Case Number

4597

Application

Trascripts

Small Exhibits

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
September 15, 1971

EXAMINER HEARING

IN THE MATTER OF:

Application of Morris R. Antweil for lease commingling and off-lease storage, Eddy County, New Mexico

Case No. 4597

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

I N D E X

E X H I B I T S

	Marked	Offered and Admitted
Applicant's Exhibits Nos. 1 through 5	3	11

MR. NUTTER: Case No. 4597.

MR. HATCH: Case No. 4597. Application of Morris R. Antweil for lease commingling and off-lease storage, Eddy County, New Mexico.

(Whereupon, Applicant's Exhibits Nos. 1 through 5 were marked for identification.)

MR. STEVENS: Mr. Examiner, I am Donald G. Stevens of McDermott, Donnelly and Stevens, Santa Fe, representing the Applicant in this case and we have one witness to be sworn.

(Witness sworn.)

MR. NUTTER: Are there other appearances in this case?

MR. KELLY: Booker Kelly, of White, Gilbert, Koch and Kelly and McCarthy, on behalf of Superior Oil Company.

MR. NUTTER: Go ahead.

R. M. WILLIAMS

called as a witness, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. STEVENS:

Q Would you state your name, your residence, your

employer and in what capacity you are employed by him?

A I am R. M. Williams, Hobbs, New Mexico. I am employed by Morris R. Antweil, as engineer.

Q Have you previously testified before the New Mexico Oil Conservation Commission and made your qualifications accepted by the Commission?

A Yes, I have.

Q Would you briefly state what the Applicant seeks in the Application here?

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

A We have made application for approval of lease commingling and approval of off-lease storage and metering of gas and gas condensate production in the South Carlsbad-Strawn field, Eddy County, New Mexico.

Q This is actually two applications in effect; an off-lease storage application and a lease commingling application for the same pool?

A That is right.

Q Referring to what has been identified as Exhibit No. 1, would you explain that for the Commission?

A Exhibit No. 1 is a map to show the location of the three wells involved in the Application; our No. 1

Allen Well, located in Unit J, Section 31, 22, 27. This well is actually a Strawn-Morrow dual, but the Strawn interval is involved in the Application. The proration unit assigned to the Allen well is the E/2 of Section 31. Our No. 1 Little Jewel Well located on Unit F of Section 31, 22,27, also a Strawn-Morrow dual with the Strawn involved in this Hearing, the west half of that section is assigned as a proration unit for Little Jewell Well. And our No. 1 Joell Well located in Unit C, Section 6, 23,27 is a Strawn only completion. It has the N/2 of Section 6 assigned as its proration unit.

Q Referring to what has been marked as Exhibit No. 2, would you explain that for the Commission?

A Yes. Exhibit No. 2 is an actual survey of the battery site and the well location and the floor line route involved in the collection of this production. You will note there that actually the Allen No. 1 well and the Joell No. 1 well will be ones that -- when we get this approval for off-lease metering and storage are for.

Q Referring to what has been marked as Exhibit No. 3, would you explain that for the Commission?

A Exhibit No. 3 is a schematic diagram of the proposed

battery facility. You will note on the lefthand side of the Exhibit, the inlet from each well from the Strawn production, the full well stream for each well will come into a separate separator heater stack-type unit. The gas production separated by this unit will be delivered to individual sales meters and obtain an individual measurement of the gas from each well. The liquid dump from the 1000 pound or high pressure separator will go to the low pressure separator, or flash separator. This unit is actually located on the same skid and the mounted unit is a separator. We intend to operate this separator at probably 60 pounds operating pressure on the low pressure separator. The gas production, low pressure gas from the low pressure separator will be used for the heater fuel. The liquid or the condensate separated at this low pressure separator, then, will pass through our meter run using an A.O. Smith T-6 liquid meter which is a temperature compensated meter with a non-reset counter and the flow rate throught the meter will be controlled by a liquid back-pressure valve, and getting a measurement by this meter of the individual well's liquid production. We propose, then, to commingle this liquid production into common storage vessels. These

will be pressurized tanks which will hold approximately 15 pounds of pressure on this condensate. The sales made out of the storage tank will be by truck.

Q You propose to use a 60-pound pressure on your 125 pound flash separator, is that correct?

A Yes, this 125 pound is a standard pressure rated vessel and this is what was purchased that we plan to operate at 60 pounds.

Q Could you explain the operation of the dump valves in relation to the separator and the meter?

A Of course, your dump valve is controlled by the liquid level in your separator and will allow the liquid to be drained from the bottom of the separator and also will insure that the gas does not pass through this meter.

Q What is the purpose of the liquid back-pressure valve?

A The back-pressure valve serves two purposes for us here; one is to control the flow rate through our meter and maintain that within the accurate range of the meter, and the second, it maintains the pressure on this liquid at just, say, approximately one pound less than our separator operating pressure to insure that gas does

not break out in the meter.

Q Referring to what has been marked as Exhibit No. 4, could you go over that for the Commission?

A This is offered to answer a couple of points that possibly are at issue in this case. The two-stage meter that we propose to use here shows that it does have a non-reset counter, and that it is available with an automatic temperature compensator. This is the way that the meter has been ordered. Also, on the second page, you will note the accuracy curve of the meter, the meter is rated up to 60 gallons a minute. Its operating range, we would intend to control our flow through the meter in a range of 30-to40-gallons-a-minute rate.

Q The automatic temperature compensator, what is its purpose?

A It compensates for variations in temperature of the liquid to insure that proper measurement regardless of the temperature.

Q And your non-reset counter is for what purpose?

A This is a cumulative counter and prevents any resetting or any change of the counter. You have continuous count of every barrel that has ever gone through that meter.

Q Do you have a cross-check between your non-reset counter and any other meter facility on the lease?

A Of course, not individually, no, but the total production or production sales from a common storage will give us another measurement that will be an actual sales measurement. This will be reasonably close to the reading taken at the meter and the production into the our proposed production in individual wells will be allocated by the location formula in the commingling manual based on the meters. In the event that we would have some malfunction of the system and lose a measurement for some period of time, we think that this period of time would be very short because we will have our own pumper there and will be checking at least a couple of times a day, so we could have a period of, say, overnight where you have a malfunction in the meter. We would, of course, in normal operating conditions build up a significant history of the liquid gas ratio and the liquid ratio usually set. We would have a significant history of the gas-liquid-ratio pressure at the meter and at our gas sales meter for each individual well. In the event of a malfunction, then, the liquid could be allocated to an individual well based on this history of

the gas liquid ratio.

Q Referring to your typical accuracy curve on Page 2 of Exhibit 4, could you give us the percentages of accuracy as to flow rate anticipated?

A It says 34 degrees here that we would intend to control our rates. It gets down pretty small to read their graph, but I would say it is somewhere in the neighborhood of 500th of a per cent would be their deviation from absolute measurement.

Q How does that compare with usual measuring facilities such as in tank batteries, individual tank batteries?

A I would say that in normal tank battery, if you were within one per cent, you are awful lucky.

Q Referring to what has been marked as Exhibit No. 5, could you explain that to the Commission?

A Five is the tabulation of the Division of interest in the three wells involved. It has noted at the bottom that these are the original revenue interests in this production. There are provisions in several of these agreements which will effect some change in the override and some in the corresponding working interest after payout of the drilling and completion costs. These are the initial revenue interests.

Q Mr. Williams, is this installation in accordance with the provisions of the New Mexico Oil Conservation Commission manual for installation of of an operation of commingling facilities?

A This is our intention and understanding.

Q Were Exhibits 1, 2, 3, and --

A (Interrupting) One thing I might add, referring back to Exhibit 5, all of these interest owners were notified of our Application by certified mail and the Commission has been furnished a copy of the receipts.

Q Were Exhibits 1, 2, 3 and 5 prepared by you or under your direction?

A Yes. Exhibit 3 was actually drawn by the manufacturer at my request.

Q And Exhibit 4 is a bulletin concerning the metering facilities, right?

A Right. And Exhibit 2 was prepared by John West, a Registered Surveyor.

Q Under your direction, is that right?

A Yes.

Q In your opinion, will the granting of this Application prevent waste and protect correlative rights in accordance with the rules and regulations of the

New Mexico Oil Conservation Commission?

A Yes.

MR. STEVENS: There are no further questions on direct, Mr. Examiner. At this time we would like to offer into evidence, Exhibits 1 through 5.

MR. NUTTER: Antweil's Exhibits 1 through 5 will be admitted in evidence.

(Whereupon, Applicant's Exhibits Nos. 1 through 5 were offered and admitted in evidence.)

MR. NUTTER: Are there any questions of Mr. Williams?

CROSS EXAMINATION

BY MR. KELLY:

Q Mr. Williams, what is the gravity of condensate that would be commingled here?

A Approximately 58 degrees API.

Q Is it true that the higher gravity of the condensate, the more difficult it is to accurately meter condensate?

A This is a generalization of the actual problem. It is not in the gravity or the lightness of the liquid, but your problem is in insuring that you prevent any vaporization or any gas in the meter, and we feel that we can do this with the back-pressure valve, that we will have

pressure drop through the meter run will be less than one pound friction drop through the meter, and so, with this minute pressure drop, the liquid coming from the separator unit should be stable and there would be no gas break-out accumulated in the meter.

Q Well, your Exhibit No. 4, the typical accuracy curve was based on a condensate with a substantially lower gravity, is that correct?

A Yes, their tests were run, I think, on a lower gravity, but the gravity actually isn't significant. It prevents any vaporization taking place in the meter run.

Q Now, you have stated that you were following the requirements set out in the O.C.C. manual on commingling, is that correct?

A Yes.

Q Referring to that manual, I am wondering whether you are planning to have certain items that are listed therein on Page 9, "Strainer, air and gas eliminator, and samplers and sampler probes." Will these be a part of your mechanical installation?

A The installation will be equipped with a strainer. We feel that this is for the protection of the meter in the initial stages of operation. After that, I don't

believe that it is critical, but it will be installed. We have not provided for a gas eliminator. We feel that the installation of the separator immediately before the meter is a gas eliminator and the back pressure valve downstream will maintain the pressure at the separator pressure and prevent gas entering the meter. We did not provide for a sampler in that our production tests on the well show no water production. Of course, we will have provisions for the extraction of water in our separator if necessary. Both of these items, although we do not feel that they are necessary for proper operation and metering of this liquid, if the Commission would desire that they be installed, it would be agreeable with Superior -- any suggestions that they may have.

Q If Superior were to request that those items be included in the mechanical installation, you would have no objection?

A No, we would install them. We think it would be somewhat a waste of money, but we realize that there are listed in the requirements that if the Commission would so rule, we would definitely install them.

Q Well, for the benefit of the record, I think

I am authorized to say that Superior would request those items to be installed.

A If the Commission so rules, we would install them. This would be a minor modification.

MR. NUTTER: What specific items are you talking about? Are you talking about the air eliminator or the --

MR. KELLY: (Interrupting) I think he said they would have the strainer, so the air and gas eliminator and the sampler.

MR. NUTTER: You don't go along with Mr. Williams' reply that the low stage separator constitutes an air and gas eliminator?

MR. KELLY: No. As I read this booklet, it seems to me that the air and gas eliminator is specifically required where you have a high gravity condensate.

MR. NUTTER: Of course, one thing about that booklet, Mr. Kelly, that I should point out, these are the requirements which must be met to obtain administrative approval for an installation. Now, Antweil applied for this administrative approval and received an objection, so it was set for Hearing. These requirements are not necessarily requirements that must be met for Hearing for approval after a Hearing, however, the booklet does provide

that this would be a criterion for the design of installations, but it is not a must, necessarily. We do have some exceptions to that booklet. I want to make the record clear on that point.

MR. KELLY: I want to point out that the general rules provide that these are minimum standards.

MR. NUTTER: Yes, sir.

BY MR. KELLY:

Q I also would like to know if you would have any objection to furnishing the Commission and possibly also a copy to Superior of your C-115 forms, rather than using the alternate procedure of keeping these records?

A We would be agreeable to do this any way that would be satisfactory. We, of course, are required to maintain these records and we will supply copies to Superior and to the Commission. I think the Rule is that we either have to furnish them or keep them on record for two years.

MR. NUTTER: I think so.

THE WITNESS: But we would be agreeable to furnishing these.

BY MR. KELLY:

Q I am referring to Page 2 of the booklet. The

Form C-115, I assume that the Order can either require that it be furnished to the Commission or the record kept and we would urge the Commission that if there is no objection by the Applicant that the forms be supplied to the Commission and copies to Superior.

A This information, we are required to keep and would be available to Superior and to the Commission, of course.

Q Well, the specific question I have is whether you would be agreeable to actually furnishing the form C-115 on a monthly basis rather than just keeping records?

A Yes.

Q Now, the only other area of concern, do you have any estimates as to the volumes of gas that will be vented in the mechanical installation as you reduce your pressures?

A Of course, as we flow through the stream there, on the schematic diagram, your gas off your high pressure separator, of course, goes to sales. The gas off the low pressure separator, we intend to use for our fuel gas for our heater in our stack pack installation. This gas will be piped to that heater. The volumes involved here, from our investigation, this will approximate our

heater use. Undoubtedly in the winter or cold months when more heat is required, we will probably have to make up some gas, fuel gas, from the 1000 pound gas line. During the summer months, there may be some of this 60-pound gas vented. Also, as you realize, there will be some gas that will vent from the pressurized tankage. This low pressure gas, there is no collection system in the area at this time for handling any low pressure gas, so there is no collection facility. We do plan to use it for fuel. Our intention is to obtain measurements in actual operating conditions of the volumes of gas and the B.T.U. content of that gas and look at the economics of compressing that gas into the sales line. With a higher B.T.U. content, it may be economic to compress that into the line and get the benefit of the higher heat value.

Q That is the possibility you are considering?

A Yes. We are looking at a fairly expensive operation there of a compressor, and we would like to see the operating volumes rather than flash calculations to justify that unit.

MR. KELLY: We have no further questions, Mr. Examiner.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Williams, what are the present rates or the anticipated rates of flow from each of these wells in the Strawn?

A We are estimating overall, Dan, that these three wells will probably produce about 12,000,000 total. I would break that down as probably 5,000,000 from the Little Jewell, 4,000,000 from the Joell, and 3,000,000 from the Allen. This is guesswork.

Q How about the gas liquid ratio; is it about the same?

A Gas liquid ratio, we would have no reason to believe that it won't be the same on all wells and would run initially about 25 barrels to the million.

Q So we are talking about 125 barrels, then, from the Little Jewell and about 75 barrels per day from the Allen, and about 100 barrels a day from the Joell well?

A We are talking about an estimated 300 barrels total, yes, sir.

Q And no water from any of the wells?

A No, in our tests, four-point tests, we had no water. Superior might be able to add something from their experience. They have the only other Strawn producing well.

Do you have any water production?

MR. CLAY: Yes, there is some water production. There is some condensation of fresh water associated with production. It varies, but on one occasion there was as much as 22 barrels in a particular day and the chloride was around 20,000, indicating that it was fairly fresh and more condensation water -- the water was from the gas.

MR. NUTTER: Rather than free water being produced, it was condensing out?

MR. CLAY: Yes, that is the appearance it gave.

BY MR. NUTTER:

Q You mentioned, Mr. Williams, that you would lbe operating these meters at a rate of from 30 to 40 gallons per minute, but that doesn't mean a constant rate; that is while it is dumping, is this correct?

A That's right.

Q And this is in the mid-range of the meter capacity because you are putting in a 60-gallon per minute meter?

A That's right.

Q Now, the dump valve, is it actually a part of the low pressure separator?

A Well, it is external to the vessel.

Q It dumps from the lower part of the separator, is this correct?

A From the bottom of the unit.

Q When that dump valve is open and flowing out of the separator and it shuts off the flow, it leaves some liquid in the bottom of the separator, doesn't it?

A Oh, yes.

Q How much liquid is left there between the top of the liquid and the opening; in other words, to prevent gas from breaking through into the flow line into the dump valve; what is the setting?

A I don't know that fluid level spacing there, but it is controlled to maintain the gas liquid level in the vessel well above the outlet.

Q The float level in there can be adjusted to maintain a given volume of liquid above the outlet, is that correct?

A Yes.

Q And you would adjust this in such a manner as to give a security there that the gas wouldn't break through into your meter?

A Right.

MR. NUTTER: Are there further questions of Mr. Williams.

MR. STEVENS: Just a couple of questions.

REDIRECT EXAMINATION

BY MR. STEVENS:

Q Mr. Williams, this possible venting of gas from the low pressure separator back to the heater combination, that would be lost regardless of whether there were commingling or not, is that correct?

A Yes, only there is no provision in the field now to collect this vapor and the only present use for it is as a fuel gas. There is a significant amount of fuel gas required to produce these wells.

Q But even if these wells were produced in separate tank batteries there would still be a loss?

A That's right. There is no way to condensate from wellhead pressure to tank track pressure without having some vaporization. Sales gas lines would be operating at about 800 pounds.

Q Is it my understanding that you don't object to the air-gas eliminator or the sampler as long as it is required by the Commission, but you would prefer not to install it unless it is required?

A That's right. We do not feel it is necessary, therefore, we feel that it would be an unnecessary expense, but if the Commission would so rule, we would certainly modify it and install it.

MR. STEVENS: No further questions.

MR. NUTTER: Does anyone have anything to offer? If there are no further questions of the witness, he may be excused.

(Witness dismissed.)

MR. NUTTER: Do you have anything further, Mr. Stevens?

MR. STEVENS: No, sir.

MR. NUTTER: Do you have anything, Mr. Kelly?

MR. KELLY: I would like to sum up that Superior has no objection to the Application so far as mechanical installation here. We do feel that in these high gravity condensates that separate storage facilities are better, but upon the assumption that the Applicant follows the guidelines set by the Commission booklet and specifically the two items that we have covered in testimony are included, we would have no objection to this installation. We would request that the Commission, because there is a higher possibility of air in measuring this particular

condensate, require that the Form C-115 be furnished to the Commission so that they can look at this and prior to any granting of the Application to extend the monthly tests of the meters, that Superior be given an opportunity just to voice its views to the Commission.

MR. NUTTER: Any rebuttal, Mr. Stevens?

MR. STEVENS: Only that we feel the installation according to the testimony is in compliance with the manual subject to the two items we talked about and that Superior is actually objecting only to those two requirements, as I understand it, there were other previous objections of Superior which we presume have been taken care of in this Hearing: non-temperature compensation meter, and that the record will reflect that was mentioned in a letter, and the fact that there was no non-reset counter provided, the accuracy of the meter was questioned, and we think the testimony has shown that it is accurate. The only thing we would add is that we would like to ask the Commission to take administrative notice that Superior has an installation similar to this. I don't know that it has the dump valves and the meter and so forth, but under PLC-3 Administrative Order, they

received permission to commingle lease production in the Circle-Wolfcamp and the Pennsylvanian field in a situation where there was a diversity of ownership.

MR. NUTTER: Thank you. Does anyone have anything further to offer in Case No. 4597?

We will take the case under advisement and the hearing is adjourned.

STATE OF NEW MEXICO)
) SS.
COUNTY OF SANTA FE)

I, RICHARD L. NYE, Court Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

Richard L. Nye
COURT REPORTER

My commission expires March 25, 1975.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 4697 heard by me on 9/15 1971.

, Examiner
New Mexico Oil Conservation Commission

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

GOVERNOR
BRUCE KING
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

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

September 16, 1971

Re: Case No. 4597
Order No. R-4195
Applicant:
MORRIS R. ANTWEIL

Mr. Don Stevens
McDermott, Connelly & Stevens
Attorneys at Law
Post Office Box 1904
Santa Fe, New Mexico

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

ALP/ir

Copy of order also sent to:

Hobbs OCC x
Artesia OCC x
Aztec OCC

Other Mr. Booker Kelly

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. 4597
Order No. R-4195

APPLICATION OF MORRIS R. ANTWEIL FOR
LEASE COMMINGLING AND OFF-LEASE
STORAGE, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 15, 1971, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 16th day of September, 1971, 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 the applicant, Morris R. Antweil, is the operator of the Little Jewel Well No. 1 and Allen Well No. 1 located in Units F and J, respectively, of Section 31, Township 22 South, Range 27 East, and the Joell Well No. 1 located in Unit C of Section 6, Township 23 South, Range 27 East, NMPM, South Carlsbad-Strawn Gas Pool, Eddy County, New Mexico.

(3) That the applicant proposes to pipe the wet gas streams from each of the aforesaid wells to a central battery located in the SE/4 SW/4 of said Section 31 and to pass the production from each of the aforesaid wells into an individual 1000-pound separator-heater combination.

(4) That the gas production from each of the aforesaid separators would thence pass through individual sales meters into the pipeline.

(5) That the liquid production from each of the aforesaid separators would thence pass into a 125-pound low pressure flash separator, with the gas production from said low pressure separators being used to fuel the heaters described in finding No. (3) above.

(6) That the liquid production from each of the aforesaid low pressure separators would then be commingled in a common pressurized tank after passing through a strainer and after being separately and continuously metered by temperature-compensated meters installed upstream from liquid back pressure valves.

(7) That the installation of air and gas eliminators should not be required.

(8) That continuous type samplers or sampler probes should be installed in each liquid stream.

(9) That approval of the application in accordance with Findings Nos. (3) through (8) above will result in economic savings to the operator, prevent waste, and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Morris R. Antweil, is hereby authorized to commingle the condensate produced from his Little Jewel Well No. 1 and Allen Well No. 1 located in Units F and J, respectively, of Section 31, Township 22 South, Range 27 East, NMPM, and his Joell Well No. 1 located in Unit C of Section 6, Township 23 South, Range 27 East, NMPM, South Carlsbad-Strawn Gas Pool, Eddy County, New Mexico, after separation and measurement of the liquids from each well in accordance with Findings No. (3) through (8) above.

(2) That the above-described commingling installation shall be operated in accordance with the provisions of the Commission's "Manual for the Installation and Operation of Commingling Facilities," insofar as said provisions are not in conflict with this order.

(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 hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX J. ARMIJO, Member

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

S E A L

dr/

Docket No. 20-71

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 15, 1971

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

The following cases will be heard before Daniel S. Nutter, Examiner, or A. L. Porter, Jr., Alternate Examiner:

ALLOWABLE: (1) Consideration of the allowable production of gas for October, 1971, from fifteen prorated pools in Lea, Eddy, Chaves and Roosevelt Counties, New Mexico;

(2) Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba, and Sandoval Counties, for October, 1971.

CASE 4222 (Reopened): In the matter of Case 4222 being reopened pursuant to the provisions of Order No. R-3850-A, which order continued 80-acre spacing units for the West Sawyer-San Andres Pool, Lea County, New Mexico, for an additional one-year period. All interested parties may appear and show cause why said pool whould not be developed on 40-acre spacing units and present evidence as to whether or not said pool is in fact an associated reservoir.

CASE 4588: Application of V. H. Westbrook for a pressure maintenance project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project by the injection of water into the Delaware formation through his Guy A. Reed Well No. 2 located in Unit L of Section 24, Township 24 South, Range 28 East, Malaga-Delaware Pool, Eddy County, New Mexico.

CASE 4589: Application of Anadarko Production Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Burnham Grayburg San Andres Unit Area comprising 480 acres, more or less, of state lands in Section 2, Township 17 South, Range 30 East, Square Lake Field, Eddy County, New Mexico.

CASE 4590: Application of Wolfson Oil Company, MKA Oil Properties, John H. Hendrix, and Bruce A. Wilbanks for a special gas-oil ratio limitation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks as an exception to Rule 506 of the Commission Rules and Regulations, a limiting gas-oil ratio of 6,000 cubic feet of gas per barrel of oil in the Drinkard Pool, Lea County, New Mexico.

CASE 4591: Application of American Quasar Petroleum Company of New Mexico for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill an exploratory gas well at an unorthodox location 660 feet from the South and East lines of Section 21, Township 25 South, Range 33 East, Lea County, New Mexico, to test the Devonian, Pennsylvanian, and Wolfcamp formations within one mile of the Red Hills Field.

CASE 4592: Application of Gulf Oil Corporation for amendment of order permitting commingling of production, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order No. R-4079, which order authorized the applicant to commingle production from the Hobbs (Grayburg-San Andres) and Hobbs-Blinebry Pools on its W. D. Grimes NCT-B Lease and to commingle production from said lease with the Hobbs (Grayburg-San Andres) Pool on its W. D. Grimes NCT-A lease, located in Sections 32 and 33, Township 18 South, Range 38 East, Lea County, New Mexico. Applicant seeks to allocate production to each lease and pool on the basis of bi-monthly tests rather than monthly tests.

CASE 4593: Application of Continental Oil Company for an exception to Order No. R-3221, as amended, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, to dispose of water produced by wells located on its W. R. Means lease comprising the S/2 and NW/4 of Section 28, and E/2 and E/2 W/2 of Section 29, Township 14 South, Range 30 East, Vest Ranch-Queen Pool, Chaves County, New Mexico, in unlined surface pits.

CASE 4594: Application of Continental Oil Company for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its second well on a proration unit at an unorthodox location 660 feet from the South line and 2540 feet from the East line of Section 19, Township 26 South, Range 37 East, Scarborough Yates-Seven Rivers Pool, Lea County, New Mexico.

CASE 4595: Application of Continental Oil Company for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from undesignated Gallup and Dakota oil pools in the wellbores of two wells to be drilled in Section 27, Township 25 North, Range 4 West, West Lindrith Field, Rio Arriba County, New Mexico. Applicant further seeks the establishment of a procedure whereby similar approval may be granted administratively for other wells to be drilled in said area.

CASE 4597: Application of Morris R. Antweil for lease commingling and off-lease storage, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle condensate produced from his Little Jewel Well No. 1 and Allen Well No. 1 located in Units F and J, respectively,

(Case 4597 continued)

of Section 31, Township 22 South, Range 27 East, and from his Joell Well No. 1 located in Unit C of Section 6, Township 23 South, Range 27 East, South Carlsbad-Strawn Gas Pool, Eddy County, New Mexico, after separation and measurement of the liquids from each well.

CASE 4583: (Continued from the August 18, 1971, Examiner Hearing) Application of V. F. Vasicek and J. M. Fullinwider, doing business as V-F Petroleum for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the E/2 of Section 15, Township 16 South, Range 35 East, Lea County, New Mexico, said acreage to be dedicated to a well to be re-entered and recompleted in the Pennsylvanian formation and located 1980 feet from the South and East lines of said Section 15. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4596: Southeastern New Mexico nomenclature case calling for an order for the creation, extension and abolishment of certain pools in Lea, Eddy, and Chaves County, New Mexico.

(a) Create a new pool in Eddy County, New Mexico, classified as an oil pool for Strawn production and designated as the South Hackberry-Strawn Pool. The discovery well is the Perry R. Bass Big Eddy Unit No. 33 located in Unit P of Section 4, Township 20 South, Range 31 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 31 EAST, NMPM
SECTION 4: SE/4 SE/4

(b) Create a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the Maroon Cliffs-Morrow Gas Pool. The discovery well is the Perry R. Bass Big Eddy Unit No. 7 located in Unit O of Section 19, Township 20 South, Range 31 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 31 EAST, NMPM
SECTION 19: S/2

(c) Create a new pool in Lea County, New Mexico, classified as an oil pool for Pennsylvanian production and designated as the McDonald-Pennsylvanian Pool. The discovery well is the J. M. Huber Corporation Griffin No. 1 located in Unit A of Section 4, Township 14 South, Range 36 East, NMPM. Said pool would comprise:

TOWNSHIP 14 SOUTH, RANGE 36 EAST, NMPM
SECTION 4: NE/4

(d) Abolish the Northwest Vacuum-Abo Pool in Lea County, New Mexico, described as:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
SECTION 2: SW/4
SECTION 3: NE/4 SE/4

(e) Extend the North Vacuum-Abo Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
SECTION 2: SW/4
SECTION 3: SE/4

(f) Extend the Blinebry Oil Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 36 EAST, NMPM
SECTION 36: NE/4

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
SECTION 8: NW/4

(g) Extend the South Carlsbad-Morrow Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH RANGE 26 EAST, NMPM
SECTION 25: S/2

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM
SECTION 30: S/2
SECTION 31: W/2

(h) Extend the South Carlsbad-Strawn Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 27 EAST, NMPM
SECTION 30: S/2

(i) Extend the Double L-Queen Associated Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 29 EAST, NMPM
SECTION 25: NW/4 SE/4

(j) Extend the Eagle Creek-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 25 EAST, NMPM
SECTION 22: W/2

(k) Extend the Flying "M"-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 33 EAST, NMPM
SECTION 9: NE/4

(l) Extend the Flying "M"-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 33 EAST, NMPM
SECTION 9: W/2, NE/4 and N/2 SE/4

(m) Extend the Grayburg Jackson Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 30 EAST, NMPM
SECTION 18: S/2 NW/4

(n) Extend the Langlie-Mattix Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
SECTION 20: NW/4 and NW/4 SW/4

(o) Extend the Power Grayburg-San Andres Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM
SECTION 1: NE/4 NE/4

TOWNSHIP 18 SOUTH, RANGE 31 EAST, NMPM
SECTION 6: SW/4 NW/4

(Case 4596 continued)

(p) Extend the East Shoebar-Devonian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 36 EAST, NMPM
SECTION 29: SW/4
SECTION 30: SE/4

(q) Extend the North Vacuum-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
SECTION 12: S/2
SECTION 14: S/2
SECTION 23: N/2

(r) Extend the North Vacuum-Lower Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
SECTION 4: NW/4

(s) Extend the Northwest Vacuum-Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
SECTION 5: SE/4

(t) Extend the Vada-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 9 SOUTH, RANGE 34 EAST, NMPM
SECTION 2: S/2 and NW/4
SECTION 3: NE/4
SECTION 7: S/2
SECTION 10: E/2
SECTION 11: N/2

August 26, 1971

The Superior Oil Company
P. O. Box 1900
Midland, Texas 79701

GM
file-Case
4597

Attention: Mr. Terry Clay

Re: Morris R. Antweil - Application for Administrative Approval of Lease Commingling and Off-Lease Storage, South Carlsbad (Strawn) Field, Eddy County, New Mexico

Gentlemen:

Superior's objection to the captioned application for approval of lease commingling and off-lease storage for our No. 1 Allen, No. 1 Jowll, and No. 1 Little Jewel wells in the South Carlsbad (Strawn) Field is acknowledged. We believe that the specific objections contained in your letter of 24 August, 1971 can be adequately explained, and we would welcome the opportunity to meet with you and resolve any question as to the adequacy of the proposed design to accurately measure and record the liquid production from each of the wells.

We have consulted with representatives of A. O. Smith and Sivalls Tank Company, the suppliers of the proposed equipment, and offer the following explanations to the specific objections contained in your letter of 24 August, 1971.

1. The A. O. Smith Model T-6 meter proposed to measure the liquid production from each well is equiped with an automatic temperature compensator.

2. The meter counter will be a non-reset type counter registering the production in cumulative barrels.

3. The proposed design utilizing a back-pressure control valve down stream of the meter permits control of the flow rates through the meter to a maximum volume well within the acceptable accuracy range of the meter. The proposed meter is rated up to a rate of 60 gallons per minute. The dump volume from the flash separator will be approximately 1/2 barrel per dump or 21 gallons per dump. The flow rate will be controlled with the back-pressure control valve to a minimum of 1/2 minute per dump or a maximum rate of 42 gallons per minute through the meter.

In view of Superior's objection to our application, we have requested the New Mexico Oil Conservation Commission to docket our application for public hearing on 15 September, 1971; however, we would much rather resolve any objection Superior holds to our proposed design by explanation or modification of the design to your satisfaction such that Superior would withdraw their objection.

We would appreciate your reply as to the sufficency of our explanation of your specific objections or your desire to discuss possible modifications to make the design of the proposed facifity acceptable to Superior.

Yours very truly,

MORRIS R. ANTWEIL

R M Williams

R. M. Williams

RMW/fl

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

Morris R. Antweil
OIL OPERATOR
P. O. Box 2010
HOBBS, NEW MEXICO 88240

August 23, 1971

Case 4597

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

REFERENCE: Application for Administrative Approval of Lease Commingling and Off-Lease Storage, Gas and Gas Condensate Production, South Carlsbad (Strawn) Field, Eddy County, New Mexico

Dear Sir:

The captioned application was filed with your office on 20 August 1971. Copies of the application were mailed to each interest owner involved by certified mail on the same date.

Enclosed for your records are copies of the receipt for certified mail of the notices to all interest owners.

Respectfully,

MORRIS R. ANTWEIL

R M Williams

R. M. Williams

RMW/lm

Enclosures

DOCKET MAILED
Date 9-3-71

Case 4597

Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Oil Conservation Commission
District II
Drawer DD
Artesia, New Mexico 88210

Morris R. Antweil
P. O. Box 2010
Hobbs, New Mexico 88240

Mabee Petroleum Corporation
201 First Savings Building
Midland, Texas 79701
ATTENTION: E. H. Scobey

Delta Drilling Company
P. O. Box 866
Odessa, Texas 79760
ATTENTION: Jack Lyle

Superior Oil Company
P. O. Box 1900
Midland, Texas 79701
ATTENTION: Engineering Dept.

Mobil Oil Corporation
P. O. Box 633
Midland, Texas 79701
ATTENTION: R. P. McMurtry

Pennzoil & Atapaz, Inc.
P. O. Box 1828
Midland, Texas 79701

Cal Mon Oil Company
P. O. Box 3275
Midland, Texas 79701

R. E. Lawson, Jr.
207 Chancellor Building
Midland, Texas 79701

Lyle L. Walker
Drawer 1479
Clovis, New Mexico 88101

U. S. Petroleum Corporation
P. O. Box 8026
Longview, Texas 75601

Loren S. Murphy
4258 - 47th Street
San Diego, California 92101

Wayne V. Murphy
920 Monroe Street
Galesburg, Illinois 61401

Cora M. Adcock
3122 - 44th Street
San Diego, California 92101

Clinton F. Spencer
c/o Service Pipe Line Company
Magnolia, Arkansas 71753

Byrl D. Spencer
Westphalia, Kansas 66093

Doris and Billy Roe
La Harpe, Kansas 66751

Elvin Spencer
Rural Route #1
Welda, Kansas 66091

Carol and Glen Weldin
Rural Route #1
Colony, Kansas 66015

Ivan R. Spencer
Westphalia, Kansas 66093

Raymond W. Spencer
P. O. Box 1086
Carlsbad, New Mexico 88220

Merland, Inc.
c/o William H. Merchant, Jr.
P. O. Box 548
Carlsbad, New Mexico 88220

Mrs. Mildred Freeman
1210½ Kings Highway
Dallas, Texas 75208

Mrs. Edith Perry
307 Sunset Court
Arlington, Texas 76010

Mrs. Gladys Parmer
1107 Kings Highway
Dallas, Texas 75208

Mrs. June Carter Dunagan
212 Stevens
Carlsbad, New Mexico 88220

A. M. Routh
Midland Tower Building
Midland, Texas 79701

Missouri-New Mexico Land Co.
730 Vine Street
Batesville, Arkansas 72501
ATTENTION: Mr. E. H. Musgrave

Howard P. Hemler
Frijoli Road
Carlsbad, New Mexico 88220

No. 287357

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO: Oil Conservation Commission	POSTMARK OR DATE: 8/20/71
STREET AND NO.: District II, Drawer DD	
P.O., STATE AND ZIP CODE: Artesia, New Mexico 88210	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES: 1. Shows to whom and date delivered ..... 15¢; With delivery to addressee only ..... 65¢; 2. Shows to whom, date and where delivered .. 35¢; With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL — *(See other side)*

* GPO: 1970 O-397-466

No. 287411

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO: Mabee Petroleum Corporation	POSTMARK OR DATE: 8/20/71
STREET AND NO.: 201 First Savings Bldg.	
P.O., STATE AND ZIP CODE: Midland, Texas 79701	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES: 1. Shows to whom and date delivered ..... 15¢; With delivery to addressee only ..... 65¢; 2. Shows to whom, date and where delivered .. 35¢; With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL — *(See other side)*

* GPO: 1970 O-397-466

No. 287412

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO: Delta Drlg. Co.	POSTMARK OR DATE: 8/20/71
STREET AND NO.: P. O. Box 866	
P.O., STATE AND ZIP CODE: Odessa, Texas 79760	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES: 1. Shows to whom and date delivered ..... 15¢; With delivery to addressee only ..... 65¢; 2. Shows to whom, date and where delivered .. 35¢; With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL — *(See other side)*

* GPO: 1970 O-397-466

No. 287413

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO: Superior Oil Company	POSTMARK OR DATE: 8/20/71
STREET AND NO.: Box 1900	
P.O., STATE AND ZIP CODE: Midland, Texas 79701	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES: 1. Shows to whom and date delivered ..... 15¢; With delivery to addressee only ..... 65¢; 2. Shows to whom, date and where delivered .. 35¢; With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL — *(See other side)*

* GPO: 1970 O-397-466

No. 287414

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO: Mobil Oil Corp.	POSTMARK OR DATE: 8/20/71
STREET AND NO.: Box 633	
P.O., STATE AND ZIP CODE: Midland, Texas 79701	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES: 1. Shows to whom and date delivered ..... 15¢; With delivery to addressee only ..... 65¢; 2. Shows to whom, date and where delivered .. 35¢; With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL — *(See other side)*

* GPO: 1970 O-397-466

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

No. 287420

SENT TO
Loren S. Murphy

STREET AND NO.
4258 - 47th St.

P.O., STATE AND ZIP CODE
San Diego, California 92101

POSTMARK OR DATE
8/20/71

OPTIONAL SERVICES FOR ADDITIONAL FEES

RETURN RECEIPT SERVICES
1. Shows to whom and date delivered ..... 15¢
With delivery to addressee only ..... 65¢
2. Shows to whom, date and where delivered .. 35¢
With delivery to addressee only ..... 85¢

DELIVER TO ADDRESSEE ONLY ..... 50¢
SPECIAL DELIVERY (2 pounds or less) ..... 45¢

POD Form 3800
July 1969

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See other side)

* GPO: 1970 O-397-466

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

No. 287421

SENT TO
Wayne V. Murphy

STREET AND NO.
920 Monroe Street

P.O., STATE AND ZIP CODE
Galesburg, Illinois 61401

POSTMARK OR DATE
8/20/71

OPTIONAL SERVICES FOR ADDITIONAL FEES

RETURN RECEIPT SERVICES
1. Shows to whom and date delivered ..... 15¢
With delivery to addressee only ..... 65¢
2. Shows to whom, date and where delivered .. 35¢
With delivery to addressee only ..... 85¢

DELIVER TO ADDRESSEE ONLY ..... 50¢
SPECIAL DELIVERY (2 pounds or less) ..... 45¢

POD Form 3800
July 1969

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See other side)

* GPO: 1970 O-397-466

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

No. 287422

SENT TO
Cora M. Adcock

STREET AND NO.
3122 - 44th St.

P.O., STATE AND ZIP CODE
San Diego, California 92101

POSTMARK OR DATE
8/20/71

OPTIONAL SERVICES FOR ADDITIONAL FEES

RETURN RECEIPT SERVICES
1. Shows to whom and date delivered ..... 15¢
With delivery to addressee only ..... 65¢
2. Shows to whom, date and where delivered .. 35¢
With delivery to addressee only ..... 85¢

DELIVER TO ADDRESSEE ONLY ..... 50¢
SPECIAL DELIVERY (2 pounds or less) ..... 45¢

POD Form 3800
July 1969

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See other side)

* GPO: 1970 O-397-466

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

No. 287423

SENT TO
Mr. Clinton F. Spencer

STREET AND NO.
c/o Service Pipe Line Co.

P.O., STATE AND ZIP CODE
Magnolia, Arkansas 71753

POSTMARK OR DATE
8/20/71

OPTIONAL SERVICES FOR ADDITIONAL FEES

RETURN RECEIPT SERVICES
1. Shows to whom and date delivered ..... 15¢
With delivery to addressee only ..... 65¢
2. Shows to whom, date and where delivered .. 35¢
With delivery to addressee only ..... 85¢

DELIVER TO ADDRESSEE ONLY ..... 50¢
SPECIAL DELIVERY (2 pounds or less) ..... 45¢

POD Form 3800
July 1969

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See other side)

* GPO: 1970 O-397-466

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

No. 287424

SENT TO
Byrl D. Spencer

STREET AND NO.

P.O., STATE AND ZIP CODE
Westphalia, Kansas 66093

POSTMARK OR DATE
8/20/71

OPTIONAL SERVICES FOR ADDITIONAL FEES

RETURN RECEIPT SERVICES
1. Shows to whom and date delivered ..... 15¢
With delivery to addressee only ..... 65¢
2. Shows to whom, date and where delivered .. 35¢
With delivery to addressee only ..... 85¢

DELIVER TO ADDRESSEE ONLY ..... 50¢
SPECIAL DELIVERY (2 pounds or less) ..... 45¢

POD Form 3800
July 1969

NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL

(See other side)

* GPO: 1970 O-397-466

No. 287425

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO Doris & Billy Roe	POSTMARK OR DATE 8/20/71
STREET AND NO.	
P.O., STATE AND ZIP CODE La Harpe, Kansas 66751	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES ▷ 1. Shows to whom and date delivered ..... 15¢ With delivery to addressee only ..... 65¢ 2. Shows to whom, date and where delivered .. 35¢ With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL — *(See other side)* — ★ GPO: 1970 O-397-488

No. 287426

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO Elvin Spencer	POSTMARK OR DATE 8/20/71
STREET AND NO. Rural Route #1	
P.O., STATE AND ZIP CODE Welda, Kansas 66091	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES ▷ 1. Shows to whom and date delivered ..... 15¢ With delivery to addressee only ..... 65¢ 2. Shows to whom, date and where delivered .. 35¢ With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL — *(See other side)* — ★ GPO: 1970 O-397-488

No. 287346

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO Carol & Glen Weldin	POSTMARK OR DATE 8/20/71
STREET AND NO. Rural Route #1	
P.O., STATE AND ZIP CODE Colony, Kansas 66015	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES ▷ 1. Shows to whom and date delivered ..... 15¢ With delivery to addressee only ..... 65¢ 2. Shows to whom, date and where delivered .. 35¢ With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL — *(See other side)* — ★ GPO: 1970 O-397-488

No. 287347

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO Ivan R. Spencer	POSTMARK OR DATE 8/20/71
STREET AND NO.	
P.O., STATE AND ZIP CODE Westphalia, Kansas 66093	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES ▷ 1. Shows to whom and date delivered ..... 15¢ With delivery to addressee only ..... 65¢ 2. Shows to whom, date and where delivered .. 35¢ With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL — *(See other side)* — ★ GPO: 1970 O-397-488

No. 287348

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO Raymond W. Spencer	POSTMARK OR DATE 8/20/71
STREET AND NO. Box 1086	
P.O., STATE AND ZIP CODE Carlsbad New Mexico 88220	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES ▷ 1. Shows to whom and date delivered ..... 15¢ With delivery to addressee only ..... 65¢ 2. Shows to whom, date and where delivered .. 35¢ With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL — *(See other side)* — ★ GPO: 1970 O-397-488

No. 287349

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO: Merland, Inc. c/o Wm. H. Merchant, Jr.	POSTMARK OR DATE
STREET AND NO.: Box 548	8/20/71
P.O., STATE AND ZIP CODE: Carlsbad New Mexico 88220	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES: 1. Shows to whom and date delivered ..... 15¢ With delivery to addressee only ..... 65¢ 2. Shows to whom, date and where delivered .. 35¢ With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL — *(See other side)* — * GPO: 1970 O-397-466

No. 287350

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO: Mildred Freeman	POSTMARK OR DATE
STREET AND NO.: 1210½ Kings Highway	8/20/71
P.O., STATE AND ZIP CODE: Dallas, Texas 75208	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES: 1. Shows to whom and date delivered ..... 15¢ With delivery to addressee only ..... 65¢ 2. Shows to whom, date and where delivered .. 35¢ With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL — *(See other side)* — * GPO: 1970 O-397-466

No. 287351

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO: Mrs. Edith Perry	POSTMARK OR DATE
STREET AND NO.: 307 Sunset Court	8/20/71
P.O., STATE AND ZIP CODE: Arlington Texas 76010	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES: 1. Shows to whom and date delivered ..... 15¢ With delivery to addressee only ..... 65¢ 2. Shows to whom, date and where delivered .. 35¢ With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL — *(See other side)* — * GPO: 1970 O-397-466

No. 287352

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO: Mrs. Gladys Parmer	POSTMARK OR DATE
STREET AND NO.: 1107 Kings Highway	8/20/71
P.O., STATE AND ZIP CODE: Dallas Texas 75208	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES: 1. Shows to whom and date delivered ..... 15¢ With delivery to addressee only ..... 65¢ 2. Shows to whom, date and where delivered .. 35¢ With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL — *(See other side)* — * GPO: 1970 O-397-466

No. 287353

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO: Mrs. June Carter Dunagan	POSTMARK OR DATE
STREET AND NO.: 212 Stevens	8/20/71
P.O., STATE AND ZIP CODE: Carlsbad New Mexico 88220	
OPTIONAL SERVICES FOR ADDITIONAL FEES	
RETURN RECEIPT SERVICES: 1. Shows to whom and date delivered ..... 15¢ With delivery to addressee only ..... 65¢ 2. Shows to whom, date and where delivered .. 35¢ With delivery to addressee only ..... 85¢	
DELIVER TO ADDRESSEE ONLY ..... 50¢	
SPECIAL DELIVERY (2 pounds or less) ..... 45¢	

POD Form 3800 July 1969 — NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL — *(See other side)* — * GPO: 1970 O-397-466

No. 287354

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO: A. M. Routh	POSTMARK OR DATE: 6/30/71
STREET AND NO.: Midland Tower Building	
P.O., STATE AND ZIP CODE: Midland Texas 79701	

OPTIONAL SERVICES FOR ADDITIONAL FEES

RETURN RECEIPT SERVICES:
1. Shows to whom and date delivered ..... 15¢
With delivery to addressee only ..... 65¢
2. Shows to whom, date and where delivered .. 35¢
With delivery to addressee only ..... 85¢

DELIVER TO ADDRESSEE ONLY ..... 50¢
SPECIAL DELIVERY (2 pounds or less) ..... 45¢

POD Form 3800 July 1969

NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL

(See other side)

* GPO: 1970 O-397-466

No. 287355

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO: Missouri-New Mexico Land Co.	POSTMARK OR DATE: 6/30/71
STREET AND NO.: 730 Vine St.	
P.O., STATE AND ZIP CODE: Batesville, Ark. 72501	

OPTIONAL SERVICES FOR ADDITIONAL FEES

RETURN RECEIPT SERVICES:
1. Shows to whom and date delivered ..... 15¢
With delivery to addressee only ..... 65¢
2. Shows to whom, date and where delivered .. 35¢
With delivery to addressee only ..... 85¢

DELIVER TO ADDRESSEE ONLY ..... 50¢
SPECIAL DELIVERY (2 pounds or less) ..... 45¢

POD Form 3800 July 1969

NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL

(See other side)

* GPO: 1970 O-397-466

No. 287356

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO: Howard P. Hemler	POSTMARK OR DATE: 6/30/71
STREET AND NO.: Frijoli Road	
P.O., STATE AND ZIP CODE: Carlsbad, New Mexico 88220	

OPTIONAL SERVICES FOR ADDITIONAL FEES

RETURN RECEIPT SERVICES:
1. Shows to whom and date delivered ..... 15¢
With delivery to addressee only ..... 65¢
2. Shows to whom, date and where delivered .. 35¢
With delivery to addressee only ..... 85¢

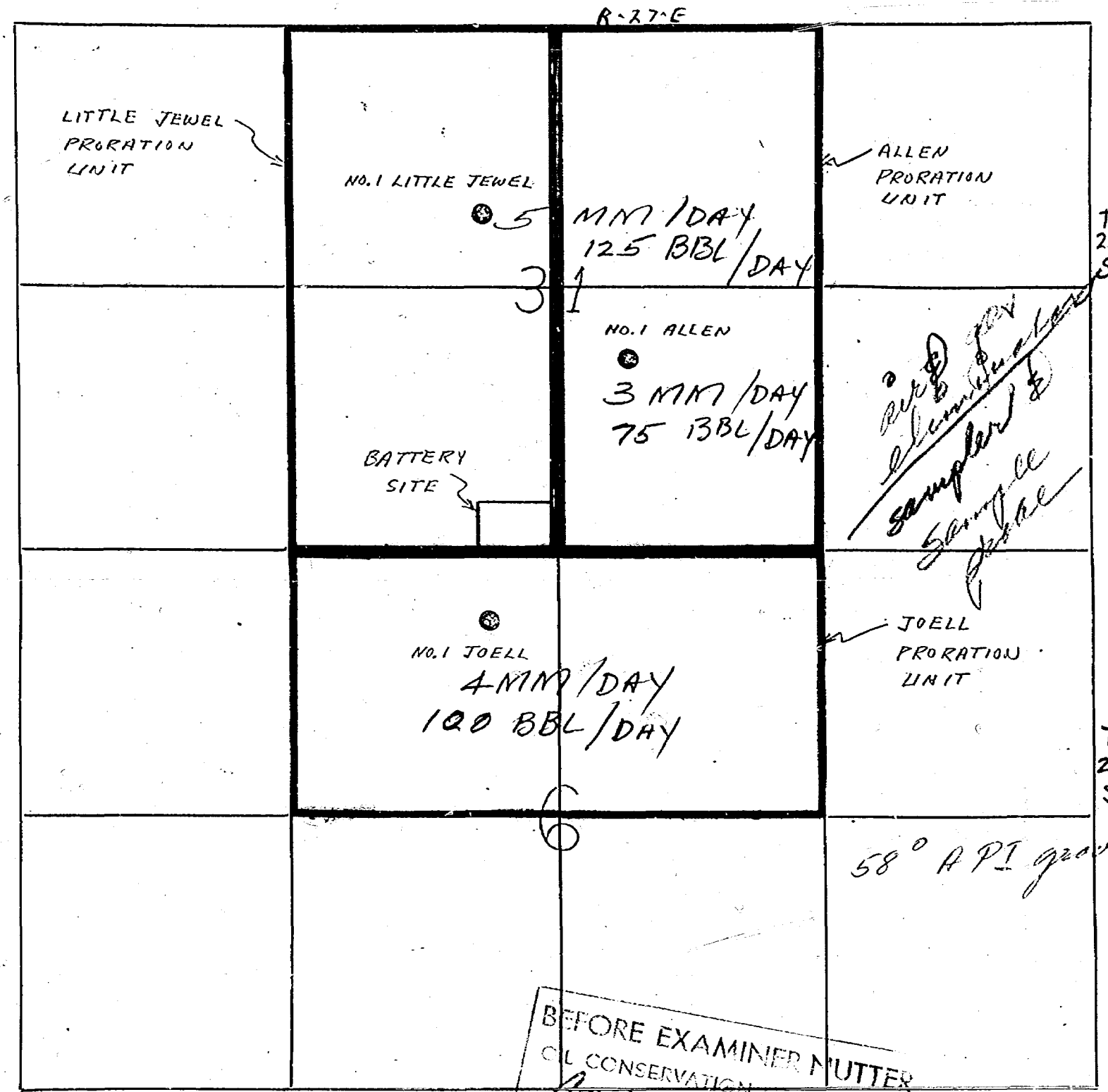
DELIVER TO ADDRESSEE ONLY ..... 50¢
SPECIAL DELIVERY (2 pounds or less) ..... 45¢

POD Form 3800 July 1969

NO INSURANCE COVERAGE PROVIDED—NOT FOR INTERNATIONAL MAIL

(See other side)

* GPO: 1970 O-397-466



LEASE AND WELL PLAT

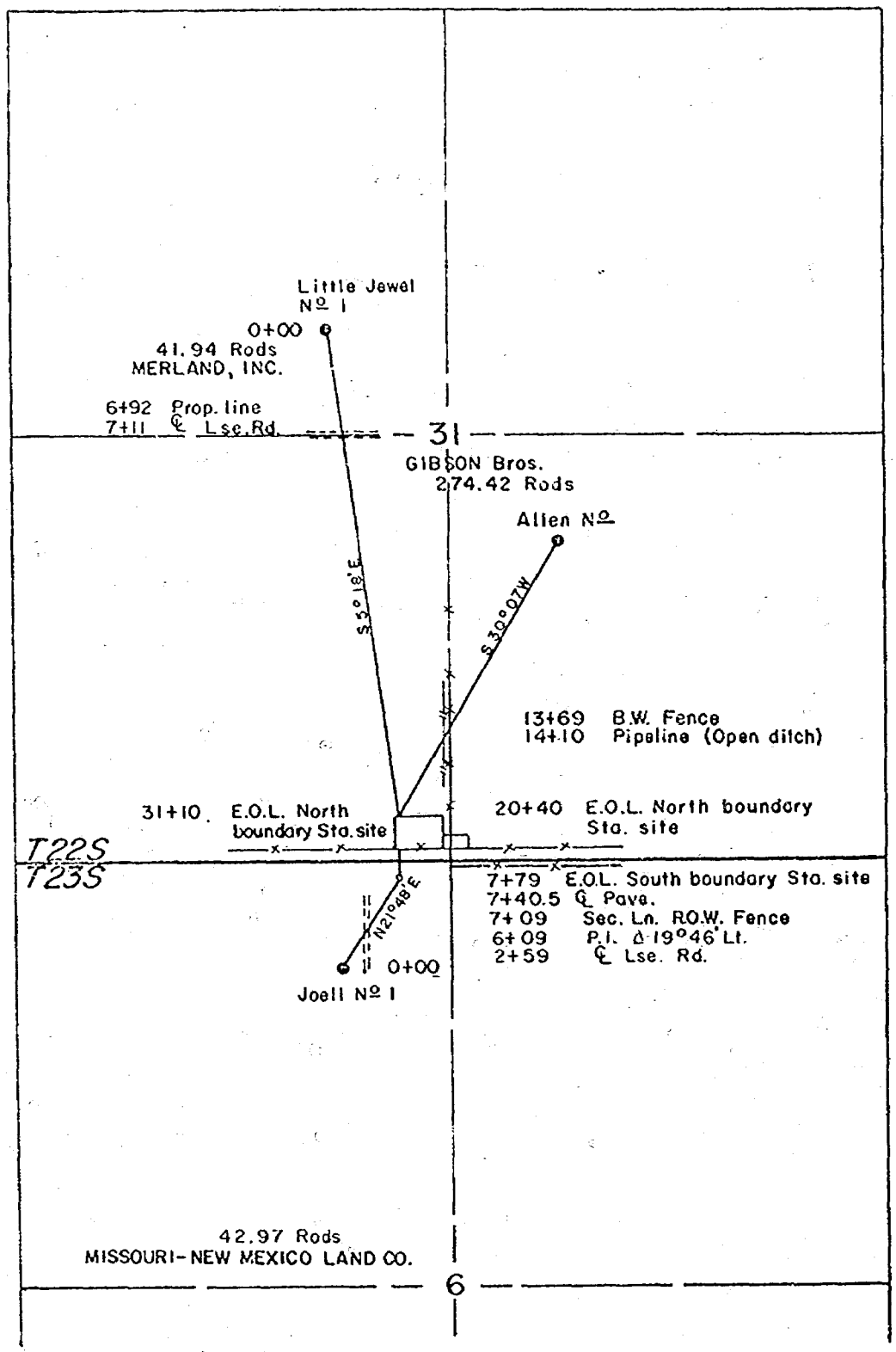
MORRIS R. ANTWEIL - APPLICATION FOR ADMINISTRATIVE APPROVAL OF LEASE COMMINGLING AND OFF-LEASE STORAGE, SOUTH CARLSBAD (STRAWN) FIELD, EDDY COUNTY.

NO.1 LITTLE JEWEL - F-31-22-27
STRAWN-MORROW DUAL

NO.1 ALLEN - J-31-22-27
STRAWN-MORROW DUAL

NO.1 JOELL - C-6-23-27
STRAWN COMPLETION

Ex 1



REGISTERED PROF. ENGINEER & LAND SURVEYOR
STATE OF NEW MEXICO
676
JOHN W. WEST

CASE NO. 4597

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD IN A BONA FIDE SURVEY MADE UNDER MY SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

John W. West

JOHN W. WEST, N.M. P.E. & L.S. NO. 676
TEXAS R.P.S. NO. 1138

MORRIS R. ANTWEIL

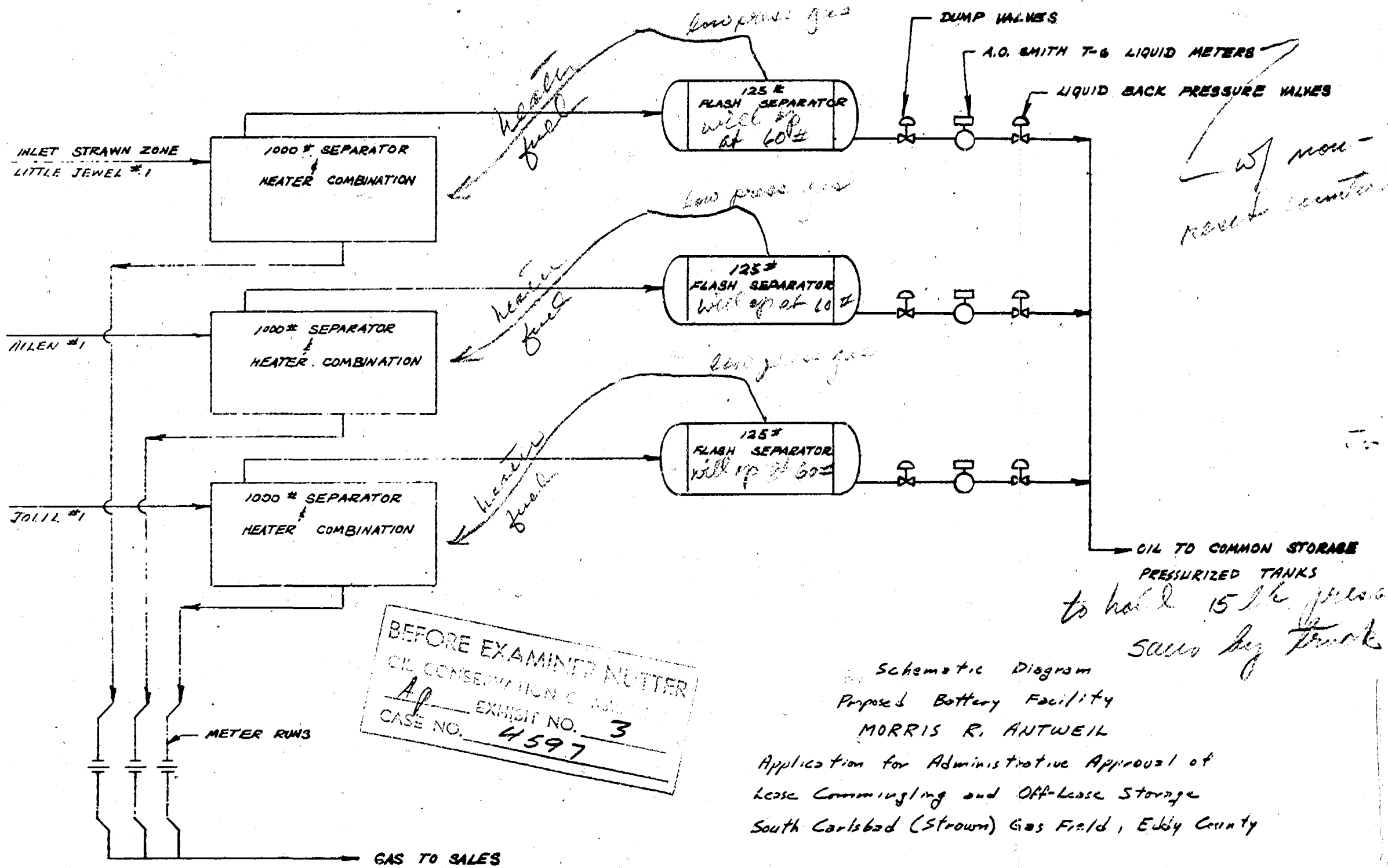
HOBBS NEW MEXICO

PROPOSED 2" NATURAL GAS PIPELINE CROSSING SECTION 31, TOWNSHIP 22 SOUTH, RANGE 27 EAST AND SECTION 6, TOWNSHIP 23 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

JOHN W. WEST ENGINEERING COMPANY
CONSULTING ENGINEERS HOBBS, NEW MEXICO

Scale 1"=1000'	Drawn by M.C.T.
Date 8-26-71	Sheet 1 of 1 Sheets

X-2



BEFORE EXAMINER NUTTER
OIL CONSERVATION COMM.
Ap EXHIBIT NO. 3
CASE NO. 4597

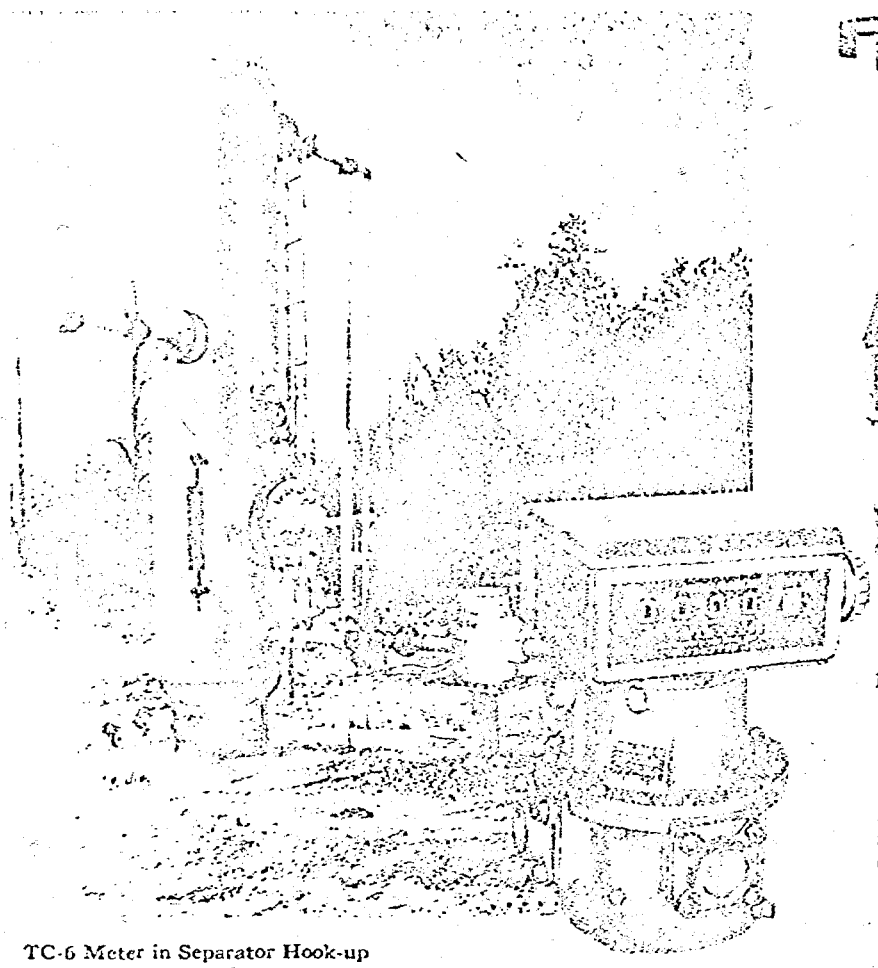
Schematic Diagram
Proposed Battery Facility
MORRIS R. ANTWEIL
Application for Administrative Approval of
Lease Commingling and Off-Lease Storage
South Carlsbad (Strawn) Gas Field, Eddy County

X-3

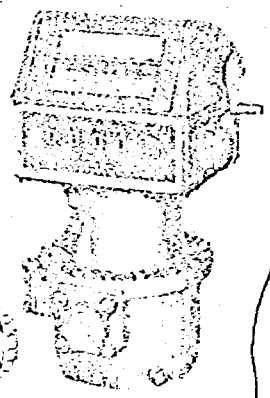
Smith Bulletin 212

MODEL T-6 METER

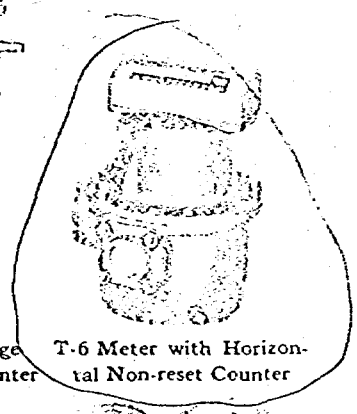
150 PSI, 12 to 60 GPM
17 to 86 BPH



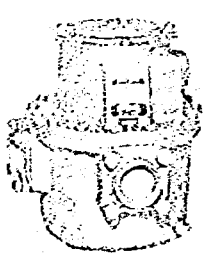
TC-6 Meter in Separator Hook-up



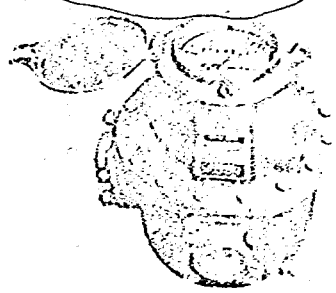
T-6 Meter with Large Numeral Counter Printer



T-6 Meter with Horizontal Non-reset Counter



T-6 Meter with Large Numeral Counter



* TC-6 Meter with Integral Counter

* TC-6 Meter (open view)

Ideally Suited for . . .

GENERAL METERING APPLICATIONS

CRUDE OIL PRODUCTION

ALLOCATION and NATURAL GASOLINE

FEATURES . . .

The A. O. Smith Model T-6 Meter is a positive displacement, single case, cast iron angle meter (90° inlet and outlet) designed for 150 psig working pressure. Connections are 1½" NPT tapped steel, 4-hole flanges which make it easily removable from the piping. Standard construction is close grained cast iron body, cover and rotor, special aluminum blades, stainless steel ball bearings and steel cam. The T-6 is also available in all iron trim for Sour Crude and Emulsion Applications.

Available in U. S. Gallons, U. S. Barrels, Imperial Gallons and Dekaliter registrations.

ADJUSTMENT . . .

Accuracy adjustment can be made in increments of one-twentieth of one percent without loss of liquid by the easily accessible adjusting knob on the meter adaptor. NOTE: (No adjustment available for TC-6).

INSTALLATION . . .

An almost unlimited number of combinations and arrangements are possible with the T-6 meter. Meter inlet and outlet openings are identical in size and shape and are located 90° apart. Since the meter rotor will revolve in either direction the meter may be reversed simply by interchanging the inlet and outlet fittings and interchanging two gears located below the calibrator.

ACCESSORIES . . .

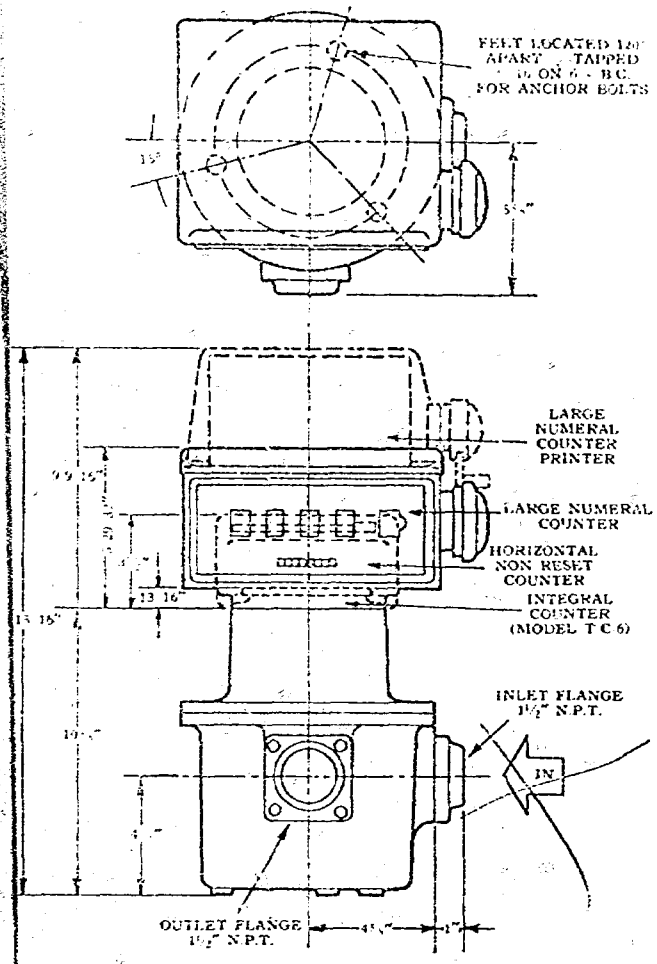
The Model T-6 Meter can be equipped with other Automatic Temperature Compensation, Automatic Temperature-Gravity Selection and most other A. O. Smith Accessories such as Model 424 Monthly Allowable Set-Stop Counter.

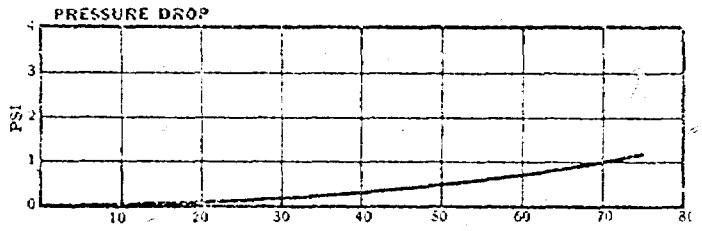
See reverse side for additional information.

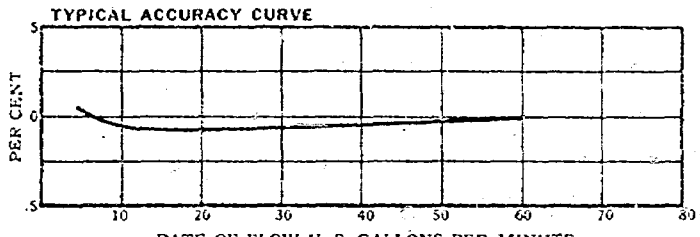
*TC-6 METER—The A. O. Smith Model TC-6 Meter is designed to provide low cost measurement with the same accuracy as the standard T-6 Meter. It can only be supplied as shown above, with integral Dial Type Counter reading in 42-gal. barrels by 1000ths, maximum totalizer reading 99,999.9 barrels. No accuracy adjustment is included, and a factor must be applied to correct the indicated registration to unity. The meter will not accept any of the usual A. O. Smith accessories, such as temperature compensation, etc. Available in both standard and all iron trim.

X 4

DIMENSIONS (Inches)







SPECIFICATIONS:

12 to 60 GPM, 17 to 86 BPH Capacity; 150 Maximum PSI Working Pressure; 1½" NPT Tapped Steel Flanges.

Materials of Construction: Close grained cast iron body, cover and rotor; Blades of Special Aluminum Alloy; Stainless steel ball bearings; Steel cam. All iron trim available.

FACTORY:
1602 Wagner Avenue,
Erie, Pennsylvania 16512

SALES OFFICES:
660 Miami Circle, N. E.,
Atlanta, Georgia 30324

605 Third Avenue
New York, New York 10016

30 W. Monroe Street,
Chicago, Illinois 60603

1712 1st City Nat. Bk. Bldg.,
Houston, Texas 77002

3622 East 11th Street,
Tulsa, Oklahoma 74112

2257 Saybrook Ave., S.,
Los Angeles, California 90022

A. O. Smith International, S. A.,
P. O. Box 331,
Milwaukee, Wisconsin 53201

REPRESENTATIVE:

A. O. Smith
METER & SERVICE STATION
EQUIPMENT DIVISION

DIVISION OF INTERESTS

Morris R. Antweil No. 1 Allen J - 31 - 22 - 27
Strawn Gas Proration Unit - E/2 Sec. 31 - 22 - 27

Morris R. Antweil	0.30615232	WI
Mabee Petroleum Corp.	0.30615232	WI
Delta Drilling Co.	0.20410157	WI
Loren S. Murphy	0.00260417	RI
Wayne V. Murphy	0.00260417	RI
Cora M. Adcock	0.00260417	RI
Clinton F. Spencer	0.00130208	RI
Burl D. Spencer	0.00130208	RI
Doris Roe and Billy Roe	0.00130208	RI
Elvin Spencer	0.00130208	RI
Carol Weldin and Glen Weldin	0.00130208	RI
Ivan R. Spencer	0.00130208	RI
Raymond W. Spencer	0.04687500	RI
U. S. Petroleum Corp.	0.06250000	RI
The Superior Oil Co.	0.03125000	ORRI
Cal-Mon Oil Company	0.01367190	ORRI
R. E. Lawson, Jr.	0.01367190	ORRI

Morris R. Antweil No. 1 Little Jewel F - 31 - 22 - 27
Strawn Gas Proration Unit - W/2 Sec. 31 - 22 - 27

Morris R. Antweil	0.21090093	WI
Mabee Petroleum Corp.	0.21090093	WI
Delta Drilling Co.	0.14060063	WI
Merland, Inc.	0.06246750	RI
Mildred Freeman	0.01250650	RI
Edith Perry	0.01250650	RI
Gladys Parmen	0.01250650	RI
June Carter Dunagan	0.01250650	RI
A. M. Routh	0.00937988	RI
Lyle Walker	0.00312663	RI
Mobil Oil Corp.	0.06246750	ORRI
The Superior Oil Co.	0.25013000	ORRI

Morris R. Antweil No. 1 Joell C - 6 - 23 - 27
Strawn Gas Proration Unit - N/2 Sec. 6 - 23 - 27

Morris R. Antweil	0.29435791	WI
Mabee Petroleum Corp	0.29435791	WI
Delta Drilling Co.	0.19623857	WI
Missouri-New Mexico Land Co.	0.06214125	RI
Howard P. Hemler	0.03142938	RI
Lyle L. Walker	0.03142938	RI
Cal-Mon Oil Co.	0.01359342	ORRI
R. E. Lawson	0.01359342	ORRI
Mobil Oil Corp.	0.03142938	ORRI
Pennzoil United, Inc.	0.02258988	ORRI
Atapaz Petroleum, Inc.	0.00883950	ORRI

The above interests are the original revenue interests. The provisions of several of the agreements effect the magnitude of several of the ORRI's and the WI's after payout of the drilling and completion costs.

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 5
CASE NO. 4597

Morris R. Antweil
OIL OPERATOR
P. O. Box 2010
HOBBS, NEW MEXICO 88240

August 20, 1971

Case 4597

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

REFERENCE: Application for Administrative Approval of Lease Commingling and Off-Lease Storage, Gas and Gas Condensate Production, South Carlsbad (Strawn) Field, Eddy County, New Mexico

Dear Sir:

Morris R. Antweil respectfully requests administrative approval of lease commingling and off-lease storage, as provided in Rules 309-B and 309-C, respectively, to handle the gas condensate production from our No. 1 Allen, No. 1 Joell, and No. 1 Little Jewel wells in the South Carlsbad (Strawn) Gas Field.

The attached map shows the location of the three wells involved, the designated proration units, and the proposed location of the common battery facility. It is proposed to bring the full wellstream production from the three Strawn wells to the battery site for separation, sale of the gas, and common storage and sale of the condensate.

The attached schematic diagram shows the proposed facility. The full wellstream from each well will be handled through individual, combination heater-separator gas production units. The gas from each well will be individually measured through standard gas sales meters. The condensate separated from the full wellstream will be measured through individual A. O. Smith Model T-6 liquid meters which are temperature compensated. A back-pressure valve installed downstream of the meter will prevent any gas being evolved from the liquid during metering and insure accurate liquid measurements. The high pressure separator units are equipped for 3-phase separation to remove any trace of water from the flow stream. It is proposed to commingle the condensate production, following metering, into common storage in pressurized (25 psi) storage tanks. As sales

are made from the common storage, the volume of condensate sold will be allocated to the individual wells on the basis of the liquid meter readings.

The installation we proposed provides for the accurate measurement and recording of both the gas and condensate production from each of the three wells producing into this battery facility. We believe the proposed installation meets the requirements in all essential respects for administrative approval of the off-lease measurement and storage and the lease commingling of the condensate production.

A copy of this application is being furnished to each of the interest owners in the production from these three wells as shown by the attached tabulation of ownership. Such notice will be made by certified mail and we will furnish you the receipts of mailing by separate cover.

We trust that our application will receive your favorable consideration. Please call if any further information is required as we are intending to make our gas sales connection to Llano, Inc. on or about 16 September 1971.

Respectfully,

MORRIS R. ANTWEIL

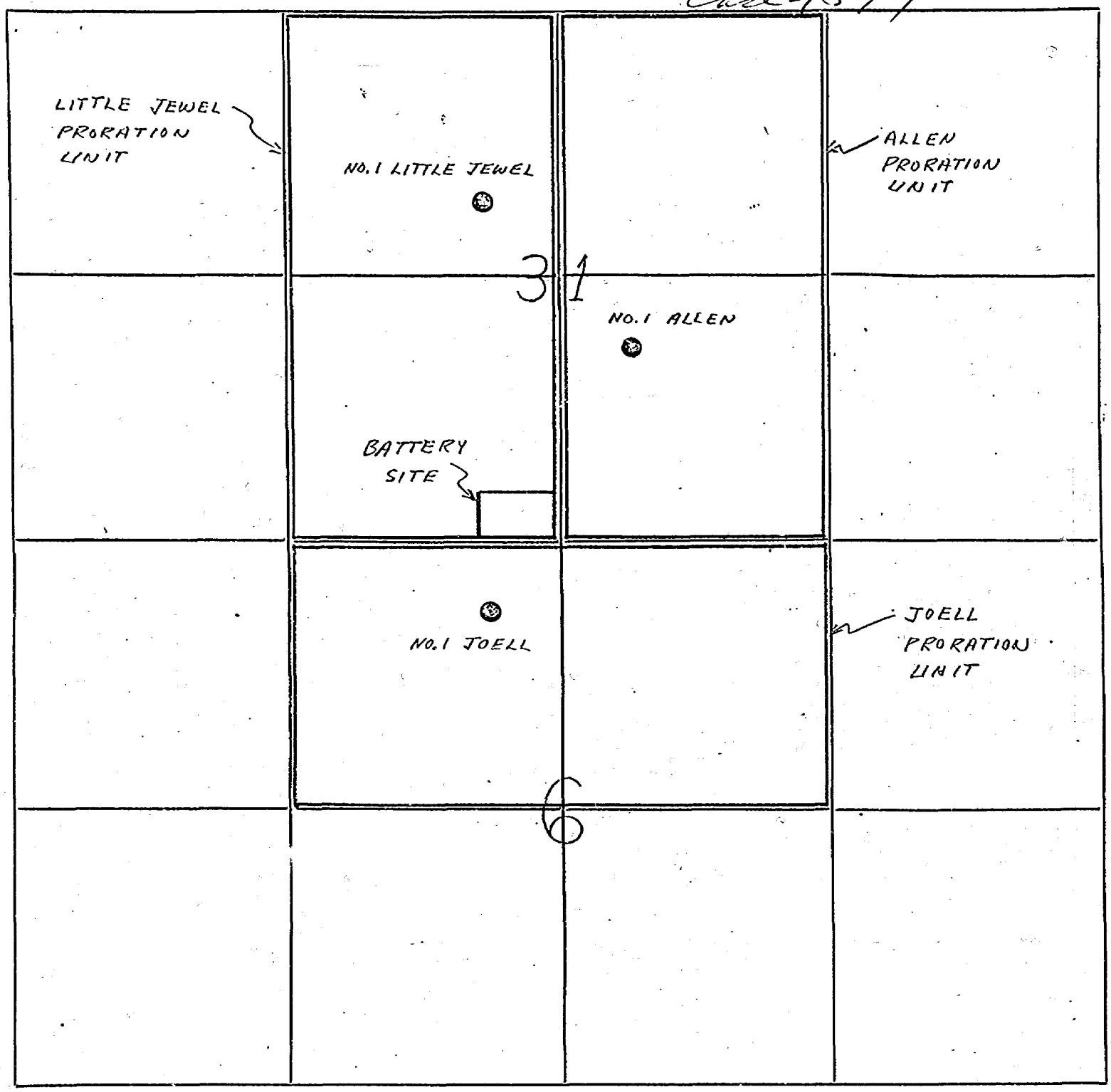
R M Williams

R. M. Williams

RMW/lm

Enclosures

Case 4597



LEASE AND WELL PLAT

MORRIS R. ANTWEIL - APPLICATION FOR ADMINISTRATIVE APPROVAL OF LEASE COMMINGLING AND OFF-LEASE STORAGE, SOUTH CARLSBAD (STRAWN) FIELD, EDDY COUNTY.

NO. 1 LITTLE JEWEL - F-31-22-27
STRAWN - MORROW DUAL

NO. 1 ALLEN - J-31-22-27
STRAWN - MORROW DUAL

NO. 1 JOELL - C-6-23-27
STRAWN COMPLETION

DUMP VALVES

A.O. SMITH T-6 LIQUID METERS

LIQUID BACK PRESSURE VALVES

INLET STRAWN ZONE
LITTLE JEWEL #1

1000# SEPARATOR & HEATER COMBINATION

125# FLASH SEPARATOR

ALLEN #1

1000# SEPARATOR & HEATER COMBINATION

125# FLASH SEPARATOR

JOLL #1

1000# SEPARATOR & HEATER COMBINATION

125# FLASH SEPARATOR

OIL TO COMMON STORAGE
PRESSURIZED TANKS

METER RUNS

GAS TO SALES

Schematic Diagram
Proposed Battery Facility
MORRIS R. ANTWEIL
Application for Administrative Approval of
Lease Commingling and Off-Lease Storage
South Carlsbad (Strawn) Gas Field, Eddy County

Case 4597

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Burl D. Spencer	0.00130208	RI
Doris Roe and Billy Roe	0.00130208	RI
Elvin Spencer	0.00130208	RI
Carol Weldin and Glen Weldin	0.00130208	RI
Ivan R. Spencer	0.00130208	RI
Raymond W. Spencer	0.04687500	RI
U. S. Petroleum Corp.	0.06250000	RI
The Superior Oil Co.	0.03125000	ORRI
Cal-Mon Oil Company	0.01367190	ORRI
R. E. Lawson, Jr.	0.01367190	ORRI

Morris R. Antweil No. 1 Little Jewel F - 31 - 22 - 27
Strawn Gas Proration Unit - W/2 Sec. 31 - 22 - 27

Morris R. Antweil	0.21090093	WI
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Merland, Inc.	0.06246750	RI
Mildred Freeman	0.01250650	RI
Edith Perry	0.01250650	RI
Gladys Parmen	0.01250650	RI
June Carter Dunagan	0.01250650	RI
A. M. Routh	0.00937988	RI
Lyle Walker	0.00312663	RI
Mobil Oil Corp.	0.06246750	ORRI
The Superior Oil Co.	0.25013000	ORRI

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Strawn Gas Proration Unit - N/2 Sec. 6 - 23 - 27

Morris R. Antweil	0.29435791	WI
Mabee Petroleum Corp	0.29435791	WI
Delta Drilling Co.	0.19623857	WI
Missouri-New Mexico Land Co.	0.06214125	RI
Howard P. Hemler	0.03142938	RI
Lyle L. Walker	0.03142938	RI
Cal-Mon Oil Co.	0.01359342	ORRI
R. E. Lawson	0.01359342	ORRI
Mobil Oil Corp.	0.03142938	ORRI
Pennzoil United, Inc.	0.02258988	ORRI
Atapaz Petroleum, Inc.	0.00883950	ORRI

The above interests are the original revenue interests. The provisions of several of the agreements effect the magnitude of several of the ORRI's and the WI's after payout of the drilling and completion costs.

Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Oil Conservation Commission
District II
Drawer DD
Artesia, New Mexico 88210

Morris R. Antweil
P. O. Box 2010
Hobbs, New Mexico 88240

Mabee Petroleum Corporation
201 First Savings Building
Midland, Texas 79701
ATTENTION: E. H. Scobey

Delta Drilling Company
P. O. Box 866
Odessa, Texas 79760
ATTENTION: Jack Lyle

Superior Oil Company
P. O. Box 1900
Midland, Texas 79701
ATTENTION: Engineering Dept.

Mobil Oil Corporation
P. O. Box 633
Midland, Texas 79701
ATTENTION: R. P. McMurtry

Pennzoil & Atapaz, Inc.
P. O. Box 1828
Midland, Texas 79701

Cal Mon Oil Company
P. O. Box 3275
Midland, Texas 79701

R. E. Lawson, Jr.
207 Chancellor Building
Midland, Texas 79701

Lyle L. Walker
Drawer 1479
Clovis, New Mexico 88101

U. S. Petroleum Corporation
P. O. Box 8026
Longview, Texas 75601

Loren S. Murphy
4258 - 47th Street
San Diego, California 92101

Wayne V. Murphy
920 Monroe Street
Galesburg, Illinois 61401

Cora M. Adcock
3122 - 44th Street
San Diego, California 92101

Clinton F. Spencer
c/o Service Pipe Line Company
Magnolia, Arkansas 71753

Byrl D. Spencer
Westphalia, Kansas 66093

Doris and Billy Roe
La Harpe, Kansas 66751

Elvin Spencer
Rural Route #1
Welda, Kansas 66091

Carol and Glen Weldin
Rural Route #1
Colony, Kansas 66015

Ivan R. Spencer
Westphalia, Kansas 66093

Raymond W. Spencer
P. O. Box 1086
Carlsbad, New Mexico 88220

Merland, Inc.
c/o William H. Merchant, Jr.
P. O. Box 548
Carlsbad, New Mexico 88220

Mrs. Mildred Freeman
1210½ Kings Highway
Dallas, Texas 75208

Mrs. Edith Perry
307 Sunset Court
Arlington, Texas 76010

Mrs. Gladys Parmer
1107 Kings Highway
Dallas, Texas 75208

Mrs. June Carter Dunagan
212 Stevens
Carlsbad, New Mexico 88220

A. M. Routh
Midland Tower Building
Midland, Texas 79701

Missouri-New Mexico Land Co.
730 Vine Street
Batesville, Arkansas 72501
ATTENTION: Mr. E. H. Musgrave

Howard P. Hemler
Frijoli Road
Carlsbad, New Mexico 88220

DRAFT

GMH/dr

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. 4597

Order No. R- 4195

APPLICATION OF MORRIS R. ANTWEIL FOR
LEASE COMMINGLING AND OFF-LEASE
STORAGE, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on September 15, 1971, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this _____ day of September, 1971, 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 the applicant, Morris R. Antweil, is the operator of the Little Jewel Well No. 1 and Allen Well No. 1 located in Units F and J, respectively, of Section 31, Township 22 South, Range 27 East, and the Joell Well No. 1 located in Unit C of Section 6, Township 23 South, Range 27 East, NMPM, South Carlsbad-Strawn Gas Pool, Eddy County, New Mexico.

(3) That the applicant proposes to pipe the wet gas streams from each of the aforesaid wells to a central battery located in the SE/4 SW/4 of said Section 31 and to pass the production from each of the aforesaid wells into an individual 1000-pound separator-heater combination.

(4) That the gas production from each of the aforesaid separators would thence pass through individual sales meters into the pipeline.

(5) That the liquid production from each of the aforesaid separators would thence pass into a 125-pound low pressure flash separator, with the gas production from said low pressure separators being used to fuel the heaters described in finding No. (3) above.

(6) That the liquid production from each of the aforesaid low pressure separators would then be commingled in a common pressurized tank after passing through a strainer and after being separately and continuously metered by temperature-compensated meters installed upstream from liquid back pressure valves.

(7) That the installation of air and gas eliminators should not be required.

(8) That continuous type samplers or sampler probes should be installed in each liquid stream.

(9) That approval of the application in accordance with Findings Nos. (3) through (8) above will result in economic savings to the operator, prevent waste, and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Morris R. Antweil, is hereby authorized to commingle the condensate produced from his Little Jewel Well No. 1 and Allen Well No. 1 located in Units F and J, respectively, of Section 31, Township 22 South, Range 27 East, NMPM, and his Joell Well No. 1 located in Unit C of Section 6, Township 23 South, Range 27 East, NMPM, South Carlsbad-Strawn Gas Pool, Eddy County, New Mexico, after separation and measurement of the liquids from each well in accordance with Findings No. (3) through (8) above.

(2) That the above-described commingling installation shall be operated in accordance with the provisions of the Commission's "Manual for the Installation and Operation of Commingling Facilities," insofar as said provisions are not in conflict with this order.

(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 hereinabove designated.

CASE 4598: Appli. of CONTINENTAL FOR AN EXCEPTION TO ORDER NO. R-2408, & A DUAL COMPLETION.