CASE NO. 5386: YATES PETR. CORP. FOR FOUR DUAL COMPLETIONS AND ONE UNORTHODOX LOCATION, EDDY COUNTY

CASE 170. 5386

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BEFORE THE NEW MEXICO OTL CONSERVATION COMMISSION Santa Fe, New Mexico January 8, 1975

EXAMINER HEARING

IN THE MATTER OF:

Application of Yates Petroleum Corporation for four dual completions and one unorthodox gas well location, Eddy County, New Mexico

Case No. 5386

BEFORE: Richard L. Stamets, Examiner.

TRANSCRIPT OF HEARING

A P P E A R A N C E S

For the New Mexico Oil Conservation Commission:

William Carr, Esq.
Legal Counsel for the
Commission
State Land Office Bldg.
Santa Fe, New Mexico

For the Applicant:

A.J. Losee, Esq. LOSEE & CARSON Carper Building Artesia, New Mexico

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Yates' Exhibits 1	through	9		12

MR. STAMETS: Call the next case, Case 5386.

MR. CARR: Case 5386. Application of Yates
Petroleum Corporation for four dual completions and one
unorthodox gas well location, Eddy County, New Mexico.

MR. LOSEE: A.J. Losee, Losee & Carson, appearing for the Applicant. I have one witness, Mr. Mahfood.

MR. STAMETS: Any other appearances in this Case?

Let the record show that this Witness has previously been sworn and is sworn in this Case.

(Witness previously sworn.)

EDDIE MAHFOOD

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

DIRECT EXAMINATION

BY MR. LOSEE:

- Q State your name, residence, and occupation?
- A Eddie Mahfood, Artesia, New Mexico, Chief Engineer for Yates Petroleum.
- Q You are the same Witness whose qualifications are accepted in the preceding case as a Petroleum Engineer, are you not?
 - A Yes, I am.
 - Q Would you explain the purpose of this Application

Page.....

in Case 5386?

A We have several dual completions in this area. We would to set up a field designation and to be able to dual complete these wells and other wells in the future.

Q Do you also have four wells in which you are seeking conventional dual completion in?

A Yes.

Q And you have one orthodox location to be approved, your Federal "CR" Com?

A Yes.

Q Please refer to what has been marked as Exhibit 1 and explain what is shown by this Exhibit?

A This is an ownership map of the area showing the locations of the four wells to be heard in this Case plus additional wells completed in the Cisco Canyon in this area. The four wells circled in red are the four wells to be heard in this case and in green are three additional wells which are single completion in the Cisco Formation.

Q Give the names of the wells in red and the Section in which they are located in, would you please?

A In Section 29 is the Federal "CR" Well No. 1, in Section 8 is Federal

Page.....5

"CZ" No. 1, and in Section 35 is the Powell "DG" No. 1 Com.

Q Does this map also show the offset operators and the production in the area?

A Yes, this man shows the offset operators and other cells in the area.

Q Now, your "CR" Well in Section 29 of 17, 25, is 560 feet from the southwest line?

A Yes.

Q And was that well originally drilled as a gas well?

A No. It was intended to be a Dovonian oil test.

Q Did the well reach the Devonian?

A No. We confronted so much gas while drilling that it became imperative to terminate drilling and case the hole.

Q Please refer to what has been marked as Exhibit 2 and explain what is portrayed by this Exhibit.

A Exhibit 2 is a diagrammatic sketch of the proposed drill completion of the Federal "CR" No. 1 Com. It is a conventional completion with one packer; both the Canyon bay and Atoka pay are dry gas so we saw no need to view (sic) the strings for cross-over assembly.

Q In the event that the Atoka loaded up, how would you perform the operation of uploading the fluid?

A The Atoka is all ready in tubing so it would be just a matter of swabbing it in.

Q All right, now, what about the Canyon?

A The Canyon would be in casing annulus but we have a sliding sleeve set at 7213, which is down below -- a little below the Canyon pay and above the packer. This sliding sleeve can be opened and in doing so would block off the Atoka pay. We can swab the Canyon in and go back and close the sleeve and put back in the casing annulus and open the Atoka back to the tubing.

- Q What's your packer? What kind of packer is it?
- A We're using a hook wall packer.
- Q Does this sketch also show all the casing strings and their diameter and the depth at which they're set?
 - A Yes, it does.
- Q It shows the cement and the quantity and the tops of the cement?
 - A That's right.
 - Q It shows the tubing, the diameter and the depth?
 - A This is correct.

- Q Do you have an opinion as to whether with this type of completion hydrocarbons can be produced from the Canyon and Atoka safely and efficiently?
 - A Yes.
- Q Will your macker prevent communication between these two producing intervals?
 - A Yes.
- Q Please refer to what has been marked as Exhibit 3 and explain what is shown by this?
- A Exhibit 3 is the neutron density log showing the Canyon pay in Exhibit 3A and the Atoka pay in Exhibit 3B.
- Q Well, actually the one Exhibit has been marked Exhibit 3 and it is simply a continuation of this same log?
 - A This is correct.
- Q Okay. You said the west half of the Section has been dedicated to the well?
 - A Yes.
- Q Do you have an opinion as to whether your Federal "CR" at its 660 location can efficiently and economically drain the west half of Section 29?
 - A Yes, I'm pretty sure it can.

Q Please refer to what has been marked as Exhibit 4?

A Exhibit 4 is a diagrammatic sketch of the proposed dual completion of State "CY" No. 1, and again we have Cisco pay and Atoka pay. We'll be using two packers in this well since the Cisco does have oil associated with it. We'll have a cross-over assembly in the top packer.

- Q Otherwise this is a casing tubing annulus and tubing completion?
 - A Correct. It is a conventional completion.
- Q Please refer to what has been marked as Exhibit 5 and explain what is shown by this Exhibit?

A Exhibit 5 is the neutron density log of the State "CY" No. 1 Well. Again, we see the Cisco perforations, Cisco pay in 5A and the Atoka pay in 5B, in the same log.

MR. STAMETS: Mr. Mahfood, at this point I would like to clarify something. The Docket, and I believe the ad, the Application, indicates that the Strawn and Atoka Formations are both open in this Section, is that correct?

MR. MAHFOOD: Yes, sir. The Strawn was perforated. From the log you notice there is approximately 4 percent porosity, about 5 percent porosity, and the Strawn

does occur in this area in a small interval, and we would like to be able to produce the Strawn together with the Atoka.

MR. STAMETS: That's part of the upper Pennsylvanian?

MR. MAHFOOD: Lower Pennsylvanian.

MR. STAMETS: Lower Pennsylvanian I mean. How much of the Strawn do you have open to the hole in this "CY"?

MR. MAHFOOD: We have 4 feet perforated in this well.

MR. STAMETS: And your wells are all ready completed this way with the packer set?

MR. MAHFOOD: Yes, it is.

BY MR. LOSEE:

Q Please refer to what has been marked as Exhibit 6 and explain what is shown by this Exhibit?

A Exhibit 6 is a diagrammatic sketch of the proposed dual completion Powell "DG" No. 1 Com. Again, we have two packers in this well. There were complete in the Cisco and the Morrow in this well. The Cisco is associated with oil and we load up so we need a cross-over assembly.

Q Otherwise -- and this again is identical to your

prior completion?

- A This is correct.
- Q Please refer to what has been marked as Exhibit
 7 and explain what is briefly shown?
- A Exhibit 7 is the density neutron log on the Powell "DG" No. 1 Com. 7A would be the Cisco -- the log of the Cisco pay, and 7B would be the log of the Morrow pay.
- Q Could you read your Exhibit and tell me what you got on the drill-stem on the Cisco?
- A The Cisco tested something like 17 mcf per day, however, we have found from experience that we can go back in and improve this considerably.
- Q Please refer to what has been marked as Exhibit 8 and explain what is shown by this Exhibit?
- A. Exhibit 8 is a diagrammatic sketch of the proposed dual completion of Federal "CZ" No. 1. Again we have a cross-over assembly. We are dualing the Cisco pay with -- associated with oil -- and the Morrow.
- Q This sketch like the preceding sketches shows the casing diameter, the depths?
 - A Yes, sir.
 - Q The cement and the tops the tubing and its

diameter and depth?

- A This is correct.
- Q In all cases is your bottom packer the same?
- A Yes. Well, I'll take it back -- it will be a hook wall packer. It could either go lock set, or in this case here I have a Model FL. It is a Baker lock set packer.
- Q And Exhibit 9 is your log of this Federal "CZ" Well?
- A Yes. 9A shows the Cisco pay and 9B shows the Morrow pay.
- Q Will the proposed completions in your "CY,"
 "DG," and 'CZ" permit hydrocarbons to be safely and efficiently produced?
 - A Yes, sir.
- Q. Will the proposed packers in these three wells permit communication between the zones?
 - A Yes.
- Q The only exception to that would be in the "CY" where you have the Strawn, four feet of it open to the Atoka?
- A This is true. We would like, however, to combine -- we would like to designate this field for Upper

Penn and Lower Penn.

Q Were Exhibits 1 through 9 prepared by you or under your direction?

A Yes, sir.

MR. LOSEE: I move their introduction, Mr. Examiner.

MR. STAMETS: Without objection these Exhibits will be admitted.

(Whereupon, Yates' Exhibits

1 through 9 were admitted into
evidence.)

MR. LOSEE: I have nothing further at this time.

CROSS EXAMINATION

BY MR. STAMETS:

Q Mr. Mahfood, referring, now, to the "CR" and the "CY," these wells offset one another on the ground.

As far as the Atoka zone goes they would obviously be in the same pool?

A Yes.

Q What you are proposing is that we create a pool there with both the Strawn and the Atoka as being the vertical limits?

- A Yes.
- Q Now, what would happen if you would offset one of these wells, say in Section 30 or Section 31, and get very good wells in the Strawn and another very good well in the Atoka? Would you wish to dually complete those wells at that time?

A No, if we had -- no. No, I don't think we would then. All our experience with the Strawn I might say is that it's a very low volume horizon, and we would not anticipate a very good Strawn completion in this area.

- Q Looking at your ownership map it seems to own or have the operating authority over most the acreage offsetting the wells in question until you get a mile or so away?
 - A Very true.
- Q Did you seek approval to perforate the Strawn and the Atoka in the same wellbore before doing it or after doing it or before running the tubing?
- A No, sir. The Exploration Department recommended we perforate it and test it and I don't know whether they had determined whether it was Strawn or Atoka at the time.
 - Q Did you have any tests on the Strawn Zone?

Page......

- A No, sir.
- Q It was not tested after it was perforated?
- A It was not tested separately, no.
- Q Were you not aware that the Strawn and Atoka and Morrow zones have been considered separate reservoirs by the Commission in the past and no commingling has been allowed except after order of the Commission?
- A As I said previously, I'm not sure that that Exploration Department had determined that it was just two different horizons that might have considered all the pay Atoka.
- Q In operating on this well in that manner was Yates not running the risk that the completion might subsequently not be approved by the Commission?
- A Mr. Examiner, I don't know how to answer that question, because as I said, when we completed the well, the Exploration Department informed the Engineering Department to perforate and complete it as one.
- Q As far as you know no contact was made with the Commission to try and make the determination what the formations were, whether or not there was any likelihood the Commission would approve such a completion?
 - A Yes, sir, that is true.

Q On the Federal "CR" do you have any tests of the Upper Pennsylvanian Section there which indicate that no liquids were being produced?

A Yes, We have flowed it and not recovered any liquid.

Q If sufficient liquids were to be produced, would it be possible to run another string of tubing into the Upper Pennsylvanian in that well?

A It would have to be a very small diameter string of tubing to do so.

Q It's 7-inch casing in that hole isn't it?

A This is correct; this does have a 7-inch casing in it. Well, we could dual this well with two strings of tubing.

Q Do you have multi-point tests on any of these wells yet?

A Yes, I think the "CR" was four-pointed. I don't have information before me but, yes.

Q Do you have comies of the multi-point tests with you?

A No, sir, I don't.

Q Could those be made available to the Examiner in the next week?

A On Exhibit 2 I show where the well flowed from Canyon may 1.183 million cubic feet per day and the Atoka flowed 5 and 3/4 million per day.

Q Nevertheless I would like to have this multipoints test if they are available.

A Okay.

Q And the "CY" and the Powell and the "CZ" it's proposed to produce the Atoka up tubing and then through cross-over assembly up the annulus?

A This is correct.

Q And to your knowledge, do any of those wells produce sufficient liquids from the Atoka to require another string of tubing?

A Our tests so far have indicated negligible fluid.

It is conceivable that it could load up.

Q Just looking through your Exhibits here, the State "CY" appears to have about 3 barrels per million, Powell about 7 barrels per million and the "CZ" about 6 to 7 barrels per million. If those volumes don't increase, would that give you any particular problem?

A No. Our experience is that the gas-oil ratio will increase and liquid content decrease as we deplete the reservoir.

REDIRECT

Q You referred to both the Canyon and the Cisco and both of these zones are part of what is commonly referred to as the Upper Pennsylvanian. Would that cause any problem if the Orders would refer to these as the Upper Pennsylvanian rather Than to the isolated zones Cisco and Canyon?

A I cannot see any problem there because neither formation have continuous pay. The pays are scattered in small intervals.

MR. STAMETS: Any other questions of this Witness?

MR. LOSEE: I have just one question, Mr. Examiner.

REDIRECT EXAMINATION

BY MR. LOSEE:

Q In your "CX" if you are required to shut off the Strawn, the four feet of Strawn, will you produce that in any manner; triple complete the well?

A No, sir. I might point out this Strawn is such a small pay that it would not be economical to even attempt a simple completion there.

MR. LOSEE: That's all I have, Mr. Examiner.

MR. STAMETS: If there is nothing further

we will take this Case under advisement.

STATE 0	OF 1	NEW	MEX	CICO)	
)	88.
COUNTY	OF	SAN	AT	FE)	

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

RICHARD L. NYE, Court Reporter

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5.3% heard by me on 19.75.

Rew Mexico Oil Conservation Commission



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 875Qt

January 28, 1975

I. R. TRUJILLO CHAIRMAN

LAND COMMISSIONER PHIL R. LUCERO MEMBER

STATE GEOLOGIST A. L. PORTER, JR. ${\tt SECRETARY-DIRECTOR}$

	Re:	CASE NO.	5386
ir. A. J. Losee		• •	R-4955
osee & Carson			
ttorneys at Law ost Office Box 239		Applicant	::
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		IRCES F	301016mm corboration
Dear Sir:			
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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. 5386 Order No. R-4955

APPLICATION OF YATES PETROLEUM CORPORATION FOR FOUR DUAL COMPLETIONS AND UNORTHODOX LOCATION, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 8, 1975, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 28th day of January, 1975, 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 seeks approval for four conventional dual completions in Eddy County, New Mexico, as follows:

The Federal "CR" Com Well No. 1 in Unit M of Section 29, Township 17 South, Range 25 East, NMPM, with gas production from the Upper Pennsylvanian formation through the casing-tubing annulus and gas production from the Atoka formation through 2 3/8-inch tubing with a packer set at approximately 7870 feet;

the State "CY" Well No. 1 in Unit K of Section 32, Township 17 South, Range 25 East, MMPM, with gas production from the Upper Pennsylvanian formation through 2 3/8-inch tubing and gas production from the commingled Strawn and Atoka formations through 2 3/8-inch tubing, a crossover assembly, and the casing-tubing annulus with packers set at approximately 6350 feet and 7723 feet;

-2-Case No. 5386 Order No. R-4955

> the Powell "DG" Com Well No. 1 in Unit O of Section 35, Township 17 South, Range 25 East, NIPM, with gas production from the Upper Pennsylvanian formation through 2 3/8-inch tubing and gas production from the Morrow formation through 2 3/8inch tubing, a crossover assembly, and the casingtubing annulus with packers set at approximately 6500 feet and 8324 feet; and

> the Federal "CZ" Well No. 1 in Unit B of Section 8, Township 18 South, Range 25 East, NMPM, with gas production from the Upper Pennsylvanian formation through 2 3/8-inch tubing and gas production from the Morrow formation through 2 3/8-inch tubing, a crossover assembly, and through the casingtubing annulus with packers set at approximately 6500 feet and 8245 feet.

- (3) That the mechanics of the proposed dual completions appear to be feasible and in accord with good conservation practices.
- (4) That additional production information should be obtained on each of said four dual completions to determine that efficient flow is taking place from all zones in said wells.
- (5) That if such production information demonstrates inefficient flow from any of the mass, the Secretary-Director of the Commission should rescind the authority for the dual completion of the well.
- (6) That the subject application for four dual completions should be approved.
- (7) That the applicant further seeks an unorthodox gas well location for its Federal "CR" Com Well No. 1 at a point 660 feet from the South line and 660 feet from the West line of Section 29, Township 17 South, Range 25 East, NMPM, Eddy County, New Mexico.
- (8) That no offset operator objected to the proposed unorthodox location.
- (9) That the application for an unorthodox location should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant, Yates Petroleum Corporation, is hereby authorized four conventional dual completions, Eddy County, New Mexico, as follows:

-3-Case No. 5386 Order No. R-4955

The Federal "CR" Com Well No. 1 in Unit M of Section 29, Township 17 South, Range 25 East, NMPM, to produce gas from the Upper Pennsylvanian formation through the casing-tubing annulus and gas from the Atoka formation through 2 3/8-inch tubing with separation of the zones by a packer set at approximately 7870 feet;

the State "CY" Well No. 1 in Unit K of Section 32, Township 17 South, Range 25 East, NMPM, to produce gas from the Upper Pennsylvanian formation through 2 3/8-inch tubing and commingled gas from the Strawn and Atoka formations through 2 3/8-inch tubing and the casing-tubing annulus by means of a crossover assembly at approximately 6350 feet with separation of the zones by means of packers set at approximately 6350 feet and 7723 feet;

the Powell "DG" Com Well No. 1 in Unit O of Section 35, Township 17 South, Range 25 East, NMPM, to produce gas from the Upper Pennsylvanian formation through 2 3/8-inch tubing and gas from the Morrow formation through 2 3/8-inch tubing and the casing-tubing annulus by means of a crossover assembly at approximately 6500 feet with separation of the zones by means of packers set at approximately 6500 feet and 8324 feet; and

the Federal "CZ" Well No. 1 in Unit B of Section 8, Township 18 South, Range 25 East, NMPM, to produce gas from the Upper Pennsylvanian formation through 2 3/8-inch tubing and gas from the Morrow formation through 2 3/8-inch tubing, and through the casing-tubing annulus by means of a crossover assembly at approximately 6500 feet with separation of the zones by means of packers set at approximately 6500 feet and 8245 feet.

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

PROVIDED FURTHER, that the applicant shall take packer-leakage tests on each well upon completion and annually thereafter during the Shut-In Pressure Test Period for gas wells in Southeast New Mexico.

-4-Case No. 5386 Order No. R-4955

- (2) That the applicant shall take and file test data including, at least, monthly rates of production of gas and liquids, periodic flowing wellhead pressures and shutin pressures for the first 3 months of production, after the date of this order, from any zone of a dual completion herein approved.
- (3) The applicant shall file such test data with both the Artesia district and Santa Fe offices of the Commission.
- (4) The Secretary-Director of the Commission may rescind the authority for the dual completion of any well herein approved if a review of the test data required by Order (2) above demonstrates inefficient flow from either or both zones from any of said wells.

IT IS FURTHER ORDERED:

- (1) That the unorthodox gas well location of applicant's Federal "CR" Com Well No. 1 located 660 feet from the South line and 660 feet from the West line of Section 29, Township 17 South, Range 25 East, NMPM, is hereby approved.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

I. R. TRUJILLO, Chairman

PHIL R. LUCERO, Member

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

SEAL



S. P. YATES
PRESIDENT
MARTIN YATES, SILL
VICE PRESIDENT
JOHN A. YATES
VICE PRESIDENT
B. W. HARPER

January 8, 1975

Mr. R. L. Stamets New Mexico Oil Conservation Commission P.O. Box 2088 Santa Fe, New Mexico 87501

Dear Mr. Stamets:

Herewith is 4-point on our Federal CR #1 Comm Atoka completion. We are sorry but apparently we have never run a 4-point on the Canyon.

Yours truly,

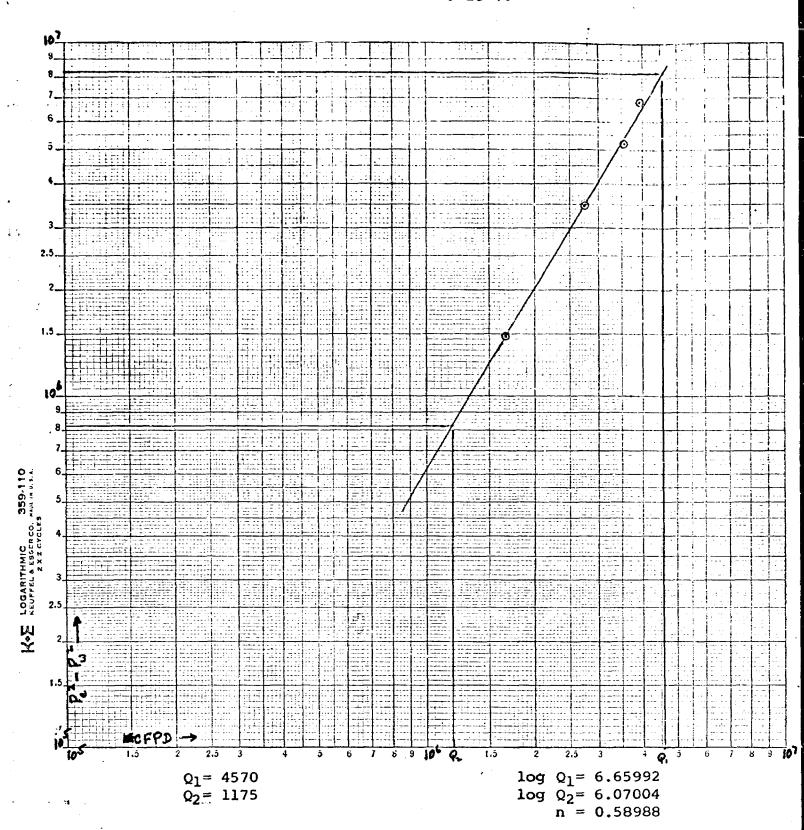
YATES PETROLEUM CORPORATION

Eddie M. Mahfood Petroleum Engineer

EMM/jg Encl.

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4. 5. P _C NO 1 2 3		259 21	9	P.2 1.755 4.731 3.021	1,470	Critics (1) _	al Presso al Tempe $\frac{P_c^2}{P_c^2 - P_w^2}$	rature	673. 361 8.225 3.490	· · · · · · · · · · · · · · · · · · ·	P.S.I./	A. R	R
4. 5. F _c _ NO 1 2 3 4	Pt2	259 217 17.	9 25 38 28	R, ² 1.755 4.731 3.021 2.039	1.470 3.494 5.204	Critics (1) _	al Presso al Tempe P_c^2 $P_c^2 - P_c^2$	rature	8.225 3.490	(2) (2) (3) (3)	P.S.I./ 1 1 	R =	R 1.6572
4. 5. P _C _NO 1 2 3 4 5	Pt ²	259 217 17.	9 25 38 28 2	1.755 4.755 4.731 3.021 2.039	1,470 3,494 5,204 6,797	Critical Cri	al Presso al Tempe P _C ² P _C ² – P _W	F ₂ ² F ₂ ² - F _w ²	9.225 3.490 "=_4	· · · · · · · · · · · · · · · · · · ·	P.S.I./ P.2	Slope.	1.6572 0.590
4. 5. P _C _NO 1 2 3 4 5	Pt ²	259 217 17.	9 28 28 28	1.755 4.755 4.731 3.021 2.039	1,470 3,494 5,204 6,797	Critical Cri	al Presso al Tempe P _C ² P _C ² – P _W	F ₂ ² F ₂ ² - F _w ²	9.225 3.490 "=_4	(2) [- 552 ope \(\int \) 59°	P.S.I./ P.2	Slope.	1.6572 0.590
4. 5. P _C _NO 1 2 3 4 5	Pt ²	259 217 17 14 Flow_	9 28 28	P. 1 1.755 4.731 3.021 2.039 4552 Jack	1,470 3,494 5,204 6,797 Moore	Critical Cri	P _C ² P _C ² = P _C ² Mc(d)	Pc ² Pc ² Pc ² Pc ² Pc 15.025 A Colculated E	9.225 3.490 n 4	(2) (2) (3) (2) (3) (2) (2) (2) (3) (4) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	P.S.I./ P.2	Slope,	1.6572 0.590

Yates F roleum Corporation Federal CR #1 (tubing) M-29-17S-25E Eddy Undesignated Atoka 9-28-73



NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

subject well? YES	Tewnship on heretofore authorize	Eddy	11-14-74		
nservation Commissics subject well? YES	Tewnship on heretofore authorize NO	Sederal "CR" Com			
nservation Commission subject well? YES	on heretofore authorize	17South	_ 1		
subject well? YES	NO		Range 25East		
	43377	<u>X</u>	of a well in these same pools or in the same		
mitted:	Upper Zone	Intermediate Zone	Lower Zone		
tion Richard	Krieb-Canyon	-	Richard KnobrAtoka		
	;				
6999-7	⁷ 006 '				
7114-7	71 7 5 '		7944-7964		
or Gas) Gas			Gas .		
Life) Flowing	1		Flowing		
r turbolizers and local and setting depth, local g the location of all of all leases offsetti isenting to such multisenting to such multisen furnished copies og of the well or other con. (If such log is not the lease on which the 2350 Hillcrest	tion thereof, quantities tion and type of packs wells on applicant's lease, including applicant's lease, including the application from cof the application. The acceptable log without available at the time is well is located tog Dallas, Texas	es used and top of cement, pers and side door chokes, and lease, all offset wells on ceach offset operator, or in leach offset operator, or in leach tops and bottoms of produce application is filed it should be succeeded as a second of the correct mains of the	perforated intervals, tubing strings, including such other information as may be pertinent. offset lesses, and the names and addresses icu thereof, evidence that said offset operations zones and intervals of perforation intervals by Rule 112-A.) ling address.		
	fion Richard 6999-7 7114-7 or Gas) Gas Lift) Flowing (Please check YES of the Multir turbolizers and location of all to a setting depth, location of all to a setting depth, location of all to a setting depth of all leases offsetting the location of all to seen furnished copies og of the well or other eon. (If such log is not the lease on which the 2350 Hillcrest	Zone tion Richard Kuch-Canyon 6999-7006' 7114-7175' or Gas) Gas Lift) Flowing (Please check YES or NO) ic Sketch of the Multiple Completion, show returbolizers and location thereof, quantities and setting depth, location and type of packing the location of all wells on applicant's lease of all leases offsetting applicant's lease, is enting to such multiple completion from een furnished copies of the application.* og of the well or other acceptable log with eon. (If such log is not available at the time the lease on which this well is located tog 2350 Hillcrest Dallas, Texas	Zone tion Clichard Knob-Canyon 6999-7006' 7114-7175' or Gas) Gas Lift) Flowing (Please check YES or NO) ic Sketch of the Multiple Completion, showing all easing strings, inclure turbolizers and location thereof, quantities used and top of cement, pand setting depth, location and type of packers and side door chokes, and ig the location of all wells on applicant's lease, all offset wells on of all leases offsetting applicant's lease. Issenting to such multiple completion from each offset operator, or in leasen furnished copies of the application.* og of the well or other acceptable log with tops and bottoms of production. (If such log is not available at the time application is filed it shall the lease on which this well is located together with their correct mail		

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will held the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

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		1	CASE	NO Poles	381	

YATES PETROLEUM CORPORATION

DIAGRAMMATIC SKETCH OF PROPOSED DUAL COMPLETION

Federal "CR" Com #1, 660' FSL & 660' FWL of Section 29~17S-25E Eddy Co.

Spudded 7-31-73 Dual Completion 9-25-73

Lost Circ. @ 253', dry drld. Top of San Andres @ 634' KB

Base of Artesian Zone @ 927' KB

Cored Slaughter Dolomite 1196-1326 w/scattered shows

Glorietta Sand @ 1917-2030'

Top of cement at 6000' Cisco formation top @ 6245' Possible Cisco pay @ 6496-6511'

Canyon Pay - 6999-7174' *Flowed 1183 MCFPD 3/4" ck 9-23-7 NOTE: Blast jts opposite perfs, BFC Model L Sliding Sleeve @ 7213

Poss. Strawn pay @ 7642-7649'

Atoka pay 7944-7964 *Flowed 6750 MCFPD 3/4" ck 9-25-73

Total Depth - Driller 8340 = 8342 EL.

BEFORE EXAMINER STAMETS H cmt w/3/4% CFR 2, 5# salt.

OIL CONSERVATION COMMISSION EXHIBIT NO.

CASE NO. 5386

Submitted by_

Hearing Date

Tbg Compl. - Atoka (Lower Penn) Csg Annulus Compl. (Upper Penn)

17" hole to 180' KB 161' 13-3/8" H-40 @ 180' KB w/100 sx Class C 4% CaCl, circ.

12¼" hole to 1038' KB 98º 9-5/8" 32.3# H-40 @ 10071 w/700 sx Class C 2% CaCl, notched Tex-Patt Shoe, centralizers @ 905,578,510, bskts @ 542,479',circulated.

7" 23# Howco DV Tool @ 2204' KB cmt'd w/225 sx Hal-Lite, est. top cmt @ 50'

Perf 6999-7006 w/15-0.50" jets Trtd w/1250g 15% acid & 2000g CRA Perf 7164-7174 w/20-0.50" jets Trtd w/1000g NEA & 7500g CRA

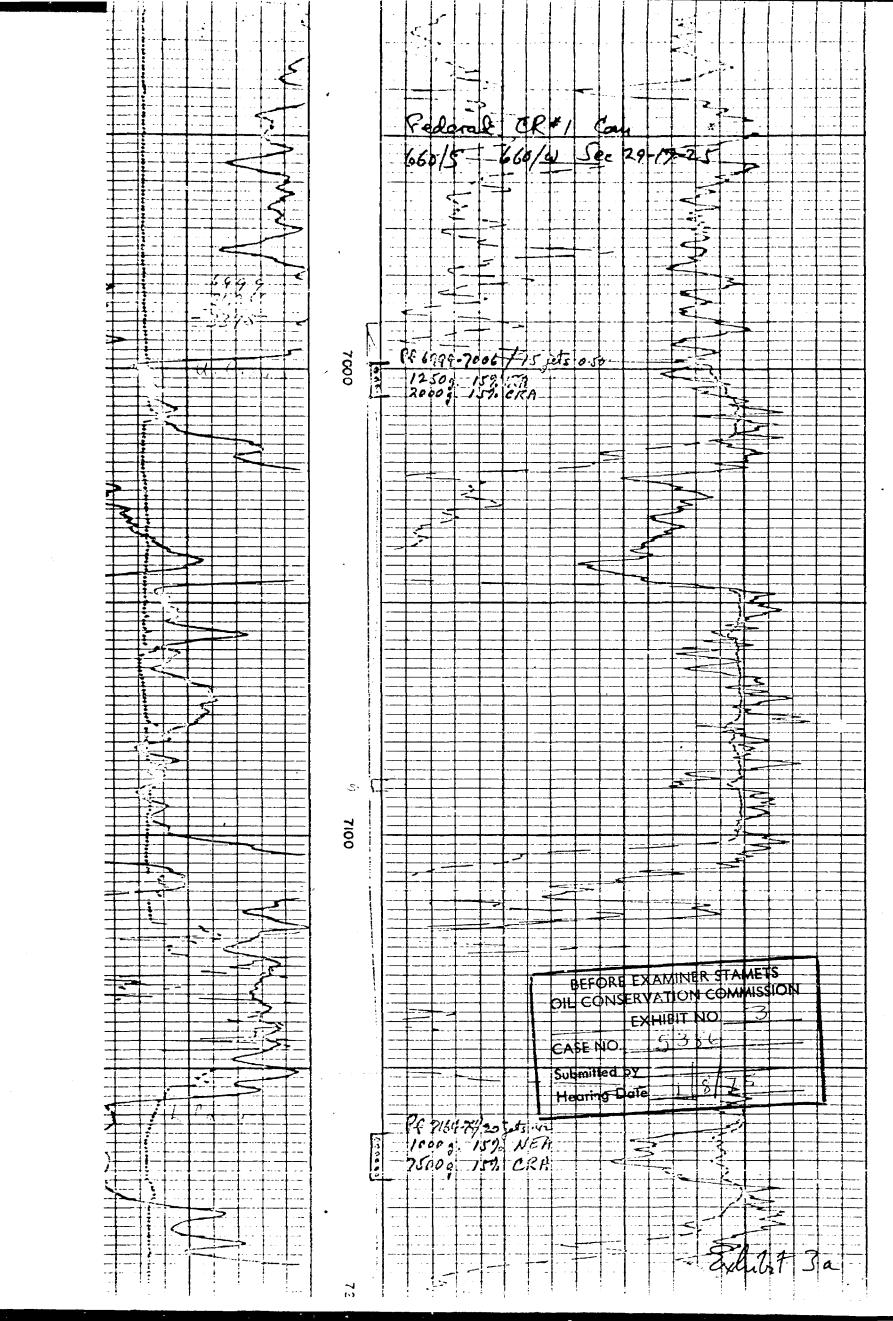
7" 26# Howco DV Tool @ 7276' KB cmt'd w/260 sx Class H cmt w/3/4% CFR-2, 5# salt.

2-3/8" EUE 4.7# Tbg on Baker 7"x2' Lockset Pkr top @ 7870', PSI Actuated Sleeve & perf sub @ 7874-7878'

Perf 7945-7963' w/72-9.41 jets on Van Tool Tbg-Conveyed Gun Natural Completion

254 jts 7" 23&26# K-55, N-80 csg w/float shoe, 3-stage cmenter Equpt & 10 centralizers, cmt'd w/195 sx

Exhibit 2



NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

Vates Petrolous Corns		County		Date
Yates Petroleum Corpo		Lease	Eddy	11-14-74
207 So. 4th St., Arto			State "CY"	Well No.
et Well K	Section 32	Township	outh	Ronge 25East
. Has the New Mexico Oil Conserva	tion Commission heretofo:	e authorized		on of a well in these same pools or in the same
zones within one mile of the subje				
. If answer is yes, identify one such	h instance: Order No		; Operator Lease	e, and Well No.:
. The following faces are submitted:	Upper		Intermediate	Lower
	Zone		Zone	Zone
a. Name of Pool and Formation	Richard Knob-Ci	sco=Cany	on	Richard Knob-Strawn-Ato
b. Top and Bottom of	(220-((401			
Pay Section (Perforations)	6380-6643'			7732-8070'
c. Type of production (Oil or Gas)	Gas			Gas
d. Method of Production				~0.9
(Flowing or Artificial Lift)	Flowing			Flowing
. The following are attached. (Pleas	se check YES or NO)			•
				acluding diameters and setting depths, central-
diameters and sett	lizers and location thereof ing depth, location and ty	, quantities pe of packer	used and top of cemen s and side door chokes, a	t, perforated intervals, tubing strings, including and such other information as may be pertinent.
	ocation of all wells on ap leases offsetting applican		ase, all offset wells o	n offset leases, and the names and addresses
			ch offset operator, or i	n lieu thereof, evidence that said offset opera
tors have been fur	mished copies of the appl	ication.*		
dicated thereon. (I	f such log is not available	at the time	application is filed it	oducing zones and intervals of perforation in shall be submitted as provided by Rule 112-A.
List all offset operators to the lea		_		nailing address.
Pennzoil Company Drawe	er 1323, Midland,	Texas	79701	
Gulf Cil Company Box 1	1150 Gulf Bldg., M	<u>idland,</u>	Texas 79701	
Sun Oil Company 12350	Hillcrest, Dallas	, Texas	75230	·
Yates Petroleum Corpor	ration 207 South 4	th St.	<u>Artesia. New Me</u>	xico 89210
•				
			<u> </u>	
date of such notification 11-	5 above notified and furnis -14-74	hed a copy	of this application?	YES X NO . If answer is yes, give
	•	2		
CERTIFICATE: I, the undersigned	(company), and that I am	authorized	by said company to mak	of the Yates Petroleum Corp. e this report; and that this report was prepared
inder my supervision and direction ar	nd that the facts stated the	rein are tru	e, correct and complete	to the best of my knowledge.
			5117	Listed 1
			caare	Signature / Lat
			ddie M. Mahfood	J. she New Marine Oil Comments Commission

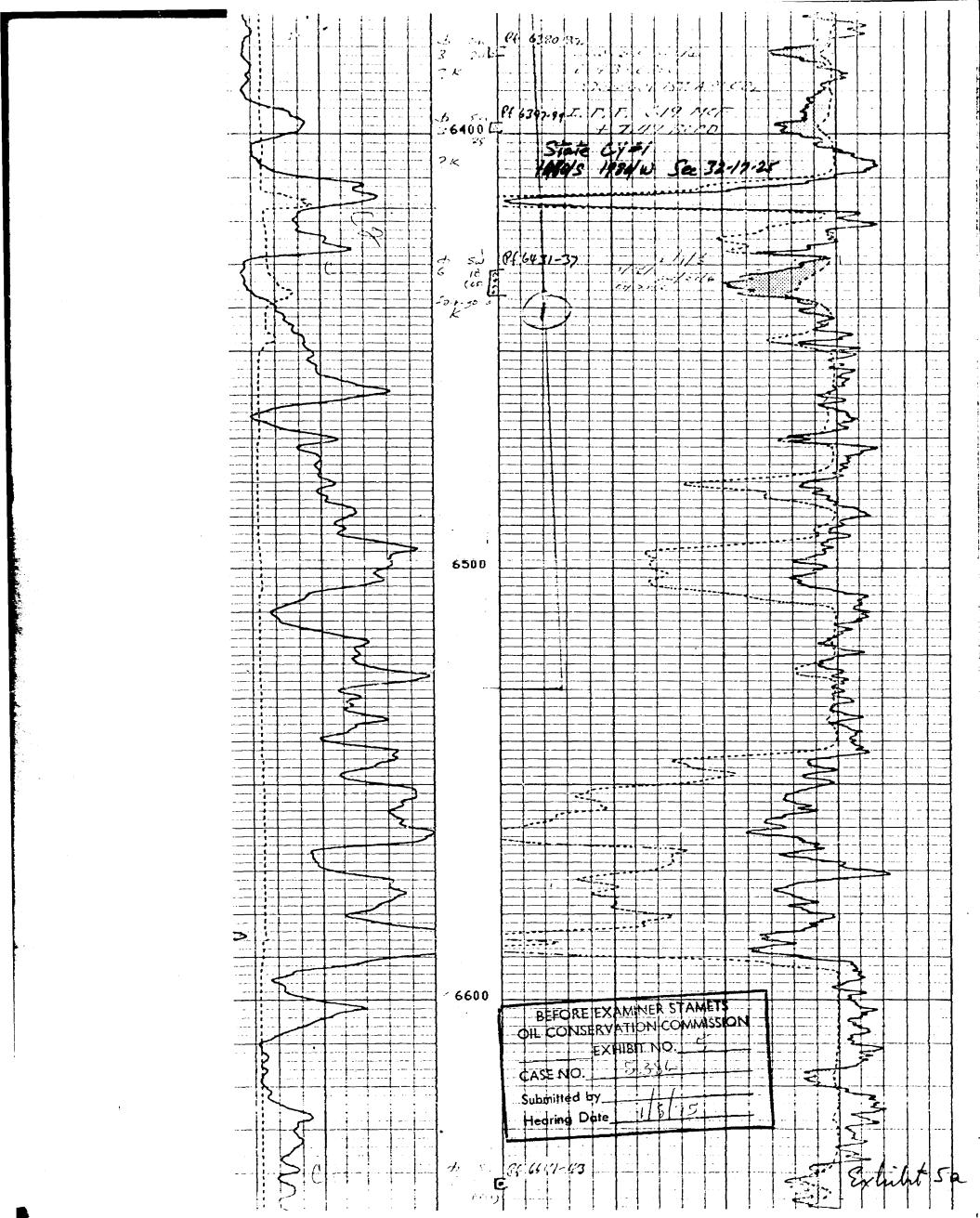
*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in One or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

YATES BETLOLLUM COPIX BATION Diagrammatic Sketch of Proposed Dual Completion State "CY" #1, 1930' FSL, 1930' FWL, Section 32-T17S-R25E, Eddy County, New Mexico

Tubine Completion - Cisco Spudded 11-26-74 Atoka Completion 1-31-74 Casing Completion - Atoka Cisco Completion 2-22-74 Elevation 3693 GR-3620' KB cmt circ on surface & intermediate cses $17\frac{1}{2}^{\prime\prime}$ hole to 206' KB $13^{3}/3$ " 43# cso set at 206', cmtd w/125 s Top of San Andres at 631' $12\frac{1}{4}$ hole to 1066 KB 3 5/3" 24# csg set at 1060', cmtd w/675 sx Base of Artesian at 950' centralizers at 939, 697 and 616, baskets at 657 and 616. Tex Patt Notched Shoe . Top of primary cmt at 6010' KB, mud to surf. 42" Baker Model AR-1 pkr w/cross-over (profile 1.87) at approx 6350' Top of Cisco at 6234' \$ Pf 6380-82' Treated with Scattered Cisco pays A Pf 6397-99' 27000 g 15% DS-30 flowed 619 MCFPD w/7.5 BO on 3/4" choke, 30# TP 24 PF 6431-37' & CO2 江PF 6641-43' 2 3/3" EUE 4.7# J-55 tubing (7706') landed in on-off,tool Strawn at 7683' Baker Lok-set Pkr at 7723' KB w/Baker "FL" Ch-Off tool at 7719' KB (profile 1.31) Treated w/3000 c 75% MSA & N-2 SF w/18000# 20/40 in 10000 c Pf 7732-36' FF 7997-04' FF 3066-70' Top of Atoka at-7960' 5% MSA & 5000 o CC2 flowed 2.35 MMCFPD w/6.2 BO on 3/4" choke, 150# TP Morrow Clastics at 3115' PBTD 8190', top of float collar 250 jts 4½" 10.5#-11.6# K-55 csg set at 3216" KB, cmtd w/525 sx C1 H, 0.75% CFR2, 5% salt. BEFORE EXAMINER STAMETS OIL CONSERVATION COMMISSION TD 3330' EXHIBIT NO. CASE NO. Submitted by Exhibit 4

Hearing Date



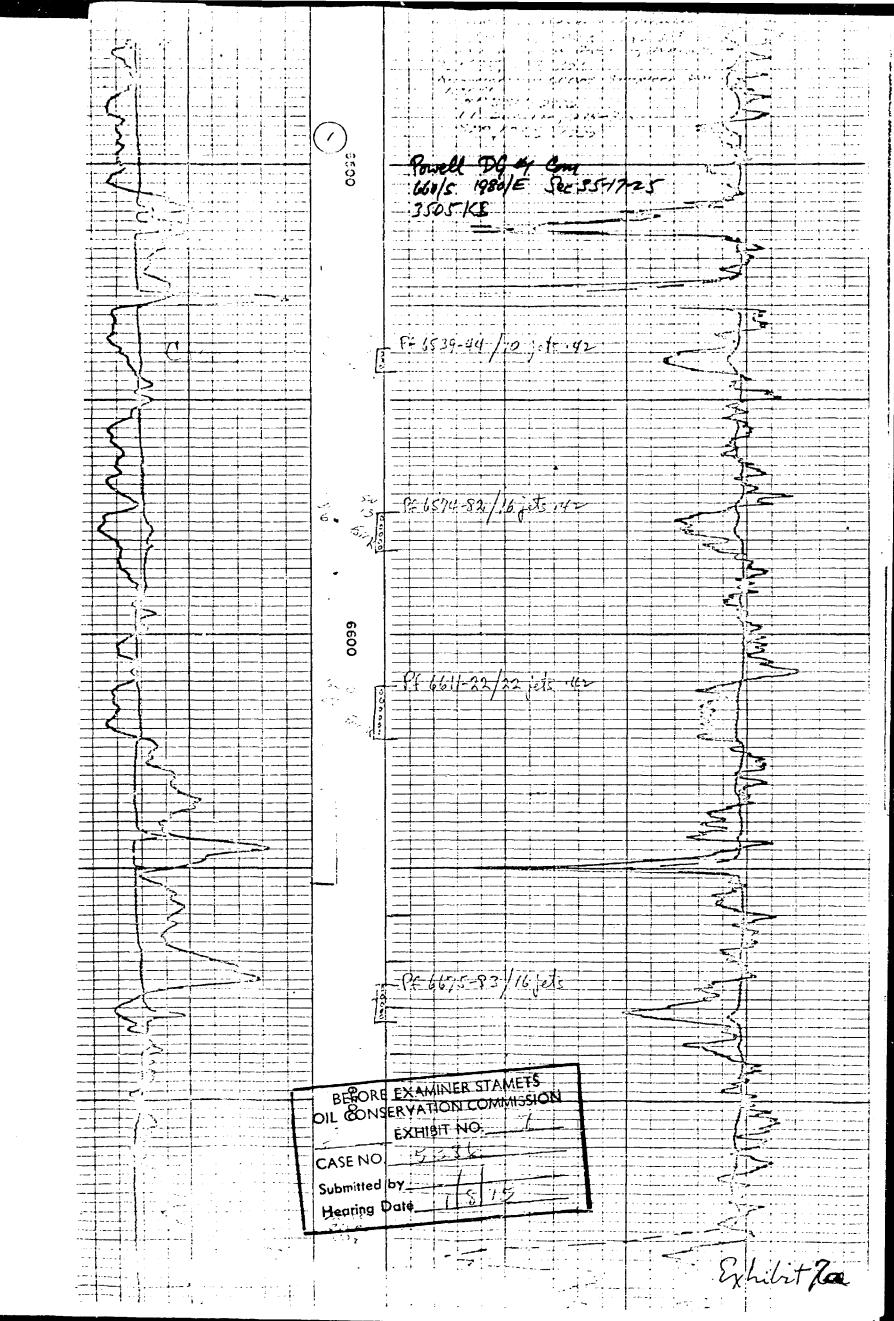
NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

perator			County		Date	Date		
Yates Petrole	ım Corpora:	tion		Eddy	11-1	4-74		
idites:			[_ease		Well No.	*		
207 So. 4th St., Artesia, New Mexico				well "DG"	1 = Com			
ocation Unit	Sec	etten 35	Township	120	Range			
of Well		<u> </u>	<u> </u>	17South	25Ea	st		
zones within one mile	of the subject	well? YES	NO_X_	t the multiple completion; Operator Lease,				
. The following facts a	e submitted;	Upper Zone		Intermediate Zone		Lower Zone		
a. Name of Pool and	Formation	Richard Knob-Ci	isco		W. Ato	ka Morrow		
b. Top and Bottom of					1			
Pay Section		6539-66331			9333-8	333*		
(Perforations)						•		
c. Type of production	(Oil or Gas)	Gas			Gas			
d. Method of Producti								
(Flowing or Arti	ficial Lift)	Flowing	··-	<u> </u>	Flowin	<u>c</u>		
diame X	ters and setting thowing the loc rators of all less consenting the average been furnitieal log of the difference (If some to the lease Company, Bornoration, on Company, on Co	ation of all wells on a ases offsetting applica to such multiple complished copies of the application of a such log is not available on which this well is early, Box 1610, Many, Box 1610, Many, Box 3092, Hours and Song 200 Blde, of the such log is not available on which this well is early, Box 1610, Many, Box 1610, M	pplicant's lease. etion from eachication.* ble log with eat the time located toge 1. Texas Midland, the SW, Maston, Texas	Texas 79701	nd such other informate offset leases, and the lieu thereof, evidence ducing zones and interest as ailing address.	tion as may be pertinent, he names and addresses that said offset operatervals of perforation in provided by Rule 112-A.		
date of such notificat	ion ne undersigned, (c	11-14-74 state that I am the company), and that I am	Chief E	of this application? Y	of the Yates Pet	roleum Corp.		

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Sunta Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in One or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

Spudded 6-14-74 Tubino Completion - Gisco Merrow Completion 8-22-74 Casine Completion - Morrow Cisco Completion Elevation 3490' GR-3505, KB cmt circ on surface & intermediate csq 17)S hole to 13 3/8" 43# J-55 csg (336') set at 391' KE cmtd w/250 sx and 4 yards ready mix Top San Andres @ 778 12 hole to 1233' KB Base of Artesian @ 1138 34 jts 3 5/3" 24# J-55 csg (1223') set at 1323' KB, cmtd w/1100 sx. centralizers at 1113 and 700', Baskets at 741 and 667', Guide shoe. Top of cmtr behind 42" csg at 6050' 42" Saker Model AR-1 Pkr w/cross-over (profile 1.37) at approx Pf 6539-44' Pf 6574-32' Cisco at 6435' Pf 6611-22' Ff 6675-93' $4\frac{1}{2}$ " DV tool at 6822' KB, Canyon at 7341' cmtd w/200 sx C1 C; ½% CFR2, 5% salt Strawn at 7731' Atoka at 3115' Treated w/1990 g 72% MSA & N2 Pf 3367-63' Morrow Clastics at 3304' Pf -3330-361 SF w/17000# 20/40 sd in flowed 1.01 MMCFPD w/7 BO on 15000 c KC1 wtr and CO2 3/4" choke at 55 psi TP Chester at 8475 265 jts 45" 10.5-11.6# K-55 csq set at 3561' BEFORE EXAMINER STAMETS cmtd w/250 sx C1 H 3/4% CFR2, 5% salt. OIL CONSERVATION COMMISSION TD 3740' EXHIBIT NO._ CASE NO. Submitted by Exhibit 6 Hearing Date



NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

Cretater	t etalet			County		Date	Date		
Yat	tes Petroleum Corp	oration		į	Eddy	ļ	11-14-74		
Address	The second of the second secon			Leuse		Well	No.		
201	7 So. 4th St., Art	esia. New	Mexico	F	ederal "CZ"	\	1		
Location	Valt	Section		Township		Rang	0		
of Well	В	3			13South		25East		
l. Has t	he New Mexico Oil Conser	vation Commis	sion heretofo	re authorized		of a well	in these same pools or in the same		
	within one mile of the sul						• • • • • • • • • • • • • • • • • • • •		
						and Well	No.:		
					1 01 111101 250000,				
					· · · · · · · · · · · · · · · · · · ·				
3. The f	ollowing facts are submitte	ed:	Upper		Intermediate		Lower		
			Zone		Zone		Zone		
a. Nz	me of Pool and Formation	Richa	rd Kn <mark>ob-C</mark>	isco Cany	เดา		Richard Knob-Morrow		
b. To	p and Bottom of								
	Pay Section	6554	-6576 '				9333-9398'		
	(Perforations)								
c. Ty	pe of production (Oil or G	as) Gas					Gas		
d. Me	ethod of Production								
	(Flowing or Actificial Lift)) Flow	ina				Flowing		
4. The f	ollowing are attached. (Ple	ease check YE	S or NO)						
Yes	No								
[X]		ketch of the M	ultiple Compl	ction, showing	ng all casing strings, inc	luding di	ameters and setting depths, central-		
							d intervals, tubing strings, including		
KZ-7				•			her information as may be pertinent.		
	b. Plat showing the				ase, all oliset wells on	oliset le	ases, and the names and addresses		
\mathbf{x}	·				ich offset operator, or in	lieu there	eof, evidence that said offset opera-		
	tors have been	furnished copi	es of the app	olication.*					
X	d. Electrical log o	f the well or o	other accepta	ble log with	tops and bottoms of pro	ducing zo	ones and intervals of perforation in-		
							abmitted as provided by Rule 112-A.)		
5. List	all offset operators to the	lease on which	this well is	located toge	ther with their correct ma	uiling add	ress.		
Fra	anklin, Aston & Fa	ir, Inc.,	Box 1090	, Roswell	. New Mexico 8	8201			
At	lantic Richfield C	ompany, Bo	os 1610,	Midland,	Texas 79701				
							•		
Yat	tes Petroleum Corp	oration, ?	207 South	4th Stre	eet., Artesia. Ne	w Mexi	cc 38210		
		<u>:</u>							
						····			
	•				•				
6. Were	all operators listed in Iter	m 5 above noti	fied and furn	ished a copy	of this application? Y	ES_X_	NO If answer is yes, give		
	of such notification	11-14							
							-		
CER	TIFICATE: I, the undersit	gned, state tha	tlam the	Chief Er	ndineer	of the <u>Ya</u>	tes Petroleum Corp		
		(company),	and that I a	m authorized	by said company to make	this repo	ort; and that this report was prepared		
under my	y supervision and direction	and that the f	acts stated th	ierein are tru	e, correct and complete t	o the bes	t of my knowledge.		
					\circ	}	,		
					S 200 1	1.	. (.)		
					mare h	· uu	ary I		
				Ç	ddia M. Mahfaad	Signo	unte//		

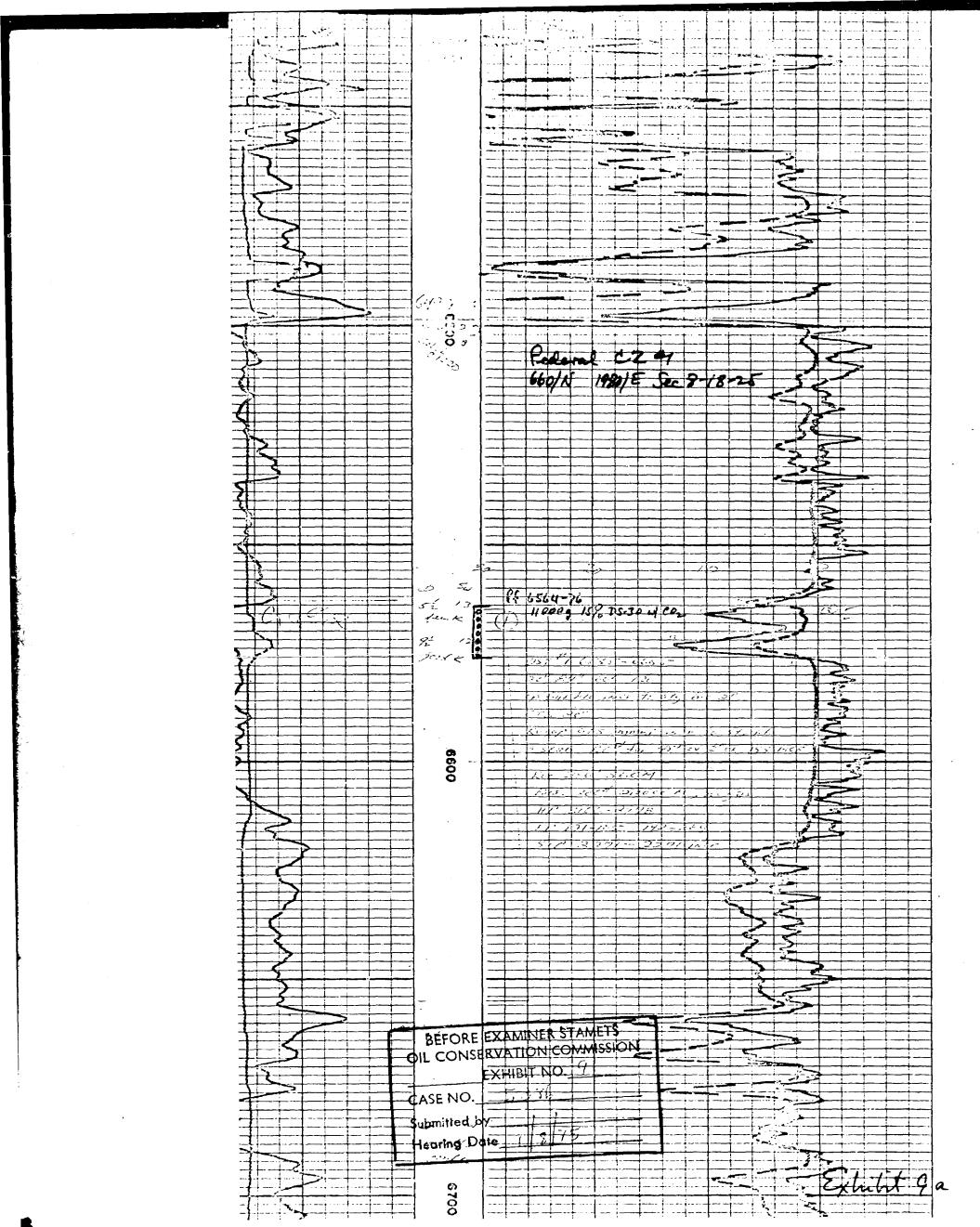
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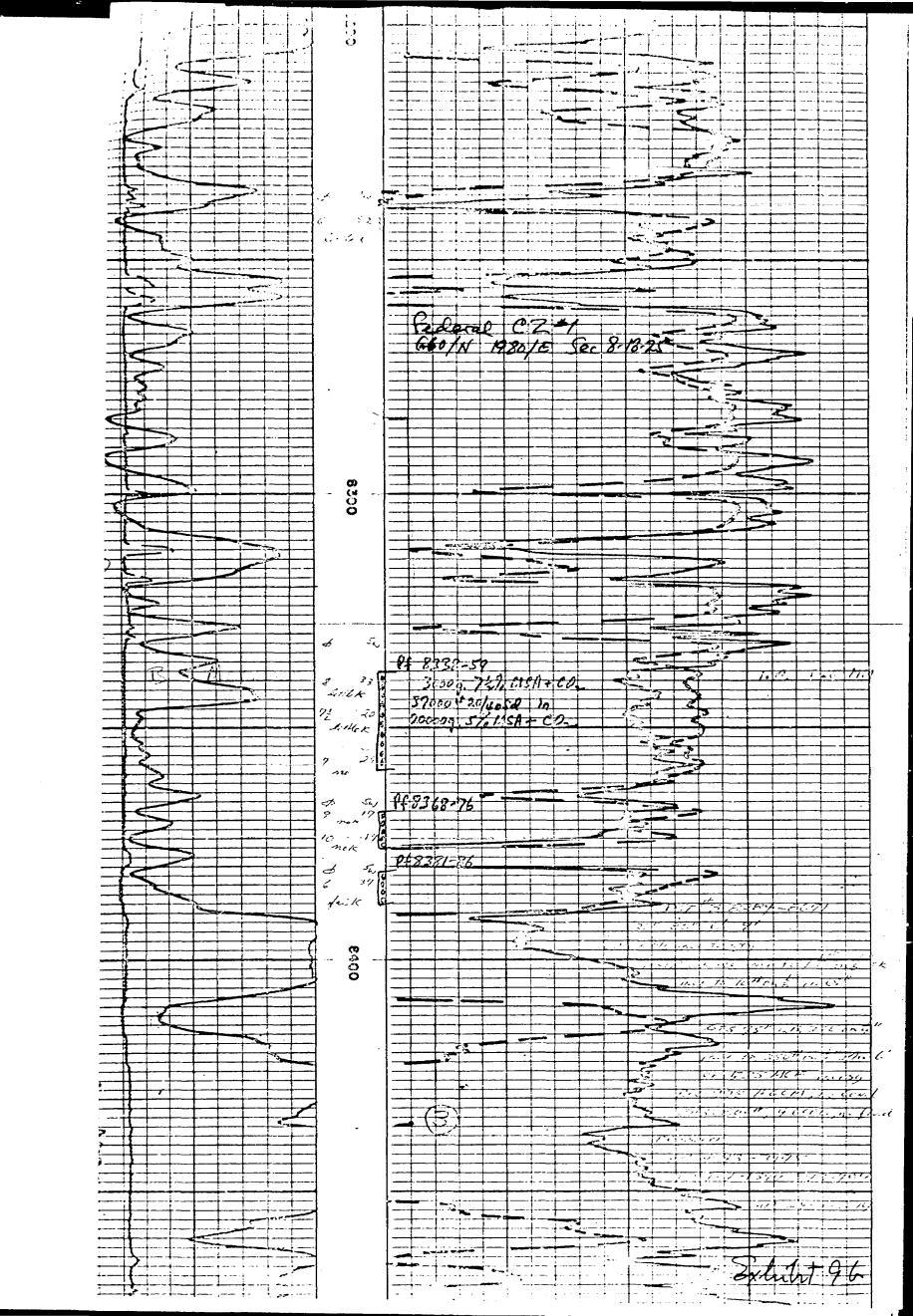
NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard protation unit in One or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

YATES TEASOLIUM CONFERATION

Diagrammatic Sketch of Proposed Dual Completion Federal "CZ" #1, 660' FNL, 1930' FnL, Section S-T19S-R25E Eddy County, New Mexico

Spudded 12-29-73 Tubing Completion - Cisco Morrow Completion 3-24-74 Casing Completion - Morrow Cisco Completion 5-4-74 Elevation 3595 GR-3612 KB Ont circ on surface & intermediate csq. $17 \frac{1}{6}$ " hole to 257' KB 12 3/4" 30# csg set at 257' KB cmtd w/200 sx Top of San Andres at 686' 12¹ hole to 1111' KB Base of Artesian at 1010' 29 jts 3 5/6" 28# J-55 csg set at 1111' KB cmtd w/950 sx, Centralizers at 990 and 674, Basket at 642' Top of cmt behind $4\frac{1}{2}$ " csg at 5350" 42 Baker Model AR-1 Pkr w/corss-over (profile 1.37) at approx 6500' Pf 6554-65761 Cisco at 6437' Treated w/11000 c 15% DS-30 and CO2 flowed 1.15 MMCFPD on 3/4" choke at 70 psi $4\frac{1}{2}$ " DV tool at 6704' KB, cmtd w/ 250 sx Canyon at 7327' CLh, 3/4% CFR2, 5% salt 2 3/3" EUE 4.7# J-55 Tubinc (9223') landed in Cn-Cff tool 4½" Baker Lok-set Pkr at 8245' KB w/Baker Model FL on-Off tool at 3241' KB (profile 1.3 Strawn at 7333' Pf 3333-59' Treated w/3000 a 75% MSA & CO2 Morrow Clastics at 3325' SF w/37000# 20/40 in 20000 c Pf 3363-76" flowed 6.51 MMCFPD w/33.4 BC Pf 9331-88' 5% MSA and CO2 on 3/4" ck at 4504 TP Chester at 3513' PBTD 3503' (Top of float collar) MIBEFORE EXAMINER STAMETS 268 jts 4}" 10.5-11.6# K-55 cso set at 9535' OIL CONSERVATION COMMISSION cmtd w/200 sx CL h 3/4% CFR2, 5% salt. EXHIBIT NO._ TD 3671' CASE NO. 5381 Submitted by___ Hearing Date_ Exhibit 8





- CASE 5381: Application of Mobil Oil Corporation for temporary special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of temporary special pool rules for the Eunice-San Andres Pool, Lea County, New Mexico, including a provision for a limiting gas-oil ratio of 5,000 to 1.
- CASE 5382: Application of Reico Petroleum Corporation for special pool rules, Eddy County, New Nexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Los Medanos-Atoka Gas Pool, Eddy County, New Mexico, to provide for 320-acre spacing rather than 160 acres. In the absence of objection, this pool will be placed on the standard 320-acre spacing for Pennsylvanian Gas Pools rather than the present 160-acre spacing.
- CASE 5383: Application of Union Texas Petroleum Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Crosby Deep Well No. 3, located in Unit J of Section 33, Township 25 South, Range 37 East, Crosby Field, Lea County, New Mexico, in such a manner as to produce oil from the Fusselman formation and gas from the McKee formation through parallel strings of tobing.
- CASE 5384: Application of Atlantic Richfield Company for a non-standard gas proration unit, three unorthodox gas well locations, and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a 240-acre non-standard gas proration unit comprising W/2 NE/4, W/2 SE/4, SE/4 SE/4, and SE/4 SW/4 of Section 32, Township 24 South, Range 37 East, Lea County, New Mexico, to be simultaneously dedicated to its State 157-E Well No. 1, located 2310 feet from the North and East lines, its State 157-C Com Well No. 1, located 330 feet from the South line and 2310 feet from the East line, and its State 157-C Well No. 2, located 990 feet from the South line and 330 feet from the East line, all unorthodox gas well locations in said Section 32.
- CASE 5385: Application of Yates Petroleum Corporation for pool creation and special pool rules and an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the creation of the High Hope-Abo Gas Pool in Section 13, Township 17 South, Range 23 East, Eddy County, New Mexico, and the promulgation of special pool rules therefor, including a provision for 320-acre spacing and provation units. Applicant further seeks approval for the unorthodox location of its High Hope DJ Federal Well No. 1, located 690 feet from the North line and 480 feet from the West line of Section 13, Township 17 South, Range 23 East, Eddy County, New Mexico, the W/2 of said Section 13 to be dedicated to the well.
- CASE 5386: Application of Yates Petroleum Corporation for four dual completions and one unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the following dual completions in Township 17 South, Range 25 East, Eddy County, New Mexico:

(Case 5386 Continued from Page 2)

The Federal "CK" Com Well No. 1, located at an unorthodox gas well location 660 feet from the South and West lines of Section 29, to produce gas from the Canyon formation through the casing-tubing annulus and from the Atoka formation through tubing, the W/2 of said Section 29 to be dedicated to the well;

The State "CY" Well No. 1, located in Unit K of Section 32, to produce gas from the Strawn and Atoka formations through the casing-tubing annulus and from the Cisco through tubing by means of a cross-over assembly;

The Powell "DG" Com Well No. 1, located in Unit O of Section 35, to produce gas from the Morrow through the casing-tubing annulus and from the Cisco through tubing by means of a cross-over assembly;

And the Federal "CZ" Well No. 1, located in Unit B of Section 8, Township 18 South, Range 25 East, to produce gas from the Morrow through the casing-tubing annulus and from the Cisco through tubing by means of a cross-over assembly.

CASE 5367: (Continued from the November 26, 1974, Examiner Hearing)

Application of Yates Petroleum Corporation for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to convert its Hornbaker BA Well No. 1, located in Unit G of Section 25, Township 18 South, Range 25 East, Penasco Draw Yeso-San Andres Pool, Eddy County, New Mexico, to dispose of produced salt water into the Yeso and San Andres formations through the perforated intervals from 1400 to 2480 feet. Applicant further seeks an administrative procedure for approval of additional salt water disposal into the Yeso and San Andres formations in the subject pool without notice and hearing.

- CASE 5387: Application of HNG Gil Co. for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox gas well location in the Devonian and/or Ellenburger formation of its Dogie Draw Fed. Well No. 2, to be drilled at a point 1325 feet from the South and West lines of Section 5, Township 26 South, Range 36 East, Lea County, New Mexico, the S/2 of said Section 5 to be dedicated to the well.
- CASE 5388: Application of Great Western Drilling Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Hay Hollow Unit Area comprising 7040 acres, more or less, of Federal and State lands in Township 26 South, Range 27 East, Eddy County, New Mexico.
- CASE 5389: Application of Shell Oil Company for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the S/2 NW/4, NE/4 SW/4, and NW/4 SE/4 of Section 3, Township 21 South,



YATES BUILDING - 207 SOUTH ATH ST.
ARTESIA, NEW MEXICO - 88210

November 14, 1976

Off Control Water Code

S. P. YATES
PRESIDENT
MARTIN YATES, III
VICE PRESIDENT
JOHN A. YATES
VICE PRESIDENT
B. W. HARPER
SEC. - TREAS.

Mr. A.L. Porter, Jr. Secretary-Director New Mexico Cil Conservation Commission P.O. Box 2003 Santa Fe. New Mexico 37501

> RE: Dual Completion, Richard Knob CiscorCanyon, Richard Knob Atoka, Richard Knob Morrow, Eddy County, New Mexico

Dear Sir:

Yates Petroleum Corporation seeks permission to dually complete and produce four wells in a New Pool area to be hereafter designated as Richard Knob. and a procedure whereby additional wells drilled within this area maybe dually completed without Notice and Hearing.

The Federal "CR" #1 Com, located 660' FSL and 660' FWL of Section 29-T17S-R25E, is completed with <u>Canvon Perforations</u> (6999-7006'; and 7164-7175') in casing annulus with Blast Joints on tubing string opposite Canyon Perforations and a Sliding Sleeve above packer and blank-off nipple, and with Ateka Perforations (7944-7964') open to the tubing under packer. Neither the Canyon nor Atoka produces much fluid. Should the Canyon accumulate fluid after prolonged flow, however, this fluid may be blown down thru the tubing by setting with wireline a Blanking Plug in blank-off nipple located on top of the packer thereby shutting in the Atoka completion, and opening a Sliding Sleeve located above the Blanking Plug. After unloading the Canyon, the Sliding Sleeve will be closed and Blanking Plug pulled returning well to dual status.

The State "CY" #1. located 1980' FSL and 1930' FWL of Section 32-T17S-R25E, is to be completed with Cisco Perforations (6380-82'; 6397-99'; 6431-37'; and 6641-43') in tubing and Strawn-Atoka Perforations (7732-86'; 7997-99'; 3002-04'; and 3066-70') in casing annulus using two packers and a cross-over assembly. Blast joints will be installed opposite Cisco Perforations, packer with on-off tool below the Cisco Perforations, and packer with cross-over tools above the Cisco Perforations. By pulling the cross-over tool and replacing with a straight-thru tool, the Cisco may be shut in between the two packers and the Atoka will then be open in the tubing for unloading or remedial work as may be needed.

DOCKET MAILED

Date 12-26-14

Paire St. Tour Bar 11, 1971

The Principle "C7" 41, located CC. " FIL and 1930" Ful of Rection 2:1138:025E, is to be completed with Cioco Engloration (6:44-76") in tubing and Morrow Perforations (2323-12") in casing another using two packers and a overheader according a stem

The Powell "D." 71 Car. Iccated 660' FSL and 1930' FEL of Section 35-T135-825E, is to be completed with Cisco Perforations (6539-44'; 6574-82'; 6611-22'; and 6676-83') in There and Morrow Perforations (9367-63' and 5380-86') in casing acquires using two packers and a crossrove: assembly, as above.

Should be Please school 35-17-25 Please schedule this hearing on the same docket as Gentinued Case

Yours very touly,

YATES PETROLEUM CORPORATION

EM/pt

NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

		Cowaty Sant Date					
Tates Potroleum Corpora	+ 1 00	!	Santo S				
Affress	<u> </u>	Lease	;	11-14-74 Vell No.			
207 So. 4th St., Artesi		Federal	"Ch" Con)			
Location Unit Second Conference M.	29	Township 1780:		ange 25East			
1. Has the New Mexico Oil Conservation	on Commission heretofore		iple completion of a	well in these same pools or in the same			
zones within one mile of the subject							
2. If answer is yes, identify one such i	nstance: Order No	;(perator Lease, and V	Vell No.:			
3. The following facts are submitted:	Upper		Intermediate				
	Zone		Zone	Lower Zone			
a. Name of Pool and Formation	Richard Knob-Car	von		Richard Knob-Atoka			
b. Top and Bottom of				77.007 1077 1078			
Pay Section	6999~70061						
(Perforations)	7114-71751	1		7944-79641			
c. Type of production (Oil or Gas)	Gas			Cas			
d. Method of Production							
(Flowing or Artificial Lift)	Flowing	İ		Flowing			
1. The following are attached. (Please	_L			1.1041:10			
	the rise of the						
Yes No							
				g diameters and setting depths, central- rated intervals, tubing strings, including			
diameters and setting	g depth, location and typ	e of packers and side	door chokes, and suc	h other information as may be pertinent.			
X b. Plat showing the loc	ation of all wells on app	olicant's lease, ail	offser wells on offse	t leases, and the names and addresses			
of operators of all le	ases offsetting applicant	's lease.					
			operator, or in lieu t	hereof, evidence that said offset opera-			
	shed copies of the appli		1	and instruction in			
d. Electrical log of the	well or other acceptable	e) g with tops and at the time applicat	bottoms of producing on is filed it shall b	g zones and intervals of perforation in- e submitted as provided by Rule 112-A.)			
5. List all offset operators to the lease		•	_	address.			
Sun Oil Company 12850 H	illorest Dallas,	Texas 75230					
Vatas Datuslaus Comm							
Yates Petroleum Corpora	tion 207 So. 4th	Street. Arte	<u>sia, New Mexic</u>	o 38210			
		·					
			 				
6. Were all operators listed in Item 5 a	above notified and furnish	hed a copy of this a	pplication? YES X	NO If answer is yes, give			
date of such notification	11-14-74	•					
CERTIFICATE: I, the undersigned,	. state that I am the	hief Engineer	of the	Yates Petroleum Corp.			
(company), and that I am	authorized by said c	ompany to make this	report; and that this report was prepared			
under my supervision and direction and	that the facts stated the	rein are true, correct	and complete to the	best of my knowledge.			
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			We Mr.	halful			
		Eddie M	. Mahfood s	Signature			
				r			

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

YATES PETROLEUM CORPORATION DIAGRAMMATIC SKETCH OF PROPOSED DUAL COMPLETION Federal "CR" Com #1, 660' FSL & 660' FWL of Section 29-175-25E Eddy Co., NM

Spudded 7-31-73
Dual Completion 9-25-73

Lost Circ. @ 253', dry drld. Top of San Andres @ 634' KB

Base of Artesian Zone @ 927' KB

Cored Slaughter Dolomite 1196-1326 w/scattered shows

Glorietta Sand @ 1917-2030'

Top of cement at 6000' Cisco formation top @ 6245' Possible Cisco pay @ 6496-6511'

Canyon Pay - 6999-7174'
*Flowed 1183 MCFPD 3/4" ck 9-23 7
NOTE: Blast jts opposite perfs,
BFC Model L Sliding Sleeve @ 7213

Poss. Strawn pay @ 7642-7649'

Atoka pay 7944-7964 *Flowed 6750 MCFPD 3/4" ck 9-25-73

Total Depth - Driller 8340 = 8342 EL.

Tbg Compl. - Atoka (Lower Penn) Csg Annulus Compl. (Upper Penn)

17" hole to 180' KB 161' 13-3/8" H-40 @ 180' KB w/100 sx Class C 4% CaCl, circ.

12¼" hole to 1038' KB 989 9-5/8" 32.3# H-40 @ 1007' w/700 sx Class C 2% CaCl, notched Tex-Patt Shoe, centralizers @ 905,578,510, bskts @ 542,479',circulated.

7" 23# Howco DV Tool @ 2204' KB cmt'd w/225 sx Hal-Lite, est. top cmt @ 50'

Perf 6999-7006 w/15-0.50" jets Trtd w/1250g 15% acid & 2000g CRA Perf 7164-7174 w/20-0.50" jets Trtd w/1000g NEA & 7500g CRA

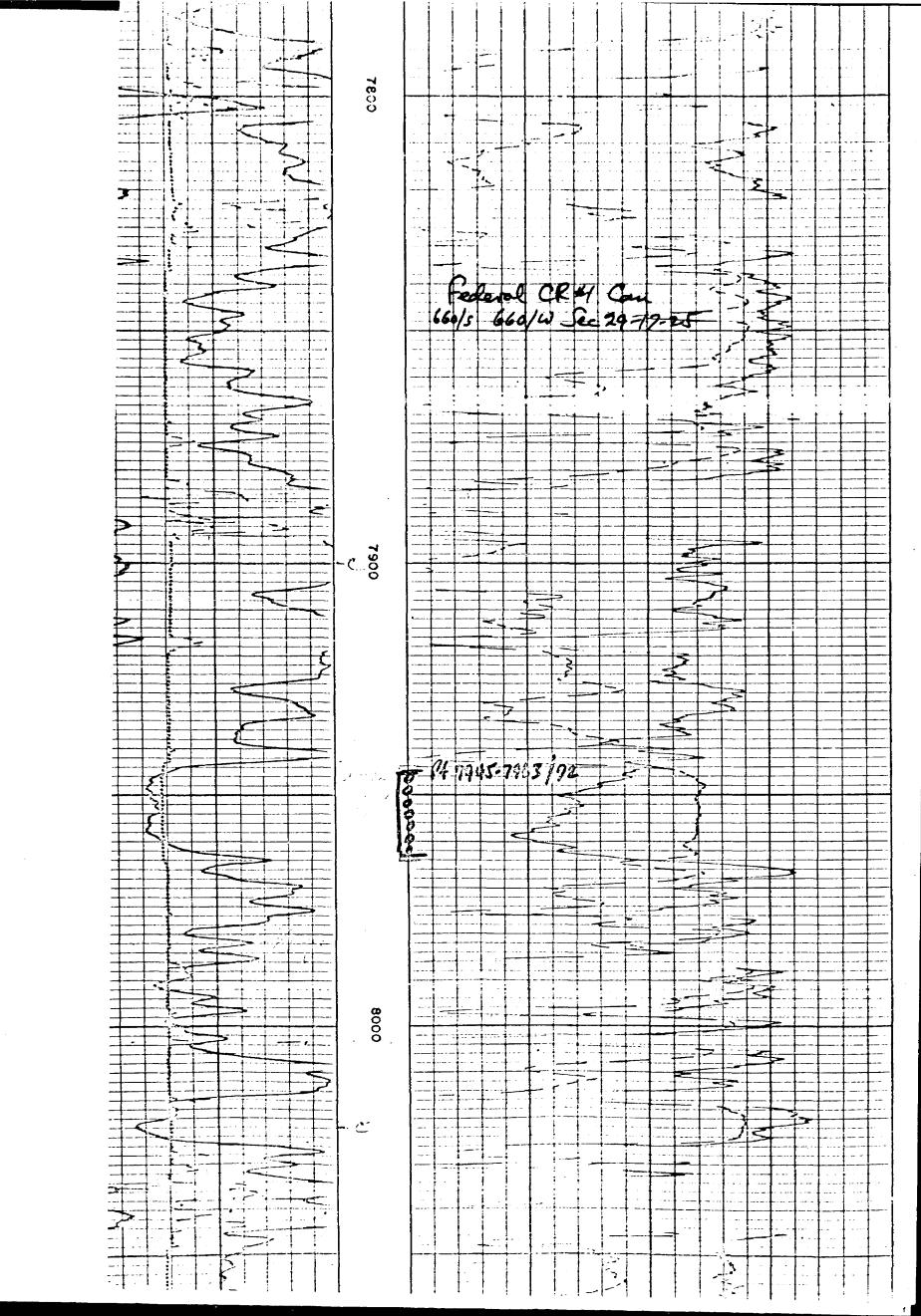
7" 26# Howco DV Tool @ 7276' KB cmt'd w/260 sx Class H cmt w/3/4% CFR-2, 5# salt.

2-3/8" EUE 4.7# Tbg on Baker 7"x2' Lockset Pkr top @ 7870', PSI Actuated Sleeve & perf sub @ 7874-7878'

Per£ 7945-7963' w/72-9.41 jets on Van Tool Tbg-Conveyed Gun Natural Completion

254 jts 7" 23&26# K-55, N-80 csg w/float shoe, 3-stage cmenter Equpt & 10 centralizers, cmt'd w/195 sx Class H cmt w/3/4% CFR-2, 5# salt.

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NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

Cremier Yates Fet: pleum Gerpord	ntion	166	ount y Heldy	Date 11-14-74
Attress 207 So. 4th St., Artes	ia. New Mexico	Le	State "CY"	Well No.
Location Unit Second Well K	itten 32	Towns!	dr 17South	Range 25East
1. Has the New Mexico Oil Conservation zones within one mile of the subject			orized the multiple completion	of a well in these same pools or in the same
2. If answer is yes, identify one such in			The second secon	and Well No.:
3. The following facts are submitted:	Upper Zone		Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Richard Knob-C	isco-C	lanvon	Richard Knob-Strawn-Atoka
b. Top and Bottom of Pay Section (Perforations)	6330-66431			77 32-8070 '
c. Type of production (Oil or Gas)	Gas		The second section of the second section of the second second second section s	Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing			Flowing
izers and/or turboliz diameters and setting b. Plat showing the loc of operators of all lectors have been furni d. Electrical log of the	ets and location there depth, location and the ation of all wells on a sees offsetting applications such multiple composed copies of the application of the application of the sees of the application of t	of, quant type of papelicant ant's least l	ities used and top of cement, ackers and side door chokes, and's lease, all offset wells on sec. om each offset operator, or in .^ with tops and bottoms of proceed time application is filed it states together with their correct mass	
date of such notification 11-1. CERTIFICATE: I, the undersigned,	state that I am the	Chj am author	ief Engineer or rized by said company to make e true, correct and complete to	of the Yates Petroleum Corp. this report; and that this report was prepared to the best of my knowledge.

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed. Eddie M. Mahfood

Signature

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in One or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

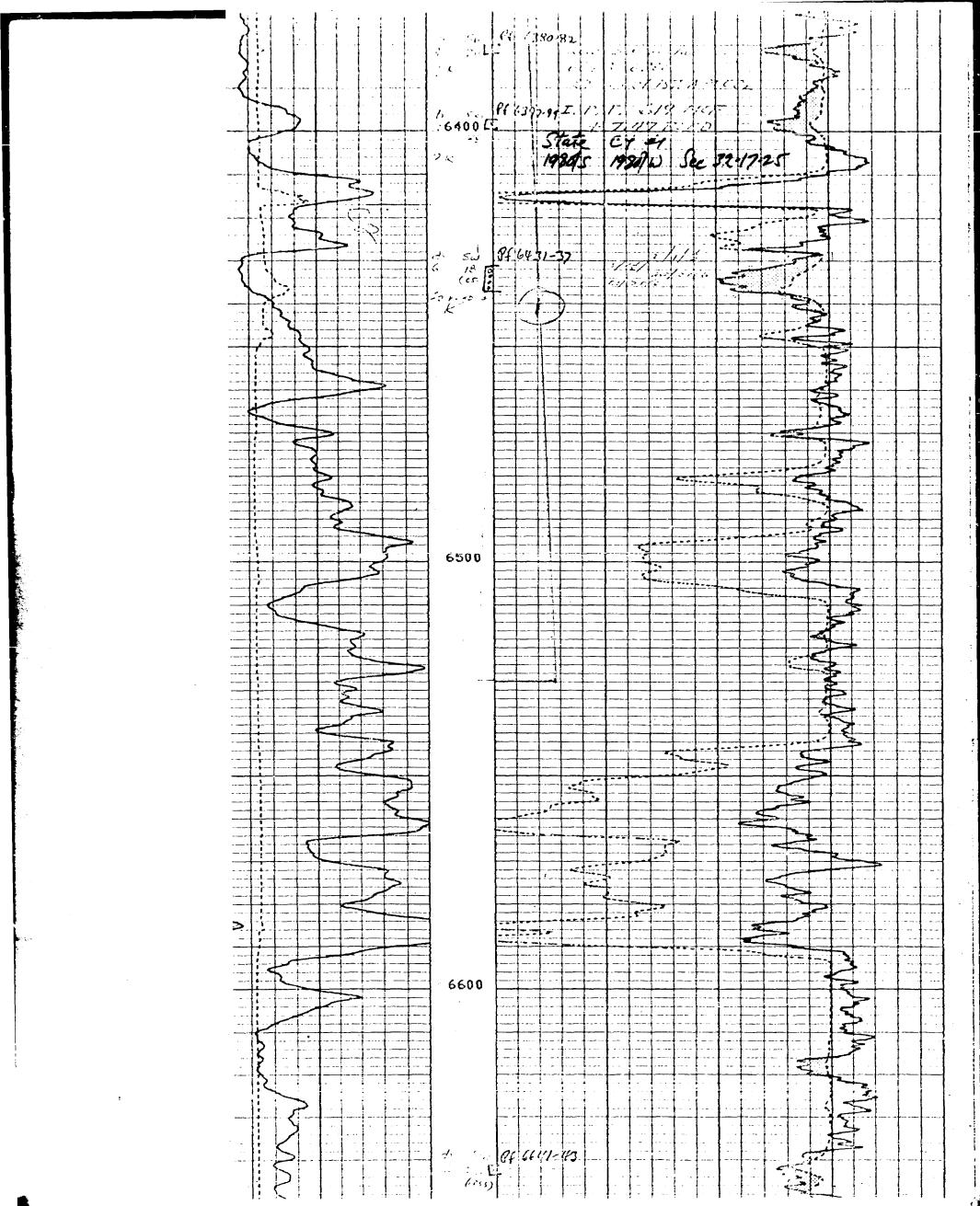
YATES PETROLEUM CORPCRATION Discrementic Sketch of Proposed Bual Completion State "CY" 41, 1930' FSL, 1930' FSL, Section 32-Ti7S-R25E, Eddy Commty, New Mexico

Tubino Completion - Cisco Spudded 11-26-74 Atoka Completion 1-31-74 Casing Completion - Atoka Cisco Completion 2-22-74 Elevation 3603 GR-3620' KB cmt circ où surface & intermediate csos 17g" hole to 206' KB 13 3/3" 43# csc set at 206'. cmtd w/125 sx Top of San Andres at 631' 124" hole to 1066' KB Base of Artesian at 960' 3 5/3" 24# csg set at 1060', cmtd w/675 sx centralizers at 939, 697 and 616, baskets at 657 and 616. Tex Patt Notched Shoe . Top of primary cmt at 6010' KB, mud to surf.

42" Baker Model AR-1 pkr w/cross-over (profile 1.87) at approx 6350 Top of Cisco at 6234' Pf 6390-82' Treated with
Pf 6397-99' 27000 c 15% DS-30
PF 6431-37' & CO2
PF 6641-43' Scattered Cisco pays flowed 619 MCFPD w/7.5 BO on 3/4" choke, 30# TP 2 3/3" EUE 4.7# J-55 tubing (7706') landed in on-off tool Strawn at 7683' Baker Lok-set Pkr at 7723' KB w/Baker "FL" Ch-Off tool at 7719' KB (profile 1.31) Pf 7732-36! Pf 7997-04! Ff 3066-70! Treated w/3000 c 75% MSA & N-2 Top of Atoka at 7960' SF w/13000# 20/40 in 10000 g flowed 2.35 MMCFPD w/6.2 BO-5% MSA & 5000 c CO2 on 3/4" choke, 150# TP ~ Morrow Clastics at 3115' PBTD 3190', top of float collar 250 jts 4½" 10.5#-11.6# K-55 csg set at 3216" KB, cmtd w/525 sx C1 H, 0.75% CFR2, 5% salt. Chester at 3253'

TD 3330'

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NEW MEXICO O.L CONSERVATION COMMISSION SALTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

Cperator		en samuluste – montagen yn 16. 11. 11.11.11.15.4 deur - de de de seu	County		Foto	9
Yates Petroleum Com	oorat	t i on		Eddy	Ì	11-14-74
Adiress			Leose	and the second section of the section of the section of the second section of the secti	Well	I No.
207 So. 4th St., Ar	esia	a. New Mexico		ederal "CZ"		_1
203211011	Sect	tien	Township		Ran	ge
of Well 5		3	<u> </u>	13South		25East
1. Has the New Mexico Oil Conse	rvatio	n Commission heretof	ore authorize	d the multiple completion	n of a we	ll in these same pools or in the same
zones within one mile of the su						
If answer is yes, identify one s	uch in	stance: Order No		; Operator Lease	, and Wel	l No.:
3. The following faces are submitted	ed:	Upper Zone		Intermediate Zone		Lower Zone
a. Name of Pool and Formation		Richard Knob-C	Gison Car			Richard Knob-Morrow
b. Top and Bottom of		1.701.01.3 11.00	71 30 0 Oil .			ATCHART NIOD-SOFFSW
Pay Section		6554-65761				3333-8398"
(Perforations)		000 - 0010				333 3 3333
c. Type of production (Oil or G	as)	Gas				Gas
d. Method of Production					·	945
(Flowing or Artificial Life	.)	Flowing				Flowing
4. The following are attached, (P	ease o			1		1 - 10111 10
b. Plat showing the of operators of the conservation of the conser	ting to furn's of the (If so lease	ation of all wells on a uses offsetting applicate such multiple completed copies of the applicate of the applicate of the application of the application which this well is a lac., Box 1996 any. Bos 1619,	applicant's leant's lease. detion from eplication.* able log with de at the time located toge), Roswel Midland,	case, all offset wells or ach offset operator, or in tops and bottoms of properties application is filed it suffer with their correct management. New Mexico	n offset land the oducing zashall be sailing additional	
6. Were all operators listed in Ite date of such notification	gned,	11-14-74 state that I am the ompany), and that I a	Chief E	ncineer by said company to make, correct and complete	of the <u>Ya</u> e this rep to the be	
				Eddie M. Mahfood	Sign	aufure ature

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

MATES TO TRULEUM CORPORATION Film rannatic Sketch of Proposed Dual Corpletion Enderal "CZ" #1, 660' FNL, 1930' FnL, Section S-T13S-R25E Edun Constant New Mexico

Spunded 12-29-73 Tubino Completion - Cisco Murrow Completion 3-24-74 Casine Completion - Morrow Cisco Completion 5-4-74 Elevation 3595 CR-3612 KB Omt circ on surface & intermediate csg. 176" hole to 257' KB 12 3/4" 30# csg set at 257° KB cmtd w/200 sx Top of San Andres at 636' 12³" hole to 1111' KB Base of Artesian at 1010' 29 jts 8 5/8" 28# J=55 csg set at 1111' KB cmtd w/950 sx, Centrálizers at 990 and 674, Basket at 642' Top of cmt behind $4\frac{1}{2}$ " csg at 5350' $4\frac{1}{2}$ " Baker Model AR-1 Pkr w/corss-over (profile 1.37) at approx 6500' Pf 6554-6576' Cisco at 6437' Treated w/11000 c 15% DS-30 and CO2 flowed 1.15 MMCFPD on 3/4" choke at 70 psi $4\frac{1}{2}$ " DV tool at 6704' KB, cmtd w/ 250 sx Canyon at 7327' CLh, 3/4% CFR2, 5% salt 2 3/8" EUE 4.7# J-55 Tubinc (3223') landed in Cn-Off tool Strawn at 7333' 42" Baker Lok-set Pkr at 3245' KB w/Baker Model FL on-Off tool at 3241' KB (profile 1.31 Pf 3333-591 Treated w/3000 a 72% MSA & CO2 Morrow Clastics at 3328' Pf 8368-76* SF w/37000# 20/40 in 20000 g flowed 6.51 MMCFPD w/33.4 BC on 3/4" ck at 450# TP Pf 3331-88* 5% MSA and CO2

Chester at 3513'

Miss Ls at 36391

PBTD 3503' (Top of float collar)
268 its 4½" 10.5-11.6# K-55 csg set at 8535' cmtd/w/200 sx CL h 3/4% GFR2, 5% salt

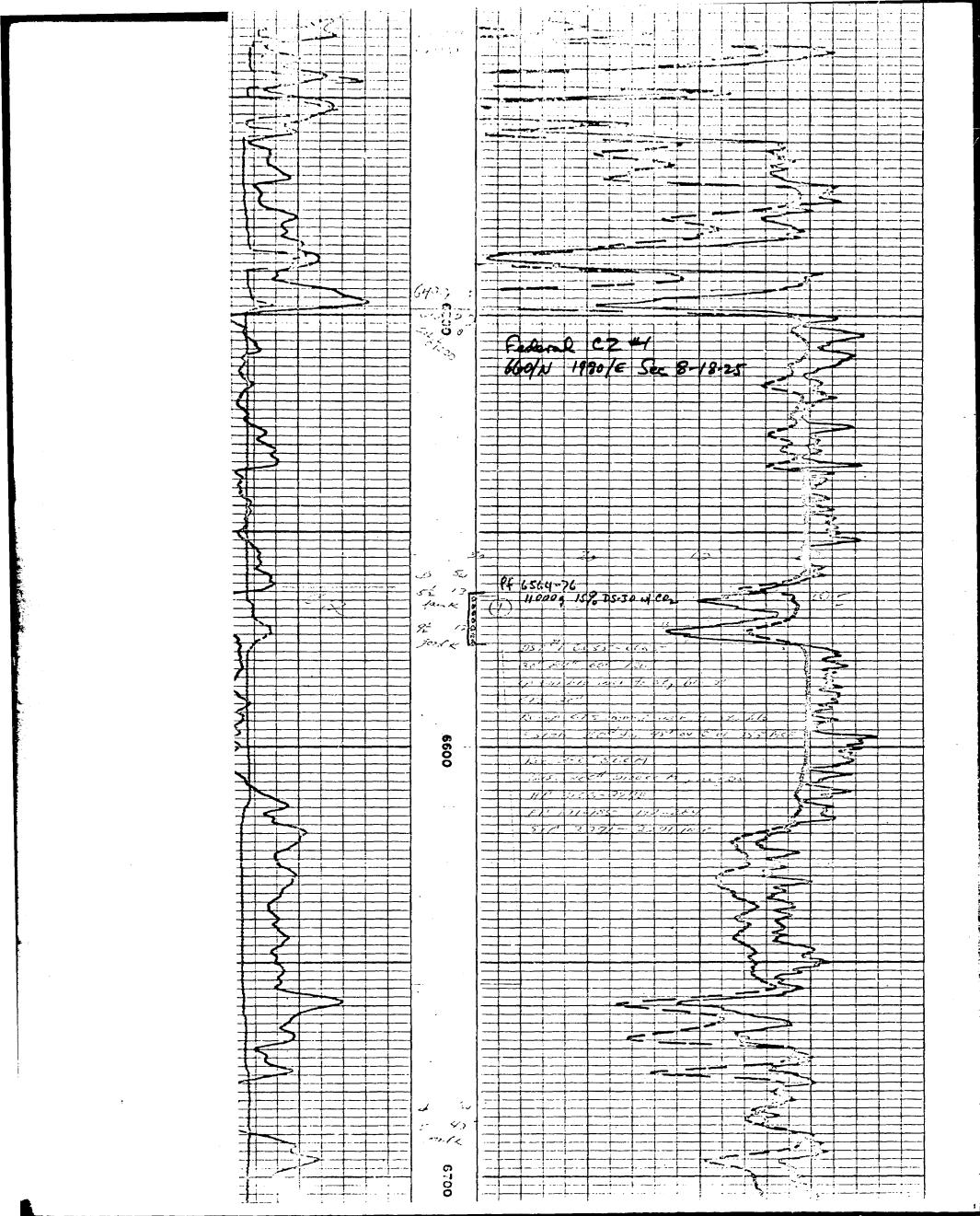
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NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO APPLICATION FOR MULTIPLE COMPLETION

Sperator	County		Date		
Yates Petroleum Corpora		Eddy	11-14-74		
othess 207 So. 4th St., Artesi	a. New Mexico	Lease Pa	owell "DG"	Well No. 1 = Com	
11:-11	etlen	Township		Range	
of Well C	35		17South	25East	
Han the Name Maries Oil Conseque			d she mulainte acontestan		
				of a well in these same pools or in the same	
zones within one mile of the subject	well? YES	NO_X_			
. If answer is yes, identify one such i	nstance: Order No		; Operator Lease,	and Well No.:	
The following facts are submitted:	Upper Zone		Intermediate Zone	Lower Zone	
a. Name of Pool and Formation	Richard Knob-C	isco		W. Atoka Morrow	
b. Top and Bettom of					
Pay Section	6539-6633			3339-8388*	
(Perforations)					
c. Type of production (Oil or Gas)	Gas			Gas	
d. Method of Production					
(Flowing or Artificial Lift)	Flowing			Flowing	
. The following are attached. (Please					
izers and/or turboliz diameters and setting. X	ters and location thereog depth, location and to eation of all wells on a asses offsetting applicate to such multiple complished copies of the applicate well or other acceptasuch log is not available on which this well is ox 1900, Midlandary, Box 1610, 1	of, quantities ype of packet upplicant's lease. Letion from eadication. The least the time located toge d, Texas lidland,	s used and top of cement, is and side door chokes, and ease, all offset wells on ach offset operator, or in tops and bottoms of prodes application is filed it should be seen as a second secon	luding diameters and setting depths, central- perforated intervals, tubing strings, including d such other information as may be pertinent. offset leases, and the names and addresses lieu thereof, evidence that said offset opera- lucing zones and intervals of perforation in- hall be submitted as provided by Rule 112-A. iling address.	
Yates Petroleum Corpora 6. Were all operators listed in Item 5:	above notified and fwn			Mexico 39210 S_X_NO If answer is yes, give	
date of such notification	11-14-74	·			
CERTIFICATE: I, the undersigned	, state that I am the	m authorized	by said company to make	f the Yates Petroleum Corp. this report; and that this report was prepared	
under my supervision and direction and	that the tacts stated th	nerein are tru	Eddie M. Mahfond	Signature Knowledge.	

"Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

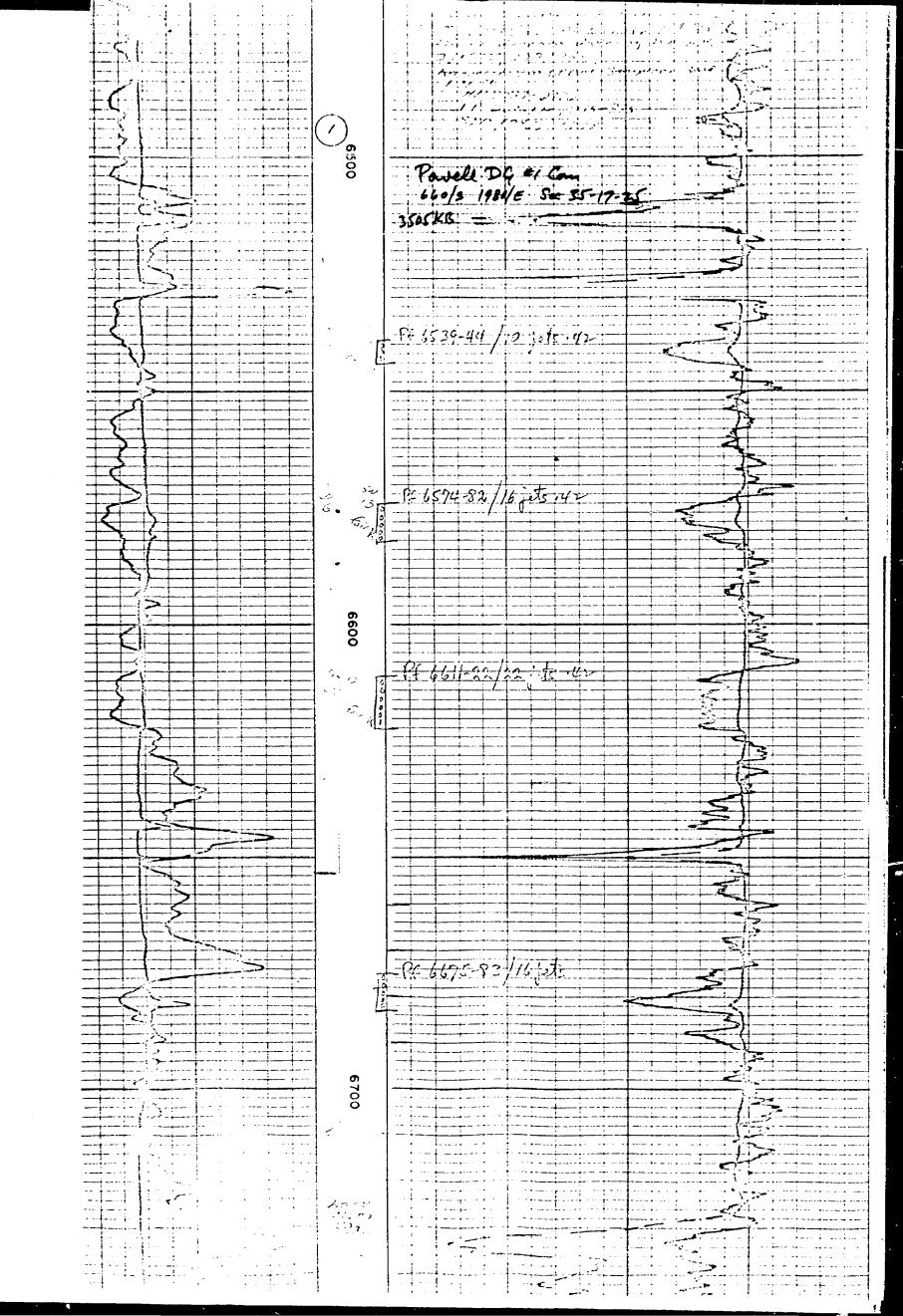
NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

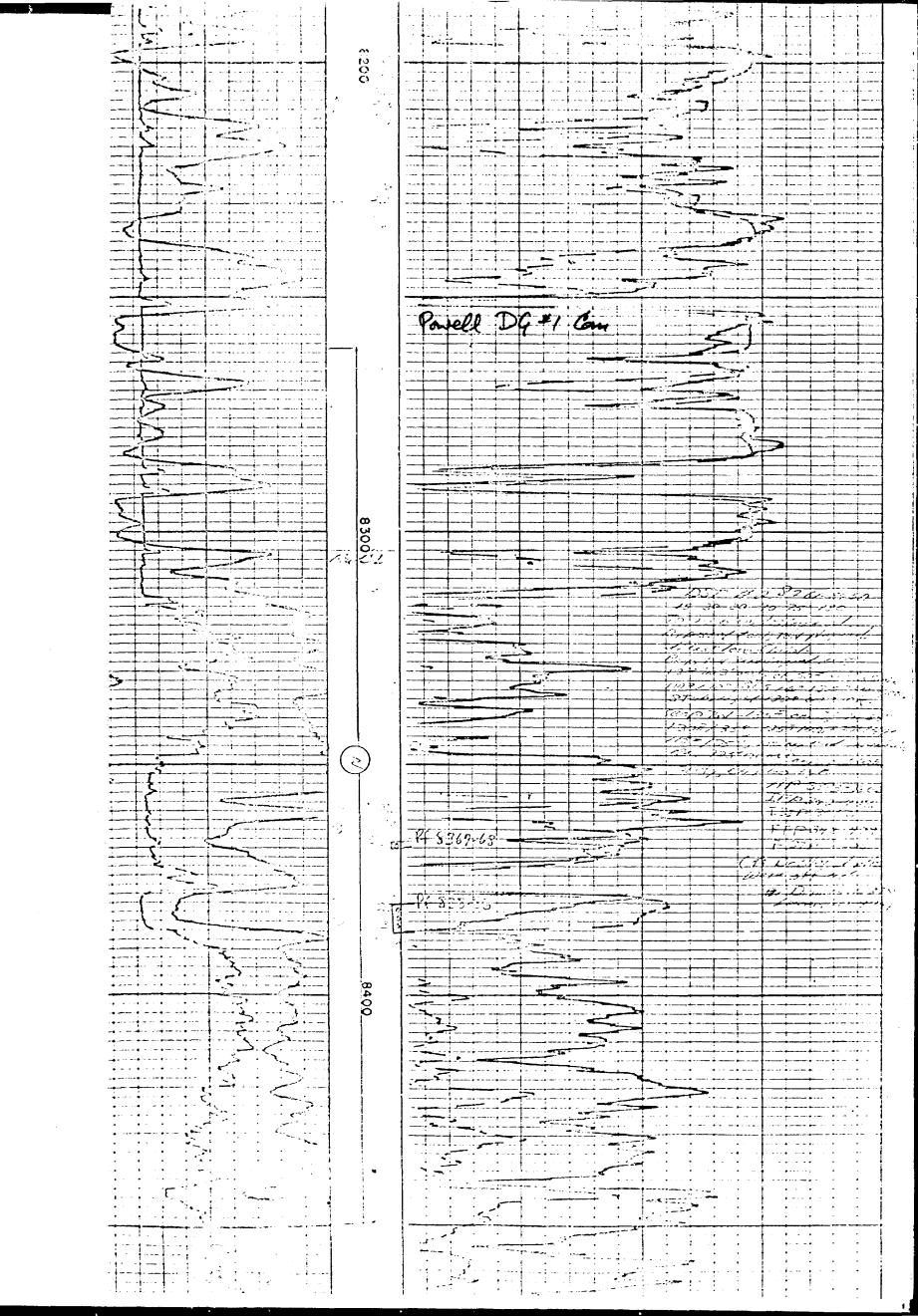
Spudded 6-14-74 Tubina Completion = Cisco Morrow Completion 3-22-74 Casine Completion - Morrow Cisco Completion Elevation 3490' GR-3505 KB omt circ, on surface & intermediate cso 17% hole to 13 3/3" 43# J-55 cso (336') set at 391' KB cmtd w/250 sx and 4 yards ready mix 12^{km} hole to 1233' KB Top San Andres - 778 Base of Artesian - 1138 |34 | its | 3 |5/3" | 24# | J=55 | csg | (1223°) | set | at | 1238' KB. cmtd w/1100 sx. centralizers at 1113 and 700', Baskets at 741 and 667', Guide shoe. Top of cmt/behind 4 है" csg at 6050' 4 है" Baker Model AR-1 Pkr w/cross-over (profile 1.87) at approx Pf 6539-44' Cisco at 6435' Pf 6574-32! Pf 6611-221 Pf 6675-331 $4\frac{1}{2}$ " DV tool at 6322' KB, Canyon at 7341' cmtd w/200 sx Cl C; ½% CFR2, 5% salt Strawn at 7731' Atoka at 3115' Treated w/1900 g $7\frac{1}{2}\%$ MSA & N2 Pf 3367-63' Morrow Clastics at 3304' SF w/17000# 20/40 sd in Pf 3330-36" flowed 1.01 MMCFPD w/7 BC on ' 15000 c KC1 wtr and C02 3/4" choke at 55 psi TP Chester at 8475 265 its 45" 10.5-11.6# K-55 csc set at 3561' KE cmtd w/250 sx C1 H 3/4% CFR2, 5% salt

TD 3740'

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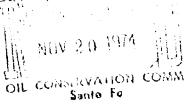






ARTESIA, NEW MEXICO - 88210

November 14, 1974



Mr. A.L. Porter, Jr. Secretary-Director

RE: Non-Standard Gas Well Spacing >

Unit M Section 29-175-25E Eddy County, New Mexico

Case 5386

S. P. YATES PRESIDENT MARTIN YATES. III VICE PRESIDENT JOHN A. YATES VICE PRESIDENT B. W. HARPER SEC. TREAS.

Dear Sir:

Yates Petroleum Corporation seeks Administrative Approval of a non-standard cas well spacing unit for the Federal "CR" #1 Com. located 660' from South and West lines of Section 29-T17S-R25E, Eddy County. New Mexico. The well is a dual gas well completion in Upper and Lower Penn formations, Wildcat discoveries, with suggested New Pool designations as Richard Knob Cisco-Canyon and Richard Knob Atoka, respectively. A West-half section dedication is proposed.

The Federal "CR" #1 Com was originally proposed as a Devonian Test. After penetrating the Atoka pay, the drilling mud became increasingly cas cut and it was considered expedient to case the well and abandon drilling to the Devonian.

Yates Petroleum is the sole Operator offsetting this unit and waive objection to the unorthodox location. An Ownership Plat and Dedication Plat is attached hereto.

Yours very truly,

YATES PETROLEUM CORPORATION

Eddie M. Mahfood

Engineer

EM/pt Enclosures

cc: occ, Arteria

DOCKET MAILED

Date-

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Sec Cherator Lease CONSERVATION COMMET $^{\prime\prime}\mathrm{CR}^{\prime}\mathcal{OIL}$ Yates Petroleum Corporation Federal. Township 17 South Unit Letter Range Eddy 29 25 East М Actual Footage Location of Well: 660 6601 South West feet from the line Ground Level Elev. Dedicated Acreage: Atoka Richard Knob 3612' 320 Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below, 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Communitization If answer is "yes," type of consolidation Yes No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of No allowable will be assigned to the 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 Commission. CERTIFICATION Yates Petroleum Corp. I hereby certify that the information contained herein is true and complete to the Eddie M. Mahfood Position Engineer W. D. Flynn et al Yates Pet. Corporation 11-18-74 YPC YPC I hereby certify that the well location shown on this plat was plotted from field 0439900 12832 notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Refer to Original Plat Surveyed 6-8-1973 Date Surveyed ŬS US Registered Professional Engineer and/or Land Surveyor Certificate No.

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NEW MEXICO OIL CONSTRVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Poim C+102 Superveder C+128 Effective 1-1-65

Operator Well No. Federal CERONSERVATION Yates Petroleum Corporation 29119 Unit Letter Section County 17 South 25 East Eddy 29 М Actual Footage Location of Well: 6601 South 660 West first from the line and feet from the line Ground Level Elev. Producing Formation Dedicated Acres je: Canyon 3612' Richard Knob 320 Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below, 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Communitization Yes No If answer is "yes," type of consolidation. If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the 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 Commis-CERTIFICATION Yates Petroleum Corp. I hereby certify that the information contained herein is true and complete to the best of my kpawledge and belief. Eddie M. Mahfood Position Engineer W. D. Flynn et al Yates Pet. Corporation 11-18-74 YPC YPC I hereby certify that the weil location shown on this plat was plotted from field 0439900 12832 notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Refer to Original Plat Surveyed 6-8-1973 Date Surveyed US US Registered Professional Engineer und/or Land Surveyor Certificate No.

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Carl-Dan?

We received form C-123 along with Copye of C-107 application for DC- for all welle listed on the attacked letter.

Their begased Richard Rost monon. + Richard knot Strown- atoka or James Comm don't lask too hell but the Pichard Knot Cicio-Canyon or upper form laske fully will. see attacked Plat.

Bill.

Can 5386

S. P. YATES

PRESIDENT

MARTIN YATES, ILL

VICE PRESIDENT

JOHN A. YATES

VICE PRESIDENT

D. W. HARPER

SEC. TREAS.

Bill Gregory



YATES BUILDING - 207 SOUTH 4TH ST. ARTESIA, NEW MEXICO - 88210

November 14, 1974

RECEIVED

NOV 1 9 1974

Mr. A.L. Porter, Jr. Secretary-Director New Mexico Cil Conservation Commission P.O. Box 2083 Santa Fe, New Mexico 87501

D. C. C.

RE: Dual Completion, Richard Knob Cisco-Canyon, Richard Knob Atoka, Richard Knob Morrow, Eddy County, New Mexico

Dear Sir:

Yates Petroleum Corporation seeks permission to dually complete and produce four wells in a New Pool area to be hereafter designated as Richard Knob, and a procedure whereby additional wells drilled within this area maybe dually completed without Notice and Hearing.

The Federal "CR" #1 Com, located 660' FSL and 660' FWL of Section 29-T17S-R25E, is completed with Canyon Perforations (6999-7006'; and 7164-7175') in casing annulus with Blast Joints on tubing string opposite Canyon Perforations and a Sliding Sleeve above packer and blank-off nipple, and with Atoka Perforations (7944-7964') open to the tubing under packer. Neither the Canyon nor Atoka produces much fluid. Should the Canyon accumulate fluid after prolonged flow, however, this fluid may be blown down thru the tubing by setting with wireline a Blanking Plug in blank-off nipple located on top of the packer thereby shutting in the Atoka completion, and opening a Sliding Sleeve located above the Blanking Plug. After unloading the Canyon, the Sliding Sleeve will be closed and Blanking Plug pulled returning well to dual status.

The State "CY" #1. located 1980' FSL and 1980' FWL of Section 32-T17S-R25E, is to be completed with Cisco Perforations (6380-82'; 6397-99'; 6431-37'; and 6641-43') in tubing and Strawn-Atoka Perforations (7732-86'; 7997-99'; 8002-04'; and 3056-70') in casing annulus using two packers and a cross-over assembly. Blast joints will be installed opposite Cisco Perforations, packer with on-off tool below the Cisco Perforations, and packer with cross-over tools above the Cisco Perforations. By pulling the cross-over tool and replacing with a straight-thru tool, the Cisco may be shut in between the two packers and the Atoka will then be open in the tubing for unloading or remedial work as may be needed.

the and

the same and soon over tip with crops be the way.

should be 35-17-25 Page 2: November 14, 1974 B The Federal "CZ" #1, located 660' FNL and 1930' FEL of Section 8-7135-R25E, is to be completed with Cisco Perforation (6554-76') in tubing and Morrow Perforations (8333-83') in casing annulus using two packers and a cross-over assembly, as above The Powell "DS" #1 Com. located 660' FSL and 1930' FEL of Section 35-T135-R25E, is to be completed with Cisco Perforations (6539-44'; 6574-62'; 6611-22'; and 6675-63') in tubing and Morrow Perforations (9367-63' and 6390-86') in casing annulus using two packers and a cross-over assembly, as above. Please schedule this hearing on the same docket as Continued Case 5367. Thank you. Yours very truly, YATES PETROLEUM CORPORATION EM/pt

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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. 5386

Order No. R- 47

APPLICATION OF YATES PETROLEUM CORPORATION FOR FOUR DUAL COMPLETIONS AND UNORTHODOX LOCATION, EDDY COUNTY, NEW MEXICO.

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ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 8, , 197 at Santa Fe, New Mexico, before Examiner Richard L. Stamets

NOW, on this day of January , 1975, 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 seeks approval for four conventional dual completions in Eddy County, New Mexico, as follows:

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The Federal "CR" Well No. 1 in Unit M of Section 29, Township 17 South, Range 25 East, NMPM, with gas production from the Upper Pennsylvanian formation through the casing-tubing annulus and gas production from the Atoka formation through 2 3/8-inch tubing with a packer set at approximately 7870 feet;

the State "CY" Well No. 1 in Unit K of Section 32,

Township 17 South, Range 25 East, NMPM, with gas

production from the Upper Pennsylvanian formation

through 2 3/8-inch tubing and gas production from

commingled

the Strawn and Atoka formations through 2 3/8-inch

tubing, a crossover assembly, and the casing
tubing annulus with packers set at approximately

6350 feet and 7723 feet;

the Powell "DG" Well No. 1 in Unit O of Section 35,
Township 17 South, Range 25 East, NMPM, with
gas production from the Upper Pennsylvanian
formation through 2 3/8-inch tubing and gas production from the Morrow formation through 2 3/8-inch
tubing, a crossover assembly, and the casingtubing annulus with packers set at approximately
6500
6050 feet and 8324 feet; and

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the Federal "CZ" Well No. 1 in Unit B of Section 8, Township 18 South, Range 25 East, NMPM, with gas production from the Upper Pennsylvanian formation through 2 3/8-inch tubing and gas production from the Morrow formation through 2 3/8-inch tubing, a crossover assembly, and through the set casing-tubing annulus with packers at approximately 6500 feet and 8245 feet.

- (3) That the mechanics of the proposed dual completions appear to be feasible and in accord with good conservation practices.
- (4) That additional production information should be obtained on each of said four dual completions to determine that efficient flow is taking place from all zones in said wells.
- (5) That if such production information shows inefficient flow from any of the zones, the Secretary-Director of the Commission should rescind the authority for the dual completion of the well.
- (6) That the subject application for four dual completions should be approved.
- (7) That the applicant further seeks an unorthodox gas well location for its State "CR" Well No. 1 at a point 660 feet from the South line and 660 feet from the West line of Section 29, Township 17 South, Range 25 East, NMPM, Eddy County, New Mexico.
- (8) That no offset operator objected to the unorthodox location.
- (9) That the application for unorthodox locations should be approved.

IT IS THEREFORE ORD AND:

(1) That the applicant, Yates Petroleum Corporation, is hereby authorized four conventional dual completions, Eddy County, New Mexico, as follows:

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The Federal "CR" Well No. 1 in Unit M of Section 29,
Township 17 South, Range 25 East, NMPM, to produce
gas from the Upper Pennsylvanian formation through the
casing-tubing annulus and gas from the Atoka
formation through 2 3/8-inch tubing with separation
of the zones by a packer set at approximately 7870
feet;

the State "CY" Well No. 1 in Unit K of Section 32, Township 17 South, Range 25 East, NMPM, to produce gas from the Upper Pennsylvanian formation through 2 3/8-inch tubing and gas from the Strawn and Atoka formations through 2 3/8-inch tubing and the casing-tubing annulus by means of a crossover assembly at approximately 6350 feet with separation of the zones by means of packers set at approximately 6350 feet and 7723 feet;

the Powell "DG" Well No. 1 in Unit O of Section 35,
Township 17 South, Range 25 East, NMPM, to produce
gas from the Upper Pennsylvanian formation through
2 3/8-inch tubing and gas from the Morrow formation
through 2 3/8-inch tubing and the casing-tubing
annulus by means of a crossover assembly at
approximately 6050 feet with separation of the
zones by means of packers set at approximately
6500
6050 feet and 8324 feet; and

the Federal "CZ" Well No. 1 in Unit B of Section 8, Township 18 South, Range 25 East, NMPM, to produce gas from the Upper Pennsylvanian formation through 2 3/8-inch tubing and gas from the Morrow formation through 2 3/8-inch tubing, and through the casingtubing annulus by means of a crossover assembly at approximately 6500 feet with separation of the zones by means of packers set at approximately

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6500 feet and 8245 feet.

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

PROVIDED FURTHER, that the applicant shall take packer-leakage on each well tests/upon completion and annually thereafter during the Shut-In Pressure Test Period for Southeast New Mexico.

- (2) That the applicant shall take and file test data including, at least, monthly rates of production of gas and liquids, Periodic flowing wellhead pressures, and shut-in pressures for the first 3 months of production after the date of this order, from any zone of a dual completion herein approved.
 - The applicant shall file such test data with both the Artesia district and Santa Fe offices of the Commission.
 - The Secretary-Director of the Commission may rescind the authority for the dual completion of any well herein approved if a review of the test data required by Order (2) above demonstrates inefficient flow from either or both zones from any of said wells.

IT IS FURTHER ORDERED:

- (1) That the unorthodox gas well location of applicant's Fidem / Gm State "CR" Well No. 1 located 660 feet from the South line and 660 feet from the West line of Section 29, Township 17 South, Range 25 East, NMPM, is hereby approved.
- 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.