

CASE 3490: Application of SUNRAY
DX OIL COMPANY for pool redelinea-
tion, Roosevelt County, N. M.

CASE No.

3490

Application,

TRANSCRIPTS,

SMALL Exhibits

ETC.

GOVERNOR
JACK M. CAMPBELL
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

P. O. BOX 2088
SANTA FE

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

November 17, 1966

Mr. Booker Kelly
White, Gilbert, Koch & Kelly
Attorneys at Law
Post Office Box 787
Santa Fe, New Mexico

Re: Case No. 3490
Order No. R-3153
Applicant:

Sunray DX Oil Company

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. Porter, Jr.
A. L. PORTER, Jr.
Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs OCC x

Artesia OCC

Aztec OCC

OTHER Mr. Roger Copple and Franklin, Aston & Fair

CLASS OF SERVICE
This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION

TELEGRAM (10) 1201 (4-00)

W. P. MARSHALL, President

SYMBOLS
DL = Day Letter
NL = Night Letter
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MAIN OFFICE D.

A L PORTER JR=

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NMEX OIL CONSERVATION COMM SANTA FE NMEX=

ATLANTIC RICHFIELD COMPANY SUPPORTS THE APPLICATION OF
SUNRAY OIL COMPANY IN CASE 3490.

THIS CASE IS SCHEDULED FOR HEARING WEDNESDAY
NOVEMBER 2 1966. WE OPERATE THE STATE BA NUMBER ONE.
A GAS WELL PRODUCING FROM THE PROPOSED TODD UPPER SAN
ANDRES GAS POOL. WE BELIEVE THAT APPROVAL OF THIS
APPLICATION WILL PREVENT ECONOMIC WASTE AND PROTECT
CORRELATIVE RIGHTS=

W P TOMLINSON DISTRICT ENGINEER=

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS CONCERNING ITS SERVICE

WHITE, GILBERT, KOCH & KELLY

(GILBERT, WHITE AND GILBERT)

ATTORNEYS AND COUNSELORS AT LAW

LINCOLN BUILDING

SANTA FE, NEW MEXICO

CARL H. GILBERT (1891-1963)

L. C. WHITE

WILLIAM W. GILBERT

SUMNER S. KOCH

WILLIAM BOOKER KELLY

JOHN F. MCCARTHY, JR.

October 24, 1966

POST OFFICE BOX 787

TELEPHONE 982-4301

(AREA CODE 505)

Mr. A. L. Porter
Secretary-Director
New Mexico Oil and Gas Commission
P.O. Box 2088
Santa Fe, New Mexico

Dear Mr. Porter:

Enclosed are original and two copies of Sunray DX
Oil Company's application for redlineation of the Todd San Andres
Pool, Roosevelt County, New Mexico, Case No. 3490.)

Very truly yours,

W. B. Kelly
W. B. KELLY

WBK:nb

Docket No. 27-66

DOCKET: EXAMINER HEARING - WEDNESDAY - NOVEMBER 2, 1966

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

- - - -

The following cases will be heard before Elvis A. Utz, Examiner, or
Daniel S. Nutter, Alternate Examiner:

CASE 3479: Application of Gulf Oil Corporation for an exception to Rule 8 of Order No. R-1638 and to Rule 301, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 8 of Order No. R-1638 and to Rule 301 of the Commission rules and regulations to permit discontinuance of individual gas-oil ratio tests in its West Bisti-Lower Gallup Sand Unit, Bisti-Lower Gallup Pool, San Juan County, New Mexico. Applicant proposes to report gas production and ratios on a unit-wide basis rather than individual well GOR data.

CASE 3480: Application of Tidewater Oil Company for a capacity allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-3097 which permitted its GO State "J" Well No. 1 located in Unit H of Section 7, Township 17 South, Range 33 East, Lea County, New Mexico, which directly offsets the Malmar Unit Waterflood Project, to be produced at capacity for a period not to exceed 90 days from date of said order. Applicant seeks additional time in which to produce said well at capacity and the establishment of an administrative procedure for further extensions.

CASE 3336 (Reopened)

In the matter of Case No. 3336 being reopened pursuant to the provisions of Order No. R-3005, which order established 80-acre spacing units for the East Hightower-Upper Pennsylvanian Pool, Lea County, New Mexico, for a period of one year. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing units.

CASE 3481: Application of Sinclair Oil & Gas Company for a non-standard gas proration unit and an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the NW/4 of Section 7, Township 22 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to be dedicated to its State 157 "B" Well No. 1 located at an unorthodox location for said pool 330 feet from the North line and 2310 feet from the West line of said Section 7.

- CASE 3482: Application of Sinclair Oil & Gas Company for a special gas well test, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to produce and flare up to three million cubic feet of gas per day, for a maximum of 30 days, from its Hackberry Hills Unit Well No. 4 located in Unit F of Section 22, Township 22 South, Range 26 East, Eddy County, New Mexico, as a reservoir limit test to determine the economic feasibility of a pipeline connection to said well.
- CASE 3483: Application of H. S. Moss for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Wolfcamp formation in the interval from 9751 to 9850 feet in its D. P. Peck Well No. 1 located in Unit C of Section 26, Township 12 South, Range 37 East, Gladiola Field, Lea County, New Mexico.
- CASE 3484: Application of Phillips Petroleum Company for a pilot waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pilot waterflood project by the injection of water into the Grayburg-San Andres formation through its Santa Fe Well No. 14 located in Unit P of Section 20, Township 17 South, Range 35 East, Vacuum Field, Lea County, New Mexico.
- CASE 3485: Application of Phillips Petroleum Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Grayburg-San Andres formation through three injection wells located in Sections 8, and 9, Township 17 South, Range 33 East, Vacuum Field, Lea County, New Mexico.
- CASE 3486: Application of Shenandoah Oil Corporation for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Grayburg-San Andres formation through four injection wells located in Sections 7, 8 and 16, Township 17 South, Range 33 East, Vacuum Field, Lea County, New Mexico.
- CASE 3487: Application of Amerada Petroleum Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of its State "SN" Unit Area comprising 692 acres, more or less, of State land in Sections 3 and 4, Township 15 South, Range 33 East, Lea County, New Mexico.

-3-

Docket No. 27-66

November 2, 1966 Examiner Hearing

CASE 3488: Application of Amerada Petroleum Corporation for a waterflood expansion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Saunders SB Waterflood Project by the injection of water into the Permo-Pennsylvanian zone through its Texaco-State "AQ" Well No. 2 located in Unit E of Section 3, Township 15 South, Range 33 East, Saunders Permo-Pennsylvanian Pool, Lea County, New Mexico.

CASE 3489: Application of William A. and Edward R. Hudson for a waterflood expansion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand their Puckett A Waterflood Project by the injection of water into the Grayburg-San Andres formation through their Puckett A Well No. 30 to be drilled at an unorthodox location 1345 feet from the North line and 25 feet from the West line of Section 24, Township 17 South, Range 31 East, Maljamar Pool, Eddy County, New Mexico.

CASE 3490: Application of Sunray DX Oil Company for pool redelineation, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks the redelineation of the Todd-San Andres Pool, Roosevelt County, New Mexico, into two separate pools: The Todd Upper-San Andres Gas Pool comprising that portion of the San Andres formation above the anhydrite bed found at 4200 feet in the Franklin, Aston and Fair Mark Federal Well No. 1 located in Unit M of Section 26, Township 7 South, Range 35 East, and the Todd Lower-San Andres Pool comprising that portion of the San Andres formation below said anhydrite bed, said Todd Lower-San Andres Pool to be governed by the existing rules for the present Todd-San Andres Pool. Also to be considered at said hearing will be such matters as the effective date of the aforesaid redelineation, the period of time in which to effect dual completion of the affected wells, the distribution of the affected wells' accumulated status in the present pool (overproduction and underproduction) to each of the new pools, and such other pertinent matters as may relate to the aforesaid pool redelineation. Also to be considered will be special pool rules for the proposed Todd Upper-San Andres Gas Pool, including 320-acre spacing for wells located therein.

ir/

Case 3480

Heard 11-2-66

Rec. 11-3-66

1. Create a new Gas pool to be called the Dodd - upper San Andreas Gas pool. The horizontal limits of said pool shall be the same as the Dodd ~~San~~ Lower San Andreas pool and as currently designated by the commission.
2. Grant 320 Ac spacing rules for the upper pool in accordance with Ec. 2 of Summary.
3. The vertical limits of the Dodd - upper San Andreas Gas pool shall be that part of the San Andreas formation above the Anhydrite bed found at 4200' in the Franklin Astor & Fair-Heads Fed. # 1 M - 26 - 7 5 - 35 E.

The vertical limits of the Dodd Lower San Andreas pool shall be that part of the San Andreas formation below the above mentioned Anhydrite bed found in the above mentioned well.

4. The effective date of the separation of the Upper & Lower pools shall be Dec. 1, 1966.
5. All wells which are now completed in both the upper & Lower pools shall be duly completed by Dec. 31, 1966. Such wells which are not located at this date shall be shut in and their allowables cancelled.

4. All wells which are ~~completed~~^{conjugated} in both the upper & Lower pools shall have ~~their~~ total production charged to their allowable from ~~the~~ Dec. 1, 1966 until such time as the wells are reconnected after dual completion.
5. ~~All wells which are Wells completed~~ in this manner shall have their Dec. 1, 1966 ~~status~~^{overproduced or underproduced} overproduced or underproduced status reduced 50%.
- 5 All wells which are completed only in the Lower pool shall ~~their~~^{have} total production charged to their allowable. Such wells shall not have their overproduced or underproduced status changed.
6. All wells which are completed only in the upper pool shall be removed from the gas production schedule Dec. 1, 1966.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

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EXAMINER HEARING

Case No. 3490

TRANSCRIPT OF HEARING

MR. UTZ: Case 3490.

MR. HATCH: Case 3490. Application of Sunray DX Oil Company for pool delineation, Roosevelt County, New Mexico.

MR. KELLY: Booker Kelly of White, Gilbert, Koch and Kelly on behalf of Sunray. I have one witness and I ask that he be sworn.

(Witness sworn)

MR. COPPLE: Robert Copple of Jennings and Copple, representing Franklin, Aston and Fair in this application and we have one witness who may or may not testify, and I ask that he be sworn.

(Witness sworn)

MR. UTZ: Are there any other appearances?

MR. KELLY: Mr. Examiner, I shall also read a statement on behalf of Texaco.

* * *

HERBERT A. SEIDAL, called as a witness herein, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLY:

Q Would you state your name, position, and employer, please?

A Herbert A. Seidal, Junior. I am currently working for Sunray DX Oil Company as a reservoir engineer in their Southwest Division Office in Midland, Texas.

Q You have previously testified before this Commission?

A Yes, sir, I have.

MR. UTZ: He is qualified.

Q (By Mr. Kelly) Now, you were the previous witness on behalf of Sunray in the case held on October 11, ¹⁹⁶⁵ ~~1966~~, involving the San Andres Pool, is that correct?

A Yes, sir, that's correct.

MR. KELLY: Mr. Examiner, since a lot of the testimony that would be crucial to this case was presented at that time, especially as to the spacing requirements and the fact that it could drain in excess of 320 acres and also the testimony on the separation of the anhydrite bed, we would ask that the testimony of the two Sunray witnesses, and also the testimony of the two Texaco witnesses be introduced as exhibits and made a part of this record. *Case 3298*

MR. UTZ: A record of the previous case will be made a part of this record.

MR. KELLY: Also, Mr. Examiner, we have an Exhibit 4 which was marked out of sequence, which is just a plat of the H Zone area which we will not actually have any testimony on, but I have presented it to the Commission since there might

be some reference made to the plat.

MR. UTZ: Which exhibit is that?

MR. KELLY: That is the last one, I think.

(Whereupon, Exhibit 1 marked
for identification.)

Q Referring to what has been marked as Exhibit Number 1,
would you identify that?

A Yes, sir, this is a sonic gamma ray log of the Mark
Federal Number 1 Well originally drilled by Jack McClellan
and now operated by Franklin, Aston and Fair, located in
Section 26, Township 7 South, Range 35 East. On the two-inch
scale, or upper section of the log, we have marked the top of
the anhydrite bed which we have testified separates this upper
San Andrews Gas Pool from the lower pool. The top of the
anhydrite is marked 4200 feet in this log.

Q And your previous testimony showed that the anhydrite
stringer goes through the whole pool, is that correct?

A Mr. Stein testified to this last time, yes, sir.

Q Now, if this pool were created, what would be the
area of delineation of the zone called the H Zone?

A It would encompass the same area as we already have
on record in the original temporary rules for the field, plus
one half section, the west half of Section 30 in Township 7
South, Range 36 East.

Q Now, do you have an opinion as to whether a gas well

in this upper zone can drain in excess of 320 acres?

A Yes, sir, I do. It's my opinion that one well on 320 acre spacing will drain in excess of 320 acres.

Q Now, referring to what has been marked as Exhibit 2, would you identify that for the Examiner?

(Whereupon, Exhibit 2 marked for identification.)

A These are Sunray's proposed rules, and basically they are the same as the initial rules for the Todd Gas Field. In addition to the rules that we have listed here, we would like to add an additional rule, which would permit dual completions of wells in the field, and permit production through the annulus throughout the well casing annulus.

(Whereupon, Exhibit 3 marked for identification.)

Q (By Mr. Kelly) Now, going to Exhibit 3, would you identify that, please?

A This is a tabulation of the completion intervals and proposed pool delineation. In summary, Exhibit 3 shows that we have seven completions that are commingled in the well core, both the upper gas pool and the lower pool.

MR. UTZ: Which exhibit is this?

MR. KELLY: Exhibit 3.

A Exhibit 3.

MR. UTZ: I did not have time to read the rules.

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MR. KELLY: The rules are the same rules this pool had originally before it was separated into gas and --

MR. NUTTER: I thought you said there was a rule here regarding dual completions?

MR. KELLY: No, we didn't have that in. We are going to testify to that.

A The seven wells include Olan F. Featherstone's Federal H 27 Number 1; M-23 Number 1; M-24 Number 2; Franklin, Aston and Fair's Cunningham Federal Number 3; Mark Federal Number 1 and Number 2.

Q (By Mr. Kelly) That is a list of all of the wells --

A That is six of them; the seventh one is Jack McClellan Federal 22 Number 1.

Q Now, do you have a recommendation on dually completing these wells?

A Yes, I do. As I previously mentioned, I would like to set a packer in the casing and seal the lower and upper -- separate the lower and upper zones with the packer in the wellbore.

Q Do you feel that this procedure would insure that there would be no migration between the two zones?

A Yes, sir, I feel it would.

Q Would you recommend separate metering?

A At the surfact separate metering would be required.

Q How long do you feel that it would take to complete these dual completions?

A I feel that sixty days time would be adequate and would recommend that this time run from about December 1st, 1966, to February 1st, 1967, at which time the rules should be in effect.

Q Then you would ask that the Commission start the separation of the two zones to make this order effective as of December 1st?

A Yes, sir, that's correct.

Q Now, do you have any figures on the over-production of the gas wells in the existing Todd San Andrews Gas Pool?

A Yes, sir, we do.

Q Where do you get those figures?

A From the Southwest Gas proration schedule of October, 1966, Order Number AG-26-4.

Q What does that show, as far as over-production?

A For the pool, it shows 393,075 mcf over-production.

Q Did you list the wells that are actually over-produced?

A Yes, sir. Atlantic Refining Company State BA Number 1, Olan F. Featherstone Federal H 27 Number 1, Cunningham Mark Number 3, operated by Franklin, Aston and Fair, also operated by Franklin, Aston and Fair, Mark Federal Number 1, Number 2, Nix-Yates Federal Number 1, Texaco Federal Number 1,

Skelly Oil Company Hobbs S Number 1, and Skelly Oil Company Hobbs V Number 1.

Q How many of those wells are producing in the lower zone?

A There are seven wells completed in the lower zone.

Q Do you have a recommendation to the Commission on a formula for distributing this over-production between the two zones if these zones are separated?

A Yes, sir. In order to facilitate the administering of the split end production from the wells in which the upper and lower zones are commingled, we would recommend a fifty-fifty split of the production.

Q What was the total of that over production?

A 393,075 mcf.

Q So half of that would be to the lower and half to the upper?

A No, sir, that's not quite the way it would be. It's not that simple.

Q Well, as far as recalculating the allowables, in your opinion, that would be up to the Commission to work out?

A Yes, sir.

Q Has Sunray discussed this proposed formula with any of the other operators in the field?

A Yes, sir, we have discussed this proposed split with Franklin, Aston and Fair, and they concurred with this recommendation.

Q Anyone else?

A Skelly Oil Company.

MR. KELLY: I would like to point out to the Examiner that there is a letter from Skelly in the file concerning this.

Q (By Mr. Kelly) Do you have anything further you would like to add?

A No, sir, I believe that covers it.

Q You would recommend the adoption of the proposed rules with the inclusion as to the testimony on the dual completion, adding your testimony and recommendations with regard to the dual completion to the proposed rules?

A Yes, sir, that is correct.

MR. KELLY: I move the introduction of Exhibits 1 through 4.

MR. UTZ: Without objection, Exhibits 1 through 4 will be entered into the record of this case.

(Whereupon, Exhibits 1 through 4 offered and admitted in evidence.)

MR. KELLY: I would like to state at this time, Mr. Examiner, that Texaco, who is an operator in this field,

and who previously appeared at the Hearing in October, restates their position, that they feel the two zones should be separated and any formula that's agreeable to the operators and to the Commission is agreeable to them as far as the over-production.

That's all we have on direct testimony at this time.

MR. UTZ: I believe we have some wells in this schedule you referred to in the October Southeast Proration Schedule that are only completed in the upper zone, is that correct?

A Yes, sir, that is correct, there are six wells completed that way.

MR. UTZ: Only in the upper zone?

A Yes, sir.

MR. UTZ: Which wells are those?

A Atlantic Richfield State BA Number 1.

MR. UTZ: All right.

A Franklin, Aston and Fair's McClellan Federal Number 1, Nix-Yates Number 1 and Texaco Federal Number 1, and the two Skelly Wells. There is only one well that is singly completed in the J Zone in the gas cap. This is Franklin, Aston and Fair's Mark Federal Number 1.

MR. UTZ: That is just the lower completion?

A Yes, sir.

MR. UTZ: Your recommendation was to begin the new nomenclature on December 1st and give them sixty days, or until February 1st, to dual, do I understand that correctly?

A Be effective February 1st, 1967. Give them a sixty day grace period up through this time to effect separation of the zones.

MR. UTZ: After separation of the zones, the upper zone would not -- the wells completed in the upper zone would not be involved in this formula?

A Yes, sir, that is correct.

MR. UTZ: What do you propose to do with the allowable and the well status between now and February 1st? Just use the same set-up as we have now with both pools together, calculating allowables on the volumetric basis until February 1st?

A Yes, sir, that would be my recommendation.

MR. UTZ: That being the case, then we would have a status on each of the wells now listed or hereafter completed as of February 1st?

A Yes, sir.

MR. UTZ: Then we would have -- Unless somebody drilled deeper, we would have one, two, three, four, five, six wells completed only in the upper zone. The status on

those wells would be of no consequence any more?

A Yes, sir.

MR. UTZ: Just forget them and worry about the status of the wells completed in the lower zone?

A Yes, sir.

MR. UTZ: It is a little difficult to visualize what would happen to the status if those wells remained in the lower zone. I presume that those duals, the remaining status would just split in half, whether it was overage or underage?

A Just take the total production and say half of it was from the upper zone and half from the lower.

MR. UTZ: That would be splitting the status, would it not?

A Yes, sir.

MR. UTZ: Unless there is something that I do not see, I presume that would work. Are you recommending an additional 320 acres in the horizontal limits of these two pools in Section 30, was it?

A Yes, sir, west half.

MR. UTZ: That was what Township and Range?

A 7 South, 36 East.

MR. UTZ: Any other questions of the witness?

MR. NUTTER: Mr. Seidal, why would you allocate

over production and under production on the basis of fifty-fifty to each of these zones? Do you think that each of these zones is going to test out as being equal in each of these various wells?

A From what we know, each of these zones appear to be over a field wide basis and on an average about the same quality.

MR. NUTTER: Has any of them ever been tested individually?

A Not to my knowledge in any of the wells that ever commingled.

MR. NUTTER: What do you base that on? As a field average it appears that they are about the same, just on the thickness of the pay?

A On the porosity and on the production characteristics of the single H Zone completions and the J Zone completions. Excuse me, upward --

MR. NUTTER: After they are dually completed, however, there would be a means of telling how much each zone is capable of producing?

A Yes.

MR. NUTTER: Of course, this may not be an indication of how much each zone would produce together.

A It would be difficult, it could be assumed at rates

at which the upper and lower produced relative to one another, attribute that same production together, but this would not really be actually the case, interflow between the two zones.

MR. NUTTER: Now, as I understand it, you would declare the two pools to be separated as of December 1, or would you declare the two pools to be separated as of February 1?

A I think, as of February 1, Mr. Nutter, because they would not be separate until that time, or we are not requesting that they be separated any sooner than that time. I may be missing something, but it would seem that this would be easiest.

MR. UTZ: There is one thing I'd like to mention. The current rules, if they remain in effect, will require balancing January 1. We are now in the balancing period.

A Yes, sir.

MR. UTZ: So there will be some cancellations, redistributions and so forth that would take effect as of January 1.

A That's true.

MR. UTZ: That would do some things to the status.

MR. KELLY: Mr. Examiner, I feel that we can alleviate that problem, it would probably be better to have the separation effective December 1. That would give them

two months to --

MR. UTZ: You can't separate them because they're not duals. That is, it would seem to me you couldn't.

MR. KELLY: Of course there are some wells there that are just completed in one zone.

MR. UTZ: Yes, very few.

MR. KELLY: It might be that some of these dual completions will not take that long. If they can start on it right away.

MR. NUTTER: I was wondering if it would take two months to dual complete seven wells. The dual completions will belong to three different operators. Olan Featherstone would have three duals to effect, Franklin, Aston and Fair would have three duals to effect, Jack McClellan has one dual to effect.

A I would think not over three days for dual completion, including moving and workovers.

MR. NUTTER: The maximum that any operator has is three wells.

A Right.

MR. UTZ: Off the record.

(Whereupon, an off the record discussion was held.)

MR. UTZ: On the record.

MR. KELLY: I would recommend that our proposed pool

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rules be amended to ask that the order separating the two zones be effected as soon as the order is signed, and that the operators be authorized by that order to dually complete, and the dual completions to be finished by no later than January 1st.

That their allowable status be established as soon as they are dually completed and the Commission notified of that.

MR. UTZ: Any other questions of the witness? I presume the witness concurs with your recommendations?

A Yes, sir, I do.

MR. UTZ: The witness may be excused. Is there other testimony in this case?

(Witness excused)

MR. COPPLE: No, sir, Mr. Examiner. Franklin, Aston and Fair supports the application of Sunray as amended by the suggestion of Sunray's counsel, affecting the separation of the zones and the dual completions.

MR. UTZ: That is your statement, then. Any other statements?

MR. HATCH: A letter from Skelly Oil Company dated October 26th, 1966, addressed to the Oil Conservation Commission, "We note that on Wednesday, November 2, 1966, the Conservation Commission will hear the application of Sunray DX

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Oil Company regarding the Todd San Andrews Pool reserves being separated into two separate pools. We recommend the following; 1, that the Commission grant two separate pools to be designated as Todd Upper San Andrews Gas Pool and the Todd Lower San Andrews Pool, with the latter being governed by the present and existing rules and the former being designated as an unallocated gas pool, with the gas spacing in the existing rules only as to location of wells and units; 2, that the effective date of the redelineation be either November 1 or December 1; 3, that a sixty-day period be allocated to operators to effect dual completions of wells effected by the designation of the two separate pools; 4, that the distribution of the cumulative status of both overage and underage be charged on a fifty-fifty basis to each of the separate pools for practical purposes, and to avoid a lot of unnecessary testing and retirement of expense involved therein. Signed, George M. Selinger."

MR. UTZ: Are there any other statements? I think that it is no more than fair to -- I don't know what promulgated this fifty-fifty basis agreement, but if it was a matter of whether or not an operator wanted to test these wells, I think it's only fair to advise you now that the wells will have to be tested after they are dually completed, because dual completions constitute a reworking. I am not real



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sure that all of these wells have been four-pointed yet. I was going to check on that and I did not have time.

Anything further in the case? The case will be taken under advisement.

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PAGE

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I N D E X

WITNESS	PAGE
H. A. SEIDAL	
Direct Examination by Mr. Kelly	2

E X H I B I T S

EXHIBIT	MARKED FOR IDENTIFICATION	OFFERED	ADMITTED
1	4	9	9
2	5	9	9
3	5	9	9

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I, W. DON MCINTYRE, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission Examiner at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal this 3rd day of December, 1966.

W. Don McJule
Notary Public - Court Reporter

My Commission Expires:

July 17, 1970

I do hereby certify that the foregoing is a complete record of the proceedings in the earlier hearing of Case No. 3480, heard by me on Mar. 2, 1966.

Muste, Examiner
New Mexico Oil Conservation Commission

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

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

CASE No. 3490
Order No. R-3153
NOMENCLATURE

APPLICATION OF SUNRAY DX OIL COMPANY
FOR POOL REDELINEATION, ROOSEVELT COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on November 2, 1966,
at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 17th day of November, 1966, the Commission, a
quorum being present, having considered the testimony, the record,
and the recommendations of the Examiner, 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 by Order No. R-1670-G, dated October 29, 1965,
temporary Special Rules and Regulations were promulgated for the
Todd-San Andres Pool, Roosevelt County, New Mexico, superseding
the Special Rules and Regulations promulgated by Order No. R-2666,
dated March 13, 1964.

(3) That by Order No. R-1670-G, dated October 19, 1966,
said temporary Special Rules and Regulations were continued in
full force and effect until further order of the Commission.

(4) That the applicant, Sunray DX Oil Company, seeks the
abolishment of the Todd-San Andres Pool, Roosevelt County, New
Mexico, and the creation of the Todd-Upper San Andres Gas Pool,

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CASE No. 3490

Order No. R-3153

with horizontal limits to be the same as those presently designated for the Todd-San Andres Pool and vertical limits to be that portion of the San Andres formation above the anhydrite bed found at 4200 feet in the Franklin, Aston and Fair, Inc., Mark Federal Well No. 1, located in Unit M of Section 26, Township 7 South, Range 35 East, NMPH, Roosevelt County, New Mexico, and the creation of the Todd-Lower San Andres Pool, with horizontal limits to be the same as those presently designated for the Todd-San Andres Pool and vertical limits to be that portion of the San Andres formation below the above-described anhydrite bed.

(5) That the applicant proposes that the Todd-Lower San Andres Pool be governed by all the previous rules, regulations, and orders of the Commission presently applicable to the Todd-San Andres Pool.

(6) That the applicant also seeks the promulgation of special pool rules for the Todd-Upper San Andres Gas Pool, including a provision for 320-acre spacing.

(7) That the Todd-San Andres Pool encompasses more than one separate common source of supply and should therefore be abolished.

(8) That each of the proposed pools encompasses a separate common source of supply.

(9) That effective December 1, 1966, the Todd-Upper San Andres Gas Pool and the Todd-Lower San Andres Pool should be created with vertical limits as proposed by the applicant and horizontal limits as follows:

TODD-UPPER SAN ANDRES GAS POOL

ROOSEVELT COUNTY, NEW MEXICO

TOWNSHIP 7 SOUTH, RANGE 35 EAST, NMPH

Sections 22 and 23: All
Section 24: W/2
Section 25: W/2
Sections 26, 27, and 28: All
Section 34: N/2
Section 35: All
Section 36: W/2

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CASE No. 3490

Order No. R-3153

TODD-LOWER SAN ANDRES POOL

ROOSEVELT COUNTY, NEW MEXICO

TOWNSHIP 7 SOUTH, RANGE 35 EAST, NMPM

Sections 22 and 23: All

Section 24: W/2

Sections 25, 26, 27, and 28: All

Section 35: N/2 and SE/4

Section 36: All

TOWNSHIP 7 SOUTH, RANGE 36 EAST, NMPM

Section 30: W/2

Section 31: W/2

(10) That the Todd-Lower San Andres Pool should be governed by all the previous rules, regulations, and orders presently applicable to the Todd-San Andres Pool.

(11) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, special rules and regulations providing for 320-acre spacing units should be promulgated for the Todd-Upper San Andres Gas Pool.

(12) That the special rules and regulations for the Todd-Upper San Andres Gas Pool should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.

(13) That in order to prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and otherwise prevent waste and protect correlative rights, authority should be granted to dually complete those wells presently open to both the upper zone and the lower zone of the San Andres formation in the subject area.

(14) That each well which is presently open to both the upper zone and the lower zone of the San Andres formation in the subject area and which has an underproduced status or an overproduced status as of December 1, 1966, should, on that date, have said status reduced by 50 percent, thereby permitting one-half of the

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CASE No. 3490

Order No. R-3153

well's production and status up to that time to be charged to the prorated lower zone and one-half to be charged to the non-prorated upper zone.

(15) That after December 1, 1966, all production from any well which is open to both the upper zone and the lower zone of the San Andres formation in the subject area should be charged to the allowable of the well for the lower zone only, until said well has been dually completed and notices of connection for both zones have been filed with the Commission.

(16) That any well which is open to both the upper zone and the lower zone of the San Andres formation in the subject area and which has not been dually completed by December 31, 1966, should, on that date, be shut in and the allowable cancelled.

IT IS THEREFORE ORDERED:

(1) That the Todd-San Andres Pool is hereby abolished.

(2) That a new pool in Roosevelt County, New Mexico, classified as an associated reservoir for the production of oil and gas from the Lower San Andres formation is hereby created and designated the Todd-Lower San Andres Pool with vertical limits comprising that portion of the San Andres formation below the anhydrite bed found at 4200 feet in the Franklin, Aston and Fair, Inc., Mark Federal Well No. 1, located in Unit M of Section 26, Township 7 South, Range 35 East, NMPM, Roosevelt County, New Mexico, and with horizontal limits as follows:

TODD-LOWER SAN ANDRES POOL

ROOSEVELT COUNTY, NEW MEXICO

TOWNSHIP 7 SOUTH, RANGE 35 EAST, NMPM

Sections 22 and 23: All

Section 24: W/2

Sections 25, 26, 27, and 28: All

Section 35: N/2 and SE/4

Section 36: All

TOWNSHIP 7 SOUTH, RANGE 36 EAST, NMPM

Section 30: W/2

Section 31: W/2

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CASE No. 3490
Order No. R-3153

(3) That a new pool in Roosevelt County, New Mexico, classified as a gas pool for Upper San Andres production is hereby created and designated the Todd-Upper San Andres Gas Pool with vertical limits comprising that portion of the San Andres formation above the anhydrite bed found at 4200 feet in the Franklin, Aston and Fair, Inc., Mark Federal Well No. 1, located in Unit M of Section 26, Township 7 South, Range 35 East, NMPM, Roosevelt County, New Mexico, and with horizontal limits as follows:

TODD-UPPER SAN ANDRES GAS POOL

ROOSEVELT COUNTY, NEW MEXICO

TOWNSHIP 7 SOUTH, RANGE 35 EAST, NMPM

Sections 22 and 23: All

Section 24: W/2

Section 25: W/2

Sections 26, 27, and 28: All

Section 34: N/2

Section 35: All

Section 36: W/2

(4) That the Todd-Lower San Andres Pool shall be governed by all the previous rules, regulations, and orders presently applicable to the Todd-San Andres Pool.

(5) That Special Rules and Regulations for the Todd-Upper San Andres Gas Pool are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS

FOR THE

TODD-UPPER SAN ANDRES GAS POOL

RULE 1. Each well completed or recompleted in the Todd-Upper San Andres Gas Pool or in the Upper San Andres formation within one mile of the Todd-Upper San Andres Gas Pool, and not nearer to or within the limits of another designated Upper San Andres gas pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well completed or recompleted in the Todd-Upper San Andres Gas Pool shall be located on a standard unit consisting of approximately 320 acres which shall comprise any two contiguous quarter sections of a single governmental section, being a legal subdivision (half section) of the United States Public Lands Survey. For purposes of these rules, a unit consisting of

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CASE No. 3490

Order No. R-3153

between 316 and 324 contiguous surface acres shall be considered a standard unit.

RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit and the unorthodox size or shape of the unit is necessitated by a variation in the legal subdivision of the United States Public Lands Survey, or the following facts exist and the following provisions are complied with:

- (a) The non-standard unit consists of quarter-quarter sections or lots that are contiguous by a common bordering side.
- (b) The non-standard unit lies wholly within a single governmental section and contains less acreage than a standard unit.
- (c) The applicant presents written consent in the form of waivers from all offset operators and from all operators owning interests in the section in which the non-standard unit is situated and which acreage is not included in said non-standard unit.
- (d) In lieu of Paragraph (c) of this rule, the applicant may furnish proof of the fact that all of the aforesaid operators were notified by registered or certified mail of his intent to form such non-standard unit. The Secretary-Director may approve the application if no such operator has entered an objection to the formation of such non-standard unit within 30 days after the Secretary-Director has received the application.

RULE 4. Each well completed or recompleted in the Todd-Upper San Andres Gas Pool shall be located in the northeast quarter or the southwest quarter of the section and shall be located no nearer than 990 feet to the outer boundary of the quarter section and no nearer than 330 feet to any governmental quarter-quarter section line.

RULE 5. The Secretary-Director may grant an exception to the footage requirements of Rule 4 without notice and hearing

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CASE No. 3490

Order No. R-3153

when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon, provided the well will be located no nearer than 330 feet to the outer boundary of the unit. All operators offsetting the proposed unorthodox location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the unorthodox location within 20 days after the Secretary-Director has received the application.

IT IS FURTHER ORDERED:

(1) That any well presently drilling to or completed in the Upper San Andres formation within the Todd-Upper San Andres Gas Pool or within one mile of the Todd-Upper San Andres Gas Pool that will not comply with the well location requirements of Rule 4 is hereby granted an exception to the requirements of said rule. The operator of any such well shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before December 1, 1966.

(2) That any operator desiring to dedicate 320 acres to a well presently drilling to or completed in the Todd-Upper San Andres Gas Pool shall file a new Form C-102 with the Commission on or before December 1, 1966.

(3) That each well presently open to both the upper zone and the lower zone of the San Andres formation in the subject area is hereby authorized for dual completion provided the operator furnishes the items required by Rules 112-A IV (a) and (d) of the Commission Rules and Regulations to the Secretary-Director of the Commission and obtains his approval for said dual completion. No waiting period or offset waivers will be required.

(4) That each well that is presently open to produce from both the upper zone and the lower zone of the San Andres formation in the subject area and which has an underproduced status or an overproduced status as of December 1, 1966, shall have said status reduced by 50 per cent.

(5) That after December 1, 1966, all production from any well which is completed in both the upper zone and the lower zone

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CASE No. 3490
Order No. R-3153

of the San Andres formation in the subject area shall be charged to the allowable for the lower zone only (Todd-Lower San Andres Pool) until said well has been dually completed and notices of connection for both zones have been filed with the Commission.

(6) That any well which is open to both the upper zone and the lower zone of the San Andres formation in the subject area and which has not been dually completed and notice of connection received by the Commission by December 31, 1966, shall be ordered shut in and the allowable therefor cancelled until such dual completion has been effected and notice of connection received.

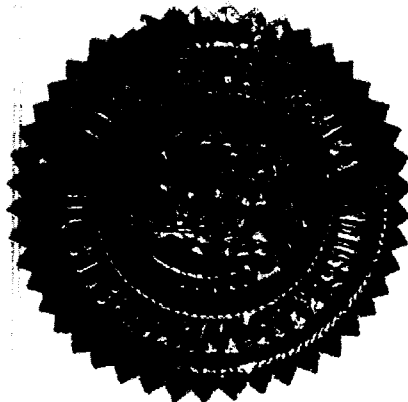
(7) That the overproduced or underproduced status of any well presently completed in the lower zone only of the San Andres formation in the subject area shall remain unchanged by this order.

(8) That any well which is presently completed in the upper zone only of the San Andres formation in the subject area shall be removed from the gas proration schedule December 1, 1966.

(9) That this order shall become effective December 1, 1966.

(10) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

Jack M. Campbell
JACK M. CAMPBELL, Chairman

Guyton B. Hays
GUYTON B. HAYS, Member

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

esr/



SKELLY OIL COMPANY

TULSA, OKLAHOMA 74102

PRODUCTION DEPARTMENT

C. L. BLACKSHER, VICE PRESIDENT

W. P. WHITMORE, MGR. PRODUCTION

W. D. CARSON, MGR. TECHNICAL SERVICES

ROBERT G. HILTZ, MGR. JOINT OPERATIONS

GEORGE W. SELINGER, MGR. CONSERVATION

October 26, 1966

Re: Case No. 3490

Mr. A. L. Porter, Jr., Secretary-Director
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Mr. Porter:

We note that on Wednesday, November 2, 1966, the Conservation Commission will hear the application of Sunray DX Oil Company regarding the Todd-San Andres Pool resulting from separation into two separate pools.

We recommend the following:

1. That the Commission grant two separate pools to be designated as Todd-Upper San Andres Gas Pool and the Todd-Lower San Andres Pool, with the latter being governed by the present and existing rules, and the former being designated as an unallocated gas pool with the gas spacing in the existing rules only as to location of wells and units.
2. That the effective date of the redelineation be either November 1 or December 1.
3. That a sixty-day period be allocated to operators to effect dual completion of the wells affected by the designation of the two separate pools.
4. That the distribution of accumulated status of both overage and underage be charged on a 50-50 basis to each of the separate pools for practical purposes and to avoid a lot of unnecessary testing and time and expense involved therein.

Yours very truly,

GWS:br

cc-Mr. Bob Spurlock, Sunray DX Oil Company
Box 2039, Tulsa, Oklahoma

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

1
2 APPLICATION OF SUNRAY DX OIL COMPANY
3 FOR A POOL REDELINEATION OF THE TODD
4 SAN ANDRES POOL, ROOSEVELT COUNTY NEW
5 MEXICO, AND FOR APPLICABLE POOL RULES
6 FOR THE UPPER GAS ZONE INCLUDING 320
7 ACRE SPACING AND DUAL COMPLETION PROCEDURES
8 FOR THE WELLS PRESENTLY COMPLETED IN BOTH
9 THE UPPER AND LOWER ZONE AND FOR APPLICABLE
10 DISTRIBUTION FORMULA OF THE AFFECTED WELLS'
11 ACCUMULATED STATUS IN THE PRESENT POOL (OVER-
12 PRODUCTION AND UNDERPRODUCTION) TO EACH OF
13 THE NEW POOLS.

No. 3490

A P P L I C A T I O N

14
15 SUNRAY DX OIL COMPANY as owner and operator of certain wells in the Todd
16 San Andres Pool, Roosevelt County New Mexico, established by Order R-1670-G
17 and R-1670-G-1 of this Commission seeks redelineation of said pool into two
18 separate pools, to-wit:

19 1. The Todd Upper San Andres Gas Pool comprising that portion of the
20 San Andres formation above the anhydrite bed found at 4200 feet in the Franklin,
21 Aston and Fair Mark Federal Well No. 1 located in Unit M of Section 26, Town-
22 ship 7 South, Range 35 East, and the Todd Lower San Andres Pool comprising
23 that portion of the San Andres formation below said anhydrite bed.

24 2. Applicant requests that the Todd Lower San Andres Pool be governed by
25 the existing rules for the present Todd San Andres Pool

26 3. That the Todd Upper San Andres Pool be designated a gas pool and that
27 applicable pool rules be formulated for it including 320 acre spacing.

28 Applicant further seeks approval for dual completion of wells presently
29 completed or to be completed in both upper and lower zones and for appropriate
distribution of the affected wells' accumulated status in the present pool (over-
production and underproduction) to each of the new pools. That the redelinea-
tion of the Todd San Andres Pool will promote efficient and effective pro-
duction of the hydrocarbons from both zones, will prevent waste and will pro-
tect the correlative rights of all parties concerned.

WHITE, GILBERT, KOCH & KELLY
ATTORNEYS AT LAW
P. O. BOX 787
SANTA FE, NEW MEXICO

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ATTORNEYS AT LAW
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Respectfully submitted,

WHITE, GILBERT, KOCH & KELLY

By MB Kelly
Attorneys for Sunray DX Oil Company

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CASE No.
Order No.

11-2-66

BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
SUMMIT	EXHIBIT NO. 2
CASE NO.	7-75

SPECIAL RULES AND REGULATIONS
FOR THE
TODD-UPPER SAN ANDRES GAS POOL

RULE 1. Each well completed or recompleted in the Todd-Upper San Andres Gas Pool or in the San Andres formation within one mile of the Todd-Upper San Andres Gas Pool, and not nearer to or within the limits of another designated San Andres gas pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well completed or recompleted in the Todd-Upper San Andres Gas Pool shall be located on a standard unit consisting of approximately 320 acres which shall comprise any two contiguous quarter sections of a single governmental section, being a legal subdivision (half section) of the United States Public Lands Survey. For purposes of these rules, a unit consisting of between 316 and 324 contiguous surface acres shall be considered a standard unit.

RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit and the unorthodox size or shape of the unit is necessitated by a variation in the legal subdivision of the United States Public Lands Survey, or the following facts exist and the following provisions are complied with:

- (a) The non-standard unit consists of quarter-quarter sections or lots that are contiguous by a common bordering side.
- (b) The non-standard unit lies wholly within a single governmental section and contains less acreage than a standard unit.
- (c) The applicant presents written consent in the form of waivers from all offset operators and from all operators owning interests in the

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CASE No.
Order No.

section in which the non-standard unit is situated and which acreage is not included in said non-standard unit.

- (d) In lieu of Paragraph (c) of this rule, the applicant may furnish proof of the fact that all of the aforesaid operators were notified by registered or certified mail of his intent to form such non-standard unit. The Secretary-Director may approve the application if no such operator has entered an objection to the formation of such non-standard unit within 30 days after the Secretary-Director has received the application.

RULE 4. Each well completed or recompleted in the Todd-Upper San Andres Gas Pool shall be located in the northeast quarter or the southwest quarter of the section and shall be located no nearer than 990 feet to the outer boundary of the quarter section and no nearer than 330 feet to any governmental quarter-quarter section line.

RULE 5. The Secretary-Director may grant an exception to the footage requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon, provided the well will be located no nearer than 330 feet to the outer boundary of the unit. All operators offsetting the proposed unorthodox location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the unorthodox location within 20 days after the Secretary-Director has received the application.

IT IS FURTHER ORDERED:

- (1) That any well presently drilling to or completed in the San Andres formation within the Todd-Upper San Andres Gas Pool

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CASE No.
Order No.

or within one mile of the Todd-Upper San Andres Gas Pool that will not comply with the well location requirements of Rule 4 is hereby granted an exception to the requirements of said rule. The operator of any such well shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before _____, 1966.

(2) That any operator desiring to dedicate 320 acres to a well presently drilling to or completed in the Todd-Upper San Andres Gas Pool shall file a new Form c-128 with the Commission on or before _____, 1966.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-
above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

43

Appl Ex 3
Ca 3490
11/2/66

SUNRAY DX OIL COMPANY
COMPLETION INTERVALS AND PROPOSED POOL DELINEATION
As of October 6, 1966
TODD (SAN ANDRES) FIELDS
ROOSEVELT COUNTY, NEW MEXICO

Operator & Well	Completion Interval		Well Classification
	Todd Upper Gas Pool	Todd Lower Pool	
Atlantic Richfield Co. State "BA" #1	4129-4178		Gas
Olen F. Featherstone Federal H-27 #1	4088-4158	4196-4224	Gas
M-23 #1	4107-4181	4204-4256	Gas
M-24 #2	4119-4204	4232-4272	Gas
Franklin, Aston & Fair Cunningham Fed. #3	4089-4181	4204-4249	Gas
M. Livaudais #1		4235-4273	Oil
#2		4232-4266	Oil
Mark Fed. #1	4106-4186	4211-4221	Gas
#2		4220-4247	Gas
#4		4236-4284	Oil
#5		4213-4247	Oil
#6		4230-4273	Oil
#7		4242-4284	Gas
McClellan Fed. #1	4141-4208		Gas
Nix-Yates Fed. #1	4165-4243		Gas
Texaco Fed. #1	4200-4213		Gas
A. C. Holder State "BC" #1		4281-4304	Oil
Jack McClellan Federal 22 #1	4100-4181	4202-4244	Gas
Skelly Oil Co. Hobbs "R" #1		4257-4302	Oil
#2		4259-4301	Oil
"S" #1	4176-4267		Gas
"V" #1	4191-4256		Gas
Sunray DX Oil Co. N. M. State "AY" #1		4236-4287	Oil
#2		4235-4280	Oil
#3		4251-4296	Oil
#4		4276-4324	Oil
#5		4251-4294	Oil
#6		4276-4325	Oil
Texaco, Inc. N. M. State "CT" #1		4235-4278	Oil
#2		4256-4297	Oil
#3		4262-4306	Oil
#4		4240-4285	Oil
#5		4286 notch	Oil