CASE 6764: YATES PETROLBON CORROCKTION WIT, WOR A BON-STANDARD OIL PROPATION UNIT, UNORTHODOX WELL LOCATION, AND DOMBHOLE COMMINGLING, LEA COUNTY REF BREETO

Case 110.

Application

Transcripts

Small Exhibits



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

June 13, 1980

POST OFFICE BUX 2008 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 1505) 827-2434

Chad Dickerson Dase, Carson & Dickerson Controlled Transport Carson & Dickerson Controlled Transport Carson Controlled Transport		Re:	CASE NO.	6900
Applicant: rtesia, New Mexico 88210 Yates Petroleum Corporat Dear Sir: Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case. Opurs very truly FOR D. RAMEY Director FOR/fd Copy of order also sent to: Sobbs OCD X Intesia OCD X		And the second s	ORDER NO	R-6362
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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION BIVISION FOR THE PURPOSE OF CONSIDERING

CASE NO. 6900 Order No. R-6362

APPLICATION OF YATES PETROLEUM CORPORATION FOR A NON-STANDARD OIL PROBATION UNIT, UNORTHODOX WELL LOCATION, AND DOWKHOLE COMMINGLING, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

This cause came on for hearing at 9 a.m. on May 21, 1980, BY THE DIVISION: at Santa Fe, New Mexico, before Examiner Righard L. Stamets.

now, on this 5th day of June, 1980, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the prealses,

- (1) That due public notice having been given as required FINDS: by law, the Division has jurisdiction of this Jause and the subject matter thereof.
- That the applicant, Yates Petroleum Corporation, seeks approval of an 80-acre non-standard oil proration unit comprisapproval or an su-acre non-standard oil provation unit compris-ing the M/2 SE/4 of Section 22, Tewaship 16 South, Range 33 East, mass, Remain-Wolfcamp Pool, to be dedicated to its Sombraro "age" state Well No. 1 at an unorthodox location 1650 feet from the South line and 1650 feet from the East line of said Section
- (3) That the special rules for said poel prescribe that drilling and proration units shall comprise either the Rest half or the West half of a governmental quarter section and that well losations shall be within 150 foet of the center of the Northsection.

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-2-Case No. 6900 Order No. R-6362

- ably be presumed productive of oil from the Kemnitz-Wolfcamp Pool and that the entire non-standard oil proration unit can be efficiently and economically drained and developed by the aforesaid well.
- the applicant the opportunity to produce his just and equitable share of the oil in the Kemnits-Wolfcamp Pool, will prevent the excessive number of wells, and will otherwise prevent waste and protect correlative rights.
- (6) That the applicant also seeks approval for the downhole commingling of Wolfcamp and Cisco production in the wellbore
- (7) That from each of said sones, the subject well is
- initially decline at a relatively rapid rate.
- 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 sones 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 Division the opportunity to assess the potential for waste and to expeditionally order appropriate remailed setion, the operator should notify the Hobbs district effice of the Division any time the subject well is shut-in for operators.
- each of the commingled mones in the well, applicant should consult with the supervisor of the Hobbs district office of the production and determine an allocation formula for each of the production mones.

-3-Case No. 6900 Order No. R-6362

IT IS THEREFORE ORDERED:

(1) That an 80-acre non-standard oil proration unit in the Kemnitz-Wolfcamp Pool comprising the N/2 SE/4 of Section 22, Township 16 South, Range 33 East, NMPM, Lea County, New Mexico, is hereby established and dedicated to the Tates Patro-leum Corporation Sombrero "MS" State Well No. 1 at an unorthodox location, hereby approved, 1650 feet from the South line and 1650 feet from the East line of said Section 22.

IT IS FURTHER ORDERED:

- (1) That Yates Petroleum Corporation is hereby authorised to commingle Wolfcamp and Cisco production within the wellbore of said Sombrero "MS" State Well No. 1.
- (2) That the applicant shall consult with the Supervisor of the Hobbs district office of the Division and determine an allocation formula for the allocation of production to each some in the subject well.
- (3) That the operator of the subject well shall immediately notify the Division's Hobbs district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Division, a plan for remedial action.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DOME at Sante Pe, New Mexico, on the day and year herein-

STATE OF NEW MEYICO OIL COMBERVATION-DIVISION

JOR D. RAME Director

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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
21 May 1980

EXAMINER HEARING

IN THE MATTER OF:

Application of Yates Petroleum Corpor- 1 ation for a non-standard oil proration 1 unit, unorthodox well location, and downhole commingling, Lea County, New 1 Mexico.

CASE 6900

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501

For the Applicant:

Chad Dickerson, Esq. LOSEE, CARSON, & DICKERSON Artesia, New Mexico

ALLY W. BOYD, C.S.I Rt. 1 Box 193-B Seen Ft. New Motios (7301 Phone (303) 453-7409

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EDDIE MAHFOOD

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MR. STAMETS: Ve'll call next Case 6900.

MR. PADILLA: Application of Yates Petro-

Toum Corporation for a non-standard oil proration unit, un-

orthodox well location, and downhole commingling, Lea County,

New Mexico.

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MR. DICKERSON: Chad Dickerson, Mr. Examiner, on behalf of the applicant and we have one witness.

(Witness sworn.)

EDDIE MAHFOOD

being called as a witness and having been duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. DICKERSON:

Will you state your name and your occupation and by whom you are employed, please?

Eddie Mahfood, petroleum engineer for the Yates Petroleum Corporation in Artesia, New Mexico.

And, Mr. Mahfood, you have previously testified before the Oil Conservation Division as an expert engineer and have had your qualifications accepted?

MR. DICKERSON: I tender Mr. Mahfood as

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a witness.

MR. STAMETS: He is considered qualified.

Mr. Mahfood, will you briefly describe the purposes of Yates -- that Yates seeks by its application in this proceeding?

We seek a non-standard location and downhole commingling in this well. The non-standard location is created by special pool rules which the company was unaware of when we spudded the well.

What field rules are you referring to?

I'm referring to the Kemnitz Lower Wolfcamp Field Rules.

And that was created by Commission Order R-1011?

That is correct.

Mr. Mahfood, please refer to what is marked Exhibit Number One and describe what it shows.

Exhibit Number One is an owne ship map of the area showing the location of our well, which is located in about the middle of the four different fields, the Kemnitz Wolfcamp Field, the Sombrero Gas Field, Kemnitz West Pennsylvania Field Wolfcamp and Cisco Field, and the

What is the footage location this well that we're involved with today?

This well is located 1650 from the south

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Page 5

and east lines of Section 22, 16, 33.

Mr. Mayfood, will you point out other wells which have a bearing on this proceeding in the area which is shown on Exhibit Number One?

Westland oil development well, New Mexico State No. 1, and to the east in Section 23 there's an Amoco Cisco completion been plugged back -- Cisco discovery well, which has been plugged back to the Wolfcamp. And to the south there is in Section 27, there is also a Wolfcamp completion.

Q Did you point out the well in the west half of Section 22?

- A It's in Unit K, Section 22.
- And whose well is that?
- A Westland Oil Development Company.
- Q Now, Mr. Mahfood, to what zone was the Yates well in Section 22 projected?
- A It was projected to the Seaman zone in the Cisco formation.
- Q Will you refer to Exhibit Number Two and describe what it shows?
- Exhibit Number Two is our application for permit to drill in which we applied to drill the Seaman and intermediate formations, knowing that the Wolfcamp zone was a highly potential zone.

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Q	Now back to Exhibit Number ONE, your
projected test of	the Cisco formation would be an orthodox
location under the	State rules, would it not, for the Cisco

A It would have been orthodox for the Cisco, yes.

Q And what bearing does this Commission
Order R-1011 that we spoke about have on the -- what would
be standard location for the Kemnitz under that order?

A. Okay, it would place it in Unit O, or Unit I.

That would be either in the approximate center of the northwest quarter or rather the northeast quarter, or the southwest quarter, is that right?

A. That is correct.

So your Exhibit Number Two, Mr. Mahfood, reflects that Yates filed its application projecting the well to test both the Cisco and intermediate --

A This is --

Q. -- horizons.

A This is correct.

And that your application was approved at the location shown?

A Right. Attached to this first page is a plat dedicating the 40 acres which shows that the Commission didn't know that this was a -- designated Gouth Cisco

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MLLY W. BOYD, C.S.R Rt. 1 Box 193-B Sett Ft, New Metico 67501 Phone (505) 455-7409 Kemnitz possibility there.

Q And would you describe how you subsequently learned of the field rules which affected this zone?

cause of the oil permit expiration date and our geologist was asked to -- what was his recommendation. He recommended this location and staked the first one and was drilling it, and staked the second location and was preparing to drill it. We filed the APD for the second location and at that time the Oil Commission pointed out to us that an exception that the location was non-standard for the Kemmitz zone; that the Kemmitz Field had been extended to include this area and thereby creating this non-standard location for the

Q Mr. Mahfood, in this Sombrero "MS" Well what zones have -- has Yates Petroleum decided are potentially productive?

A. The Cisco zone and the Kemnitz zone; the Seaman zone of the Cisco formation and the Kemnitz zone of the Wolfcamp formation are both potential.

And has that well been completed in both those zones?

A. The well has been completed in both zones.

Q. And have you conducted tests to determine

the potential productivity of those zones?

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A. We have swab tested the well. The well is incapable of flowing from either zone.

What have your swab tests shown you concerning the possible productivity of oil and water from the well?

Okay, the Cisco zone swab tested 85 barrels in three days of oil, and water, approximately one half
the amount of oil, and the Kemnitz zone potentialed -- swab
tested 42 barrels a day oil with a very minor amount of

Mr. Mahfood, would it be possible for Yates Petroleum Corporation to complete both these zones and produce them through separate strings of tubing?

No, the well was cased with 5-1/2 casing and the only way to put them in separate tubing strings would be to use 2-1/16 tubing, and since the well isn't capable of flowing, this would not be practical.

Mr. Mahfood, do you have an opinion concerning the probable compatibility of the fluids from the Cisco and the Kemnitz zones?

have any oil analysis to back us up, but they're both carbonate formations and apparently in the same raef buildup; therefor, I would suspect that the -- I think, I would conclude that the formations would be -- the formation waters would be compatible.

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Q If this application for commingling of this production is granted, is it your intention to determine for certainty the compatibility of those fluids?

A. Yes. Yes, we'll certainly do that.

Mr. Mahfood, do you have an opinion as to whether or not the total value of the crude production that can be produced from both these zones will be greater or less if it's allowed to be completed in both zones simultaneously or whether both zones were depleted separately?

A. If they are completed separately I think the Cisco zone would produce a negligible amount of oil and that a considerable reserves would be lost.

In the Kemnitz zone would produce just slightly less amount of oil than we would by commingling because of the early point of -- the early economic limit, by producing separately.

- Mr. Mahfood, you have also sought by this application a non-standard unit for the -- consisting of the north half southeast of this section for Cisco production, is that correct?
 - A That is correct.
- - A. It is common.

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24 25 Do you feel, Mr. Mahfood, that there would be any detriment to possible future secondary recovery operations, or anything of that nature, which would flow from the granting of this application?

A. No, I don't see why there should be any detriment.

Mr. Mahfood, will you refer to what is marked Exhibit Number Three and describe what it shows?

posed dual completion downhole commingling. This shows one tubing string. The present completion has two packers and bridge plug, packers in between the two Cisco zones and a bridge plug above the upper Cisco zone, separating the Cisco from the Wolfcamp, and another packer above the Wolfcamp zone.

We propose to pull the packer and the bridge plug to latch onto that bottom packer, or replace the bottom packer with a tubing anchor, and thereby allowing the two zones to be produced simultaneously.

A seeding nipple will be set in the tubing above the Kemnitz perforations to allow the well to be pumped from that point.

Q What's the significance of the dotted lines indicated along the tubing?

The dotted line would be -- would indi-

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cate the perforated nipple if we leave the packer in the hole, and if we put this -- if we replace the packer with a tubing anchor, we would not need it.

Mr. Mahfood, please refer to Exhibit Number Four and describe what it shows.

Exhibit Four is a copy of the log on this well. On the left is the porosity log, which is a CNL den-Alty log. The upper zone is colored orange is the Kemnitz Wolfcamp zone and the lower zone marked in orange are the Seaman Cisco zones.

On the right is a duclateral log and the orange is the separation between the shallow lateral and the deep lateral, and orange is the RXO separation.

Is there anything else of any significance that you would like to point out to the Examiner reflected on Exhibit Number Four?

Okay, we did a drill stem test of the Kemnitz zone and we -- it was very tight. We did recover some oil, some oil-cut drilling mud, and I don't have this written on here, but on the top of the page there is the drill stem number one, the drill stem test results. Gas to surface in the second flow period; recovered 155 feat of mud; 403 fest of condensate; and oil-cut mud. Pressures, initial shut-in pressure 2377; the 60 minutes final shut-in tubing pressure is 2224 in 120 minutes. These pressures are

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very low. It extrapolated out to 2850 or 2875 pounds. It was very low for virgin reservoir, which indicates that this reservoir is being drained.

Q You conducted no drill stem test on the Cisco?

A No, no drill stem test was conducted on the Cisco.

0 Mr. Mahfood, turn to Exhibit Number Five and explain what this shows.

Exhibit Number Five is a bottom hole pressure survey report, dated May 11, 1980. The well had been shut-in for approximately two months and it shows bottom hole pressure of 2974 with some 3500 feet of water at the bottom.

Now what zone was this pressure test run on?

A. This was run on the Kemnitz zone.

MR. STAMETS: The Wolfcamp zone?

The Wolfcamp zone. It is possible that we might have a slight tubing leak which has caused some water to fall on the -- we don't know for sure. We're going to check to see. This is a very recent test.

Q. What does this exhibit reflect as to the bottom hole pressure of this Wolfcamp zone?

A It shows that the zone is still well below

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Sunta Pe, New Mendo 7750;
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the expected virgin reservoir.

Q And do you have an opinion as to what causes that?

A Yes. I feel like we're being drained.

Mr. Mahfood, referring back to Exhibit

Number One, you testified that under the rules for the area

you could have tested the Wolfcamp Kemnitz zone at a stand
ard location in the center of the southwest quarter of the

southeast quarter, is that correct?

A Yes, I believe we could have. It would be awfully close to that highway and --

Q. Well, have you made calculations as to how much closer your actual well location is than the standard location would have been if located in the southwest quarter?

A Okay, the standard location would have been 1857 feet, and from where we drilled --

Q From what point?

A. From the Westland well. And the location we actually drilled turned out to be 1683 feet, I believe.

Or 184 feet closer than the standard location would have been.

Mr. Mahfood, were Exhibits One through

Five either prepared by you or reflect information that you know of your own knowledge?

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Yes.

MR. DICKERSON: Mr. Examiner, we'd move the admission of Exhibits One through Five into evidence.

MR. STAMETS: These exhibits will be ad-

Q. Mr. Mahfood, in your opinion would the granting of this application be in the prevention of waste and the --

Protection of correlative rights?

Q. Yes.

A. Yes.

MP DICKERSON: Mr. Examiner, that's our presentation.

CROSS EXAMINATION

BY MR. STAMETS:

mitted.

Q. Okay. Mr. Mahfood, you did not indicate any gas volumes on either of these two wells.

no facilities for testing the well. We know that the gas was negligible from the Wolfcamp and the Cisco's gas was probably in the ratio of about 1000 to one. The Cisco was probably more like 200 or 300 to one.

Now, referring to Exhibit Number Three, you have two Cisco zones shown there, 11,207 to 225, and then

11,148 to 225?

A. To 158. We had -- okay, I said earlier that there's a packer between the two Cisco zones. In this packer we had a standing valve. See the two Cisco zones were communicated while we were testing the upper zone.

Okay 🦠

The standing valve would allow us to acidize.

So this is the current location of that packer. It's located between the two Cisco zones.

That is correct.

So this water that you had at 3000 feet in the Wolfcamp zone may be water from the Cisco.

No, sir, it should not because there is a retrievable bridge plug between the Cisco zones and the Wolfcamp zone. In other words there's a retrievable bridge plug above the uppermost Seaman zone. To be precise, the retrievable bridge plug is at 10,832.

So if the water is not from the Wolfcamp it must be from the tubing leak that you indicated.

We suspect so.

Okay. What would be the problem with producing each of these zones separately; producing the Cisco zone to depletion and then resetting your packers and producing the Wolfcamp to depletion?

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There wouldn't be any problem with doing that except I think we'd lose considerable reserves.

Q Okay, for what reason?

Mell, to begin with the Wolfcamp zone by itself is hardly a commercial well, 42 barrels a day on initial -- you know, on a brief test. Now for an extended test it would probably drop to maybe a marginal status.

Q. Have you got any pressure information on the Cisco zone?

A I have calculated -- we have no actual pressure tests of it. I have calculated the pressure, bottom hole pressure, from the shutin tubing pressure and the amount of fluid that we find in the hole, and I've come up with approximately 3740 pounds. This does not disagree very much with the pressure as found in the Westall well.

Q And that compares with about 2870 in the Wolfcamp formation.

Yes, sir.

Q What sort of porosity do you have in the Wolfcamp zone?

Mell, Wolfcamp zone is reading approximately 8 percent porosity. The offset operator, his well, the Westall well is reading somewhere in the neighborhood of 60 to 70 percent porosity, somewhat better than ours.

Is this a fairly permeable formation or

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relatively impermeable?

A. It's -- in our well it's just fairly permeable.

What action will you take to see that this well, if it's allowed to be commingled, stays on the pump so that you can't have any cross flow between the two zones?

back, and the only way we can get it back as marginal as it is, the only way we can get it back is to keep the well pumping, and we have a pumper checking it every day, a contract pumper, and me'll report to us whenever there is no production. Well, if the well goes down he'll report to us immediately so we can do some remedial work or whatever is necessary.

- Everybody's concerned about these wells when they make a lot of oil but when they take off and reach their economic limit, why that concern tends to diminish.
 - A That is correct.
- But the potential for a cross flow and the contamination of one zone by the other doesn't diminish.

 And so that begins to be the area of my concern.

MR. DICKERSON: Mr. Mahfood, if this application were granted, it would be possible, would it not, to treat this well especially carefully because of the knowledge that it's necessary to prevent the problem that

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No. 1 Br. 1958
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the Examiner's concerned about?

A. Yes, it certainly can.

Q. The non-standard proration unit is a directional non-standard proration unit rather than the size of the unit, isn't it?

MR. DICKERSON: It would be size, Mr. Examiner, as to the Cisco because the Cisco is a 40-acre proration.

MR. STAMETS: Right, but the standard unit for the Wolfcamp is 80.

MR. DICKERSON: But it is --

MR. STAMETS: What you're asking for is a laydown unit instead of a standup unit.

MR. DICKERSON: Correct.

MR. STAMETS: Any other questions of the witness? He may be excused.

Anything further in this case?

The case will be taken under advisement.

(Hearing concluded.)

M.L.Y. W. BOYD, C. Rt. 1 Box 195-B Steam Pt. New Mexico 979

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sooly W. Book C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2300 Examiner Oil Concervation Division

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 21 May 1980

EXAMINER HEARING

IN THE MATTER OF:

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Application of Yates Petroleum Corporation for a non-standard oil proration unit, unorthodox well location, and downhole commingling, Lea County, New Mexico.

CASE 6900

BEFORE: Richard L. Stamets

TRANSCRIPT OF HEARING

APPEARANCES

For the Oil Conservation Division:

Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501

For the Applicant:

Chad Dickerson, Esq. LOSEE, CARSON, & DICKERSON Artesia, New Mexico

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EDDIE MAHFOOD

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MR. STAMETS: We'll call next Case 6900.

MR. PADILLA: Application of Yates Petroleum Corporation for a non-standard oil proration unit, unorthodox well location, and downhole commingling, Lea County, New Mexico.

MR. DICKERSON: Chad Dickerson, Mr. Examiner, on behalf of the applicant and we have one witness.

(Witness sworn.)

EDDIE MAHFOOD

being called as a witness and having been duly sworn upon his oath, testified as follows, to-wit:

DIRECT EXAMINATION

BY MR. DICKERSON:

Q Will you state your name and your occupation and by whom you are employed, please?

A Eddie Mahfood, petroleum engineer for the Yates Petroleum Corporation in Artesia, New Mexico.

And, Mr. Mahfood, you have previously testified before the Oil Conservation Division as an expert engineer and have had your qualifications accepted?

λ Yes.

MR. DICKERSON: I tender Mr. Manfood as

MR. STAMETS: He is considered qualified.

a witness.

Mr. Mahfood, will you briefly describe the purposes of Yates -- that Yates seeks by its application in this proceeding?

We seek a non-standard location and downhole commingling in this well. The non-standard location is created by special pool rules which the company was unaware of when we spudded the well.

- What field rules are you referring to?
- I'm referring to the Kemmitz Lower Wolfcamp Field Rules.
- And that was created by Commission Order R-1011?
 - That is correct.
- Mr. Mahfood, please refer to what is marked Exhibit Number One and describe what it shows.
- Exhibi: Number One is an ownership map of the area showing the location of our well, which is located in about the middle of the four different fields, the Kemnitz Wolfcamp Field, the Sombrero Gas Field, Kemnitz West Wolfcamp and Cisco Field, and the Pennsylvania Field.
- What is the footage location this well that we're involved with today?
 - This well is located 1650 from the south

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and east lines of Section 22, 16, 33.

Mr. Mayfood, will you point out other wells which have a bearing on this proceeding in the area which is shown on Exhibit Number One?

Westland oil development well, New Mexico State No. 1, and to the east in Section 23 there's an Amoco Cisco completion been plugged back -- Cisco discovery well, which has been plugged back to the Wolfcamp. And to the south there is in Section 27, there is also a Wolfcamp completion.

p Did you point out the well in the west half of Section 22?

- A It's in Unit R, Section 22.
- Q And whose well is that?
- Westland Oil Development Company.
- Now, Mr. Mahfood, to what zone was the Yates well in Section 22 projected?

A. It was projected to the Seaman zone in the Cisco formation.

Q Will you refer to Exhibit Number Two and describe what it shows?

Permit to drill in which we applied to drill the Seaman and intermediate formations, knowing that the Wolfcamp zone was a highly potential zone.

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Now back to Exhibit Number ONE, your projected test of the Cisco formation would be an orthodox location under the State rules, would it not, for the Cisco?

A It would have been orthodox for the Cisco, yes.

Q And what bearing does this Commission Order R-1011 that we spoke about have on the -- what would be standard location for the Kemmitz under that order?

A Okay, it would place it in Unit O, or Unit I.

That would be either in the approximate center of the northwest quarter or rather the northeast quarter, or the southwest quarter, is that right?

A That is correct.

So your Exhibit Number Two, Mr. Mahfood, reflects that Yates filed its application projecting the well to test both the Cisco and intermediate ---

This is --

o -- horizons.

A This is correct.

And that your application was approved at the location shown?

A Right. Attached to this first page is a plat dedicating the 40 acres which shows that the Commission didn't know that this was a -- designated South Cisco

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Kemnitz possibility there

Q And would you describe how you subsequently learned of the field rules which affected this zone?

A Okay. This lease was drilled further because of the oil permit expiration date and our geologist was asked to -- what was his recommendation. He recommended this location and staked the first one and was drilling it, and staked the second location and was preparing to drill it. We filed the APD for the second location and at that time the Oil Commission pointed out to us that an exception that the location was non-standard for the Kemmitz zone; that the Kemmitz Pield had been extended to include this area and thereby creating this non-standard location for the No. 1 Well.

Mr. Mahfood, in this Sombrero "MC" Well what somes have -- has Yates Petroleum decided are potentially productive?

The Cisco zone and the Kemnitz zone; the Seaman zone of the Cisco formation and the Kemnitz zone of the Wolfcamp formation are both potential.

And has that well been completed in both those zones?

The well has been completed in both zones

And have you conducted tests to determine the potential productivity of those zones?

ELY W. BOYD, C.S. Pt. 1 Por 193-B Seate Pt. New Mexico 37501 Phone (560) 455-7409

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A. We have swab tested the well. The well is incapable of flowing from either zone.

Q What have your swab tests shown you concerning the possible productivity of oil and water from the well?

A Okay, the Cisco zone swab tested 85 barrels in three days of oil, and water, approximately one half
the amount of oil, and the Kemmitz zone potentialed -- swab
tested 42 barrels a day oil with a very minor amount of
water.

Q Mr. Mahfood, would it be possible for Yates Petroleum Corporation to complete both these zones and produce them through separate strings of tubing?

A No, the well was cased with 5-1/2 casing and the only way to put them in separate tubing strings would be to use 2-1/16 tubing, and since the well isn't dapable of flowing, this would not be practical.

Mr. Mahfood, do you have an opinion concerning the probable compatibility of the fluids from the Cisco and the Kemnitz sones?

h. Yes. We don't have any oil analysis to back us up, but they're both carbonate formations and apparently in the same reef buildup; therefor, I would suspect that the -- I think, I would conclude that the formations would be -- the formation waters would be compatible.

this production is granted, is it your intention to determine for certainty the compatibility of those fluids?

Yes. Yes, we'll certainly do that.

Mr. Mahfood, do you have an opinion as to whether or not the total value of the crude production that can be produced from both these zones will be greater or less if it's allowed to be completed in both some simultaneously or whether both zones were depleted separately?

If they are completed separately I think the Cisco zone would produce a negligible amount of oil and that a considerable reserves would be lost.

In the Kermitz zone would produce just slightly less amount of oil than we would by commingling because of the early point of -- the early economic limit, by producing separately.

Mr. Mahfood, you have also sought by this application a non-standard unit for the -- consisting of the north half southeast of this section for Cisco production, is that correct?

That is correct.

Is the ownership common throughout the north half southeast as to all zones that we're concerned

It is common.

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Do you feel, Mr. Mahfood, that there would be any detriment to possible future secondary recovery operations, or anything of that nature, which would flow from the granting of this application?

No, I don't see why there should be any detriment.

Mr. Mahfood, will you refer to what is marked Exhibit Number Three and describe what it shows?

This is a diagrammatic sketch of the proposed dual completion downhole commingling. This shows one tubing string. The present completion has two packers and bridge plug, packers in between the two Cisco zones and a bridge plug above the upper Cisco zone, separating the Cisco from the Wolfcamp, and another packer above the Wolfcamp zone.

We propose to pull the packer and the bridge plug to latch onto that bottom packer, or replace the bottom packer with a tubing anchor, and thereby allowing the two zones to be produced simultaneously.

A seeding nipple will be set in the tubing above the Kemnitz perforations to allow the well to be pumped from that point.

What's the significance of the dotted lines indicated along the tubing?

A The dotted line would be -- would indi-

cate the perforated nipple if we leave the packer in the hole, and if we put this -- if we replace the packer with a tubing anchor, we would not need it.

Mr. Mahfood, please refer to Exhibit
Number Four and describe what it shows.

well. On the left is the porosity log, which is a CNL density log. The upper zone is colored orange is the Kemnitz sity log. The upper zone is colored orange are the Wolfcamp zone and the lower zone marked in orange are the Seaman Cisco zones.

On the right is a duolateral log and the orange is the separation between the shallow lateral and the deep lateral, and orange is the RXO separation.

Is there anything else of any significance that you would like to point out to the Examiner reflected on Exhibit Number Four?

Kemmitz zone and we -- it was very tight. We did recover

some oil, some oil-cut drilling mud, and I don't have this

written on here, but on the top of the page there is the

written number one, the drill stem test results. Gas to

drill stem number one, the drill stem test results. Gas to

surface in the second flow period; recovered 155 feet of

surface in the second ensate; and oil-cut mud. Pressures,

mud; 403 feet of condensate; and oil-cut mud. Pressures,

initial shut-in pressure 2377; the 60 minutes final shut-in

tubing pressure is 2224 in 120 minutes. These pressures are

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on?

very low. It extrapolated out to 2850 or 2875 pounds. It was very low for virgin reservoir, which indicates that this reservoir is being drained.

- Q You conducted no drill stem test on the
- A No, no drill stem test was conducted on the Cisco.
- Mr. Mahfood, turn to Exhibit Number Five and explain what this shows.
- A Exhibit Number Five is a bottom hole pressure survey report, dated May 11, 1930. The well had been shut-in for approximately two months and it shows bottom hole pressure of 2974 with some 3500 feet of water at the bottom.
 - Now what some was this pressure test run
 - A This was run on the Kemnitz zone.
 - MR. STAMETS: The Wolfcamp zone?
- The Wolfcamp zone. It is possible that we might have a slight tubing leak which has caused some water to fall on the -- we don't know for sure. We're going to check to see. This is a very recent test.
- Q. What does this exhibit reflect as to the bottom hole pressure of this Wolfcamp zone?
 - It shows that the zone is still well below

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the expected virgin reservoir.

And do you have an opinion as to what causes that?

- Yes. I feel like we're being drained.
- Mr. Mahfood, referring back to Exhibit Number One, you testified that under the rules for the area you could have tested the Wolfcamp Kemmitz zone at a standard location in the center of the southwest quarter of the southeast quarter, is that correct?
- Yes, I believe we could have. It would be awfully close to that highway and --
- Q Well, have you made calculations as to how much closer you. Actual well location is than the standard location would have been if located in the southwest quarter?
- Okay, the standard location would have been 1857 feet, and from where we drilled --
 - From what point?
- From the Westland well. And the location we actually drilled turned out to be 1683 feet, I believe. Or 184 feet closer than the standard location would have been.
- Mr. Mahfood, were Exhibits One chrough Five either prepared by you or reflect information that you know of your own knowledge?

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MR. DICKERSON: Mr. Examiner, we'd move the admission of Exhibits One through Five into evidence.

MR. STAMETS: These exhibits will be admitted.

Mr. Mahfood, in your opinion would the granting of this application be in the prevention of waste and the --

Protection of correlative rights?

Yes.

Yes.

MR. DICKERSON: Mr. Examiner, that's our presentation.

CROSS EXAMINATION

BY MR. STAMETS:

Okay. Mr. Mahfood, you did not indicate any gas volumes on either of these two wells.

No, sir, the well was swabbed. We had no facilities for testing the well. We know that the gas was negligible from the Wolfcump and the Cisco's gas was probably in the ratio of about 1000 to one. The Cisco was probably more like 200 or 300 to one.

Now, referring to Exhibit Number Three, you have two Cisco zones shown there, 11,207 to 225, and then

11,148 to 225?

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To 158. We had -- okay, I said earlier that there's a packer between the two Cisco zones. In this packer wo had a standing valve. See the two Cisco zones were communicated while we were testing the upper zone.

Okay.

The standing valve would allow us to acidize.

So this is the current location of that It's located between the two Cisco cones. packer.

That is correct.

So this water that you had at 3000 feet in the Wolfcamp zone may be water from the Cisco.

No, sir, it should not because there is a retrievable bridge plug between the Cisco zones and the Wolfcamp zone. In other words there's a retrievable bridge plug above the uppermost Seaman zone. To be precise, the retrievable bridge plug is at 10,832.

So if the water is not from the Wolfcamp it must be from the tubing leak that you indicated.

We suspect so.

Okay. What would be the problem with producing each of these zones separately; producing the Cisco zone to depletion and then resetting your packers and producing the Wolfcamp to depletion?

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A There wouldn't be any problem with doing that except I think we'd lose considerable reserves.

Q Chay, for what reason?

A Well, to begin with the Wolfcamp zone by itself is hardly a commercial well, 42 barrels a day on initial -- you know, on a brief test. Now for an extended test it would probably drop to maybe a marginal status.

A Have you got any pressure information on the Cicco zone?

A I have calculated -- we have no actual pressure tests of it. I have calculated the pressure, bottom hole pressure, from the shutin tubing pressure and the amount of fluid that we find in the hole, and I've come up with approximately 3740 pounds. This does not disagree very much with the pressure as found in the Westall well.

- Q And that compares with about 2870 in the Wolfcamp formation.
 - A Yes, sir.
- Q What sort of porosity do you have in the Wolfcamp zone?
- Mell, Wolfcamp zone is reading approximately 8 percent porosity. The offset operator, his well, the Wostall well is reading somewhere in the neighborhood of 60 to 70 percent porosity, somewhat better than ours.
 - Is this a fairly permeable formation or

relatively impermeable?

It's -- in our well it's just fairly permeable.

What action will you take to see that this well, if it's allowed to be commingled, stays on the pump so that you can't have any cross flow between the two zones?

Well, actually we need to get our money back, and the only way we can get it back as marginal as it is, the only way we can get it back is to keep the well pumping, and we have a pumper checking it every day, a contract pumper, and he'll report to us whenever there is no production. Well, if the well goes down he'll report to us immediately so we can do some remedial work or whatever is necessary.

- Everybody's concerned about these wells when they make a lot of oil but when they take off and reach their economic limit, why that concern tends to diminish.
 - That is correct.
- But the potential for a cross flow and the contamination of one zone by the other doesn't diminish. And so that begins to be the area of my concern.

MR. DICKERSON: Mr. Mahfood, if this application were granted, it would be possible, would it not, to treat this well especially carefully because of the knowledge that it's necessary to prevent the problem that

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the Examiner's concerned about?

A. Yes, it certainly can.

The non-standard proration unit is a directional non-standard proration unit rather than the size of the unit, isn't it?

MR. DICKERSON: It would be size, Mr. Examiner, as to the Cisco because the Cisco is a 40-acre proration.

MR. STAMETS: Right, but the standard unit for the Wolfcamp is 80.

MR. DICKERSON: But it is --

MR. STAMETS: What you're asking for is

a laydown unit instead of a standup unit.

MR. DICKERSON: Correct.

MR. STAMETS: Any other questions of the

witness? He may be excused.

Anything further in this case?

The case will be taken under advisement.

(Hearing concluded.)

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

> I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. heard by me on Examiner

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APPROVED BY SAL	22/1/16	Airle DUPL	RVISOR DIS			C141979
CONDITIONS OF APPROVALER	ANY:	= 	-	Yates Pe	troleum	Corporation
			9			rvation Div.
and the second of the second o	4			Examine	r Heari	ng 5/21/80

Exhibit No. 2

MEXICO OIL CONSERVATION COMM

Form C-102 Supersedes C-128 Effective 1-1-65

	All diet	ences must be from the e	mter boundaries of the	Section.					
VAUSCO DETROOT D	UM CORPORATION	Legee SOMBI	RERO "MS" STAT	ਾ ਜਾ	Weit No.				
YATES PETROLE Unit Letter Sect				unty					
J	22	16S	33E	LFA					
Actual Footage Location	of Well:	line and	550 feet tro	EAST -	line				
Ground Level Elev.	Producing Formation	Pool			Icated Acreage:				
4195	Cisco	KEI	MNITZ- SEA	MAN Ded	40 Acres				
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli- 									
If answer is "this form if nec	No If answer is 'no,' list the owners an	yes; type of consond tract descriptions	lidation	lly been consolidated	. (Use reverse side of itization,				
		<u> </u>		CE	RTIFICATION				
				tained herein i	y that the Information con- is true and complete to the wiedge and belief.				
				SLISE 210 Position SEGGRAPIL	PODRIGUEZ:				
			1	Company YATES FET Date 12-14-7	POLEUM CORP				
		CC3810	1650	shown on this notes of octue under my super	ify that the well location plat was plaited from field il surveys made by me or rvision, and that the same arrect to the bast of my belief.				
		. 1650		12/13/7 Date Surveyed Registeral Profesand/or Land Surveyed	HEN A				
200 00 100 100	1320 1880 1880 2310 26	40 2000 1900	0 1000 100	Centificate No.					

	<u>Anna ann an air an </u>
1 Diagrammatic Sketch of Propose	d Dual Completion and Downhole Commissing
h	
	(X) Sembrery MS State No. 1
Elevation: 4195' GL (4209.4 KB)	and many to the second
Spudded: 12-21-79	Sec. 22, T. 165, R. 33 E
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	133/6" 43" Csg set D 320', cented
	to surface wi 300 sx.
The Confederation of Marie	
Top of San Andres to 4,447	
	1 12/2 hole to 4,617
	1 8 % 24 Ses Csg set 2 4437 centa
	to surface w 2400 sx.
	1760 of cement 210,135"
	Prepare to pull packer @ 6,737 18 & REP
	to,832 KB, ries adottime tub my w scating
	nipple of perforating nipple, later tubing to
	Macher & 11,169 KB Pump commonled production
	Kennitz Wolfcomp & Seemen Cisco
Tan of Kennitz Wolform Zone & 10 784 18	
	Perf 10,772-10,778 w/17-05" holes
3-5-40 touled 42 Ropp	Perf 10,792-10,794 w/3-0.51 holes
8872 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NIIIN
Tep of Stamps Casto Zone @ 4,440'KB	
	Perfe 11,148'-11,158'
2-16-80 Sumbled 55 80/3 days from 1/207-225	N w/20 - 0.5" hales
2-27-8 Small + 7 Ross And 1144-1251	
	Packer w/ standing valve @ 11,169'
	N
	Perfs 11,207-11,225'
	30 80PD 45 SW
	3
	P8TD 11,408'
N. M. Oil Conservation Div.	5/2 casing @ 11,412'
Examiner Hearing 5/21/80	TP: 11,800'
Exhibit No. 3	
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	JOP NEMITZ	
	Perf 10,772-778 (17-0.5")	
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	SEAMAN ZONE	
	Perf 11,148-158 (20-0.5")	
	Tot w/1000 gal. 20% DS-30	
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	Perf 11,207-225 (16-0,5")	
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		w M Oil Conservation Div.
		Examiner Hearing 5/21/80
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Exhibit No. 4



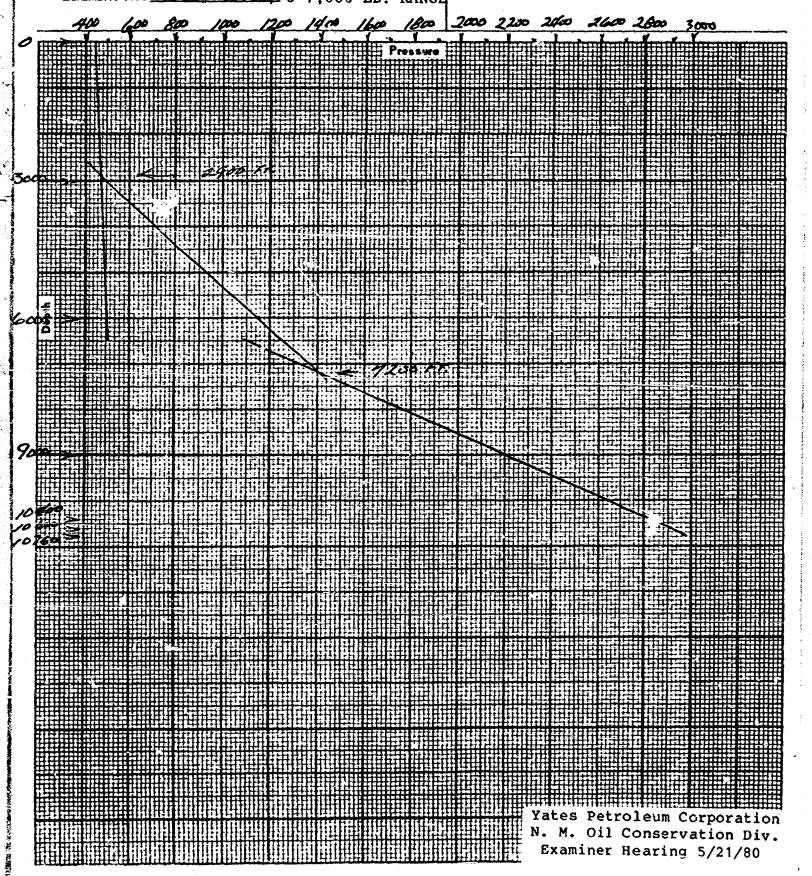
BENNETT WIRE LINE SERVICE P. O. BOX 787 ARTESIA, NEW MEXICO 88210 Phone 746-3281



RAY STALL

BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR YATES PETROLEUM CORP LEASE SOMBRERO "MS" STATE	DEPTH	PRESSURE	GRADIENT
WELL NO. #1 FIELD DATE 5-11-80 TIME 1700 HOURS STATUS SHUT IN TEST DEPTH 10, 760 TIME S.I. N.A. LAST TEST DATE FIRST TEST CAS. PRES. BHP LAST TEST TUB. PRES. 441 BHP CHANGE ELEV. FLUID TOP DATUM WATER TOP TEMP RUN BY B. J. CATHEY CLOCK NO. GAUGE NO. ELEMENT NO. RPG3# 46950 0-7,000 LB RANGE	0 3,000 6,000 9,000 10,400 10,600 10,760	441 475 1,148 2,200 2,822 2,905 2,974	1.13 22.4 35.0 44.2 41.5 43.1



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DISTRIBUTION SANTA FE	NEW	MEXICO OIL CONSE	RYATION COMMISSIO		Form C-101 Revised 1-1-6	5S
FILE	- 		-		5A. Indicate	Type of Lease
U.S.G.S.	·		•	,	STATE	X
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			•		7. Unit Agre	ement Land
b. Type of Well DRILL	8	DEEPEN	PLUG	BACK 📗	8. Farm of L	eque None
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2. Name of Operator	J OTHER .	•	SOME E.	ZONE C	9. Well No.	
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21. Elevations (Show whether Di	RT, etc.) 21A. Kind	& Status Plug. Bond 2	1B. Drilling Contractor		22. Approx	. Date Work will start
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23.	F	ROPOSED CASING AND	CEMENT PROGRAM			
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		17 - 20# or	TD	250		
7 7/8	51 or 41	10.5 - 11.6#	1			
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We propose to dr	ill and test th	e Cisco and in	termediate form	ations.	Surface	casing and
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PROFESCOR OF AS- MOVAL, SE	ANTI		N .	M. Oil	Conser	vation Div.
						g 5/21/80

Exhibit No. 2

MELL LOCATION AND ACREAGE DEDICATION PLAT

Porm C-102 Supersedes C-128 Ellective 1-1-65

Letter Section Township Range County 1 22 16S 33E County 1 1650 test from the SOUTH line and 1650 test from the FAST line 1 1650 Producing Formation Pool Section Cases Dedicated Acreages 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rater			from the outer boundarie	,		Well No.
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Dedicated Promotion C. 15CO		SOLAL	H jina and	1650	fant fram sha	FAST ·	
Outline the acreage dedicated to the subject well by toloted pencil or harbure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to word interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been considered by communitization, unitization, force-pooling, etc? Yes No If answer is "yes," type of consolidation If answer is "no," liet the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary.) No allowable will be assigned to th? well until all interests have been consolidated (by communitization, unitization forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Constitute of the property of the state of the forced complete we have of my hoseledges and belief. Name CERTIFICATION	nd Level Elev.			Pool for 11		Dedic	
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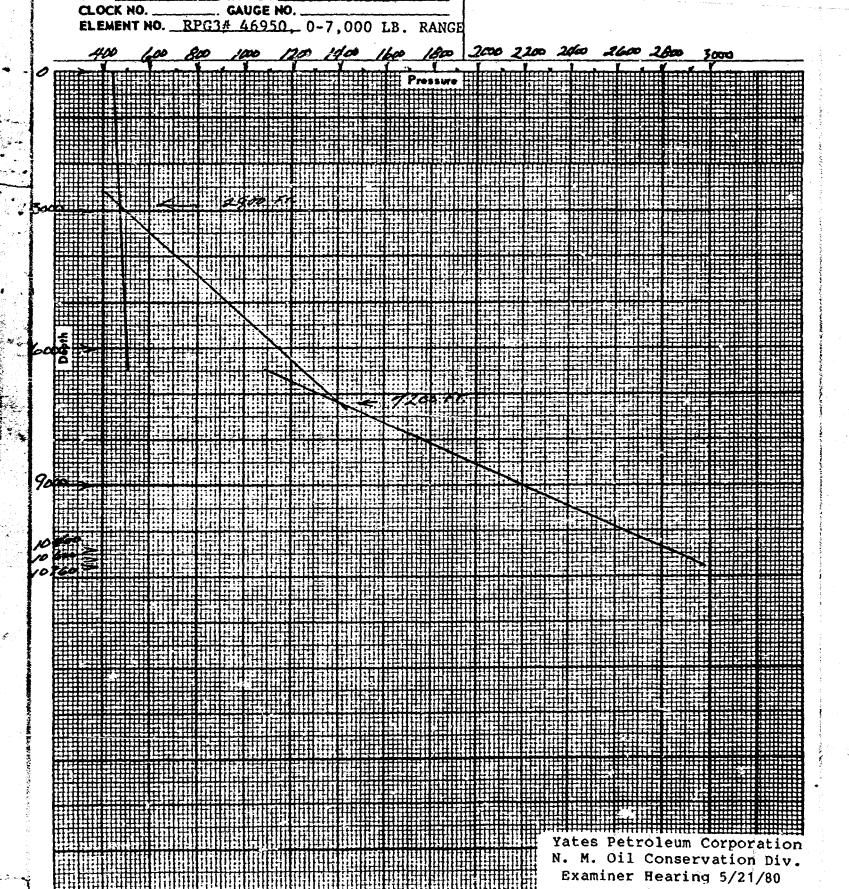


BENNETT WIRE LINE SERVICE P. O. BOX 787 ARTESIA, NEW MEXICO 88210 Phone 746-3281

RAY STALL

BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR YATES PETROLEUM CORP LEASE SOMBRERO "MS" STATE	DEPTH	PRESSURE	GRADIENT
WELL NO. #1 FIELD DATE 5-11-80 TIME 1700 HOURS STATUS SHUT IN TEST DEPTH 10,760 TIME S.I. N.A. LAST TEST DATE FIRST TEST CAS. PRES. BHP LAST TEST TUB. PRES. 441 BHP CHANGE ELEV. FLUID TOP DATUM WATER TOP	0 3,000 6,000 9,000 10,400 10,600 10,760	441 475 1,148 2,200 2,822 2,905 2,974	1.13 22.4 35.0 44.2 41.5 43.1
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	Mostral to to be the	
	SEAMAN ZONE Perf 11,148-156 (20-0.5") Trt w/1000 gal. 207. DS-30 Smalled & Flowed 380/hr from 11,148-225 Perf 11,207-225 (10-0.5") Trt w/2500 gal 207. DS-30 Smalled & Flowed 2580/3 Days	
	7]	Nates Petroleum Corporation N. M. Oil Conservation Div. Examiner Hearing 5/21/80

Exhibit No. 4

Diagrammatic_Sketch of Pro	posed Dual Completio	H and Dounhole Comminstice
	(X)	
	(X)	Sambrero MS State Na.
Elevation: 4195 GL (4209.4 KB)		JESO'FSL & 1650'FEL
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	图 13	56.48 Esq set 2 320', comtd
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	- []	
Top of San andres to 4,447		
37,44		
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++++		- JES Cso set D 4127
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P of Kennite Melicana Zare & 10,734 Kg.		
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		7.7.00:00/2
ed of James Cishe Zone D 1/140 110		
and Cisto Zone O 1/140 18	N-1-1-10	
16-80 Junted 89 80/3 days from 1207 - 225		18'-11,158'
72 BOPB from 1/48'-225'		0.5" hales
743		
	Lacker m/	Standing Valve @ 11,169
	Perts 11;	207'-11,225'
	# # #	.5" holes
s Petroleum Corporation	PETD II,	YOR'
· Ull Conservation Di-	5/2 car	20 11,412'
miner Hearing 5/21/80		
——————————————————————————————————————	TP: 11,80	0'
Exhibit No. 3		

<u>:</u>:



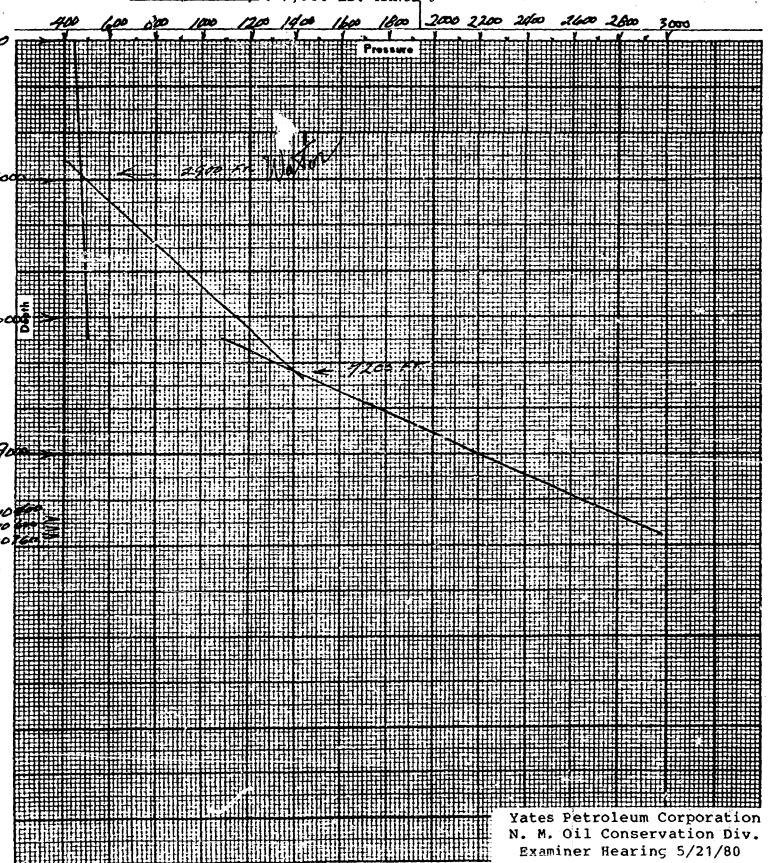
BENNETT WIRE LINE SERVICE P. C. BOX 787 ARTESIA, NEW MEXICO 88210 Phone 746-3281



RAY STALL

BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR YATES PETROLEUM CORP LEASE SOMBKERO "MS" STATE	DEPTH	PRESSURE	GRADIENT
WELL NO. #1 FIELD DATE 5-11-80 TIME 1700 HOURS STATUS SHUT IN TEST DEPTH 10,760 TIME S.I. N.A. LAST TEST DATE FIRST TEST CAS. PRES. BHP LAST TEST TUB. PRES. 441 RHP CHANGE	0 3,000 6,000 9,000 10,400 10,600 10,760	441 475 1,148 2,200 2,822 2,905 2,974	1.13 22.4 35.0 44.2 41.5 43.1



Docket No. 14-80

Dockets Nos. 16-80 and 17-80 are tentatively set for June 4 and 25, 1980. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - TUESDAY - MAY 20, 1980

OIL CONSERVATION COMMISSION - 9 A.M. - ROCH 205 STATE LAND OFFICE BUILDING, SANTA FE, NEW HEXICO

CASE 6715: (DE NOVO)

Application of Texaco Inc. for an unorthodox gas well location, Lea Gounty, New Mexico.

Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Loomis Fed.

Well No. 1 to be drilled 1600 feet from the North line and 660 feet from the West line of Section 5,

Township 21 South, Range 32 East, South Salt Lake-Morrow Gas Pool, the N/2 of said Section 5 to be dedicated to the well.

Upon application of Texaco Inc. and Bass Enterprises Production Company this case will be heard De Novo pursuant to the provisions of Rule 1220.

Docket No. 15-80

DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 21, 1980

9 A.M. - OIL CONSERVATION DIVISION 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 for June, 1980, from fifteen prorated pools in Les, Eddy, and Chaves Counties, New Mexico.
 - (2) Consideration of the allowable production of gas for June, 1980, from four prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico.
- CASE 6891: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Midwest Refining Company and all other interested parties to appear and show cause why the State Well No. I located in Unit A of Section 16, Township 33 South, Range 14 West, Midwlgo County, should not be almost and abandoned in accordance with a Division-approved plugging program.
- CASE 6859: (Continued from April 9, 1980, Examiner Hearing)

Application of R & G Drilling Company for an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of a well to be drilled 1890 feet from the North line and 1830 feet trom the East line of Section 28, Township 28 North, Range 11 West, Kutz-Fruitland Pool, the NE/4 of said Section 28 to be dedicated to the well.

CASE 6886: (Continued from May 7, 1980, Examiner Hearing)

Application of Aminoil USA, Inc. for compulsory pooling and an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp and Pennsylvanian formations underlying the S/2 of Section 10, Township 24 South, Range 28 East, to be dedicated to a well to be drilled at an unorthodox location 2080 feet from the South line and 1773 feet from the East line of said Section 10. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 6884: (Concinued from May 7, 1980, Examiner Hearing)

Application of Supron Energy Corporation for compulsory pooling and a dual completion, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Meseverde and Dakota formations underlying the N/2 of Section 4, Township 30 North, Range 11 West, to be dedicated to a proposed dual completion to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for view involved in drilling said well.

- CASE 6892: Application of Merrion & Bayless for compulsory pooling, Rio Arriba County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the South Blanco-Pictured Cliffs Pool underlying the SW/4 of Section 2/, Township 24 North, Range 2 West, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the well and a charge for risk involved in drilling said well.
- CASE 6878: (Peadvertised)

Application of Stevens Oil Company for a non-standard gas proration unit and unorthodox location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the N/2 SW/4 and S/2 NW/4 of Section 25, Township 8 South, Range 28 East, Twin Lakes-San Andres Associated Pool, to be dedicated to its O'Drien "P" Well No. 4 at an unorthodox location 1650 feet from the South line and 2310 feet from the West line of said Section 25.

- CASE 6893: Application of Stevens Oil Company to amend Order No. R-5353, Chaves County, New Mexico.

 Applicant, in the above-styled cause, seeks a revision of the special rules for the Twin Lakes-San Andres Associated Pool as promulgated by Order No. R-5353 to provide that each well, oil or gas, shall be located no nearer than 330 feet to any quarter-quarter section line, except the any well drilled in a known gas productive area shall be located within 150 feet of the center of the quarter-quarter section.
- CASE 6894: Application of Sun Oil Company for an unorthodox we'l location, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the unorthodox location of its JenningsFederal "B" Well No. 1, a Yates test to be drilled 2440 feet from the South line and 2290 feet from
 the West line of Section 15, Township 19 South, Range 32 East, Lusk Field, the NE/4 SW/4 to be dedicated to the well.
- CASE 6895: Application of Sun Gas Company for an NGPA determination, Lea County, New Mexico. Applicant, in the above-atyled cause, seeks findings that the drilling of its J. A. Akens Well No. 10 located in Unit N of Section 3, Township 21 South, Range 36 Zast, was necessary to effectively and efficiently drain that portion of an existing proration unit which could not be drained by the existing well.
- CASE 6896: Application of John E. Schalk for a non-standard gas provation unit and an unorthodox gas well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard Blanco Mesaverde gas provation unit comprising the NE/4 of Section 8, Township 25 North, Range 3 West, to be dedicated to his Gulf Well No. 2 to be drilled at an unorthodox location 1925 feet from the North line and 790 feet from the East line of said Section 8.
- CASE 6897: Application of McClellan Oil Corporation for two compulsory poolings, Chaves County, New Mexico.

 Applicant, in the above-styled cause, seeks an order pooling all mineral interests from 1200 feet below the surface to the base of the Abo formation underlying the SW/4 and the SE/4 of Section 30, Township 6 South, Range 26 East, each to be dedicated to a proposed gas well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision. Also to be considered will be the designation of applicant as operator of the wells and a charge for risk involved in drilling said wells.
- CASE 6898: Application of Conoco Inc. for an unorthodox gas well location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Newer B-28 Well No. 4 to be drilled 560 feet from the North line and 1980 feet from the West line of Section 28, Township 20 South, Range 37 East, Eumont Gas Pool, to be simultaneously dedicated with its Newer B-28 Well No. 1 in Unit G to the NE/4 and E/2 NW/4 of said Section 28.
- Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Morrow test well to be drilled 660 feet from the South and East lines of Section 9, Township 17 South, Range 26 East, the E/2 of said Section 9 to be dedicated to the well.
- TASE 6900:

 Application of Yates Petroleum Corporation for a non-standard oil proration unit, unorthodox well location, and downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an 80-acre non-standard oil proration unit comprising the N/2 SE/4 of Section 22, Township 16 South, Range 33 East, Kemnitz Field, to be dedicated to its Sombrero "MS" State Well No. 1 at an unorthodox location 1650 feet from the South and East lines of said Section 22. Applicant also seeks approval for the downhole commingling of Wolfcamp and Cisco production in the wellbore of said well.

- Applicant, in the above-atyled cause, seeks an order pooling, Lea County, New Mexico.

 Applicant, in the above-atyled cause, seeks an order pooling all mineral interests in the Wolfcamp thru dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual countries operator of the well and a charge for risk involved in drilling said well.
- CASE 6902: Application of Harvey E. Yates Company for a dual completion, Lea County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Young Deep Unit Well No. 1 located in Unit D of Section 10, Township 18 South, Range 32 East, to produce gas from the Morrow formation and oil from the Bone Springs formation thru parallel strings of tubing.
- CASE 6903: Application of Harvey E. Yates Company for an unorthodox gas well location, Les County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the unorthodox location of a Pennsylvanian
 Mississippian test well to be drilled 660 feet from the South line and 990 feet from the East line of

 Section 33, Township 13 South, Range 36 East, the S/2 of said Section 33 to be dedicated to the well.
- CASE 6904: Application of Harvey E. Yate Company for a unit agreement, Lea County. New Mexico.
 Applicant, in the above-styled cause, seeks approval for the McDonald Unit Area, comprising 1,440 acres, more or less, of fee lands in Townships 13 and 14 South, Range 36 East.
- CASE 6905: Application of Harvey E. Yates Company for a unit agreement, Chaves County, New Mexico.

 Applicant, in the above-styled cause, seeks approval for the Buffalo Lake Unit Area, comprising 2,560 acres, more or less, of Federal, State, and fee lands in Township 15 South, Range 27 East.

LAW OFFICES

LOSEE, CARSON & DICKERSON, P. A.

300 AMERICAN HOME BUILDING

P. O. DRAWER 239

ARTESIA, NEW MEXICO 88210

OIL CONSERVATION SANTA FE

April 29, 1980

Mr. Joe D. Ramey, Director Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501 Case 6890

Dear Mr. Ramey:

A.J. LOSZE

JOEL M. CARSON

CHAD DICKERSON

Enclosed for filing, please find three copies of the Application of Yates Petroleum Corporation for an Unorthodox Location, a Non-Standard Unit, and Downhole Commingling in Lea County, New Mexico.

We ask that this case be set for hearing before an examiner and that you furnish us with a docket of said hearing.

Thank you.

Sincerely yours,

LOSEE, CARSON & DICKERSON, P.A.

aleuon

Chad Dickerson

CD:pvm Enclosures

cc: Yates Petroleum Corporation

A-8 0 0 1080

DEFORE THE OIL CONSERVATION DIVISION SANTAFE

OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF YATES PETROLEUM CORPORATION FOR AN UNORTHODOX LOCATION, A NON-STANDARD UNIT, AND DOWNHOLE COMMINGLING, LEA COUNTY, NEW MEXICO

CASE NO. (0890

APPLICATION

COMES NOW Yates Petroleum Corporation, by its attorneys, and in support hereof, respectfully states:

- 1. Applicant, as operator, has heretofore drilled its Sombrero "MS" State No. 1 Well at a location 1,650 feet from the south line and 1,650 feet from the east line of Section 22, Township 16 South, Range 33 East, N.M.P.M., Lea County, New Mexico, and proposes to dedicate the N/2 SE/4 to the well.
- 2. Applicant proposes to complete its well in the Kemnitz Zone of the Wolfcamp formation and in the Seaman Zone of the Cisco formation for the production of oil from both formations, and to commingle such production. Title to all production is common in both zones.
- 3. Applicant's well is located within the boundaries of the Kemnitz Lower Wolfcamp Pool, and said well location is an unorthodox location under the pool rules for such pool, but is an orthodox location for applicant's well in the Seaman Zone of the Cisco formation.
- 4. That applicant's proposal to commingle downhole the production from its well as aforesaid is feasible, in accordance with good conservation practices and will otherwise prevent waste and protect correlative rights.

WHEREFORE, applicant prays:

A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.

- B. That applicant's location be approved for completion of its well at an unorthodox location as aforesaid in the Kemnitz Zone of the Wolfcamp formation, and that applicant be allowed to dedicate N/2 SE/4 Section 22 to the well.
- C. That the Division enter its order granting permission to applicant to commingle downhole its Sombrero "MS"

 State No. 1 Well for the production of oil from the Kemnitz and Seaman Zones described herein.
- D. And for such other and further relief as may be just in the premises.

YATES PETROLEUM CORPORATION

Chad Dickerson

LOSEE, CARSON & DICKERSON, P.A. P. O. Drawer 239

Artesia, New Mexico 88210

Attorneys for Applicant

OIL CONSERVATION TANSION SANIA FE

BEFORE THE OIL CONSERVATION DIVISION

OF THE STATS OF NEW MEXICO

IN TER MATTER OF THE APPLICATION OF YATES PETROLEUM CORPORATION FOR AN UNORTHODOX LOCATION, A MON-STANDARD UNIT, AND DOWNBOLE COMMINGLING, LEA COUNTY, NEW MEXICO

CASE NO. 6890

APPLICATION

COMES NOW Yates Petroleum Corporation, by its attorneys, and in support hereof, respectfully states:

- 1. Applicant, as operator, has heretofore drilled its Sombrero "MS" State No. 1 Well at a location 1,650 feet from the south line and 1,650 feet from the east line of Section 22, Township 16 South, Range 33 Rast, N.M.P.M., Lea County, New Mexico, and proposes to Gedicate the N/2 SE/4 to the well.
- 2. Applicant proposes to complete its well in the Remnitz Bone of the Wolfcesp formation and in the Seamen Bone of the Cisco formation for the production of oil from both formations, and to commingle such production. Title to all production is summen in both somes.
- 3. Applicant's well is located within the boundaries of the Kemmitz Lower Wolfcamp Pool, and said well location is an unorthodox location under the pool rules for such
 pool, but is an orthodox location for applicant's well in the
 Seamen Tone of the Cisco formation.
- 4. That applicant's proposal to commingle downhole the production from its well as aforesaid is feasible, in accordance with good conservation practices and will otherwise prevent waste and protect correlative rights.

WHEREPORE, applicant prays:

A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.

- B. That applicant's location be approved for completion of its well at an unorthodox location as aforesaid in
 the Kemmits Zone of the Welfcamp formation, and that applicant
 be allowed to dedicate H/2 SE/4 Section 22 to the well.
- C. That the Division enter its order granting permission to applicant to commingle downhole its Sombrero "MS"

 State "Do. 1 Well for the production of oil from the Remnits and Seeman Somes described herein.
- D. And for such other and further relief as may be just in the presises.

YATES PETROLEUM CORPORATION

Chad Dickerson

LOSEE, CARSON & DICKERSON, P.A. P. O. Drawer 239 Artesia, New Mexico 88210

Attorneys for Applicant

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OIL CONSERVATION DIVISION SANTA FE BEFORE THE OIL CONSERVATION DIVISION

OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF YATES PETROLEUM CORPORATION FOR AN UNORTHODOX LOCATION, A HON-STANDARD UNIT, AND DOWNHOLE COMMINGLING, LEA COUNTY, NEW MEXICO

CASE NO. 6880

APPLICATION

COMES NOW Yates Petroleum Corporation, by its attorneys, and in support hereof, respectfully states:

- 1. Applicant, as operator, has heretofore drilled its Sombrero "MS" State No. 1 Well at a location 1,650 feet from the south line and 1,650 feet from the east line of Section 22, Township 16 South, Range 33 Bast, N.M.P.M., Lea County, New Mexico, and proposes to dedicate the N/2 SE/4 to the well.
- 2. Applicant proposes to complete its well in the Kemmits Some of the Wolfcamp formation and in the Seaman Some of the Cisco formation for the production of oil from both formations, and to commingle such production. Title to all production is common in both somes.
- 3. Applicant's well is located within the boundnames of the Kemnits Lower Wolfcamp Pool, and said well location is an unorthodox location under the pool rules for such
 peol, but is an orthodox location for applicant's well in the
 Seamen None of the Cisco formation.
- 4. That applicant's proposal to commingle downhole the production from its well as aforesaid is feasible, in the production practices and will otherwise the same waste and protect correlative rights.

WMEREFORE, applicant prays:

A. That this application be set for hearing before examiner and that notice of said hearing be given as re-

- B. That applicantes location be approved for completion of its well at an unorthodox location as aforesaid in the Kemnitz zone of the Wolfcamp formation, and that applicant be allowed to dedicate E/2 SE/4 Section 22 to the well.
- C. That the Division enter its order granking permission to applicant to commingle downhole its Sombrero "MS" State No. 1 Nell for the production of oil from the Remnitz and Seaman lones described herein.
- D. And for such other and further relief as may be just in the premises.

YATES PETROLEUM CORPORATION

Chad Dickerson

LOSEE, CARSON & DICKERSON, P.A. P. O. Drawer 239 Artesia, New Mexico 88210

Attorneys for Applicant

DRAFT

dr/

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

all all

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

Jak

CASE NO.	6900
Order No.	R- 6362

APPLICATION OF YATES PETROLEUM CORPORATION

FOR A NON-STANDARD PRORATION UNIT, UNORTHODOX WELL LOCATION, AND DOWNHOLE COMMINGLING,

LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on May 21

19 80, at Santa Fe, New Mexico, before Examiner Richard L. Stamets

NOW, on this ______ day of _____ May _____, 19 80 ____, the Division

Director, 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 Division has jurisdiction of this cause and the subject matter thereof.

For That The Special pulse for said pool processe that hilling and provided much shall comprise either the East helf or the best haff of a governmental quarter section and that were becalious elsel be within 160 feet of The center of the northest gossilie or the Saithwest greater of a governmental of the hortest

that the entire non-standard proration unit may reasonably be presumed productive of gas from the hemmy 12 - Wolf camp of the property of the

That approval of the subject application will afford the applicant the opportunity to produce his just and equitable share of the was in the Kemnitz Each.

unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights

prevent waste and protect correlative rights.

That the applicant also seeks approval for the downhole commingling of Wolfcamp and Cisco production in the wellbore of said well.

subject well is capable of marginal production was.

of the the production from said times is experione, the decline at a relatively rapid rate.

subject well is capable of low marginal production only.

(6) 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.

(*12) 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.

(9) That to afford the Division the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Abbs district office of the Division any time the subject well is shut-in for 7 consecutive days.

each of the commingled zones in the wells, applicant should consult with the supervisor of the production formula for each of the production zones.

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murrefore ordered.	
-acre non-standard the	
(1) That an 80 -acre non-standard gas profit the wolftenp Pool xx casx 2003 comprising the in the Kemnitz conference of Section 22 , Township 16 South	
in the Kemnitz of Section 22 Township 16 South of Section 22	
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Range 33 East , NMPM, Lea #4. % to Report of the Well is hereby established and dedicated to its Sombrero "MS" State Well is hereby established and dedicated to from the South line and of said	
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Range 33 East # Your Sombrero "MS" State new Sombrero	
is hereby established and dedicated to the south line and No. 1 at an unorthodox location 1650 feet from the South of said 1650 feet from the East line xxlagated xiax in taxxxxx have by approved;	
Section 22	
IT IS THEREFORE ORDERED:	
THEREPORE ORDERED:	
IT IS THEREFORE ORDERED: (1) That the applicant Vets Patrolum Corporation, is and (1) The commingle Welfcamp and	1
(1) That the applicant Vers Pater Hum (1) and hereby authorized to commingle Wolfcamp and production within the wellbore of	
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hereby authorized to commingle Well-camp hereby authorized to commingle production within the wellbore of	
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County	
NMPM. (2) That the applicant shall consult with the Supervisor and consult with the Superviso	18
(2) That the applicant shall consult of the Division and of the Modes district office of the Division and of the Modes district office of the Division and of the Modes district office of the Division and of the Modes district office of the Division and of the Modes district of the Division and of the Division and of the Division and office of the Division and Office of	
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(3) That the operator of the subject well shad any time notify the Division's 7465 district office any time notify the Division's 7 consecutive days and shall concurred to the consecutive days and shall concurred to the consecutive days and shall concurred to the consecutive days and shall concurred to the consecutive days and shall concurred to the consecutive days are consecutive days.	the
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well has been shut-in for 7 consecutive well has been shut-in for 7 consecutive well has been shut-in for 7 consecutive with the bivision. That jurisdiction of this cause is retained for the the the present of such further orders as the bivision may deem necessary of such further orders as the bivision may deem necessary. The Fe. New Mexico, on the day and year herein	ry.
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