CASE 4890; Application of TEXACO ON DOWNHOLK COMMINGLING, LEA COUNTY, NEW MEXICO.

4 Jan. 170

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-ase Number 2 (S)

Application Transcripts.

Small Exhibits

dearnley, meier & mc cormick and the serior

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MR. CARR: Case 4890, Application of Texaco Incorporated for downhole commingling, Lea County, New Mexico. MR. KELLY: Booker Kelly, of White, Koch, Kelly and McCarthy of Santa Fe, appearing on behalf of the Applicant. KENNETH PETERS, sworn to testify upon his oath as follows: DIRECT EXAMINATION BY MR. KELLY: Would you state your name and by whom you are employed and in what capacity? My name is Kenneth Peters, I'm the District Production Engineer for Texaco Incorporated, located in Hobbs, New Mexico. And have you previously qualified as an expert witness in the field of petroleum engineering before the Commission? Yes, I have. Referring to the plat which has been marked Exhibit One, Q would you state what Texaco seeks? Texaco requests that approval be granted to wellbore commingle the fluids from the Vacuum-Upper Pennsylvanian, the Vacuum-Abo North, and the Vacuum-Wolfcamp, located

in its Texaco Mobil State Well No. 1, in order to economically recover additional oil that would be

Case 4890.

MR. UTZ:

otherwise unrecovered under existing rules and regulations.

Plat number one shows the Texaco-Mobil lease outlined in yellow, and Well No. 1 is designated by the red arrow. The well is located in Unit H of Section 25, Township 17 South, Range 34 East, Lea County, New Mexico; and this well was completed in July, 1964, as a trim-tubingless completion as authorized by Commission Order Number MC-1526, dated August 23, 1964.

This plat also shows those existing wells within a minimum of two miles adjacent to the subject well, and their formations are designated by the letter below the well and the legend at the bottom of the plat designates their pool.

- Now, could you give the Examiner a history of these three zones in this well and also the present status of the well itself?
 - Okay. Referring to plat two showing the present completion of the well, the well has surface casing of 13 3/8 set at 350 foot and cement circulated to the surface with 400 sacks. There is an intermediate casing of 9 5/8 set at 4,800 feet, and that casing also has cement circulated with 1,700 sacks.

The well is completed with 2 7/8 casing strings, three of them set at a T.D. of approximately 10,300

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MS'BLDG. • 17.0. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO 87103 6 first national bank blog. East • Albuquerque, new mexico 87108 feet. At the present time, the Abo North and the Vacuum-Wolfcamp are downhole commingled, and this was done by Administrative Order DHC-12, dated December 8, 1969; and at that time, sixty-nine percent of the production was allocated to the Abo Zone, and the remaining thirty-one percent was allocated to the Wolfcamp Zone.

- All right. Now, referring to what has been marked as Exhibit Three, would you go over the information contained in that?
- A Exhibit Number Three shows the well data involved.

 We have the three zones flowing, the Wolfcamp and the

 Abo flow intermittently and must be swabbed frequently.

 The bottom hole pressures of these three zones were

 taken by a pressure bottom.

The Abo and the Wolfcamp, since they are commingled, are the same at 743 PSI, and the Pennsylvanian is 336 PSI.

The crude oil that is produced is sweet. The common gravity of the Abo and Wolfcamp is 39.4; that of the Pennsylvanian is 38.9.

The field has a GOR limit, these three pools, have 2,000. The completion interval is shown, and the current producing rates are shown by these tests.

The Abo North is producing at ten barrels of oil

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per day, one barrel of water, with a GOR of 766. The Wolfcamp is producing five oil, no water, with a GOR of 701. And, the Penn is producing eleven oil, no water, with a GOR of 1,250. The total production from these three pools is twenty-six oil and one water; and it may be noted that the water is negligible from these three zones.

The selling price of the crude is about \$3.50 per barrel of oil. These three crudes are presently commingled on the surface by Administrative Order PC-236, dated October 19, 1964; and there was no loss in the value of the crude.

Therefore, if the application is approved, downhole commingling will not reduce the value of the crude. So, what you've got here, are two already approved commingled zones, and surface commingling approved on all three already?

That's correct. Α

Now, is one of the already commingled zones in an Q already approved secondary recovery project? Yes, Mobil Oil Corporation had an application approved A to initiate a secondary recovery operation in the Vacuum-Abo North Pool; and the subject well is located in this pool. By study of the well logs, it appears that the zone of interest, the Abo Zone, is limited

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1		on permeability and porosity.
2	Q	Do you feel that commingling would have any adverse
3	s Ta	effect on the project?
4	A	No, I don't.
5	Q	If it should be determined at a later date that it is
6		having some effect, what would you suggest?
7	A	If commingling, if the approval of this application
8		to downhole commingle the three zones would have a
9		detrimental effect on reserves that are assigned to
10		the Abo, the Vacuum-Abo, Texaco would re-segregate the
11	·	Abo Zone by placing a bridge plug below that present
12		completion interval, therefore isolating it from the
13	ſ	other two zones.
14	Q	Who is the operator of that fluid?
15	A	Mobil Oil Corporation.
16	Q	And does Mobil have an interest in the subject well?
17	A	Yes. This well was drilled under communitization,
18		Texaco and Mobil both own fifty percent of the well.
19	Ω	Now, is all your other interest in the well common?
<u>2</u> 0	A	Yes.
21	Q	I take it there has been no response at all to date,
22		though, as far as this well is concerned, on that
23		project?
24	A	No, there hasn't.

All right. Now, your next exhibit shows your completion

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SPICE BOX 1092-FINDER AND SERVICE STORY OF SPICE SERVICE STORY SERVICE S

Yes, sir. Exhibit Four is like the existing completion exhibit. Texaco will downhole commingle the three zones by re-perforating the existing Vacuum-Penn section into the Vacuum-Wolfcamp and the Abo North, and produce all three zones through the Vacuum and string. This, although all three zones are flowing, production will be obtained through a rod pop; and this is to assure that the wellbore is pumped down at all times to eliminate possibilities of crossflow, which would result in a potential loss in reserves.

that you propose, is that correct?

Texaco will monitor this pump-down situation through additional well tests more frequently than those that are required on a normal well; and also through the use of a dynamometer, get surveys which would give the bottom hole pressure.

- Q All right. Now, Exhibits Five and Six and Seven are performance curves on each of the zones.
- A Yes, sir.
- Q Would you go through those exhibits?
- A Exhibit Number Five is depicting the performance of the Penn Zone which is presently at a twenty-six percent decline rate. If it continues to produce as a single completion, it will reach its economic limit in June, 1975. If the subject application is approved, the

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Penn Zone will have a lower economic limit through the combining of the three zones and it will reach an economic limit, then, in April, 1977, thereby recovering an additional 2,380 barrels of reserves. And its present rate is what, now, eleven?

- The present producing rate is eleven barrels per day. Α
- All right. Let's go on to Exhibit Number Six. Q
 - Exhibit Number Six exemplifies the performance curve of the Abo Zone, which is producing ten barrels of oil per day at a twenty-six percent decline rate. It will reach its economic limit as a dual completion, or multiple completion, with the Abo Zone -- correction, with the Wolfcamp Zone -- as it is now downhole commingled, in June of 1974. By downhole commingling all three zones, it will reach its economic limit also in 1977, thereby recovering an additional 4,740 barrels of oil.
- All right. Go on to the last performance curve.
 - Exhibit Number Seven exemplifies the Wolfcamp performance curve. The Wolfcamp presently produces five barrels per day at a twenty one percent decline rate. It will reach an economic limit under the present producing status in June of 1974; but if allowed to be downhole commingled with the three zones, it will reach its economic limit, too, in April, 1977, thereby recovering

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	an additional 2,640 barrels of oid.
Q	an additional 2,640 barrels of or
A 8 9 10	Yes, that is correct. If the application is approved, based on present producing rates, the following production allocations may be made. For proration purposes, on the oil, the Penn would receive forty-two percent, the Abo would receive thirty-nine percent, and the Wolfcamp the remaining nineteen percent. For gas proration, the Penn Zone would receive fifty-five percent, the Abo would receive thirty-one percent, and the Wolfcamp would
13	receive thirty-one percent, receive fourteen percent. MR. UTZ: Now, what was the oil percentage that
15 16 17 18 19 20	you gave? THE WITNESS: The Penn Zone would receive forty-two percent, the Abo would receive thirty-nine percent, and the Nolfcamp would receive nineteen percent. Nolfcamp would receive nineteen percent. (By Mr. Kelly) Now, your allocations between the Abo and the Wolfcamp, have they continued to show a decline,
21 22 21 NATIONAL 22 22 22 22 22 22 22 22 22 22 22 22 22	your production? your production? yes, sir, they have, exemplified by the two performance
2	curves. Q In your opinion, would the granting of this application

PAGE 11 prevent waste by allowing you to produce oil and gas that would otherwise be left in-place? 2 Yes, sir, it would. dearnley, meier & mc cormick reporting Were Exhibits One through Seven prepared by you or under Q 4 your supervision? 5 Yes, sir, they were. 6 MR. KELLY: I would move the introduction of 7 Texaco's Exhibits One through Seven. MR. UTZ: Without objection, Exhibits One through Seven will be entered into the records of this case. 10 MR. KELLY: I have nothing further at this time, 11 Mr. Examiner. 13 CROSS EXAMINATION 14 BY MR. UTZ: 15 Mr. Peters, the Abo and the Wolfcamp are now pumping? 16 No, sir, both of these zones are flowing, but they are 17 flowing intermittently and they must be swabbed frequently. 18 How about the Penn Zone? 19 It is flowing also. 20 Now, did you say you intended to pump these? Q 21 Α Yes, sir. This is to insure that all production coming 22 to the wellbore through the commingling would be 23 produced. 24 Now, how are you going to pump them?

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dearnley, meier & mc cormick

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A	With	а	standard	rod	pump.

- On each zone, each set of tubing?
- No, we would just have the rod pump placed in the Vacuum-Penn Zone, which is the deepest of the three zones.
- All three of these sets of tubing are actually casings Q set in cement?
- Yes, sir.
- And you will perforate, in order to effect the commingling?
- Yes, sir.

MR. UTZ: Are there other questions of the witness? MR. SEEREY: Mr. Examiner, I'm John Seerey, with Mobil, we would like to make a statement at the conclusion of this case.

> MR. UTZ: The witness may be excused. Make your statement.

MR. SEEREY: Mobil Oil Corporation, as offset operator and working interest owner in the subject Mobil State Well No. 1, questions the wisdom of uncontrolled downhole commingling in the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Penn Zones in this well.

The upper zone of the North Vacuum-Abo Pool in the North Vacuum-Abo Unit will soon be under pressure maintenance operations as testified to. This unit offsets Texaco's Mobil State Well No. 1, and because of the entered

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injectivity, this zone will be at a higher pressure than the lower zones, which would not be on fluid injection. And under these circumstances, Mobil feels it is possible in the future for oil from the pressured zone in the North Vacuum-Abo to be lost into the lower zone.

We therefore respectfully recommend that any order allowing the downhole commingling in this wellbore has such safeguards to insure that response, production from Mobil's unit operations, will not be lost to the lower zone.

> MR. UTZ: Do you have a copy of your statement? MR. SEEREY: Yes, sir.

MR. KELLY: Mr. Utz, I would object to that statement being allowed into the record. It is a statement which purports to be factual rather than just a statement. The man was not sworn, usually statements are limited to statement of position, either pro or con; but he's attempted to present data as to what pressure effects might be.

MR. UTZ: Well, the North Vacuum-Abo is a pressure maintenance project offsetting this well, is it not?

THE WITNESS: Yes, it is.

MR. UTZ: And you mentioned that in your testimony? THE WITNESS: Yes.

MR. KELLY: If that's the case, I'd like to be able to ask my witness one more question.

MR. UTZ: Fine.

REDIRECT EXAMINATION

BY MR. KELLY:

- O Do you feel that the higher pressures in the Abo would have any adverse effect on this?
- A No effect whatsoever, so long as the wellbore condition remains to be pumped down, as we intended to do so.

MR. KELLY: Mr. Examiner, I'd also like to ask you to take administrative notice of an application that I understand was granted recently, a Getty Oil application. It was Case No. 4888, and referring to Exhibit Number One, this particular application was in Section 36 immediately south, and it was in the Northwest of the Northwest, Well No. 6 there of Getty. As I understand it, and I think the transcript will bear me out, that was an identical application to this, even the same zones were par commingled and then the Penn was added to it.

There was an order entered some time in the last week or so.

MR. UTZ: Which well was it in Section 36?

MR. KELLY: It's in the Northwest of the Northwest, it's Getty's Number 6.

That's all we have.

MR. UTZ: All right. And I will again excuse the witness.

If there is nothing further, the case will be

	1	taken under advisement.
	2	The hearing is adjourned.
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COUNTY	OF B	ERNAL	ILLO	}

I, JOHN DeLaROSA, a Certified Shorthand Reporter, 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.

ERTIFIED SHORTHAND REPORTER

I do heroby certify that the foregoing to a complete record of the proceedings in the Examiner hearing of Case No. 4. 12. Exeminer

New Mexico Cil Conservation Consission

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BEFORE THE dearnley, meier & mc cormick reporting service no. NEW MEXICO OIL CONSERVATION COMMISSION OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO January 3, 1973 EXAMINER HEARING IN THE MATTER OF: Case No. 4890 Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Daniel S. Nutter, BEFORE: Examiner 10 11 12 13 14 15 16 17 18 19 TRANSCRIPT OF HEARING 20 21 22 23 24

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4890, application of Texaco Inc. MR. CARR: downhole commingling, Lea County, New Mexico. The applicant has requested that this case be continued to January 17.

Case 4890 will be continued to the MR. NUTTER: Examiner Hearing to be held at this same place at 9:00 A.M., January 17, 1973.

We will now call Case 4891.

STATE OF NEW MEXICO COUNTY OF BERNALILLO

I, JANET RUSSELL, a Court Reporter, 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.

I do hereby certify that the foregoing is COURT a complete record of the preseeding the Examiner hearty of Case No. 4890

New Mexico Oil Conservation Commission

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OIL CONSERVATION COMMISSION

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

February 14, 1973

GOVERNOR BRUCE KING CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

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

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	DA.	Case No.	4890
Mr. Booker Kelly		order No.	R-4475
Mr. Booker Kelly & McCar White, Koch, Kelly & McCar Attorneys at Law Post Office Box 787 Santa Fe, New Mexico	: :: ::	Applicant: Texac	o Inc.
Dear Sir: Enclosed herewith are two commission order recently	o copies y entered	of the above i in the sub	e-referenced ject case.
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BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

CASE NO. 4890 Order No. R-4475

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 January 17, 1973, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 14th day of February, 1973, 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 Mobil State Well No. 1, located in Unit H of Section 25, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.
- (3) That pursuant to authority granted by Administrative Order MC-1526, said Well No. 1 was completed by the applicant as a triple completion (tubingless) to produce oil from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools.
- (4) That subsequently Administrative Order DHC-12 authorized downhole commingling of the Abo and Wolfcamp production in the subject well.
- (5) That each of the three zones in the subject well is capable of only low marginal production.
- (6) That the applicant now seeks authority to complete said Well No. 1 in such a manner as to produce oil from the subject well through one string of 2 7/8-inch casing, commingling in the wellbore the production from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools.

-2-Case No. 4890 Order No. R-4475

- (7) That the proposed commingling in the subject well of the three zones may substantially extend the productive lives of said zones in the subject well.
- (8) That the reservoir characteristics of each of the zones in the subject well are such that underground waste would not be caused by the proposed commingling in the wellbore.
- (9) That the proposed commingling may result in the recovery of additional oil from each of the commingled zones in the subject well, thereby preventing waste, and will not violate correlative rights.
- (10) That the mechanics of the proposed completion are feasible and in accord with good conservation practices.
- (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 seven consecutive days.
- (12) That the allowable and commingled production should be allocated to each of the zones in the well upon the basis of 40 percent North Vacuum-Abo, 20 percent Vacuum-Wolfcamp, and 40 percent Vacuum-Upper Pennsylvanian.
- (13) That approval of the subject application will prevent waste-and protect correlative rights.
- (14) That Administrative Orders MC-1526 and DHC-12 should be superseded.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Texaco Inc., is hereby authorized to complete its Mobil State Well No. 1, located in Unit H of Section 25, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, in such a manner as to produce oil from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools through one string of 2 7/8-inch casing, commingling in the wellbore the production from the pools.
- (2) That the allowable and commingled production shall be allocated to each of the zones commingled in the wellbore of the subject well on the basis of 40 percent to the North Vacuum-Abo, 20 percent to the Vacuum-Wolfcamp, and 40 percent to the Vacuum-Upper Pennsylvanian.
- (3) That the commingling in the wellbore authorized by this order shall continue only so long as the commingled production of the three zones does not indicate significant stimulation of any of the zones by pressure maintenance operations in the area.

-3-Case No. 4890 Order No. R-4475

- (4) That the maximum amount of gas which may be produced daily from the commingled zones in the subject well shall be determined by multiplying 2,000 by the top unit allowable for the Vacuum-Upper Pennsylvanian Pool.
- (5) 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 seven consecutive days and shall concurrently present to the Commission a plan for remedial action.
- (6) 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.
- (7) That Administrative Orders MC-1526 and DHC-12 are hereby superseded.
- (8) 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 JAMIJO Member

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

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Ccese 4890 Securt Deface permission to Lownhole coommingle oil perdution from the Three zonds in their Dejaco State # 1 H - 25 - 175 - 346. These 3 onle cire; Steppen Volument -Supportort Metalepool. Horth Vacuum - abo Voccum-Wolfcomp Voccum- Sepper Penn. Lawer Pool. No lose im value of aitwell to result. sker welle are of a very marginal

Docket No. 2-73

CASE 4893:

Application of Continental Oil Company for three non-standard provation units. Lea County, New Mexico. Applicant, in the above styled cause, seeks approval for the following non-standard gas provation units, Eumont Gas Pool, Lea County, New Mexico:

A 200-acre unit comprising the N/2 NE/4, SE/4 NE/4, and N/2 SE/4 of Section 18, Township 21 South, Range 36 East, to be dedicated to the Meyer A-1 Well No. 6 located in Unit B of said Section 18; a 320-acre unit comprising the S/2 of Section 12, Township 19 South, Range 36 East, to be dedicated to the State KN-12 Well No. 1 located in Unit P of said Section 12; and a 158.9-acre unit comprising the N/2 S/2 of Section 7, Township 19 South, Range 37 East, to be dedicated to the State A-7 Com No. 1 located in Unit I of said Section 7.

CASE 4894:

Application of Felmont Oil Corporation for a dual completion, contraction of vertical limits, creation of a new pool, and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the vertical limits of the Atoka-Pennsylvanian Gas Pool, Eddy County, New Mexico, to exclude the producing interval from 8894 feet to 8914 feet as found in its Aaron Unit Well No. 1, located in Unit N of Section 11, Township 18 South, Range 26 East, and to redesignate said Atoka-Pennsylvanian Gas Pool as the Atoka-Lower Pennsylvanian Gas Pool, and for the creation of a new pool for the above-described producing interval to be designated Atoka-Upper Pennsylvanian Gas Pool. Applicant also seeks the adoption of special rules for said proposed new pool similar to the pool rules for the presently existing Atoka-Pennsylvanian Gas Pool; applicant further seeks approval for the dual completion of the above-described well to produce from the aforesaid two pools.

CASE 4895:

Application of Llano, Inc. for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Grama Ridge Morrow Unit Area comprising 1,280 acres, more or less, of State Lands in Townships 21 and 22 South, Range 34 East, Lea County, New Mexico.

CASE 4896:

Application of Llano, Inc. for gas injection, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to inject gas for secondary recovery and gas storage purposes in the Morrow formation through its State GRA Well No. 1 located in Unit N of Section 3, Township 22 South, Range 34 East, and its State GRB Well No. 1 located in Unit L of Section 34, Township 21 South, Range 34 East, Grama Ridge-Morrow Gas Pool, Lea County, New Mexico.

CASE 4890:

(Continued from the January 3, 1973 Examiner Hearing)

Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks as an exception to Rule 303 of the Commission Rules and Regulations, authority to commingle production from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools in the wellbore of its Mobil State Well No. 1 located in Unit H of Section 25, Township 17 South, Range 34 East, Lea County, New Mexico.

DOCKET: EXAMINER HEARING - WEDNESDAY - JANUARY 17, 1973

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 Elvis A. Utz, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for February,

 1973 from seventeen product pools in Lea, Eddy, Roosevelt

 and Chaves Counties, New Mexico;
 - (2) Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico for February, 1973.

CASE 4875: (Continued from December 19, 1972 Examiner Hearing)

Application of ESH Corporation for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Lower San Andres formation in the perforated interval from 5144 feet to 5170 feet in its Hobbs State Well No. 5 located in Unit F of Section 29, Township 18 South, Range 38 East, Hobbs Field, Lea County, New Mexico.

CASE 4860: (Continued from the December 19, 1972 Examiner Hearing)

Application of Craig Folson for an unorthodox oil well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a well to test the Queen formation at an unorthodox oil well location 1340 feet from the South line and 1300 feet from the East line of Section 12, Township 13 South, Range 31 East, Caprock-Queen Pool, Chaves County, New Mexico.

CASE 4482: (Reopened) (Continued from the January 3, 1973 Examiner Hearing)

In the matter of Case 4482 being reopened pursuant to the provisions of Order No. R-4093-A, which order continued the special rules and regulations for the Parkway-Strawn Pool, Eddy County, New Mexico, for a period of one year. All interested parties may appear and show cause why said special pool rules should be further extended.

CASE 4892: Application of Mobil Oil Corporation for a dual completion and water injection, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Carson Watson Com Well No. 13 located in Unit G of Section 33, Township 21 South, Range 37 East, in such a manner as to permit the production of gas from the Tubb Gas Pool and the injection of water into the Drinkard formation underlying the Central Drinkard Unit, Drinkard Pool, Lea County, New Mexico.

DOCKET: EXAMINER HEARING - WEDNESDAY - JANUARY 17, 1973

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 Elvis A. Utz, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for February,
 1973 from seventeen prorated pools in Lea, Eddy, Roosevelt
 and Chaves Counties, New Mexico;
 - (2) Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico for February, 1973.

CASE 4875: (Continued from December 19, 1972 Examiner Hearing)

Application of ESH Corporation for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Lower San Andres formation in the perforated interval from 5144 feet to 5170 feet in its Hobbs State Well No. 5 located in Unit F of Section 29, Township 18 South, Range 38 East, Hobbs Field, Lea County, New Mexico.

CASE 4860: (Continued from the December 19, 1972 Examiner Hearing)

Application of Craig Folson for an unorthodox oil well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a well to test the Queen formation at an unorthodox oil well location 1340 feet from the South line and 1300 feet from the East line of Section 12, Township 13 South, Range 31 East, Caprock-Queen Pool, Chaves County, New Mexico.

CASE 4482: (Reopened) (Continued from the January 3, 1973 Examiner Hearing)

In the matter of Case 4482 being reopened pursuant to the provisions of Order No. R-4093-A, which order continued the special rules and regulations for the Parkway-Strawn Pool, Eddy County, New Mexico, for a period of one year. All interested parties may appear and show cause why said special pool rules should be further extended.

CASE 4892: Application of Mobil Oil Corporation for a dual completion and water injection, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Carson Watson Com Well No. 13 located in Unit G of Section 33, Township 21 South, Range 37 East, in such a manner as to permit the production of gas from the Tubb Gas Pool and the injection of water into the Drinkard formation underlying the Central Drinkard Unit, Drinkard Pool, Lea County, New Mexico.

Docket No. 2-73

CASE 4893:

Application of Continental Oil Company for three non-standard proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the following non-standard gas proration units, Eumont Gas Pool, Lea County, New Mexico:

A 200-acre unit comprising the N/2 NE/4, SE/4 NE/4, and N/2 SE/4 of Section 18, Township 21 South, Range 36 East, to be dedicated to the Meyer A-1 Well No. 5 located in Unit B of said Section 18; a 320-acre unit comprising the S/2 of Section 12, Township 19 South, Range 36 East, to be dedicated to the State KN-12 Well No. 1 located in Unit P of said Section 12; and a 158.9-acre unit comprising the N/2 S/2 of Section 7, Township 19 South, Range 37 East, to be dedicated to the State A-7 Com No. 1 located in Unit I of said Section 7.

CASE 4894:

Application of Felmont Oil Corporation for a dual completion, contraction of vertical limits, creation of a new pool, and special pool rules, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the vertical limits of the Atoka-Pennsylvanian Gas Pool, Eddy County, New Mexico, to exclude the producing interval from 8894 feet to 8914 feet as found in its Aaron Unit Well No. 1, located in Unit N of Section 11, Township 18 South, Range 26 East, and to redesignate said Atoka-Pennsylvanian Gas Pool as the Atoka-Lower Pennsylvanian Gas Pool, and for the creation of a new pool for the above-described producing interval to be designated Atoka-Upper Pennsylvanian Gas Pool. Applicant also seeks the adoption of special rules for said proposed new pool similar to the pool rules for the presently existing Atoka-Pennsylvanian Gas Pool; applicant further seeks approval for the dual completion of the above-described well to produce from the aforesaid two pools.

CASE 4895:

Application of Llano, Inc. for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Grama Ridge Morrow Unit Area comprising 1,280 acres, more or less, of State Lands in Townships 21 and 22 South, Range 34 East, Lea County, New Mexico.

CASE 4896:

Application of Llano, Inc. for gas injection, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to inject gas for secondary recovery and gas storage purposes in the Morrow formation through its State GRA Well No. 1 located in Unit N of Section 3, Township 22 South, Range 34 East, and its State GRB Well No. 1 located in Unit L of Section 34, Township 21 South, Range 34 East, Grama Ridge-Morrow Gas Pool, Lea County, New Mexico.

CASE 4890:

(Continued from the January 3, 1973 Examiner Hearing)

Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks as an exception to Rule 303 of the Commission Rules and Regulations, authority to commingle production from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools in the wellbore of its Mobil State Well No. 1 located in Unit H of Section 25, Township 17 South, Range 34 East, Lea County, New Mexico.

TEXACO

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PETROLEUM PRODUCTS



January 3, 1973

JAN 5 - 1973

OIL CONSERVATION BEQUITY MEXICO 88240

Santa Fe

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

Re: Examiner Hearing-January 3, 1973

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

Gentlemen:

TEXACO Inc. via phone conversation with Commission secretary Mrs. Ida Rodriguez on January 2, 1973, requested that the referenced case be continued due to inclement weather. hearing to be held on January 17, 1973.

Yours very truly,

v. Gannon

District Superintendent

KLP-ar

MAS, Jr.

DOCKET MAILED

Date 1-5-7

DOCKET: EXAMINER HEARING - WEDNESDAY - JANUARY 3, 1973

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 Elvis A. Utz, Alternate Examiner:

CASE 4723: (Continued from May 17, 1972 and July 12, 1972 Examiner Hearings)

Application of Black River Corporation for pool abolishment, creation of two new gas pools, and a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the abolishment of the Washington Ranch-Morrow Gas Pool, Eddy County, New Mexico, and the creation of the Washington Ranch-Upper Morrow and Washington Ranch-Lower Morrow Gas Pools for the production of gas from the upper and lower Morrow formations. Applicant further seeks approval of the dual completion (conventional) of its Cities 3 Federal Well No. 1 located in Unit F of Section 3, Township 26 South, Range 24 East, to produce the lower Morrow through tubing and the upper Morrow through the casing-tubing annulus.

CASE 4876: (Continued from the December 19, 1972 Examiner Hearing)

Application of Gulf Oil Corporation for an unorthodox oil well location and amendment of Order No. R-2248, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its West Dollarhide Devonian Unit Well No. 118 at an unorthodox location West Dollarhide Devonian Unit Well No. 118 at an unorthodox location 2540 feet from the South line and 1420 feet from the West line of Section 33, Township 24 South, Range 38 East, West Dollarhide-Devonian Fool, Lea County, New Mexico. Applicant further seeks the amendment of Order No. R-2248 to provide for administrative approval of additional production and injection wells in the aforesaid unit at unorthodox locations.

CASE 4886: Application of Gulf Oil Corporation for two non-standard proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for two non-standard 80-acre oil proration cause, seeks approval for two non-standard 80-acre oil proration units comprising the SW/4 NE/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 NE/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 NE/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 NE/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units comprising the SW/4 Ne/4 and NW/4 SE/4, and the SW/4 SE/4 and units co

CASE 4482: (Reopened)

In the matter of Case 4482 being reopened pursuant to the provisions of Order No. R-4093-A, which order continued the special rules and regulations for the Parkway-Strawn Pool, Eddy County, New Mexico, for a period of one year. All interested parties may appear and show cause why said special pool rules should be further extended.

Examiner Hearing - Wednesday - January 3, 1973

CASE 4887: Application of GeoLectric, Inc. for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of gas production from the Aztec-Fruitland and Aztec-Pictured Cliffs Gas Pools in the wellbore of its Ransom Well No. 1 located in Unit I of Section 13, Township 29 North, Range 11 West, San Juan County, New Mexico.

CASE 4888: Application of Getty Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks as an exception to Rule 303 of the Commission Rules and Regulations, authority to commingle production from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools in the wellbore of its State "BA" Well No. 6 located in Unit D of Section 36, Township 17 South, Range 34 East, Lea County, New Mexico.

CASE 4889: Application of Universal Resources Corporation for a non-standard proration unit or in the alternative for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for a non-standard gas proration unit comprising the SW/4 and S/2 SE/4 of Section 16, Township 32 North, Range 12 West, Blanco-Mesaverde Pool, San Juan County, New Mexico, to be dedicated to a well to be drilled approximately 1190 feet from the South line and 1850 feet from the West line of said Section 16, or, in the alternative, applicant seeks an order pooling all mineral interests in the Blanco-Mesaverde Pool underlying the entire S/2 of said Section 16 to be dedicated to the aforesaid proposed well. 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 4890:

Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks as an exception to Rule 303 of the Commission Rules and Regulations, authority to commingle production from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Focts in the wellbore of its Mobil State Well No. 1 located in Unit H of Section 25, Township 17 South, Range 34 East, Lea County, New Mexico.

CASE 4891: Southeastern New Mexico nomenclature case calling for an order for the abolishment, contraction and extension of certain pools in Lea, Chaves, and Eddy Counties, New Mexico.

(a) Abolish the Teague-Grayburg Pool in Lea County, New Mexico, described as:

TOWNSHIP 23 SOUTH, RANGE 37 EAST, NMPM Section 20: SE/4
Section 21: SW/4

(b) Contract the Bagley-Pennsylvanian Pool in Lea County, New Mexico, by the deletion of the following described area:

Examiner Hearing - Wednesday - January 3, 1973

(Case 4891, paragraph (b), continued from page 2)

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM Section 35: S/2 NW/4

(c) Extend the North Bagley-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM Section 26: SW/4

Section 35: S/2 NW/4

TOWNSHIP 12 SOUTH, RANGE 33 EAST, NMPM Section 10: S/2 NW/4

(d) Extend the Anderson Ranch-Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 32 EAST, NMPM Section 9: SE/4 Section 10: S/2

(e) Extend the Bell Lake-Bone Spring Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANCE 34 EAST, NMPM Section 31: SW/4

(f) Extend the East Brunson-Granite Wash Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM Section 13: SW/4 Section 24: NW/4

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

TOWNSHIP 23 SOUTH, RANGE 26 EAST, NMPM

Section 1: W/2 Section 2: All Section 3: E/2

(h) Extend the Cerca-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM Section 8: SW/4

Examiner Hearing - Wednesday - January 3, 1973

Docker No. 1-73

(Case 4891 continued from page 3)

More Moreland the Double L-Queen Associated Pool in Chaves County,

TOWNSHIP 15 SOUTH, RANGE 30 EAST, NMPM Section 5: NW/4

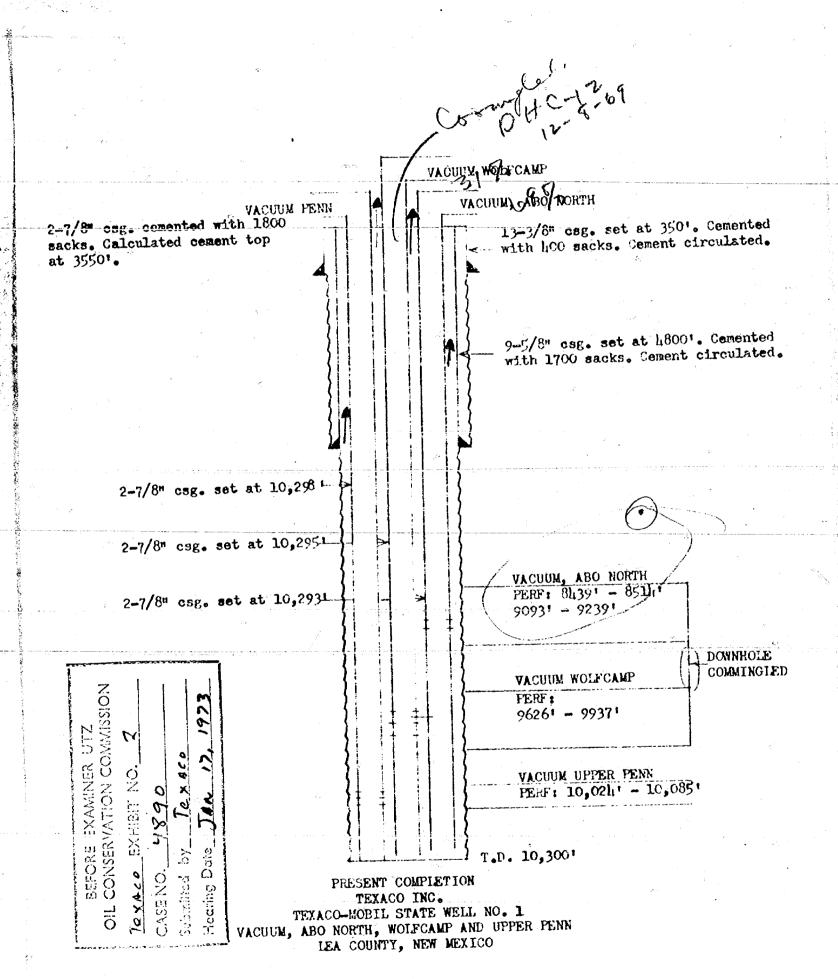
(j) Extend the Flying "M"-San Andres Pool in Lea County, New Mexico,

TOWNSHIP 9 SOUTH, RANGE 33 EAST, NMPM Section 32: S/2

TOWNSHIP 10 SOUTH, RANGE 33 EAST, NMPM Section 5: NW/4
Section 6: NE/4

(k) Extend the Maljamar Grayburg-San Andres Pool in Lea County, New Mexico, to include therein:

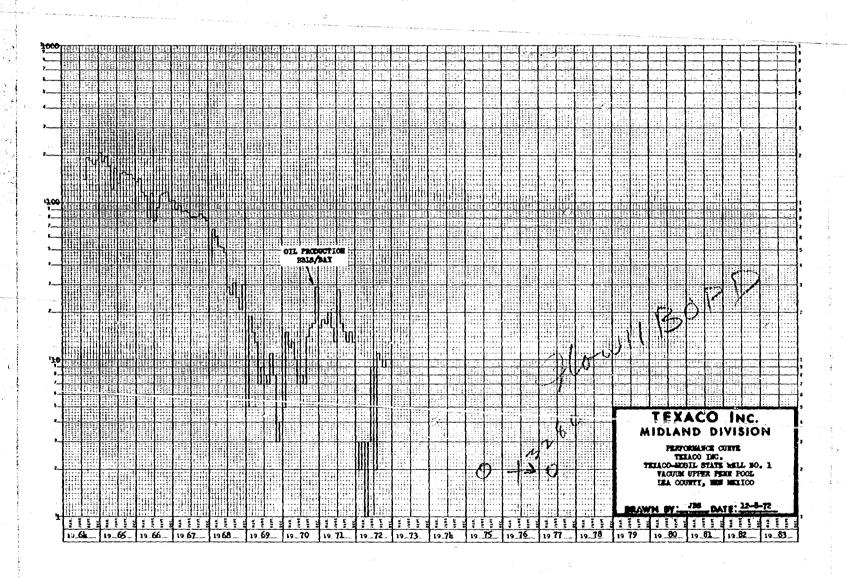
TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM Section 14: SW/4



DATA SHEET FOR WELLBORE COMMINGLING

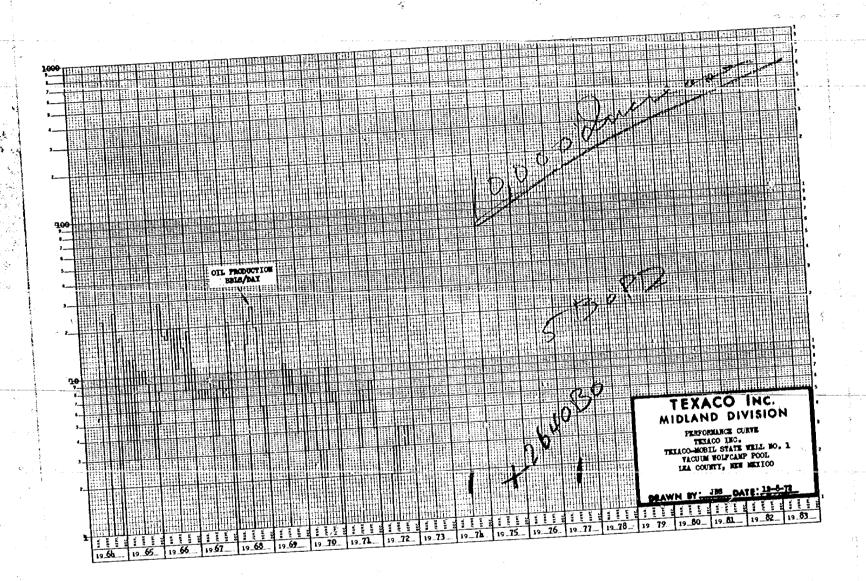
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VACUUM WOLFCAMP VACUUM, ABO NORTH VACUUM PENN 13-3/8" csg. set at 350: Cemented with 400 sacks. Cement circulated. 2-7/8" csg. cemented with 1800 sacks. Calculated cement top at 3550'. 9-5/8" csg. set at 4800'. Cemented with 1700 sacks. Cement circulated. Pem 42% 55 Deb 39 31 W.C.19 14 2-7/8" csg. set at 10,298 L 2-7/8" csg. set at 10,2951 VACUUM, ABO NORTH TERF: 81,39! - 8511,1 2-7/8m csg. set at 10,293L 90931 - 92391 DOWNHOLE COMMINGLED VACUUM WOLF CAMP PERF \$ 96261 - 99371 SEFORE EXAMINER UTZ CONSERVATION COMMISSION VACUUM UPPER PENN PERF: 10,0211 - 10,0851 ÓZ. T.D. 10,3001 PROPOSED COMPLETION TEXACO INC. TEXACO-MOBIL STATE WELL NO. 1 VACUUM, ABO NORTH, WOLFCAMP AND UPPER PENN
IFA COUNTY, NEW MEXICO



TEXACO INC.
MIDLAND DIVISION
PRINCE COMPANY OF TRANSPORT PROPRIEST PROPRIE

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BEFORE EXAMINER UTZ
SELOKE EXMANDER OFF
OIL CONSERVATION COMMISSION
25 A 27 D 191 B 10 7
TERACO EXHIBIT NO. 7
CASE NO. 4890
Submitted by
Hearing Date
THE PARTY AND THE PARTY OF THE

Case 4890

December 8, 1972

TEXACO ING DRAWER 728 HOBBS, NEW MEXICO 88240

New Mexico Oil Conservation Commission

P.O. Box 2088 Santa Fe, New Mexico

87501

Re: Request for Examiner Hearing Texaco - Mobil "State" Well No. 1 Vacuum Upper Pennsylvanian, Vacuum Wolfcamp, and Vacuum Abo North Pools

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

Gentlemen:

Texaco Inc. respectfully requests that an examiner hearing be scheduled to consider its application for the Texaco-Mobil"State Well No. 1 to commingle in the wellbore oil production from the Vacuum Upper Pennsylvanian, Vacuum Wolfcamp, and Vacuum North Pools which are triple tubingless completions as authorized by Commission Order MC-1526 dated August 23, 1964. The Vacuum Wolfcamp and Vacuum Abo North Pools are presently downhole commingled as authorized by Commission Order No. DHC-12 dated December 8, 1969. The Texaco-Mobil "State" Well No. 1 is located in Unit 'H' of Section 25, T-17-S, R-34-E, Lea County, New Mexico.

Yours very truly,

District Superintendent

White, Koch, Kelly & McCarthy (Attn: Mr. Kelly)

DOCKET MAILED

DOCKET MAILED

Date 12/20/7

MOBIL OIL CORPORATION'S STATEMENT
ON TEXACO INCORPORATED APPLICATION
NEW MEXICO OIL CONSERVATION COMMISSION,
CASE NO. 4890, DOCKET NO. 2-73,
TO DOWNHOLE COMMINGLE PRODUCTION FROM THE
NORTH VACUUM-ABO, VACUUM-WOLFCAMP AND
VACUUM-UPPER PENNSYLVANIA POOLS IN THE
WELL BORE OF THEIR MOBIL STATE WELL NO. 1, UNIT H,
SECTION 25, TOWNSHIP 17 SOUTH, RANGE 34 EAST, LEA COUNTY, NEW MEXICO

Date of Hearing: January 17, 1973

Mobil Oil Corporation, an offset operator and a working interest owner of the subject Mobil State Well No. 1, questions the wisdom of uncontrolled downhole commingling in the North Vacuum-Abo, Vacuum-Wolfcamp and the Vacuum-Pennsylvania zones in said well.

The upper zone of the North Vacuum-Abo pool in the North Vacuum-Abo Unit will soon be under pressure maintenance operations. This unit offsets Texaco's Mobil State Well No. 1, and because of unit injection activities, this zone will always be at a higher pressure than the lower zones which would not be under fluid injection. In Mobil's opinion, it is possible under these circumstances in the future for oil from the pressured zone in the North Vacuum-Abo pool to be lost into lower zones.

Mobil, therefore, respectfully recommends that in any order allowing downhole commingling in this well bore, the Commission include sufficient safeguards to insure that response production from Mobil's unit operations will not be lost in a lower thief zone.

DRAFT

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. 4890

Order No. R-447.5

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

He

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ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 17, 1973 at Santa Fe, New Mexico, before Examiner Richard L. Stamets EAU.

NOW, on this day of January, 1973, 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 Mobil State Well No. 1, located in Unit H of Section 25, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.

Order Ma /526, said Well No. 1 was completed by the applicant as a dual completion (convencional) to produce oil from the North Vacuum-Abo and Vacuum-Wolfcamp Pools.

- (4) That subsequent to the dual completion of the well in the aforesaid two pools, the applicant also completed the subject well to additionally produce oil from the Vacuum-Upper Pennsylvanian Pool.
- (5) That only marginal production was obtained from the Vacuum-Upper Pennsylvanian Pool.
- (6) That each of the three zones in the subject well is capable of only low marginal production.
- said Well No. 1 in such a manner as to produce oil from the subject well through one string of 2 7/8-inch tubing, commingling in the wellbore the production from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools.
- That the proposed commingling in the subject well of the three zones may substantially extend the productive lives of said zones in the subject well.
- zones in the subject well are such that underground waste would not be caused by the proposed commingling in the wellbore.
- (16) That the proposed commingling may result in the recovery of additional oil from each of the commingled zones in the subject well, thereby preventing waste, and will not violate correlative rights.
- (12) That the mechanics of the proposed completion are feasible and in accord with good conservation practices.

Case No. 4890 Order No. R-

- 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 seven consecutive days.
- That the allowable and commingled production should be allocated to each of the zones in the well upon the basis of 40 percent North Vacuum-Abo, 20 percent Vacuum-Wolfcamp, and 40 percent Vacuum-Upper Pennsylvanian.
- (14) That approval of the subject application will prevent waste and protect correlative rights.
- That Administrative Orders MC-1526 and DHC-12 superseded.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Texaco Inc., is hereby authorized to complete its Mobil State Well No. 1, located in Unit H of Section 25, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, in such a manner as to produce oil from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools through one string of 2/1/8-inch tubing, commingling in the wellbore the production from the pools.
- That the allowable and commingled production shall be allocated to each of the zones commingled in the wellbore of the subject well on the basis of 40 percent to the North Vacuum-Abo, 20 percent to the Vacuum-Wolfcamp, and 40 percent to the Vacuum-Upper Pennsylvanian.
- (3) That the commingling in the wellbore authorized by this order shall continue only so long as the commingled production of the two zones does not exceed of any of the zones by pressure maintenance operations in the area.

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- (4) That the maximum amount of gas which may be produced daily from the commingled zones in the subject well shall be determined by multiplying 2,000 by the top unit allowable for the Vacuum-Upper Pennsylvanian Pool.
- notify the Commission's Hobbs district office any time the well has been shut-in for seven consecutive days and shall concurrently present to the Commission a plan for remedial action.
- 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.
 - (7) That Administrative Order MC de hereby superseded.
- entry of such further orders as the Commission may deem necessary.

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

designated.