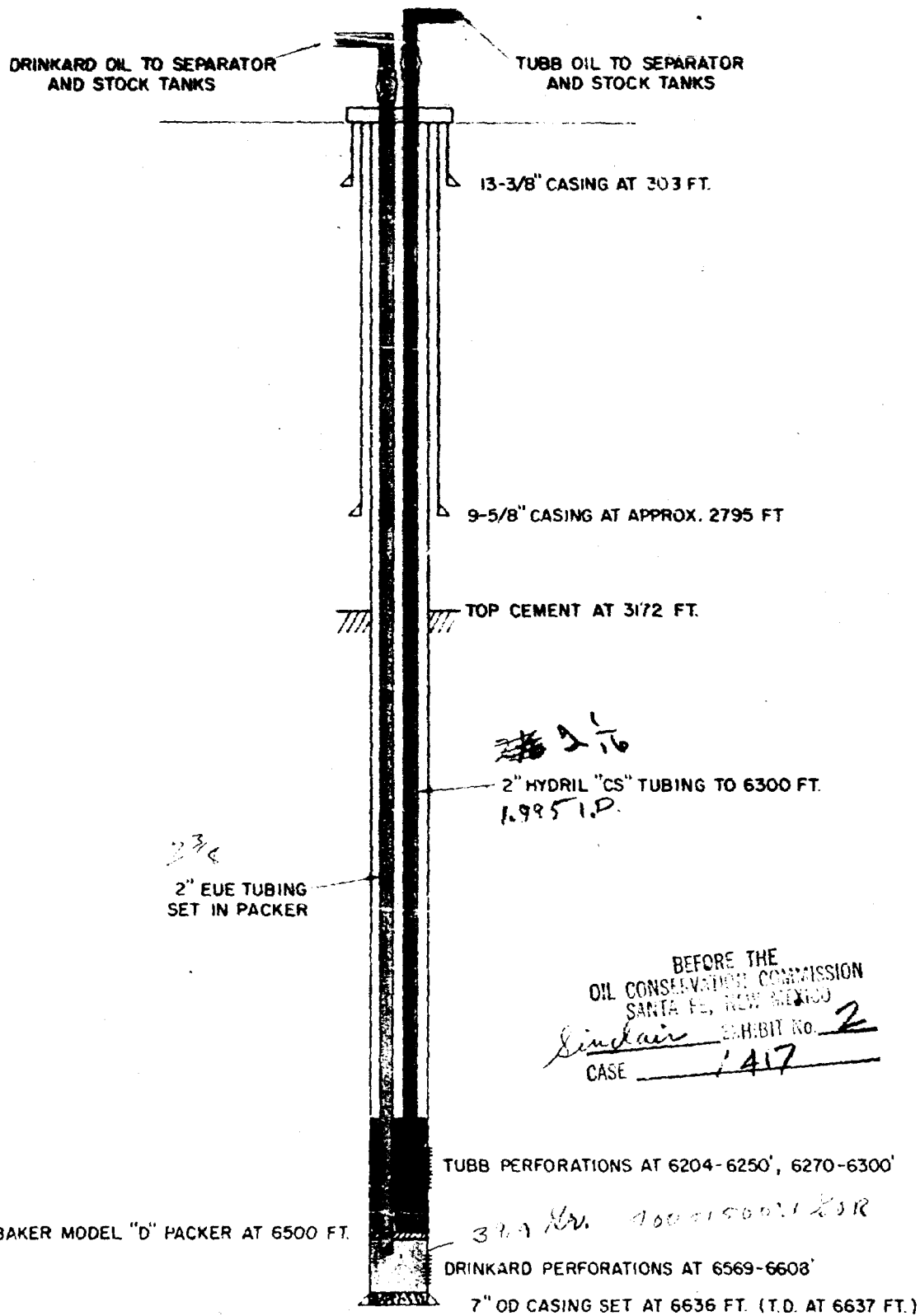
ATTORNEY FOR APPLICANT  
SINCLAIR OIL & GAS COMPANY







SINCLAIR OIL & GAS COMPANY  
PROPOSED FLOWING DUAL COMPLETION  
DRINKARD OIL AND TUBB OIL  
LEA COUNTY, NEW MEXICO  
A.M. YORK "B" — NO. 2





SINCLAIR OIL & GAS COMPANY  
Oil-Oil Dual Hearing  
April 9, 1958

A. M. York "B" Well No. 2

STATISTICAL DATA

Date Original Completion

July 16, 1947

Lower Zone

Producing Interval

Drinkard  
6569'-6608'

*Dr.*  
*res. re*  
*3-5-5*  
*107 D - 48 in*  
*Surf. 910 ft*  
*1960:1*  
*37.0 k.*

Date Dual Completion  
Order No.

March 11, 1958  
DC-541

Upper Zone

Producing Interval

Tubb  
6204'-6300'

*Surf. 592 39.4 - 41.3*  
*460-500:1 41R*

Casing Record

Surface  
Intermediate  
Production

13-3/8 18# set @ 303 Feet  
9-5/8 40# set @ 2795 Feet  
7" 26# 26 Feet (Top)  
7" 23# 5667 Feet (Middle)  
7" 26# 945 Feet (Bottom)

Total 7" 6636 Feet

Packer Type & Depth

Baker Model "D" set  
at 6500 Feet

Tubing (Proposed)  
Drinkard

2" EUE set in Packer  
with 66 Foot Extension  
below Packer

Tubb

2" Hydril "CS" Type 14 5  
set at 6300 Feet

Well Location

660 Feet from North  
and East Lines of  
Section 20-21S-37E,  
Dea County, New Mexico

BEFORE THE  
OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO  
EXHIBIT No. 4  
CASE 1917