

CASE 2852: Application of ANERADA
for a triple completion and for
commingling, Lea County, N.M.

Case No.

2852

Application, Transcript,
Small Exhibits, Etc.

KELLAHIN AND FOX
ATTORNEYS AT LAW
54½ EAST SAN FRANCISCO STREET
POST OFFICE BOX 1713
SANTA FE, NEW MEXICO

June 19, 1963

Case 2852

FILED

11 07

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

Gentlemen:

Enclosed, in triplicate, is the application of Amerada Petroleum Corporation for approval of a triple completion of its State NJ "A" No. 1 well, located in the North Justis Pool, Lea County New Mexico.

We request that this application be set for hearing before the Commission's examiner at the earliest practicable date.

Yours very truly,

Jason W. Kellahin
Jason W. Kellahin

JWK:ss

DOCKET MAILED

Date *6/28/63*

County, New Mexico, including the conversion of additional wells to water injection.

CASE 2854:

Application of Pan American Petroleum Corporation for an unorthodox location and a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its SMU Well No. 15 to produce oil from the Fowler-Blinebry and Fowler-Ellenburger Pools through parallel strings of tubing, said well to be at an unorthodox location for the Fowler-Ellenburger Pool at a point 660 feet from the North and East lines of Section 22, Township 24 South, Range 37 East, Lea County, New Mexico.

CASE 2855:

Application of Pan American Petroleum Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its SMU Well No. 1 located in Unit J of Section 15, Township 24 South, Range 37 East, Lea County, New Mexico, to produce oil from the Fowler-Blinebry and Fowler-Ellenburger Pools through parallel strings of tubing.

CASE 2856:

Application of Socony Mobil Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the dual completion (conventional) of its State Bridges No. 97 well located in Unit O of Section 26, Township 17 South, Range 34 East, Lea County, New Mexico, to produce oil from the Blinebry and Glorieta formations, Vacuum Field, through parallel strings of 1.61 inch I.D. tubing.

CASE 2575:

(Reopened)

In the matter of Case No. 2575 being reopened pursuant to the provisions of Order No. R-2267, which order established temporary 80-acre oil proration units and 320-acre gas proration units for the Lybrook-Gallup Pool, Rio Arriba 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 160-acre gas and 40-acre oil spacing.

CASE 2857:

Application of Standard Oil Company of Texas for special pool rules, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of special pool rules for the Boulder-Mancos Oil Pool, Rio Arriba County, New Mexico, including provisions for 80-acre spacing therein.

CASE 2858:

Application of Standard Oil Company of Texas for special pool rules, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of special pool rules for the La Plata-Gallup Oil Pool, San Juan County, New Mexico, including provisions for 80-acre spacing therein.

iqg/

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 10, 1963

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, as alternate examiner:

- CASE 2848: Application of Skelly Oil Company for a unit agreement, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval of its East Bisti Unit Area comprising 17,812 acres of Federal, State and Indian lands in Townships 24 and 25 North, Ranges 9, 10, and 11 West, San Juan County, New Mexico.
- CASE 2849: Application of Skelly Oil Company for a waterflood project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in the Bisti Lower-Gallup Oil Pool, San Juan County, New Mexico, by the injection of water into the Gallup formation through 34 wells in its East Bisti Unit Area.
- CASE 2850: Application of Shell Oil Company for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the East Pearl-Queen Unit Area comprising 2440 acres of State and Fee lands in Township 19 South, Range 35 East, Lea County, New Mexico.
- CASE 2851: Application of Shell Oil Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project on its East Pearl Queen Unit by the injection of water into the Queen formation through 29 wells in Sections 15, 21, 22, 26, 27, 34 and 35, Township 19 South, Range 35 East, Lea County, New Mexico.
- CASE 2852: Application of Amerada Petroleum Corporation for a triple completion and for commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (combination) of its State NJ "A" Well No. 1 located in Unit A of Section 2, Township 25 South, Range 37 East, North Justis Field, Lea County, New Mexico, to produce oil from the McKee and Ellenburger zones through 1- $\frac{1}{2}$ inch tubing inside parallel strings of 3- $\frac{1}{2}$ inch casing and from the Montoya zone through 1- $\frac{1}{2}$ inch tubing inside 2- $\frac{7}{8}$ inch casing, all casing strings to be cemented in a common well bore. Applicant further seeks to add the Montoya zone to the commingling authority previously granted by Administrative Order No. PC-84.
- CASE 2853: Application of Humble Oil & Refining Company for an amendment to Order No. R-2154, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval of the expansion of its Cha Cha-Gallup Pressure Maintenance Project, San Juan

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
July 10, 1963

EXAMINER HEARING

IN THE MATTER OF:

Application of Amerada Petroleum Corporation for a triple completion and for commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the triple completion (combination) of its State NJ "A" Well No. 1 located in Unit A of Section 2, Township 25 South, Range 37 East, North Justis Field, Lea County, New Mexico, to produce oil from the McKee and Ellenburger zones through 1-1/2 inch tubing inside parallel strings of 3-1/2 inch casing and from the Montoya zone through 1-1/4 inch tubing inside 2-7/8 inch casing, all casing strings to be cemented in a common well bore. Applicant further seeks to add the Montoya zone to the commingling authority previously granted by Administrative Order No. PC-84.

CASE 2852

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING

MR. UTZ: Case 2852.

MR. DURRETT: Application of Amerada Petroleum Corporation for a triple completion and for commingling, Lea County, New Mexico.

MR. KELLAHIN: Jason Kellahin, Kellahin and Fox, Santa Fe, representing the Applicant, and we will have one witness I would like to have sworn, please.

(Witness sworn.)

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MR. UTZ: Are there any other appearances in this case?

You may proceed.

L. E. THOMAS

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A L. E. Thomas.

Q By whom are you employed and in what position, Mr. Thomas?

A I am employed by Amerada Petroleum Corporation as District Engineer in the New Mexico District.

Q Have you ever testified before the Oil Conservation Commission and made your qualifications a matter of record?

A I have.

MR. KELLAHIN: Are the witness' qualifications accepted?

MR. UTZ: Yes, they are.

Q (By Mr. Kellahin) In connection with the application of Amerada Petroleum Corporation in Case 2852 --

A Yes, sir.

Q -- would you state briefly what Amerada proposes in this application?

A We propose to complete this well as a triple completed oil well from the Montoya, McKee, and Ellenburger zones in the

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North Justis Area.

Q Do you also propose to commingle production from the basic lease involved?

A Yes, sir.

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

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

A Exhibit No. 1 is a plat showing the location of the well in question. The well is the State NJ "A" No. 1 located 660 feet from the north line, 660 feet from the east line of Section 2, Township 25 South, Range 37 East, Lea County, New Mexico, in the North Justis Area.

Q Now the Exhibit No. 1 also shows the offsetting ownership, does it not?

A Yes, it does.

Q Does it show the production from the various wells offsetting the lease?

A It shows the completed interval that the wells are completed in.

Q Referring to what has been marked as Exhibit No. 2, would you identify that exhibit, please?

A Exhibit No. 2 is the application for triple completion in the three zones mentioned, the Montoya, McKee, and Ellenburger, also showing the perforated interval in each of these zones.



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Q Does the exhibit also indicate that you contemplate using gas lift on two of the zones?

A It does.

Q Which two?

A The Montoya and the Ellenburger would be gas lifted.

Q Now referring to what has been marked as Exhibit No. 3, would you identify that exhibit and discuss the information shown thereon?

A Exhibit No. 3 is a schematic of the completion of this well. It shows the various strings of casing, cement tops, depths of the casings, the tubing and its depth, perforated intervals, tops of cement. Now in more detail, the three strings of casing include two strings of 3-1/2 inch casing set at 8559 and 8563, respectively. The 2-7/8 string of casing is set at 8566. The string labeled No. 1 is presently perforated in the McKee zone with perforated intervals from 7986 to 8105. This will be produced through 1-1/2 inch tubing with a packer set at 7912.

The string labeled No. 2 is the Ellenburger completion with perforations at 8444 to 8494. This will be completed through 1-1/2 inch tubing set at 8397. It will be gas lifted.

String No. 3 is the 2-7/8ths inch casing with perforations in the Montoya at 7175 to 7218. This will have 1-1/4 inch tubing set at approximately 7,000 feet, and that will be gas lifted.

I might mention that the cement behind these three



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strings of casing comes back up to a depth of 2975, which is up in the 10-3/4. So we will have either cement or another string of casing behind each of the strings of production casing.

Q All of the production will be through tubing?

A Right.

Q Referring to what has been marked as Exhibit No. 4, would you identify that exhibit and state what information is shown on it?

A The Exhibit No. 4 is a copy of the electric log, and it is marked with the perforated interval and the tops of the three zones in question.

Q This well has previously been approved as a triple completion, has it not?

A Yes, it has. In November of 1961, this well was completed as a triple completion in the Fusselman, McKee and Ellenburger zones and was approved by Order R-2164 dated January 17, 1962. It was completed in those three zones and produced until July of 1962 when mechanical problems were encountered, and additional tests were made on other zones that resulted in failure; and we wound up with a dual completion, one string of idle casing there, from June of 1962 until June of 1963, at which time we tested the Montoya and now request permission to triple complete the well.

Q What is the present status of the well?

A The well is completed in the three zones mentioned, the



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Montoya, McKee, and Ellenburger.

Q And you are gas lifting the Ellenburger at the present time, is that correct?

A Right.

Q And you propose to gas lift the Montoya?

A Yes.

Q Is that a practical completion for this type of well?

A Yes, this has been done in other wells in the area. The fact that we are using 1-1/4 inch tubing will make no difference on efficiency, so forth, or the mechanics of the well.

Q Have all of these zones been approved for triple completions and tubingless completions?

A They have. It is set up for administrative approval providing we have tubingless completions, but these are conventional.

Q That is the occasion for the hearing in this case?

A That's right.

Q In your opinion, will approval of this application result in the prevention of waste?

A Yes, it will. We at present have no production from the Montoya, and also we have an idle string of casing that can be utilized.

Q It is of no value unless this is approved, is that correct?

A Right.



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Q Referring to what has been marked as Exhibit No. 5, would you identify that exhibit and discuss the information shown on it?

A Exhibit No. 5 is a schematic diagram of our battery system in which we request permission to commingle production from the other well on the lease, which would mean we would have five oil zones commingled in this battery. They would be the Ellenburger, McKee, Montoya, Fusselman, and Blinebry. These are all sweet oil; all zones will be metered; and I might add that all of these zones have been submitted for administrative approval by Order PC-84, with the exception of the Montoya, which is the one we wish to add to this battery at this time.

Q How would the gravities of the Montoya compare with the others involved in this commingling?

A The comparative zone would be the Fusselman, and these gravities are similar, the Montoya being 37.2 degrees and the Fusselman 37 degrees. Ratios vary some, but not enough to warrant a great deal of concern.

Q What are the GOR's?

A The GOR on the Montoya is 846, on the Fusselman 423 in this well.

Q Would the approval of the commingling in any way reduce the value of the total product from the various zones?

A No, it would not.

Q Would it be in the interest of conservation and the



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prevention of waste?

A It would.

Q In what way?

A Since the battery is already set up to handle this number of zones, there would be no additional expense and we feel that this would be additional expense to separate this production.

Q Will you be able to account for the production from each zone separately with accuracy?

A Yes, we will.

Q What type of meters are you using?

A These are positive displacement type meters.

Q Were Exhibits 1 through 5 prepared by you or under your supervision?

A They were.

MR. KELLAHIN: I would like to offer Exhibits 1 through 5 inclusive.

MR. UTZ: Without objection, Exhibits 1 through 5 will be entered into the record of this case.

(Whereupon, Amerada's Exhibits Nos. 1 through 5, inclusive, received in evidence.)

MR. KELLAHIN: That's all the questions I have on direct examination, Mr. Utz.

MR. UTZ: Any questions of the witness?

CROSS EXAMINATION

BY MR. UTZ:



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Q Your surface casing in this case, which is 10-3/4, is circulated?

A I don't believe that they circulated. We found the top as 2210.

Q 2210?

A Yes, sir.

Q Your 16-inch is actually the surface casing, isn't it?

A Yes, it's down to 518.

Q That's circulated?

A No, we cemented with 700 sacks, which apparently should have brought it to the surface but it didn't.

Q What formations are between 2210 and 518 feet that might be contaminated or intermingled?

A In this area we have tested none of these zones. I think in that area the Rustler has been known to give up a little bit of water around a thousand feet. We have done no testing and the other fresh waters that we have experimented with are in the neighborhood of 275 feet, which would be behind even another string of pipe. On this Rustler, we feel like that since we are protected with an extra string of casing, that this shouldn't be bothered. If we detect a leak, we'll find it before it gets to that point.

Q What type of water is this, the Rustler?

A The Rustler?

Q Yes.



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A I understand it's kind of brackish, possibly not completely fresh but on the order of fresh water. This is also hearsay. We haven't tested it. I don't know for sure.

Q Is this commingling system that you have shown here on Exhibit 5, is that already installed?

A Yes, sir.

Q In operation?

A We had another zone completed at one time and used the separator system meters and so forth here on initial completion of the well, but this zone resulted in very short term work so we had an idle separator and meter and so forth already installed.

Q That's the one that you utilized for the Montoya?

A Yes, sir.

Q I believe you stated you already had approval for all the other zones?

A Right. Actually we are changing nothing on the lease or the well with the exception of just setting a bridge plug in that No. 3 string of casing and additionally perforating above that in the Montoya zone.

MR. UTZ: Any other questions of the witness? The witness may be excused.

(Witness excused.)

MR. UTZ: Any other statements in this case? The case will be taken under advisement.

* * *



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STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) ss

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

WITNESS my Hand and Seal this 18th day of July, 1963.

Ada Dearnley
NOTARY PUBLIC

My Commission Expires:
June 19, 1967.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2852, heard by me on July 10, 1963.
[Signature] Examiner
New Mexico Oil Conservation Commission



NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

APPLICATION FOR MULTIPLE COMPLETION

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

EXHIBIT NO. 3CASE NO. 2852

Operator Amerada Petroleum Corporation		County Lea	Date June 14, 1963
Address Box 668, Hobbs, New Mexico		Lease State NJ "A"	Well No. 1
Location or Well	Unit A	Section 2	Township 23-S
			Range 37-E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____; Operator, Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Montoya	McKee	Eilenburger
b. Top and Bottom of Pay Section (Perforations)	7175' to 7218'	7986' to 8105'	8444' to 8494'
c. Type of production (Oil or Gas)	Oil	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Gas Lift	Flow	Gas Lift

4. The following are attached. (Please mark YES or NO)

- Yes a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Yes b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- No c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
- No d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Tenaco, Inc.	P. O. Box 3109	Midland, Texas
Gulf Oil Corporation	P. O. Box 1150	Midland, Texas
U. S. Smelting, Ref. & Mining Company	P. O. Box 1877	Midland, Texas
Elwin & Hale	P. O. Box 667	Hobbs, New Mexico
Shell Oil Company	P. O. Box 845	Roswell, New Mexico

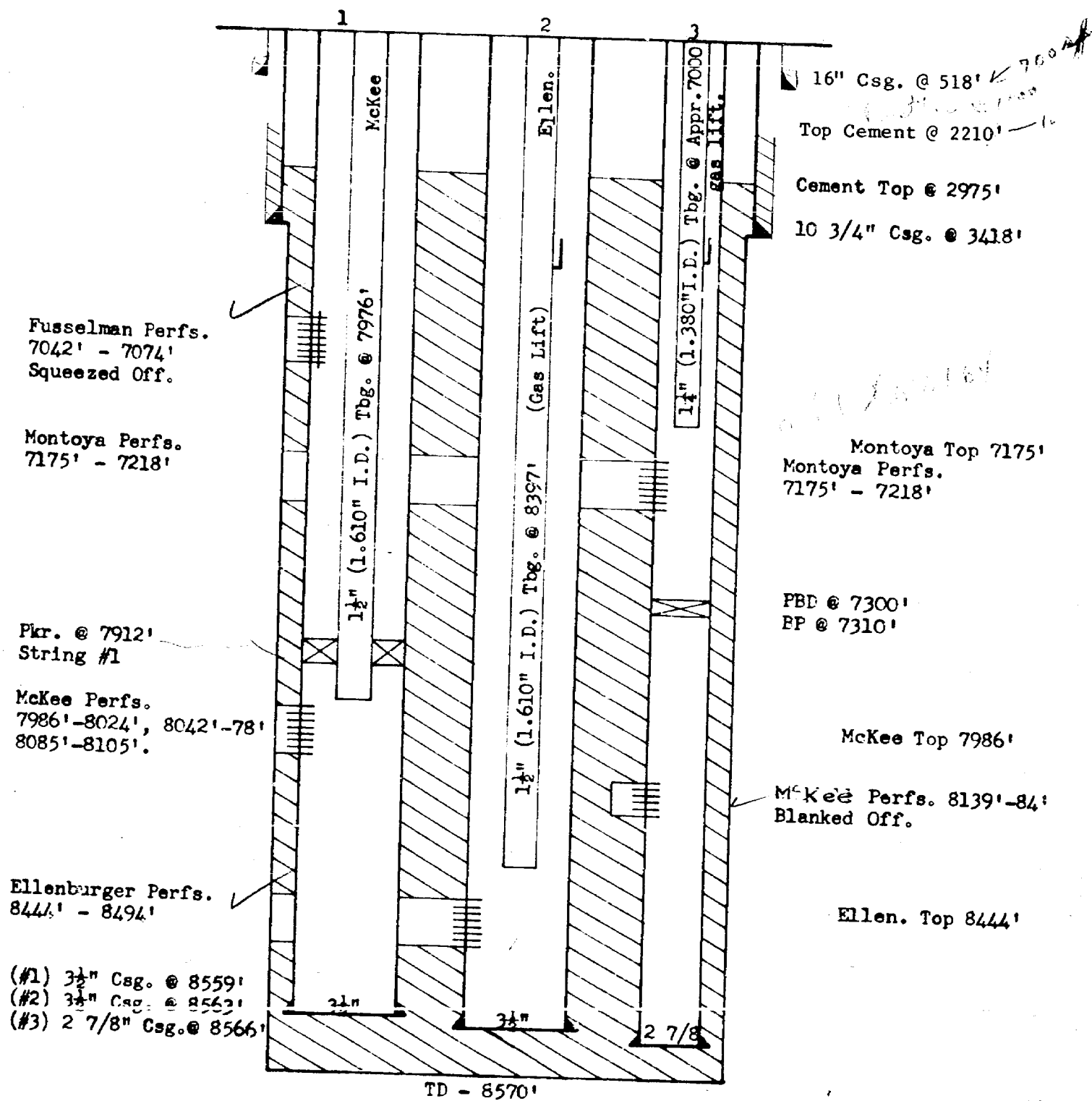
6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification June 20, 1963.

CERTIFICATE: I, the undersigned, state that I am the District Engineer of the Amerada Petroleum Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Le Thomas

Signature

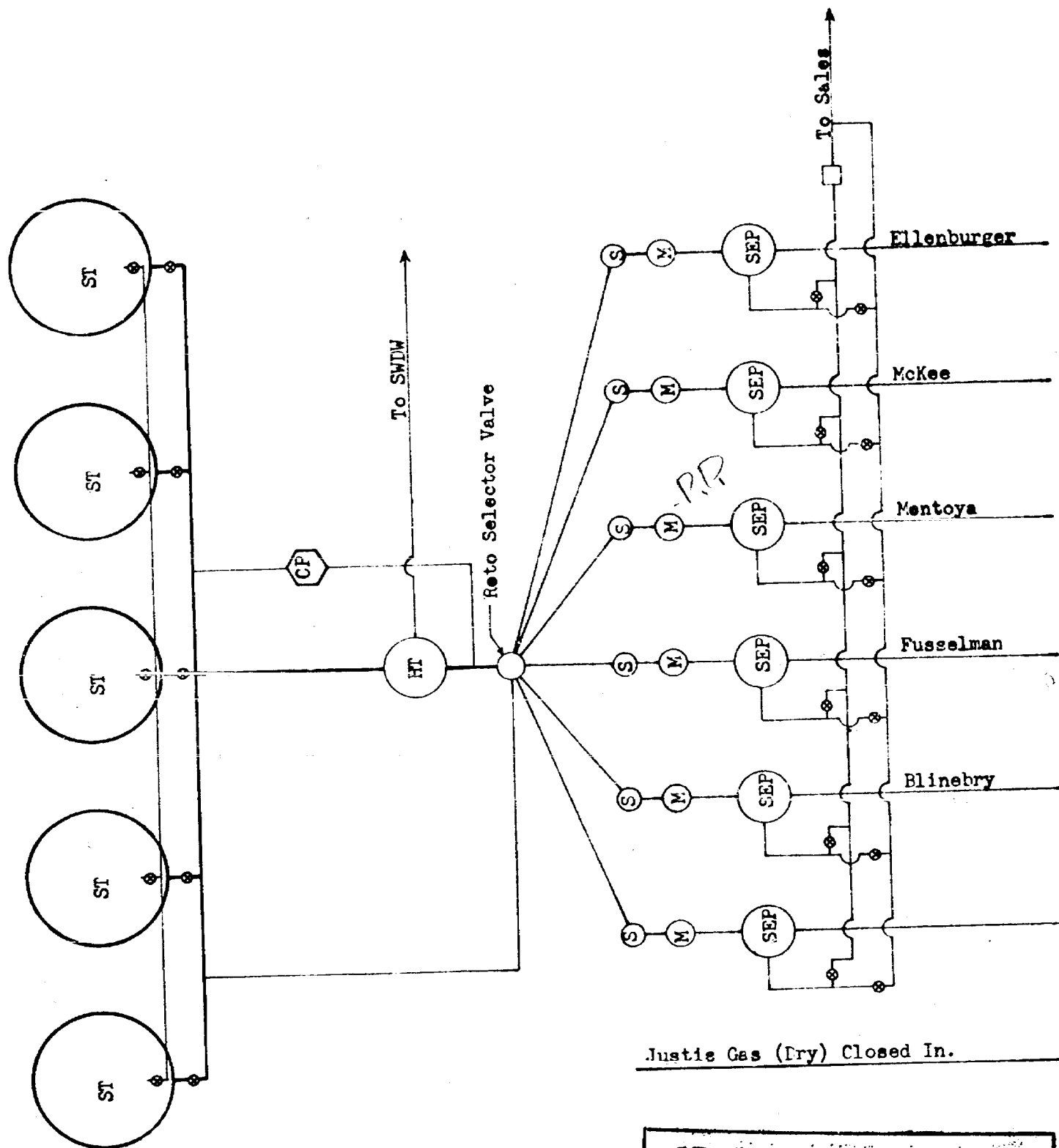
- * Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.
- NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



Diagrammatic Sketch
AMERADA PETROLEUM CORPORATION
STATE NJ "A" NO. 1
Lea County, New Mexico

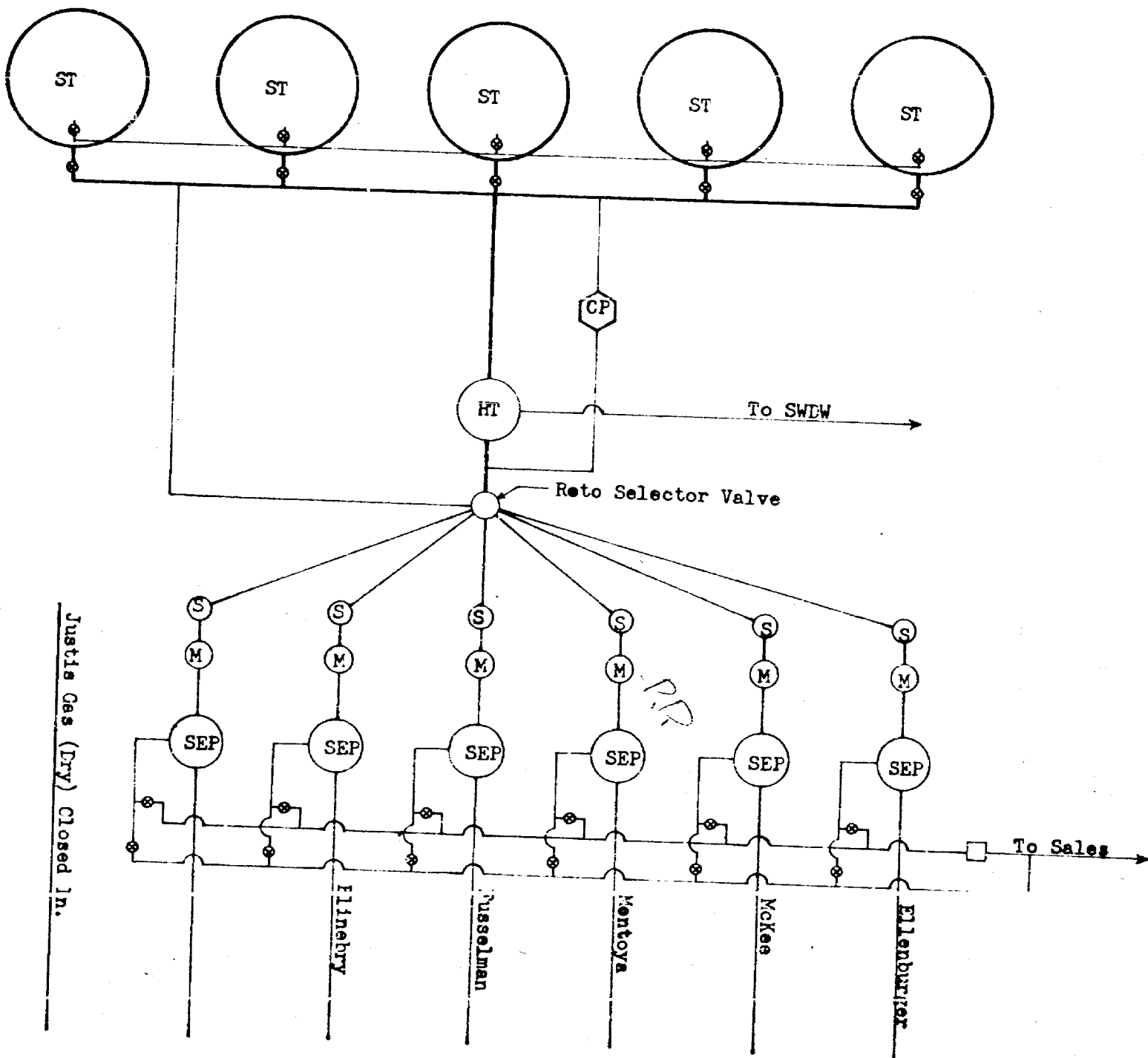
BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
EXHIBIT NO. 3	
CASE NO. 2832	

DATE: 6-14-63



AMERADA PETROLEUM CORPORATION
 Schematic Pattery Diagram
 STATE NJ "A" LEASE
 NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 2 - T25S - R37E

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 5
2832



AMERADA PETROLEUM CORPORATION
 Schematic Battery Diagram
 STATE NJ "A" LEASE
 NE 1/4 NE 1/4 Sec. 2 - T25S - R37E

BEFORE EXAMINER UTZ
 OH. CONSERVATION COMMISSION
 EXHIBIT NO. 2832

June 14, 1963

IN THE MATTER OF THE APPLICATION OF
AMERADA PETROLEUM CORPORATION FOR AN
ORDER PERMITTING THE TRIPLE COMPLETION
OF ITS STATE NJ "A" WELL NO. 1,
LOCATED IN UNIT A, SEC. 2, T-25-S,
R-37-E, LEA COUNTY, NEW MEXICO, IN
THE NORTH JUSTIS MONTOYA, MCKEE AND
ELLENBURGER POOLS AND THE COMMINGLING
OIL PRODUCTION FROM THE MONTOYA,
BLINEBRY, TUBB-DRINKARD, WADDELL,
MCKEE, DEVONIAN, FUSSELMAN, AND
ELLENBURGER.

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Case 2852

A P P L I C A T I O N

Applicant, Amerada Petroleum Corporation, states that:

1. Applicant is the owner and operator of the State NJ "A" Lease consisting of the NE 1/4 NE 1/4 of Section 2, T-25-S, R-37-E, Lea County, New Mexico.
2. Subject well was approved triple completion in the North Justis McKee, Fusselman and Ellenburger Pools on January 17, 1962, Order No. R-2164.
3. Fusselman zone was squeezed off in attempt to complete Waddell zone. Waddell zone proved to be nonproductive.
4. The North Justis McKee and Ellenburger zones will be produced thru individual strings of 1-1/2" tubing inside individual strings of 3-1/2" casing.
5. The North Justis Montoya zone will be produced thru 1-1/4" tubing inside 2-7/8" casing.
6. A multiple completion has not previously been approved in the zones under consideration. Hearing is also required in the matter due to the tubing string on the Montoya zone being less than 1.670" I.D.
7. Commingling of oil from the Blinebry, Tubb-Drinkard, Waddell, McKee, Devonian, Fusselman, and Ellenburger zones was granted by Administrative Order PG-84 dated June 1, 1962.
8. Hearing is also required for permission to add to the above zones the Montoya zone.
9. Attached are copies of the Commission's Multiple Completion Form, Plat of Area and Diagrammatic Sketch of the proposed completion, and Diagrammatic Sketch of the surface equipment.

Applicant requests that this matter be set for hearing before an examiner, that notice of the hearing be given as required by law, and that, upon conclusion of the hearing, the Commission enter its order authorizing the proposal set forth above.

Respectfully submitted,

AMERADA PETROLEUM CORPORATION

BY

Jason W. Kellahin

KELLAHIN & FOX

P. O. Box 1713

Santa Fe, New Mexico

ATTORNEYS FOR APPLICANT

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

APPLICATION FOR MULTIPLE COMPLETION

5-1-61

Operator Amerada Petroleum Corporation		County Lea	Date June 14, 1963
Address Box 668, Hobbs, New Mexico		Lease State NJ "A"	Well No. 1
Location or Well	Unit A	Section 2	Township 25-S
		Range 37-E	

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____; Operator, Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Montoya	McKee	Ellenburger
b. Top and Bottom of Pay Section (Perforations)	7175' to 7218'	7986' to 8105'	8444' to 8494'
c. Type of production (Oil or Gas)	Oil	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Gas Lift	Flow	Gas Lift

4. The following are attached. (Please mark YES or NO)

- Yes a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Yes b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- NO c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
- NO d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

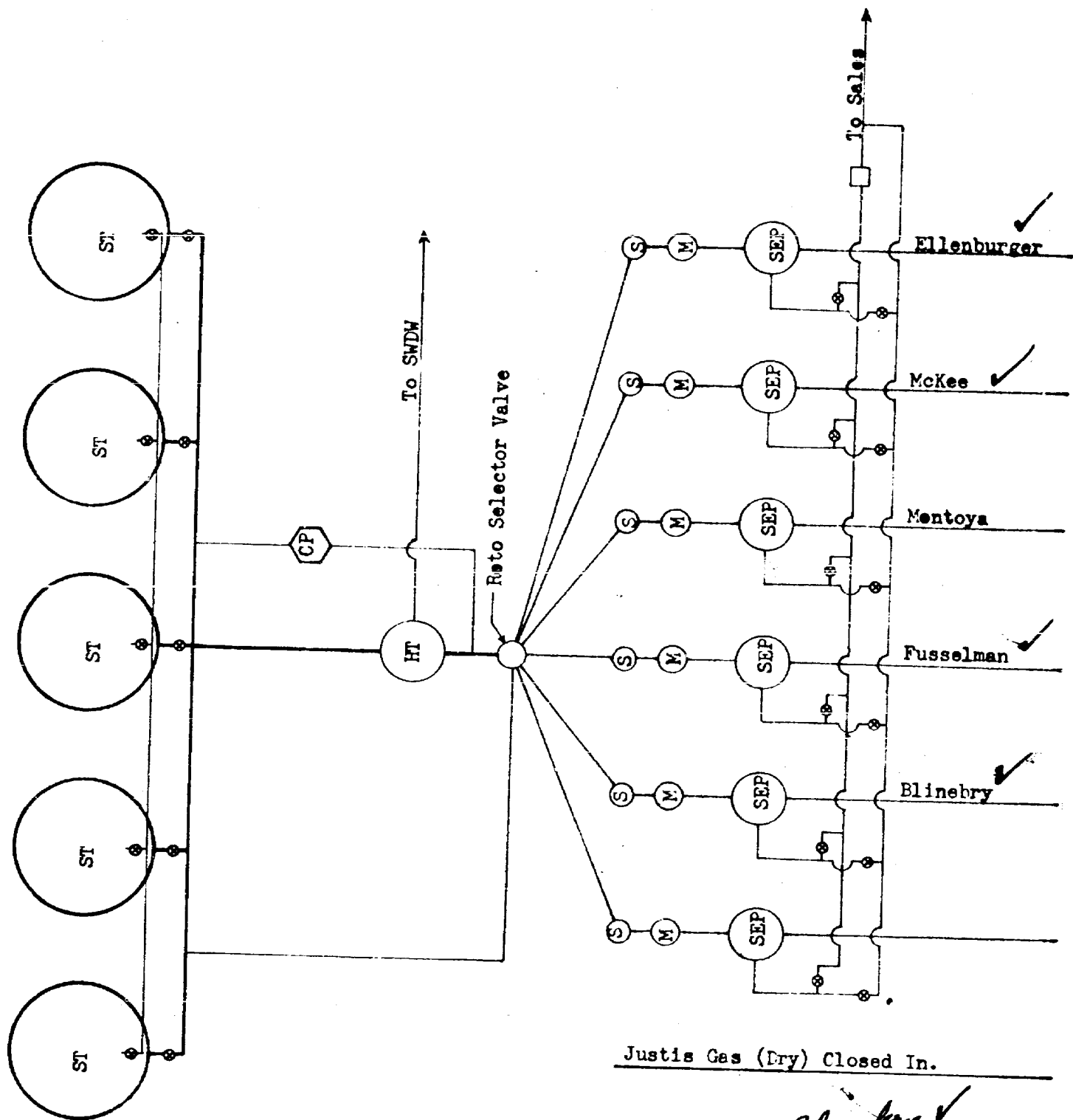
Texaco, Inc.	P. O. Box 3109	Midland, Texas
Gulf Oil Corporation	P. O. Box 1150	Midland, Texas
U. S. Smelting, Ref. & Mining Company	P. O. Box 1877	Midland, Texas
Elwin & Hale	P. O. Box 667	Hobbs, New Mexico
Shell Oil Company	P. O. Box 845	Roswell, New Mexico

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO ____ . If answer is yes, give date of such notification June 20, 1963

CERTIFICATE: I, the undersigned, state that I am the District Engineer of the Amerada Petroleum Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

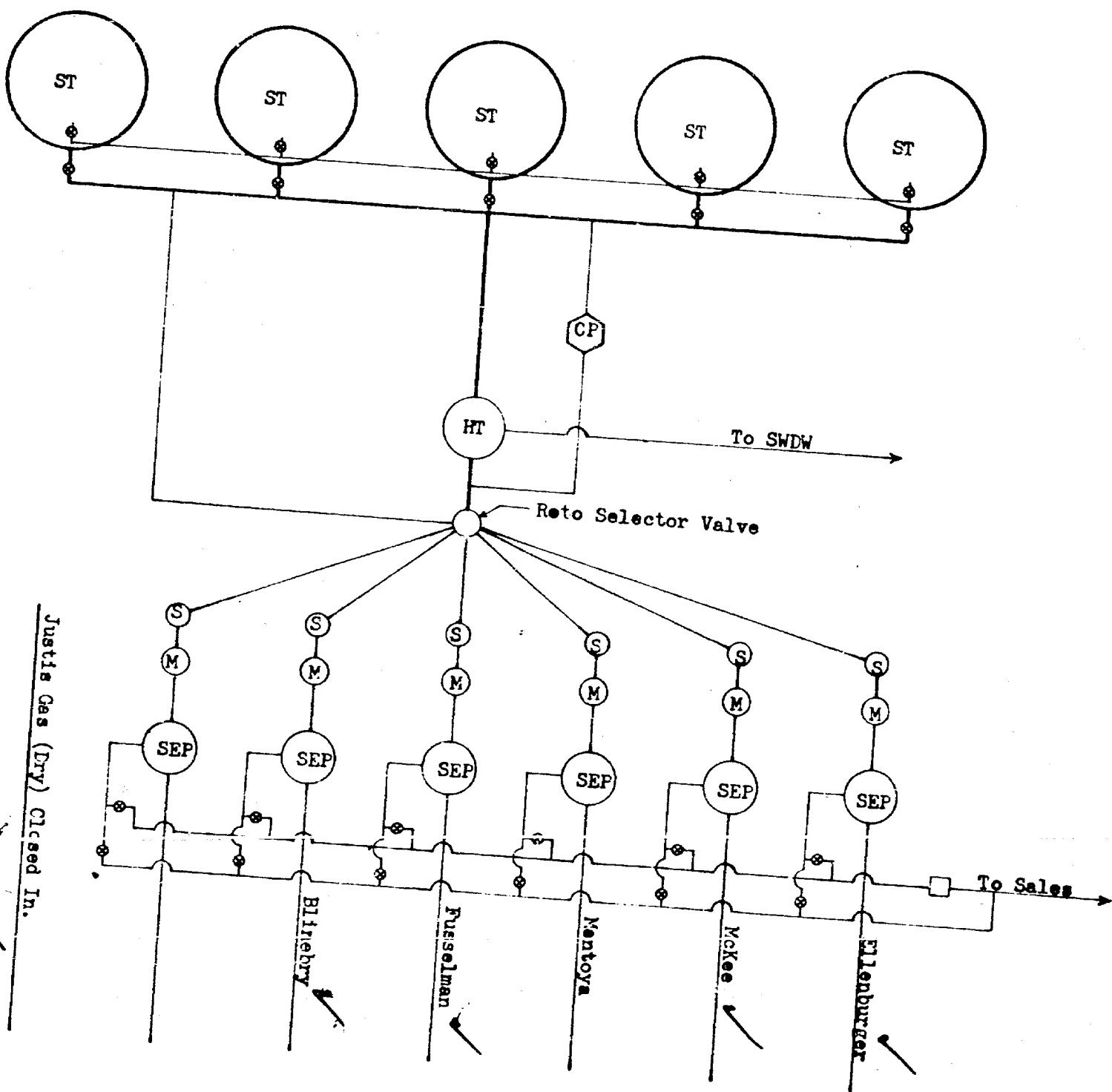
P. E. V. V. V. V. V.
Signature

- * Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.
- NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



AMERADA PETROLEUM CORPORATION
Schematic Pattery Diagram
STATE NJ "A" LEASE
NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 2 - T25S - R37E

PC-84 Blinbry ✓
Tb - Dr Waddell
McKee ✓
Devonian
Fusselman ✓
Case 2852



AMERADA PETROLEUM CORPORATION
 Schematic Pettery Diagram
 STATE NJ "A" LEASE
 Net Net Sec. 2 - T25S - R37E

PC-84

Blinberry ✓
 T25S - R37E
 McKee ✓
 Fueselman ✓
 Nantoya ✓
 Ellenburger ✓

Justis Gas (Dry) Closed In.

March 28 1952

R 37 E

Texaco

Gulf

1 • B
D

6 • D-F-d

35

Fristos "B" (NCT-2)

36

Texaco

Texaco

4 • D

2 • B
D
Dev.2 • JG
B
D
Dev.3 • B
O
F
(st) Mc
W3 • F
E
Mc

3 • B-D

1 • D
E
Mc1 • B
D
Dev.4 • B
D
Dev.5 • F
M
W2 • F
E
Mc

Erwin Fed. "A"

Erwin Fed. "B"

Rampsey "C"

Getty

Shell

Shell

Amerada

U.S. SMELTING REF. & M. CO.

2 • B-D

1 • B
D
Dev.

2 • F

3 • JG-B-F-SWB

6 • E-Mc
7 • B-F-M1 • B
D

1 • E-Mc-M

9 • TA

St. JP

St. JM

St. NJA

Skelly

Hale

4 • B-D

3 • B-D

1 • D
F

3 • E

2 • F
Dev.8 • M-Mc
5 • B-D
4 • F

St. L

Hale-State

Westates-Federal

Texaco

Continental

Humble

Cities Service

1 • B-D

2 • A
D
Dev.1 • F-Mc
2 • D-E2 • E-Mc
3 • B-D-F

5 • Dev

3 • A-D
D

3 • F-Mc

4 • D-Dev.

St. BZ NCT-10

St. A-2

St. BM

Hodges "B"

JG - Justis Gus
B - Blinbry
D - Drinkard
A - Abo
Dev - Devonian
M - Montoya
Mc - McKee

W - Waddell
F - Fusselman
E - Ellenburger

Langlie Matrix & Jalmat Wells Not Shown.

AMERADA PETROLEUM CORPORATION

NORTH JUSTIS AREA
LEA COUNTY, NEW MEXICO

Case 2852

Heard 7-10-63

Rec. 7-11-63

1. Grant Amerasia's request for a triple completion for their State N^o A^o 241 A-2-255-37E. to be completed in M. Justice, McKee, Ellenburger & Montoya. This is a ~~consent~~ ^{Combination} completion.
2. R-2164 should be amended or superseded. The McKee & Ellenburger is completed under this order but the vesselman is being replaced with the Montoya.
3. Grant authority to combine the Montoya after metering & sampling into the same system as was approved in PC 84 for other zones. a copy of this order should be put in PC 84 File.

Thugh. R.

State of New Mexico
Oil Conservation Commission



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

OTHER: _____

**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. 2852
Order No. R-2164-A

**APPLICATION OF AMERADA PETROLEUM
CORPORATION FOR A TRIPLE COMPLETION
AND FOR COMINGLING, LEA COUNTY, NEW
MEXICO.**

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on July 10, 1963, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 7th day of August, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That Order No. R-2164 authorized the applicant, Amerada Petroleum Corporation, to complete the State NJ "A" Well No. 1, located in Unit A of Section 2, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, as a triple completion (combination) in the Fusselman, McKee, and Ellenburger formations adjacent to the North Justis Field.

(3) That Administrative Order PC-84 authorized the applicant to comingling production from the Blinbry, Tubb-Drinkard, Waddell, McKee, Devonian, Fusselman, and Ellenburger zones of the North Justis Field on its State NJ "A" Lease after separately metering the production from each pool.

(4) That the applicant now seeks authority to complete its State NJ "A" Well No. 1 as a triple completion (combination) to produce oil from the McKee and Ellenburger zones through 1 1/2-inch tubing installed in parallel strings of 3 1/2-inch casing

-2-
CASE No. 2852
Order No. R-2164-A

and to produce oil from the Montoya zone through 1 1/4-inch tubing installed in a parallel string of 2 7/8-inch casing, all casing strings to be cemented in the common well bore.

(5) That the applicant also seeks to amend Administrative Order PC-84 to provide that the Montoya production on its State NJ "A" Lease may be commingled in the same manner and to the same extent as authorized for other zones on said lease by Administrative Order PC-84.

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

(7) That approval of the subject application will prevent waste and protect correlative rights.

(8) That Order No. R-2164 should be superseded.

(9) That Administrative Order PC-84 should be amended to authorize commingling as set out above.

IT IS THEREFORE ORDERED:

(1) That the applicant, Amerada Petroleum Corporation, is hereby authorized to complete its State NJ "A" Well No. 1, located in Unit A of Section 2, Township 25 South, Range 37 East, NMPM, North Justis Field, Lea County, New Mexico, as a triple completion (combination) to produce oil from the McKee and Ellenburger zones through 1 1/2-inch tubing installed in parallel strings of 3 1/2-inch casing and to produce oil from the Montoya zone through 1 1/4-inch tubing installed in a parallel string of 2 7/8-inch casing, all casing strings to be cemented in the common well bore.

PROVIDED HOWEVER, That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.

PROVIDED FURTHER, That the applicant shall take zone segregation tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Ellenburger zone.

(2) That Administrative Order PC-84 is hereby ordered amended to provide that the applicant may commingle the Montoya production on its State NJ "A" Lease in the same manner and to the same extent as authorized for other zones in said lease by Administrative Order PC-84.

(3) That Order No. R-2164 is hereby superseded.

-3-

CASE No. 2852

Order No. R-2164-A

(4) 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

E. S. Walker
E. S. WALKER, Member

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

esr/

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

5-1-61

APPLICATION FOR MULTIPLE COMPLETION

Operator Amorada Petroleum Corporation		County Lea	Date June 14, 1963
Address Box 648, Hobbs, New Mexico		Lease State of NM	Well No. 1
Location of Well A	Unit 2	Township 23-S	Range 37-E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____; Operator, Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Montoya	McKee	Ellenburger
b. Top and Bottom of Pay Section (Perforations)	7175' to 7218'	7986' to 8105'	8444' to 8494'
c. Type of production (Oil or Gas)	Oil	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Gas Lift	Flow	Gas Lift

4. The following are attached. (Please mark YES or NO)

- Yes a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Yes b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- No c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
- No d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.		
Duraco, Inc.	P. O. Box 3109	Midland, Texas
Gulf Oil Corporation	P. O. Box 1150	Midland, Texas
U. S. Smelting, Ref. & Mining	P. O. Box 1877	Midland, Texas
Elvin & Hale	P. O. Box 667	Hobbs, New Mexico
Shell Oil Company	P. O. Box 345	Roswell, New Mexico

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification June 20, 1963.

CERTIFICATE: I, the undersigned, state that I am the District Engineer of the Amorada Petroleum Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

LeThomas

Signature

- * Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.
- NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard perforation unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

Fusselman Perfs.
7042' - 7074'
Squeezed Off.

Montoya Perfs.
7175' - 7218'

Pkr. @ 7912'
String #1

McKee Perfs.
7986' - 8024', 8042' - 78'
8065' - 8105'

Ellenburger Perfs.
8444' - 8494'

(#1) 3 1/2" Csg. @ 8559'
(#2) 3 1/2" Csg. @ 8563'
(#3) 2 7/8" Csg. @ 8566'

TD - 8570'

Diagrammatic Sketch
AMERADA PETROLEUM CORPORATION
STATE NJ "A" NO. 1
Lea County, New Mexico

16" Csg. @ 518'

Top Cement @ 2210'

Cement Top @ 2975'

10 3/4" Csg. @ 3418'

Montoya Top 7175'
Montoya Perfs.
7175' - 7218'

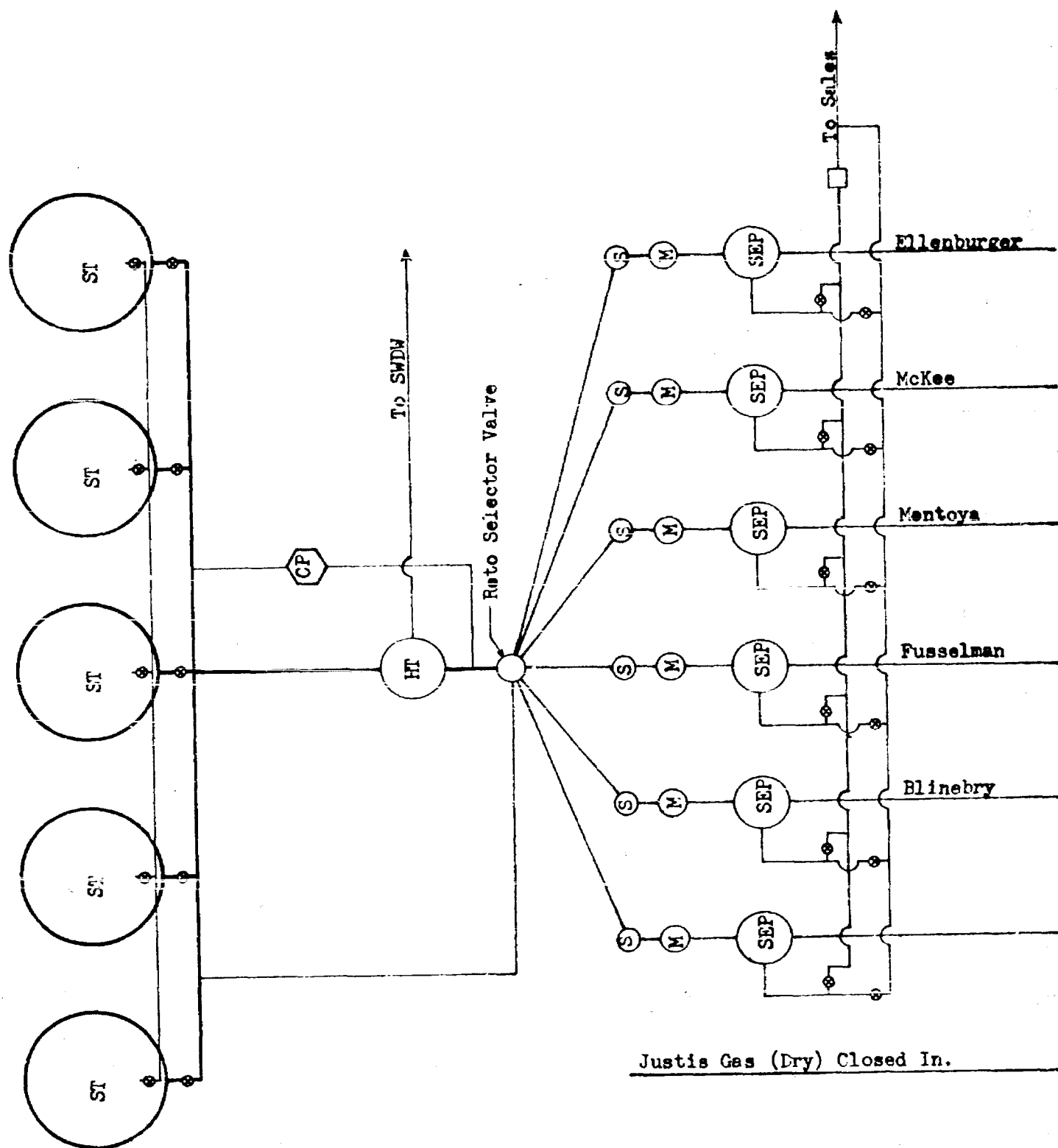
PBD @ 7300'
BP @ 7310'

McKee Top 7986'

McKee Perfs. 8139' - 84'
Blanked Off.

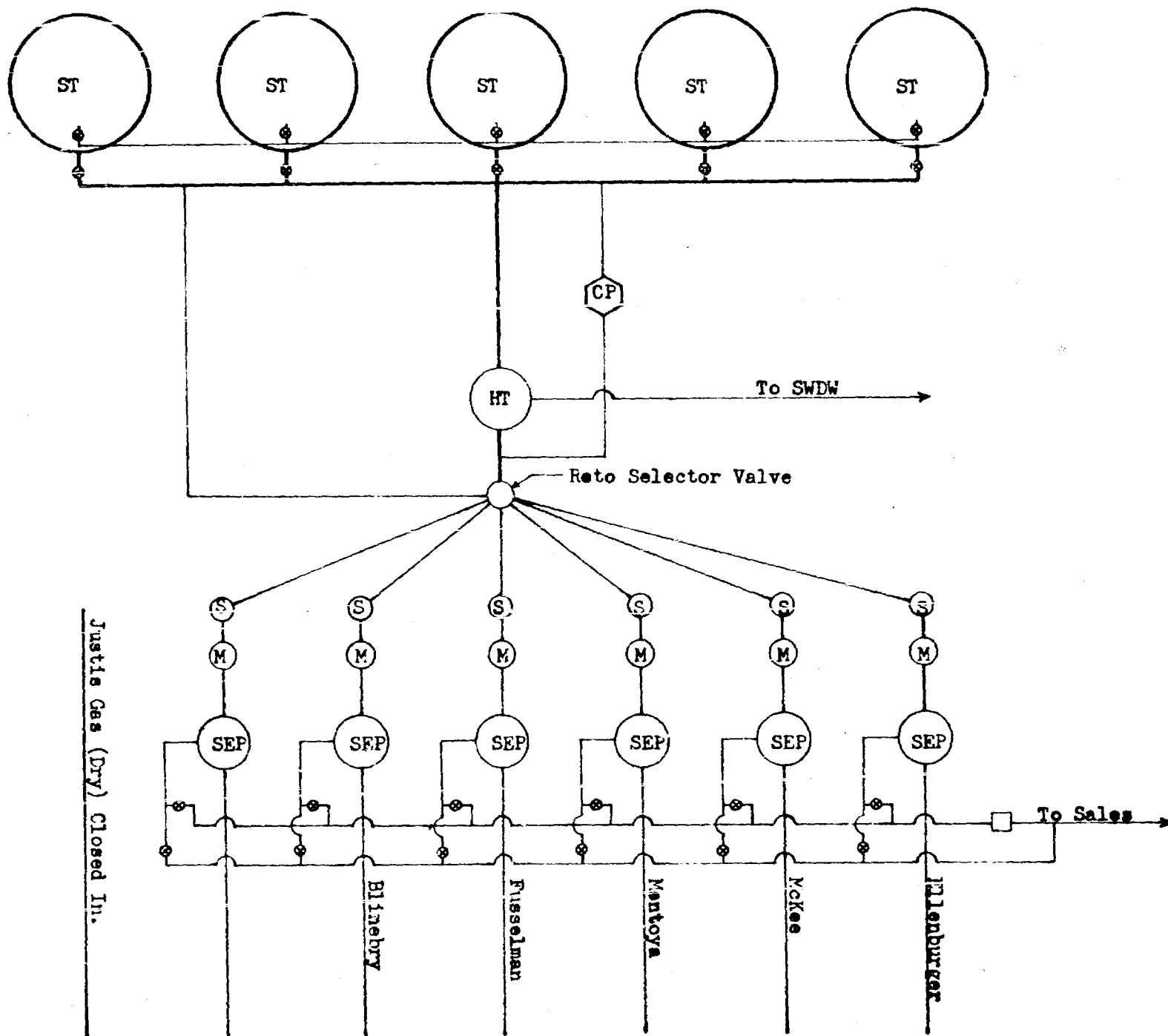
Ellen. Top 8444'

DATE: 6-14-63



AMERADA PETROLEUM CORPORATION
 Schematic Pattery Diagram
 STATE NJ "A" LEASE
 NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 2 - T25S - R37E

AMERADA PETROLEUM CORPORATION
 Schematic Battery Diagram
 STATE NJ "A" LEASE
 NE# NE# Sec. 2 - T25S - R37E



DRAFT

JMD/esr

July 17, 1963

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. 2852

Order No. R- 2164-A

APPLICATION OF AMERADA PETROLEUM
CORPORATION FOR A TRIPLE COMPLETION
AND FOR COMMINGLING, LEA COUNTY, NEW
MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on
July 10, 1963, at Santa Fe, New Mexico, before Elvis A. Utz,
Examiner duly appointed by the Oil Conservation Commission of New
Mexico, hereinafter referred to as the "Commission," in accordance
with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 17 day of July, 1963 the Commission,
a quorum being present, having considered the application, the
evidence adduced, and the recommendations of the Examiner,
Elvis A. Utz, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by
law, the Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That Order No. R-2164 authorized the applicant, Amerada
Petroleum Corporation, to complete ^{the} State NJ "A" Well No. 1, located
in Unit A of Section 2, Township 25 South, Range 37 East, NMPM, Lea
County, New Mexico, as a triple completion (combination) in the ^{Fusselman,}
~~McKee, McKee, Fusselman,~~ and Ellenburger formations adjacent to the North
Justis Field.

(3) That Administrative Order PC-84 authorized the appli-
cant to commingle production from the Blinbry, Tubb-Drinkard,
Waddell, McKee, Devonian, Fusselman, and Ellenburger zones of the
North Justis Field on its State NJ "A" Lease after separately
metering the production from each pool.

(4) That the applicant now seeks authority to complete its State NJ "A" Well No. 1 as a triple completion (combination) to produce oil from the McKee and Ellenburger zones through 1 1/2-inch tubing installed in parallel strings of 3 1/2-inch casing and to produce oil from the Montoya zone through 1 1/4-inch tubing installed in a parallel string of 2 7/8-inch casing, all casing strings to be cemented in the common well bore.

(5) That the applicant also seeks to amend Administrative Order PC-84 to provide that the Montoya production on its State NJ "A" Lease may be commingled in the same manner and to the same extent as authorized for other zones on said lease by Administrative Order PC-84.

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

(7) That approval of the subject application will prevent waste and protect correlative rights.

(8) That Order No. R-2164 should be superseded.

(9) That Administrative Order PC-84 should be amended to authorize commingling as set out above.

IT IS THEREFORE ORDERED:

(1) That the applicant, Amerada Petroleum Corporation, is hereby authorized to complete its State NJ "A" Well No. 1, located North Justis Field in Unit A of Section 2, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, as a triple completion (combination) to produce oil from the McKee and Ellenburger zones through ^{1 1/2}~~1 1/4~~ inch tubing installed in parallel strings of 3 1/2-inch casing and to produce oil from the Montoya zone through 1 1/4-inch tubing installed in a parallel string of 2 7/8-inch casing, all casing strings to be cemented in ^{the}~~a~~ common well bore.

PROVIDED HOWEVER, That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.

PROVIDED FURTHER, That the applicant shall take zone segregation tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Ellenburger zone.

(2) That Administrative Order PC-84 is hereby ^{ordered} amended to provide that the applicant may commingle the Montoya production on its State NJ "A" Lease in the same manner and to the same extent as authorized for other zones on said lease by Administrative Order PC-84.

(3) That Order No. R-2164 is hereby superseded.

(4) 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.

Sohel -
When this order is signed, please
write a letter to Amerada as follows:

Amendment
Administrative Order PC-84

Eracten:

Reference is made to Order No. R-2164-A
dated , 1963, ordering Administrative
Order MC-84, which order authorized
Cunningham & Plimley, Two-Drinkard,
Waddell McKee, Devonian, Russellman,
and Ellanburger production on grand
State NJ "A" Lease, amended to
include ~~the~~ ^{the} Montoya production
from the same lease. said Order.

in accordance with said Order
no R-2164-A, Administrative Order PC#
is hereby amended, provided however
that the protection from all zones
shall be separately ^{meeting} ~~incorporated~~ prior to
commencing. ~~by means~~ and provided
further that this installation shall in all ways
be operated in accordance with the Commission. "Amend"