CASE NO. 5345 Appli. TEXACO INC. downhole commingling, Lea County

# CASE 170. 5345

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# BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico October 16, 1974

#### EXAMINER HEARING

IN THE MATTER OF:

Application of Texaco, Inc., for downhole commingling, Lea County, New Mexico.

**CASE 5345** 

BEFORE: Richard L. Stamets, Examiner.

#### TRANSCRIPT OF HEARING

#### APPEARANCES

For the New Mexico Oil

Conservation Commission:

William Carr, Esq.

Legal Counsel for the Commission

State Land Office Building

Santa Fe, New Mexico

For Texaco, Inc.:

Booker Kelly, Esq.

WHITE, KOCH, KELLY & McCARTHY

220 Otero

Santa Fe, New Mexico

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EUGENE CRAIG HINRICHS

Direct Examination by Mr. Kelly

Cross Examination by Mr. Stamets

EXHIBITS

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Exhibits 1 through 8

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MR. STAMETS: We will call the next Case, 5345.

MR. CARR: Case 5345, Application of Texaco, Inc. for downhole commingling, Lea County, New Mexico.

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

MR. STAMETS: Any other appearances in this Case?

The witness will stand and be sworn, please.

(Whereupon, the witness was duly sworn.)

#### EUGENE CRAIG HINRICHS

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

#### DIRECT EXAMINATION

#### BY MR. KELLY:

- Q Would you state your name, position and employer, please?
- A My name is Eugene Craig Hinrichs, I'm district production engineer with Texaco in Hobbs.
- Q And you have previously qualified as an expert in the field of petroleum engineering before the Commission?
  - A Yes, sir, I have.
- Q Referring to your plat, Exhibit No. 1, would you state briefly what Texaco seeks by the application?

A Texaco requests approval to downhole commingle the Justis North Montoya, Ellenburger and Fusselman Pools in the G. L. Erwin "B" (NCT-2) Well No. 5. This well is located 330 feet from the south line and 330 feet from the east line of Section 35, Township 24 South, Range 37 East of Lea County. The subject lease is outlined in yellow and the subject well is designated by the red arrow.

- Q And what is the present status of that well?
- A It is presently producing from the -- as a triple completion from the Fusselman, Montoya and Ellenburger, with the Waddell zone shut in.
- Q Could you give the Examiner a brief history of the well and its well bore, or its data sheet as you have shown on Exhibit No. 2?
- A The data sheet contains information pertinent to the zones to be downhole commingled. As you can scc, all of the zones are being produced by pump. The Fusselman and Ellenburger being produced by hydraulic pump and the Montoya by rod pump. The bottom-hole pressures, as you can see, are similar, and the productive right of the well will be such that we will be able to keep it pumped off, if we are able to commingle, so that there will be no cross flow between the zones, from one zone into another. The

#### HINRICHS-DIRECT

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types of crude in all three are sweet, and the gravities are similar, just about the same. They are presently being commingled on the surface, so there will be no compatibility problem with them, with the crude, and there will be no reduction in the price as a result of downhole commingling. As you can see down below, the income without commingling would be \$111.09 a day; if we commingle it will \$269.79 a day. This is based on a production increase of 20 barrels a day. Presently the Montoya and the Ellenburger are in need of equipment repair for the downhole equipment which is the reason for these low tests. I will discuss, when we get to our decline curves what the capabilities of these zones are right now if this equipment is repaired.

- Q Now, turning to Exhibit No. 3, your **Gas-Oil Ratio**Tests, do you feel there is any significant difference
  between the **Gas-Oil Ratio** in the three zones?
- A Well, the Gas-Oil Ratio for the Montoya is 4900 to 1, which is rather high, but this is due to the low oil production of 2 barrels a day, it's only 9.8 mcf of gas, and this will cause no problem upon commingling since the gas volume is low.
- Q I believe you stated that low production was due to mechanical problems?

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- A Yes, it was.
- Q Now, originally this well was a quadruple completion, is that right?
  - A That's right.
  - Q And what zone is it that is now abandoned?
  - A The Waddell zone is abandoned.
- Q Referring to your Exhibit 4, your present completion, would you explain that to the Examiner.
- A The present multiple completion was authorized by Order MC-1237(A), issued January 7th, 1965. It approved quadruple completion of the Montoya, Fusselman, Waddell, and Ellenburger. Subsequently the Waddel has been abandoned, making less than a barrel a day, and it is now producing as a triple completion from the Montoya, Fusselman and Ellenburger. This well has 16 inch surface casing set at 250 feet, cemented with 300 sacks and the cement circulated. There is an intermediate string of 13 and 3/8 inch casing set at -- this is evidently wrong, it shows 102 feet. I imagine it should be 4102.

MR. STAMETS: That's on Exhibit No. 4?

A (Continuing) We have the top at 91 feet, it's 13 and 3/8, and below that down to 3500 feet, it's 11 and 3/4, and the temperature survey shows that the cement top is

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at 1925.

MR. KELLY: Mr. Examiner, we would ask that Exhibit No. 4 be amended to reflect.

MR. STAMETS: I believe it properly reflects the situation.

A (Continuing) Yes, it does if I had just read on. There are four stings of 2 and 7/8 inch casing set at 7248, 7250, 8150 and 8150. They were cemented in the hole with a cement topping at 1600 feet as determined by a temperature survey.

Q Okay, now go on to Exhibit No. 5 and your proposed completion.

A What we propose to do is communicate the Fusselman, Montoya, and Ellenburger zones with perforations from 7120 to 7130. The Ellenburger and Waddeli will then be communicated from 7990 to 7995. Gas will be vented out of the Fusselman, Montoya, and Ellenburger zones, and the crude will be pumped out of the Waddell zone. The bridge plug will be set at 8,050 feet to separate the Waddell from the three zones being produced out of the Waddell string.

Q Now, on Exhibits 6, 7, and 8 your individual production decline curves, could you go into that and explain what problems you have had with your Montoya and Ellenburger

HINRICHS-DIRECT

Page...... 8.....

zones?

As you can see the Montoya was on a pretty good 15 percent decline as I've indicated, on your copies by the dashed line. We have had some mechanical problems with the pumping equipment; as you can see it was making 2 barrels a day. We need to pull the equipment out and replace it or repair it. Also, a similar situation exists in the Ellenburger string. The one barrel a day test which we show is not representative of the capacity of this well from the Ellenburger. We anticipate that, based on the decline curve and extrapolating the decline out, that we will be able to get 8 barrels a day from the Montoya, 15 barrels a day from the Ellenburger, and 18 barrels a day as we show tested from the Fusselman. We know the Fusselman is making this 18 barrels a day because it was pumping off at the time or the test I previously talked about; but we are uncertain right now as to the actual capacity of the Ellenburger and the Montoya since the equipment is in bad shape. What we would recommend doing would be to, as far as for allocation, would be to test the well for 2 to 3 weeks after we get it back on, until the production stabilizes, and everything in excess of 18 barrels a day would be attributed to the Montoya and Ellenburger. You can see that the ratio between the

Ellenburger to the Montoya was about 2 to 1, so we would split out the, you know, any increase above 18 barrels a day, two-thirds to the Ellenburger and one-third of that to the Montoya, and calculate an allocation based on that.

- Q Now, the crude from the three zones is now being commingled at the surface?
  - A Yes, it is.
  - Q So there is no problem with that?
  - A No problem.
- Q Commingling would not decrease the value of the crude?
- A No. I would like to point out that by commingling this we will reduce our economic limit. Right now this at this depth it is approximately 6 barrels a day per zone.

  Buy using a rod pump and by commingling the zones, we get an additional 24,000 barrels of oil by being able to produce it from one common well bore, one rod pump.
- Q All right. Now, in your opinion, then the granting of this application would prevent waste and allow you to recover hydrocarbons that would otherwise be left down structure?
  - A That's right.
  - Q Were Exhibits 1 through 8 prepared by you or under

HINRICHS-DIRECT
-CROSS

CASE 5345

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your direct supervision?

A Yes, sir.

MR. KELLY: We would move the introduction of Exhibits 1 through 8 at this time.

MR. STAMETS: Exhibits 1 through 8 will be admitted.

(Whereupon, Exhibits 1 through 8 were admitted into evidence.)

MR. KELLY: We have no further direct testimony.

#### CROSS EXAMINATION

#### BY MR. STAMETS:

Q Mr. Hinrichs, would it be acceptable for an Order to be written allocating the production from the three zones based on the figures you have presented here, allowing for an amendment to that if subsequent tests should prove that those are not correct?

A That would be fine.

MR. STAMETS: Any other questions of this witness?

MR. KELLY: Nothing further.

MR. STAMETS: You may be excused. Anything further in this Case? We will take the Case under advisement.

CASE	5345
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STATE OF NEW MEXICO )

( ) SS.

COUNTY OF SANTA FE )

I, SIDNEY F. MORRISH, 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.

SIDNEY F. MORRISH, Court Reporter

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5345

New Mexico Oil Conservation Commission

OIL CONSERVATION COMMISSION Teadro EXHIBIT NO. 1 CASE NO. 5345 Submitted by Hearing Date 047, 16,1 10. T 24 S T 24 5 . . Y 25 \$ 101515 \$ 5155 Printell Printell V" C C Fristre US R-37-E POOL INDEX

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BEFORE EXAMINER STAME 15

·	DATA SHEET FOR W	ELLBORE COMMINGLINEFOR	E EXAMINER STAMETS
			SERVATION COMMISSIONEXHIBIT NO2
Operator: Texaco Inc.			5345
Address: P.O. Box 728,	Hobbs, New Mexico 8	8240 Submitted t	py
Lease and Well No.: G.L.	Erwin "B" Federal (NC	(-2) No. 5 Hearing D	ate 06 7 16, 1974
Location: 330' FSL & 330		<i></i>	
WELL DATA	Hydrohi	170 d Plump	• •
	Upper Pool Justis	Middle Pool Justis	Lower Pool Justis
Name of Pool	Fusselman North	Montoya North	Ellenburger North
Producing Method	Pump	Pump	Pump
BHP	1000 (Est.)	1000 (Est.)	1300 (Est.)
Type Crude	Sweet	Sweet	Sweet
Gravity	39.6	39.9	39,6
GOR Limit	2000	2000	2000
Completion Interval	69501-70601	7118'-7130'	8332*-8359*
Current Test Date	6-30-74	8-28-71:	8-29-74
011	18	2	1
Water	7	1	0
GOR	TSTM	<u> </u>	TSTM
Selling Price of Crude - \$/BBL.	5,29	5,29	5.29
Daily Income - \$/Day	95.22	10.58	5.29
COMMINGLED DATA:		(	perdeguipant pepaire juc pred
Gravity of Commingled Co	rude 39.6		repair,
Selling Price of Comming	gled Crude - \$/BBL	5•29	inc pred
Daily Income - \$/Day	269•79		•

Net (Gain) (KZZZ) from Wellbore Commingling - \$/Day 105.80 (Production increase of 20 BOPD) based on current producing rates.

# NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator TEXACO Inc.	<del> </del>		Po	ol	See	Below				Co	unty	Lea				
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	WELL		LOC	ATION		DATEOF		CHOKE	TBG.	DAILY	LENGTH	P	ROD. E	URING	TEST	GAS - OIL
LEASE NAME	NO.	U	s	т	R	TEST	STAT	SIZE	PRESS.	ALLOW- ABLE	TEST	WATER BBLS.	GRAV.	OIL BBLS.	GAS M.C.F.	RATIO CU.FT/BBL
G. L. Erwin "B" Federal (NCT-2)	5	P	35	248	37E											
Justis Fusselman North						8-30-74	P			40	24	7	39.6	18	-	TSTM
Justis Montoya North						8-28-74	P			5	24	ı	39.9	2	9.8	4900
Justis Ellenburger North						8-29-74	P		į	10	24	0	39.6	1	-	TSTM
BEFORE EXAMINES	COWWI		N													
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15,025 psia and a temperature of 63° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mall original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

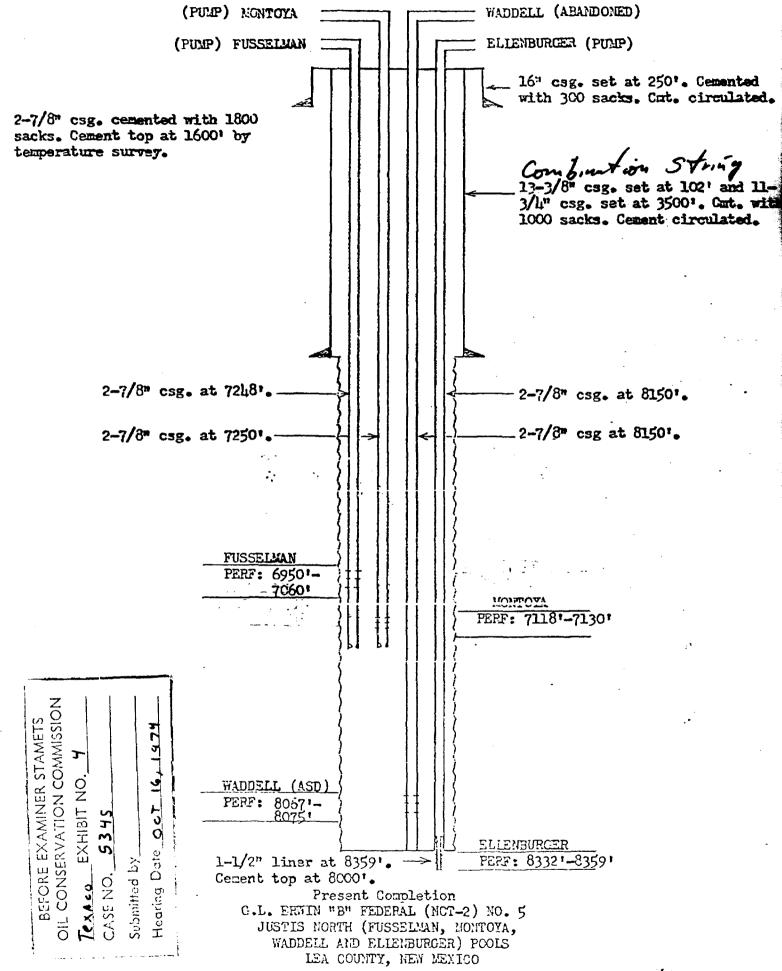
(Signature)

Assistant District Superintendent

(Title)

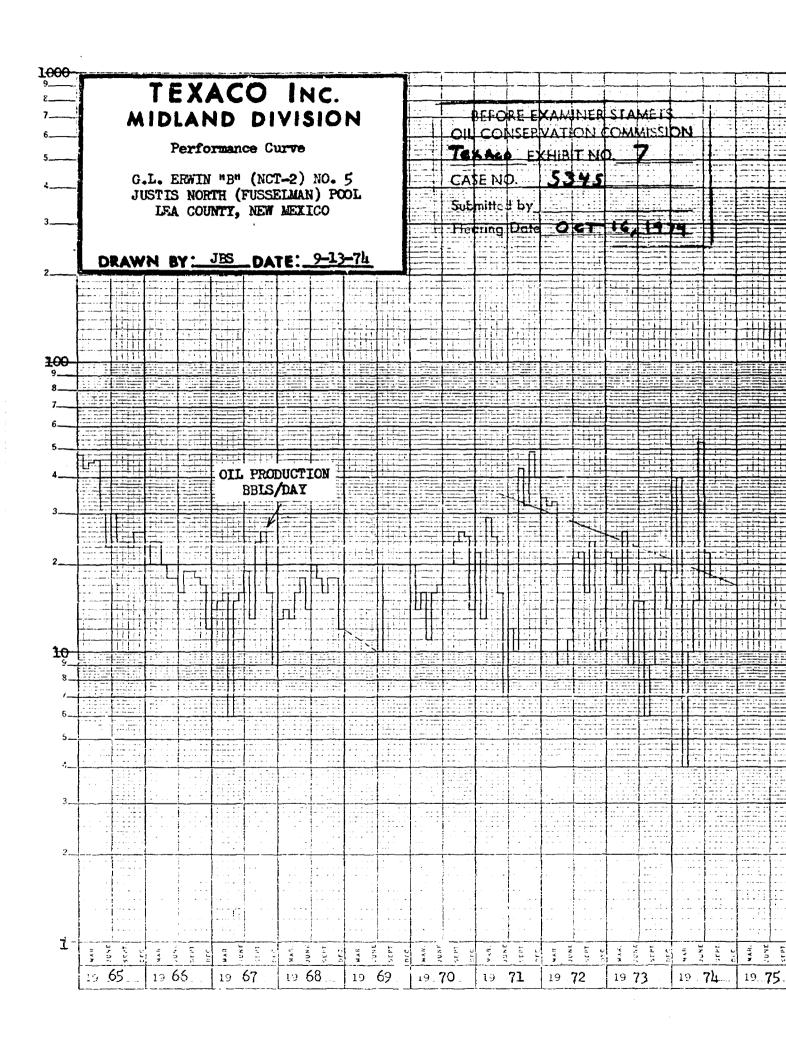
September 10, 1974

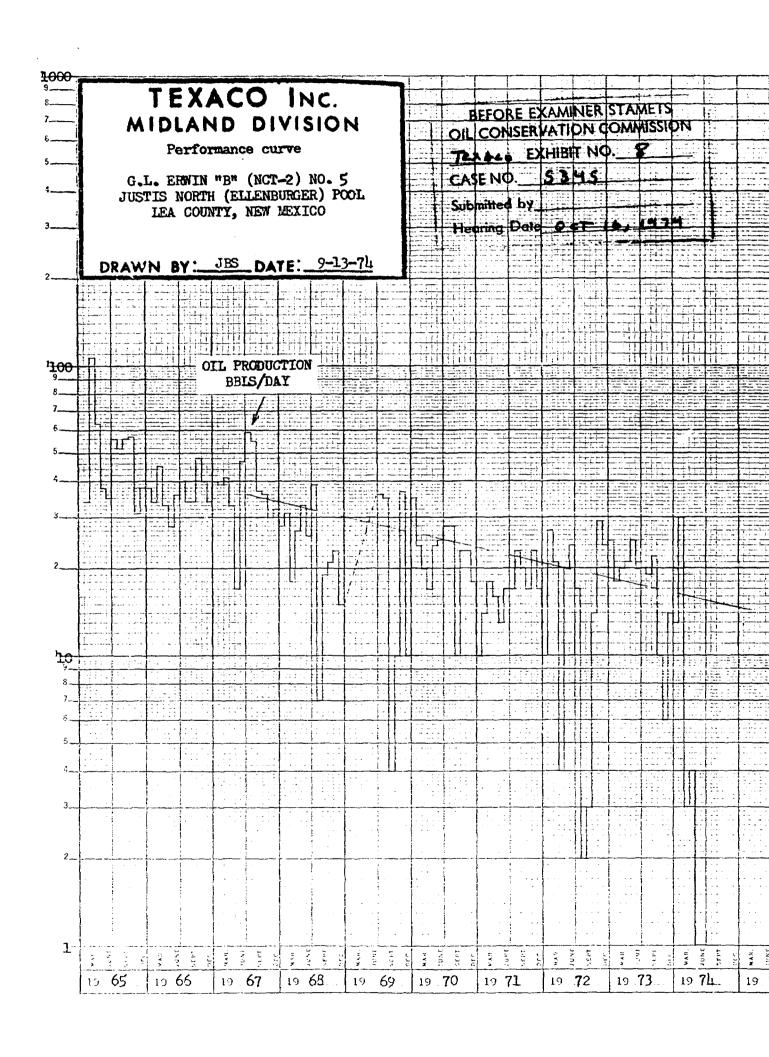
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#### OFFSET OPERATORS

Gulf Oil Corporation - U.S. 900 N. Turner Hobbs, New Mexico 88240

National Cooperative Refinery Associates 915 Wilco Building Midland, Texas 79701

Amerada Hess Corporation P. O. Box 591 Midland, Texas 79701

Shell Oil Company P. O. Box 1509 Midland, Texas 79701



#### OIL CONSERVATION COMMISSION

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

October 30, 1974

L. R. TRUJELLO CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

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

	Re:	CASE NC. 5345
Mr. Booker Kelly White, Koch, Kelly & McCarthy		ORDER NO. R-4895
Attorneys at Law Post Office Box 787		Applicant:
Santa Fe, New Mexico		Texaco Inc.

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. Secretary-Director

ALP/ir	
Copy of order also sent to:	
Hobbs OCC X Artesia OCC Aztec OCC	
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. 5345 Order No. R-4895

APPLICATION OF TEXACO INC. FOR DOWNHOLE COMMINGLING, LEA COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 16, 1974, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 29th day of October, 1974, 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, Texaco Inc., is the owner and operator of the G. L. Erwin "B" Fed. (NCT-2) Well No. 5, located in Unit P of Section 35, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That the applicant has completed said well as a quadruple tubingless completion in the North Justis-Fusselman, North Justis-Montoya, Waddell, and North Justis-Ellenburger Pools under authority granted by the Commission by its Administrative Order MC-1237-A.
- (4) That the applicant seeks authority to commingle Fusselman, Montoya, and Ellenburger production within the wellbore of the above-described well in such a manner as to permit commingled oil to be produced through the former Waddell casing string and all or part of the commingled gas to be produced through any of the various casing strings.
  - (5) That the Waddell zone is to be abandoned.
- (6) That from the Fusselman zone, the subject well is capable of marginal production only.

-2-Case No. 5345 Order No. R-4895

- (7) That from the Montoya zone, the subject well is capable of low marginal production only.
- (8) That from the Ellenburger zone, the subject well is capable of low marginal production only.
- (9) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.
- (10) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the well is not shut-in for an extended period.
- (11) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Hobbs district office of the Commission any time the subject well is shut-in for 7 consecutive days.
- (12) That in order to allocate the commingled production to each of the commingled zones in the subject well, 43 percent of the commingled oil production should be allocated to the Fusselman zone, 20 percent of the commingled oil production to the Montoya zone, 37 percent should be allocated to the Ellenburger zone, and 100 percent of the commingled gas production should be allocated to the Montoya zone.
- (13) That the Secretary-Director of the Commission should administratively adjust the percentages set out in Finding No. (10) above if subsequent testing indicates such adjustment would permit more accurate allocation of the commingled production.

#### IT IS THEREFORE ORDERED:

- (1) That the applicant, Texaco Inc., is hereby authorized to commingle Fusselman, Montoya and Ellenburger production within the wellbore of the G. L. Erwin "B" Fed. (NCT-2) Well No. 5, located in Unit P of Section 35, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to permit commingled oil to be produced through the former Waddell casing string and all or any part of the commingled gas to be produced through any of the various casing strings.
- (2) That 43 percent of the commingled oil production shall be allocated to the Fusselman zone, 20 percent of the commingled oil production shall be allocated to the Montoya zone, and 37 percent of the commingled oil production shall be allocated to the Ellenburger zone, and 100 percent of the commingled gas production should be allocated to the Montoya zone;

-3-Case No. 5345 Order No. R-4895

PROVIDED HOWEVER, that the Secretary-Director of the Commission may administratively adjust said percentages if subsequent testing should indicate such adjustment would permit more accurate allocation of the commingled production.

- (3) That the operator of the subject well shall immediately notify the Commission's Hobbs district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action.
- (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

I. R. TRUJILLO, Chairman

ALEX J. ARMIJO, Member

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

SEAL

-3-

- CASE 5343: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Paul Haskins, Trustee and Continental Casualty Company, and all other interested parties to appear and show cause why the Arthur Cain Well No. 1, located in Unit N of Section 4, Township 15 North, Range 33 East, Harding County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.
- CASE 5344: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit American Fuels Corporation and Aetna Casualty and Surety Company, and all other interested parties, to appear and show cause why the following American Fuels Wells on the W-S Ranch in Colfax County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program:

NM-B Well No. 1, located in Unit G of Section 6, Township 30 North, Range 19 East;

NM-B Well No. 2, located in Unit P of Section 16, Township 30 North, Range 18 East;

NM-B Well No. 4, located in Unit H of Section 18, Township 30 North, Range 18 East;

NM-B Well No. 5, located in Unit P of Section 30, Township 30 North, Range 19 East; and

NM-B Well No. 10, located in Unit N of Section 24, Township 31 North, Range 19 East.

- CASE 5345: Application of Texaco, Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of production from the Fusselman, Montoya, and Ellenburger formations, North Justis Field, in the wellbore of its G. L. Erwin "B" Fed. (NCT-2) Well No. 5, located in Unit P of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico.
- Application of Continental Oil Company for downhole commingling, Lea CASE 5346: County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of production from the Blinebry formation and the East Warren-Drinkard Pool in the wellbore of its Warren Unit Well No. 11, located in Unit A of Section 35, Township 20 South, Range 38 East, Lea County, New Mexico.
- Application of Continental Oil Company for downhole commingling, Lea CASE 5347: County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of production from the West Warren-Blinebry and East Skaggs-Drinkard Pools in the wellbore of its SEMU Berger Well No. 21, located in Unit O of Section 19, Township 20 South, Range 38 East, Lea County, New Mexico.

Examiner Hearing - Wednesday - October 16, 1974

Docket No. 29-74

CASE 5348: Application of Continental Oil Company for downhole commingling, Lea County. New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of production from the Blinebry and Drinkard Pools in the wellbores of its Elliott B Well No. 6, located in Unit J of Section 6, Township 22 South, Range 37 East, and its Lockhart B-1 Well No. 9, located in Unit I of Section 1, Township 22 South, Range 36 East, both in Lea County, New Mexico.





Dockets Nos. 30-74 and 31-74 are tentatively set for hearing on October 30 and November 13, 1974. Application for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - OCTOBER 16, 1974

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

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas from seventeen prorated pools in Lea, Eddy, Roosevelt, and Chaves Counties, New Mexico, for November, 1974;
  - (2) Consideration of the allowable production of gas from five prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico, for November, 1974.

#### CASE 5304: (Continued from the September 4, 1974, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Mercury Production Company, American Employers' Insurance Company and all other interested parties to appear and show cause why the Mercury State Well No. 1 located in Unit E of Section 27, Township 10 South, Range 26 East, Chaves County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

#### CASE 5292: (Continued from the September 18, 1974, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit El Paso Natural Gas Company, United States Fidelity and Guaranty Co., and all other interested parties to appear and show cause why each of the following wells should not be plugged and abandoned in accordance with a Commission-approved plugging program:

EPNG Ludwick Well No. 11, located in Unit B, Section 19, Township 30 North, Range 10 West, San Juan County, New Mexico;

EPNG Rincon Unit Well No. 127, located in Unit A, Section 28, Township 27 North, Rarge 6 West, Ric Arriba County, New Mexico; and

EPNG Warren A Well No. 2, located in Unit A, Section 23, Township 28 North, Range 9 West, San Juan County, New Mexico.

#### CASE 4976: (Reopened) (Continued from the October 2, 1974, Examiner Hearing)

In the matter of Case No. 4976 being reopened pursuant to the provisions of Order No. R-4638 to permit all operators in the West Parkway-Strawn

#### (Case 4976 continued from Page 1)

and West Parkway-Atoka Gas Pools in Section 28, Township 19 South, Range 29 East, Eddy County, New Mexico, to appear and present evidence to clearly establish the nature of the reservoirs, proper rates of production for wells therein, and special rules therefor.

#### CASE 5313: (Continued and Readvertised)

Application of El Paso Natural Gas Company for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Aztec-Pictured Cliffs and Blanco-Mesaverde production in the wellbore of its Ludwick Well No. 11 located in Unit B of Section 19, Township 30 North, Range 10 West, San Juan County, New Mexico.

- CASE 5338: Application of Amerada Hess Corporation for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced water into the Devonian formation through the open-hole interval from 10,980 feet to 11,180 feet in its State BTC Well No. 1, located in Unit N of Section 35, Township 11 South, Range 33 East, Bagley Siluro-Devonian Pool, Lea County, New Mexico.
- CASE 5339: Application of John L. Cox for calt water disposal, Lea County, New Mexico. Applicant in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation through the open-hole interval from approximately 4989 feet to 5017 feet in his U.S.M. Well No. 2, located in Unit H of Section 27, Township 9 South, Range 37 Fast, West Sawyer-San Andres Pool, Lea County, New Mexico.
- CASE 5340: Application of Atlantic Richfield Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its State BR Well No. 1, located in Unit K of Section 16, Township 21 South, Range 26 East, Eddy County, New Mexico, in such a manner as to produce gas from an undesignated Atoka gas pool through the tubing and gas from an undesignated Morrow gas pool through the casing-tubing annulus by means of a crossover assembly.
- CASE 5341: Application of Texas Oil & Gas Corporation for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Williamson Fed. Well No. 3, located 660 feet from the North line and 1980 feet from the East line of Section 9, Township 20 South, Range 29 East, NMPM, Burton Flats-Morrow Gas Pool, Eddy County, New Mexico, the E/2 of said Section 9 to be dedicated to the well.
- CASE 5342: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Leon Davis, Fidelity and Deposit Company of Maryland, and all other interested parties to appear and show cause why the New Mexico State "Heart" Well No. 1, located in Unit J of Section 16, Township 14 North, Range 32 East, NMPM, Harding County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.



Jan 5345

September 17, 1

MEXICO 88240 CONSERVATION COMM

Senta Fe

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

> RE: REQUEST FOR EXAMINER HEARING Application for Downhole Commingling G. L. Erwin "B" Federal (NCT-2) Well No. 5 Justis, North (Montoya, Ellenburger, and Fusselman) Pools Lea County, New Mexico

ATTENTION: MR. A. L. PORTER, JR.

Gentlemen:

It is requested that an examiner hearing be scheduled to consider TEXACO's application to downhole commingle the Justis, North (Montoya, Ellenburger, and Fusselman) Pools in the G. L. Erwin "B" Federal (NCT-2) Well No. 5 located in Unit P of Section 35, Township 24 South, Range 37 East, Lea County, New Mexico.

The USGS and all offset operators have been notified of this application.

Your cooperation in this matter will be appreciated.

Yours very truly,

- O Hannow of

District Superintendent

JBS:kw MAS, Jr. NMOCC - Hobbs USGS - Hobbs Offset Operators JSR - Midland

DUCKET MALLED

#### DATA SHEET FOR WELLBORE COMMINGLING

2:22 5345

Operator: Texaco Inc.

Address: P.O. Box 728, Hobbs, New Mexico 88240

Lease and Well No.: C.L. Erwin "B" Federal (NCT-2) No. 5

Location: 330' FSL & 330' FEL of Sec. 35, Township 2h South, Range 37 East, Lea County, New Morris

Mexico WELL DATA Upper Pool Middle Pool Lower Pool Justis Justis Justis Name of Pool Fusselman North Montova North Ellenburger North Producing Method Pump Pump Pump BHP 1000 (Est.) 1000 (Est.) 1300 (Est.) Type Crude Sweet Sweet **Bweet** 39.6 Gravity 39.9 39.6 2000 GOR Limit 2000 2000 Completion Interval 69501-70601 71181-71301 83321-83591 Current Test Date 8-30-74 8-28-74 8-29-74 18 011 2 7 Water 1 0 GOR TSTM 4875 TSTM Selling Price of Crude -5.29 \$/BBL. 5.29 5.29 10.58 Dally Income - \$/Day 95.22 5.29 COMMINGLED DATA: Gravity of Commingled Crude 39.6 Selling Price of Commingled Crude - \$/BBL. 5.29 Daily Income - \$/Day

Het (Gain) (四級) from Wellbore Commingling - \$/Day 105.80 (Production increase of 20 BOPD) based on current producing rates.

# NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Revised 1-1-65

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Operator TEXACO Inc.			Po	O1	See	Below					Col	unly	Lea				
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No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mall original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

(Signature)

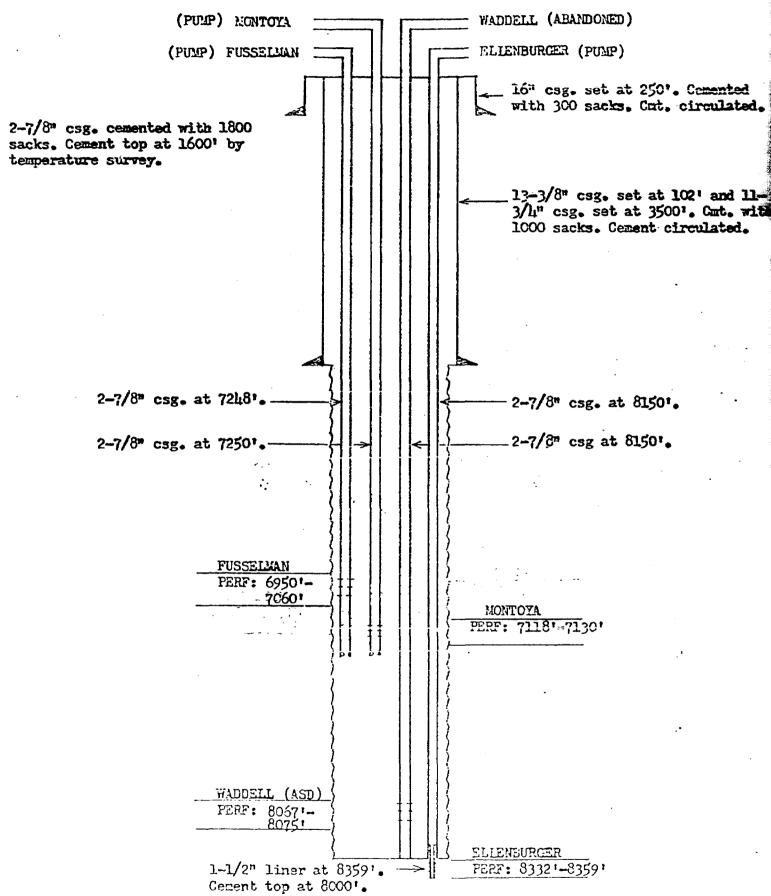
Assistant District Superintendent

(Title)

September 10, 1974

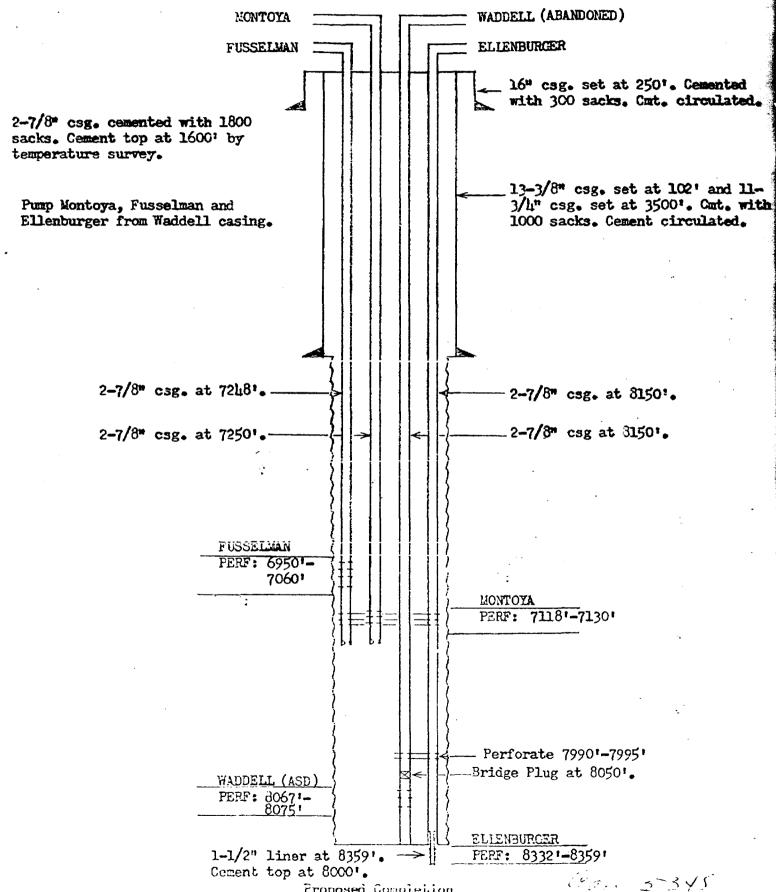
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Present Completion
G.L. ERWIN "B" FEDERAL (NCT-2) NO. 5
JUSTIS NORTH (FUSSELMAN, MONTOYA,
WADDELL AND ELLENBURGER) POOLS
LEA COUNTY, NEW MEXICO

con 5-345



Proposed Completion
G.L. ERWIN "B" FEDERAL (NCT-2) NO. 5
JUSTIS NORTH (FUSSELMAN, MONTOYA,
WADDELL AND ELLENBURGER) POOLS
LEA COUNTY, NEW MEXICO

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#### OFFSET OPERATORS

Gulf Oil Corporation - U.S. 900 N. Turner Hobbs, New Mexico 88240

National Cooperative Refinery Associates 915 Wilco Building Midland, Texas 79701

Amerada Hess Corporation P. O. Box 591 Midland, Texas 79701

Shell Oil Company
P. O. Box 1509
Midland, Texas 79701

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JUSTIS & LANGEIE MATTIX POOLS

LEA COUNTY, NEW MEXICO

SCALE. 0 1090 2000 

### 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. 5345

Order No. R-4/895

19

APPLICATION OF TEXACO INC. FOR DOWNHOLE COMMINGLING, LEA COUNTY, NEW MEXICO.

# ORDER OF THE COMMISSION

## BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 16 at Santa Fe, New Mexico, before Examiner Richard L. Stamets

NOW, on this a quorum being present, having considered the testimony, the record, day of and the recommendations of the Examiner, and being fully advised

#### FINDS:

- That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject
- That the applicant, Texaco Inc., is the owner and operator of the G. L. Erwin "B" Fed. (NCT-2) Well No. 5, located in Unit P of Section 35, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico.

-2-CASE NO. 5345 Order No. R-

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- (3) That the applicant has completed said well as a quadruple tubingless completion in the North Justis-Fusselman, North Justis-Montoya, Waddell, and North Justis-Ellenberger Pools under authority granted by the Commission by its Administrative Order MC-1237-A.
- (4) That the applicant seeks authority to commingle Fusselman, Montoya and Ellenburger production within the wellbore of the above-described well in such a manner as to permit commingled oil to be produced from former Waddell casing string with all part of the commingled gas to be produced from any of the various casing strings.
  - (5) That the Waddell zone is to be abandoned.
- (6) That from the Fusselman zone, the subject well is capable of marginal production only.
- (7) That from the Montoya zone, the subject well is capable of low marginal production only.
- (8) That from the Ellenburger zone, the subject well is capable of low marginal production only.
- (9) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.
- (10) That the reservoir character sits of each of the subject zones are such that underground waste woul! not be caused by the proposed commingling provided that the well is not shut-in for an extended period.
- (11) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Hobbs district office of the Commission any time the subject well is shut-in for 7 consecutive days.
- (12) That in order to allocate the commingled production to each of the commingled zones in the subject well, 43 percent of the

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CASE NO. 5345 Order No. R-

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commginled oil production should be allocated to the Fusselman zone, 20 percent of the commingled oil production to the Montoya zone, 37 percent should be allocated to the Ellenburger zone, and 100 percent of the commandled gas production should be allocated to the Montoya zone.

(13) That the Secretary-Director of the Commission should administratively adjust the percentages in Finding No. (10) above if subsequent testing indicates such adjustment would permit more accurate allocation of the commingled production.

#### IT IS THEREFORE ORDERED:

- (1) That the applicant, Texaco Inc., is breby authorized to commingle Fusselman, Montoya and Ellenburger production within the wellbore of the G.L. Erwin "B" Fed. (NCT-2) Well No. 5, located in Unit P of Section 35, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner as to permit commingled cit to be produced from the former Waddell casing string and all or any part of the commingled gas to be produced from any of the various casing strings.
- (2) That 43 percent of the commingled oil production shall be allocated to the Fusselman zone, 20 percent of the commingled oil production shall be allocated to the Montoya zone, 37 percent of the commingled oil production shall be allocated to the Ellenburger zone and 100 percent of the commingled gas production should be allocated to the Montoya zone;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may administratively adjust said percentages if subsequent testing should indicate such adjustment would permit more accurate allocation of the commingled production.

(3) That the operator of the subject well shall immediately notify the Commission's Hobbs district office any time the well

**CASE NO. 5345** Order No. R-

has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action.

(4) That jurisdi ction 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.