

## 1 NEW MEXICO OIL CONSERVATION DIVISION

2 STATE LAND OFFICE BUILDING

3 STATE OF NEW MEXICO

4 CASE NO. 10419

5  
6 IN THE MATTER OF:7  
8 The Application of BTA Oil  
9 Producers for an unorthodox  
10 gas well location and a  
11 non-standard gas proration  
12 unit, Eddy County, New Mexico.13  
14 BEFORE:15  
16 DAVID R. CATANACH

17 Hearing Examiner

18 State Land Office Building

19 December 5, 1991

20  
21  
22 REPORTED BY:23 DEBBIE VESTAL  
24 Certified Shorthand Reporter  
25 for the State of New Mexico**ORIGINAL**

## A P P E A R A N C E S

FOR THE NEW MEXICO OIL CONSERVATION DIVISION:

ROBERT G. STOVALL, ESQ.  
General Counsel  
State Land Office Building  
Santa Fe, New Mexico 87504

FOR THE APPLICANT:

CAMPBELL, CARR, BERGE & SHERIDAN, P.A.  
Post Office Box 2208  
Santa Fe, New Mexico 87504-2208  
BY: WILLIAM F. CARR, ESQ.

## I N D E X

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1 EXAMINER CATANACH: At this time we'll  
2 call Case 10419.

3 MR. STOVALL: Application of BTA Oil  
4 Producers for an unorthodox gas well location in  
5 a nonstandard gas proration unit, Eddy County,  
6 New Mexico.

7 EXAMINER CATANACH: Appearances in the  
8 case.

9 MR. CARR: May it please the Examiner,  
10 my name is William F. Carr with the law firm of  
11 Campbell, Carr, Berge & Sheridan of Santa Fe. We  
12 represent BTA Oil Producers, and I have one  
13 witness.

14 EXAMINER CATANACH: Any other  
15 appearances in this case?

16 RICKY COX

17 Having been duly sworn upon his oath, was  
18 examined and testified as follows:

19 EXAMINATION

20 BY MR. CARR:

21 Q. Would you state your full name for the  
22 record, please.

23 A. Ricky Cox.

24 Q. Where do you reside?

25 A. I live in Midland, Texas.

1 Q. By whom are you employed and in what  
2 capacity?

3 A. I'm a geologist for BTA Oil Producers.

4 Q. Have you previously testified before  
5 for the New Mexico Oil Conservation Division?

6 A. No, I haven't.

7 Q. Would you briefly review for Mr.  
8 Catanach your educational background and then  
9 summarize your work experience.

10 A. I graduated from Texas Tech in 1982  
11 with a master's in geology. I went to work for  
12 Marathon Oil, and I stayed there until May of  
13 1990, about seven-and-a-half years. I went to  
14 BTA, and I've been there about a  
15 year-and-a-half.

16 Q. Does your geographic area of  
17 responsibility with BTA include the portion of  
18 southeastern New Mexico which is involved in this  
19 case?

20 A. Yes, it does.

21 Q. Are you familiar with the application  
22 filed on behalf of BTA in this case?

23 A. Yes, I am.

24 Q. Have you prepared a geological study of  
25 the area?

1           A.       Yes.

2                   MR. CARR:  At this time we tender Mr.  
3 Cox as an expert witness in petroleum geology.

4                   EXAMINER CATANACH:  He is so qualified.

5           Q.       What does BTA seek with this  
6 application?

7           A.       We seek to drill our 9105 JV-P Crystal  
8 No. 1 as the Morrow test in the White City Penn  
9 field as an unorthodox location.

10          Q.       What is the proposed location for that  
11 well?

12          A.       Eleven hundred and fifty feet from the  
13 south line, 1650 from the east line of Section 4,  
14 Township 24 South, Range 26 East, Eddy County,  
15 New Mexico.

16          Q.       What are the field rules for the White  
17 City Penn field?

18          A.       The White City Penn field rules  
19 stipulate that 640-acre spacing units, no more  
20 than two producible wells on any one unit at a  
21 time, and each well is to be located no nearer  
22 than 1650 from the boundary of the unit.

23          Q.       Now, what acreage are you proposing to  
24 dedicate to this well?

25          A.       The south half of Section 4.

1 Q. All of Section 4?

2 A. Yes.

3 Q. And why are you seeking an unorthodox  
4 nonstandard proration unit?

5 A. We were unable to get a standard  
6 proration unit because of BLM stipulations. And  
7 we also seek to enhance our geologic position.

8 Q. And the nonstandard proration unit is a  
9 result of a survey violation?

10 A. Yes, it is.

11 Q. Or survey error?

12 MR. STOVALL: Mr. Carr, maybe we better  
13 back up and know which one you're -- he answered  
14 the location question.

15 MR. CARR: He did answer the location  
16 question. What we're seeking is an unorthodox  
17 well location. There's a survey variation. The  
18 Section 4 contains 637 acres, and consequently  
19 when it was docketed, we had to also seek  
20 approval of a nonstandard proration unit.

21 That's the only reason for it, and  
22 there's no technical case or no presentation on  
23 that. It's just the acreage that is the federal.

24 MR. STOVALL: You're not going to call  
25 the original surveyor?

1           MR. CARR: We didn't intend to do that  
2 unless you wanted.

3           Q.       (BY MR. CARR) Now, Mr. Cox, when we  
4 were talking about seeking a nonstandard  
5 location, could you perhaps refer to what has  
6 been marked as BTA Exhibit No. 1. And by  
7 referring to that, review for Mr. Catanach the  
8 history of the well and why you are proposing it  
9 at the current location.

10          A.       The original location was standard at  
11 1650 from the south and the east. When a survey  
12 was made for the well, it occurred in a  
13 topographic low. The BLM would not allow us to  
14 drill there because of drainage concerns.

15                 They proposed that we move to 1350 from  
16 the south, 1650 from the east -- the BLM  
17 proposed. And then BTA moved us an additional  
18 200 feet south for geologic reasons.

19          Q.       Let's go to what has been marked for  
20 identification as BTA Exhibit No. 2, and I'd ask  
21 you to identify that and then review that for the  
22 Examiner.

23          A.       Exhibit No. 2 is a production map of  
24 the area in question. You'll see in the bottom  
25 left corner well symbols for all the wells on the



1 map. It's a 1-to-2,000 scale map. It shows  
2 Township 24 South, Range 26 East. Section 4 is  
3 the section in question.

4 The BTA location is shown as a red  
5 circle there. The green wells, wells colored  
6 green, are wells that are assigned to the  
7 Carlsbad south field. And the wells colored  
8 orange are the wells assigned to the White City  
9 Penn field.

10 Q. When the application was originally  
11 filed, you had identified the well as being in  
12 the south Carlsbad field; is that correct?

13 A. Yes.

14 Q. And Mr. Stogner advised you that in his  
15 opinion it was in fact in the White City Penn?

16 A. Yes.

17 Q. And suggested at that time that this  
18 case come on for hearing?

19 A. That's correct.

20 Q. Is there anything else you'd like to  
21 testify to from Exhibit No. 2?

22 A. I would draw to your attention to the  
23 data beneath each well are labeled A, B, D, and  
24 E. That information is the total depth,  
25 completion date, cumulative gas from the Morrow,

1 and the daily production as of September of 91.

2 You'll notice from that the best wells  
3 are in the White City Penn field. That's all I  
4 want to show from this map.

5 Q. All right. Let's move to BTA Exhibit  
6 No. 3. Would you identify that for Mr. Catanach  
7 and then review it, please.

8 A. Exhibit 3 is a structure map on the  
9 marker in the Morrow clastic's interval. I'll  
10 identify that marker in the subsequent exhibit.

11 Again, the well symbols in the lower  
12 left-hand corner of the title block are  
13 consistent with all the maps. They're all the  
14 same. It's, again, a 1-to-2,000 scale map of  
15 Township 24, Range 26.

16 Our Section 4, BTA's lease, you again  
17 see our location is the red circle. You'll also  
18 see on this map three cross-sections indicated,  
19 highlighted red lines. They're letter  
20 identifications aside those lines.

21 The wells that are on that  
22 cross-section are circled in red. If they don't  
23 lie directly on the section, they have a dashed  
24 line projecting them into the cross-section.

25 Q. Basically what does this show you about

1 the structure in the Morrow in this particular  
2 area?

3 A. This area of the Morrow produces  
4 primarily on a structural nose, that being the  
5 White City Penn field in the southern half of the  
6 map. The northern, northeastern corner of the  
7 map is the Carlsbad south field. It's producing  
8 primarily from stratigraphic troughs with a small  
9 structural overprint.

10 The White City Penn field has been  
11 documented in the literature as having a very  
12 strong structural overprint. And what that tells  
13 you is that you need to be as structurally high  
14 as possible with good sands to make an economic  
15 well.

16 BTA's location in the south portion of  
17 Section 4 is spotted on your map at our requested  
18 location of 1150 from the south line and 1650  
19 from the south line. A 1650 from the south line  
20 would put the proposed location approximately on  
21 the contour line. It would be that much  
22 difference. It would give us that lower of a  
23 structural position.

24 Q. So here the reason for this location is  
25 to move the well up onto the structural nose?

1           A.       That's correct. You'll also notice, if  
2 you refer back to the production map as well, the  
3 best wells on the map in general occur as the  
4 highest structural wells also.

5           Q.       Are you ready to go to your  
6 cross-sections?

7           A.       Yes.

8           Q.       Let's move to Exhibit No. 4 and the A-A  
9 prime cross-section. Here, again, I'd like you  
10 to just identify this and review it for Mr.  
11 Catanach well by well.

12          A.       All right. This exhibit is our  
13 structural cross-section, A-to-A prime. It's a  
14 south-to-north cross-section from left to right,  
15 south to north. It has a datum of minus 8,000  
16 feet. That's consistent with all three  
17 cross-sections you'll see. They're all three  
18 structurally at the same elevation.

19                 It has a vertical scale of  
20 two-and-a-half inches per hundred feet,  
21 horizontal scale of one inch to five hundred  
22 feet.

23                 The first well on the cross-section is  
24 the highest structural well shown. It's the  
25 Ultramar No. 1, Pennzoil 9 Federal. Important

1     thing to note on this well is the perforated  
2     intervals.

3             This well is producing out of a clastic  
4     zone in what I've informally called Zone C and D  
5     and a small perforation as far as Zone F, the  
6     very bottom of the well. The perforations are  
7     marked in the depth track of the log in red.

8             The second well in the cross-section is  
9     the Ultramar No. 2, Penzoil 9 Federal. It's a  
10    slightly lower well, you can see on the  
11    cross-section. It has a gross production, a  
12    gross perforated interval in the same zones, C  
13    and D, and just a very small portion of Zone E.  
14    Zone F was not perforated in this well, probably  
15    because it's too thin to produce.

16            If you continue on the cross-section to  
17    the north, you see BTA's proposed location is  
18    projected into the cross-section. We are  
19    approximately 150 feet down-dip from these first  
20    two wells in the cross-section.

21            Likewise, we're also approximately 90  
22    feet up-dip from the last well on the  
23    cross-section, which is the C & K No. 2, Allied  
24    Chemical well.

25            Q.     Have you been able to pick a gas-water

1 contact in this portion of the field?

2 A. No, we haven't.

3 Q. Can you go now to your cross-section  
4 B-B prime and review that.

5 A. I would like to just review the  
6 perforations in this last well first.

7 Q. Okay.

8 A. C & K attempted to perforate and  
9 produce -- the lowest stand is Zone D in their  
10 well, and it's tested water. And that perforated  
11 interval is Zone D. And then moved up the well  
12 and end up producing the well out of Zone C,  
13 structurally higher.

14 That's all I have on this exhibit.

15 Q. All right. Let's move now to Exhibit  
16 5, which is the B-B prime cross-section.

17 A. Okay. Again, it's a structural  
18 cross-section. Same datum, minus 8,000 feet.  
19 The scales are both the same as the first  
20 cross-section.

21 Actually, the first two wells on this  
22 cross-section on the left are the same as the  
23 first two wells on the preceding exhibit  
24 cross-section, A-to-A prime.

25 The last well in this cross-section,

1 extreme right well, is the C & K No. 1, Allied  
2 Chemical Federal well. It is in Section 4, the  
3 same section that BTA seeks to drill in. They're  
4 in the northwest corner of that section; whereas,  
5 we propose the southeast corner location.

6 The sands that have been correlated  
7 within these zones changed somewhat in character  
8 between the first two wells in this section and  
9 the last. For instance, Zone C that you see in  
10 the first two wells as one thick sand now becomes  
11 four thinner sands.

12 It was tested in this well wet. Rate  
13 of gas, too small to measure and recoveries of  
14 water. So this well is also too low to be  
15 productive. It was in fact recompleted as a  
16 Delaware test, around 1650 feet.

17 Q. Okay.

18 A. That's all I have.

19 Q. Let's move now to Exhibit No. 6, your  
20 cross-section, C-C prime.

21 A. The last cross-section, C-to-C prime,  
22 is an east-west cross-section; whereas, the first  
23 two were south-to-north roughly. Its purpose is  
24 primarily to pick up two additional wells in the  
25 vicinity of our proposed location that we haven't

1 looked at in detail yet.

2 In a gross sense you can see the  
3 overall structure that we're looking at on the  
4 structure map. You see a high in the middle of  
5 this cross-section. That's the strong nose that  
6 we're trying to stay as high as we can on.

7 The first well in the section on the  
8 left is the C & K No. 1, CK Federal. They Dst'd,  
9 the Morrow clastic's interval from the middle of  
10 Zone B all the way to the Zone D. And as the Dst  
11 results say there on the map, they Dst'd a small  
12 amount of gas and recovered larger amounts  
13 drawing fluid and water.

14 They ended up perforating the Morrow  
15 sand up above the Zone A and has made  
16 approximately 1.2 Bcf out of that well. The  
17 zones that we are primarily interested in are wet  
18 in this well, we feel like must be higher in this  
19 well.

20 Wells No. 2 and No. 3 on this  
21 cross-section are the same as the first two wells  
22 on the preceding two exhibits. The third and the  
23 fourth well on cross-section C-C prime, we  
24 haven't seen before either. No. 3 is the C & K  
25 Petroleum No. 2, Pennzoil Federal No. 10.



1           Again, you'll notice that the sands  
2 have changed from this well from the preceding  
3 well. Zone C is still one thin sand that hasn't  
4 divided up. Zone D is now several sands instead  
5 of two. And when it was DST'd twice, it showed  
6 to be a depleted reservoir, very small areal  
7 extent.

8           The last well on the cross-section is  
9 the Pennzoil No. 1, O'Neill "B." They tested the  
10 lowest part of the Morrow and recovered water,  
11 gas-cut water, but still water, nonproductive.  
12 And that lowest sand is Zone D.

13           Again, we feel like we have to be  
14 up-dip from these wells. They're off the  
15 structural nose in the center of the  
16 cross-section. They did make a Morrow well in  
17 the Zone B, and you'll also notice that these  
18 sands are different in character from the sands  
19 of Zone B in the middle of the cross-section.

20           I alluded earlier that this field has  
21 been described in the literature 1986, and there  
22 were six different environments of deposition  
23 identified in the White City Penn field and the  
24 Carlsbad South.

25           This well, this last well in

1 cross-section C-to-C prime, represents a change  
2 in the depositional environments of the sands.  
3 That's why this lower well is producing gas than  
4 the wells in the top of the field. It's a  
5 different environment. The sands are not  
6 connected.

7 The sands we see on the top of the  
8 field, you saw on Sections A and B, are  
9 continuous through our location, so we have to  
10 use those wells as our lowest structural point.  
11 Those wells were wet, and we have to be up-dip.

12 Q. What conclusions have you reached from  
13 your geologic study?

14 A. In order to effectively, efficiently  
15 produce the gas under our lease, we need to be as  
16 structurally high as possible in Section 4. And  
17 that necessitates us drilling at an unorthodox  
18 location.

19 Q. In your opinion will this location  
20 enable you to effectively produce the reserves  
21 under Section 4?

22 A. Yes, it will.

23 Q. Let's go back to your structure map,  
24 Exhibit No. 2, for a minute. Who offsets you  
25 towards the south?

1 A. Ultramar offsets BTA in Section 9.

2 Q. And then who to the south and east?

3 A. Pennzoil is operator in Section 10.

4 Q. Could you identify what has been marked  
5 as BTA Exhibit No. 7, please.

6 A. This is a letter from BTA to offset  
7 operators notifying them of this hearing and of  
8 our intentions to drill an unorthodox location.

9 Q. Attached to those letters are there  
10 copies of the return receipts showing that the  
11 letter was in fact received by these offset  
12 operators?

13 A. There are.

14 Q. Mr. Cox, in your opinion will the  
15 approval of this application be in the best  
16 interests of conservation, the prevention of  
17 waste, and the protection of correlative rights?

18 A. Yes, it will.

19 Q. Were Exhibits 1 through 7 either  
20 prepared by you, or have you reviewed them and  
21 can you testify as to their accuracy?

22 A. Yes, they were.

23 MR. CARR: At this time we would move  
24 the admission of BTA Exhibits 1 through 7.

25 EXAMINER CATANACH: Exhibits 1 through

1 7 will be admitted as evidence.

2 MR. CARR: That concludes my direct  
3 examination of Mr. Cox.

4 MR. STOVALL: Mr. Carr, can you assist  
5 BTA in preparing the affidavit that I have been  
6 so consistently referring to all day?

7 MR. CARR: If we know exactly what you  
8 want, we'll put anything in it you deem.

9 MR. STOVALL: Did you serve notice upon  
10 these --

11 MR. CARR: As long as it's truthful.

12 MR. STOVALL: Always a catch, Mr.  
13 Carr.

14 Did you serve notice upon the parties  
15 entitled to notice under the rules and notify  
16 them?

17 MR. CARR: And do you want the numbers  
18 of the return receipts on that in the form of the  
19 affidavit?

20 MR. STOVALL: If you actually attach  
21 them -- I think the reason we did it with Amoco  
22 is because of the sheer volume. You can attach  
23 the receipts themselves in this case.

24 MR. CARR: We'll provide an affidavit  
25 after the hearing.

## EXAMINATION

BY EXAMINER CATANACH:

Q. Mr. Cox, BTA originally proposed the standard location. Was this location staked before you did any geologic interpretation?

A. Yes, it was.

Q. Approximately how many feet of structure are you gaining in your proposed location?

A. From the original?

Q. From a standard location.

A. Probably on the order of 50 feet.

Q. Why is it so difficult to determine the gas-water contact in this reservoir?

A. I don't know that it's difficult. I haven't worked that in.

Q. Do you feel like a well at a standard location would be wet in some of these zones?

A. Yes, sir, definitely.

Q. Which zones do you think it would be wet in?

A. Zone D.

Q. D?

A. Yes. And everything below it.

Q. Are Zones A and B the most prolific

1 sands in this pool?

2 A. No, they're not. Actually, they are  
3 not even produced in any of these wells.

4 Q. Which zones would be the most prolific  
5 zones in your opinion?

6 A. Zones C and D.

7 Q. C and D. The well in Section 4, the  
8 existing well, the C & K, Allied Chemical  
9 Federal --

10 A. Yes.

11 Q. -- that was never produced in the  
12 Morrow?

13 A. Not to my knowledge.

14 Q. They plugged it back and made a shallow  
15 well?

16 A. That's correct.

17 Q. But it was tested?

18 A. By Dst, yes. Drill stem test.

19 Q. Do you believe the well at your  
20 proposed location will recover more gas under  
21 Section 4 than a well at a standard location?

22 A. Yes, sir, I do. I think there are  
23 three possible sands that we will produce out of  
24 that. There's one in zone C, one thick sand.  
25 Zone D has two thinner sands.

1           If we were at a standard location, I  
2 think, at least the lower half of Zone D,  
3 one-third of our reservoir would be wet. I think  
4 we would increase our reservoir recovery a very  
5 large percentage by having all three above water.

6           Q.     Has BTA heard from any of the offset  
7 operators in terms of any kind of objection to  
8 this location?

9           A.     I'm not aware of any objections to this  
10 location.

11          Q.     Okay. The south, you said, was owned  
12 by Ultramar --

13          A.     Yes.

14          Q.     -- in Section 9. And Section 10 is  
15 owned by Pennzoil?

16          A.     That's correct.

17                 MR. CARR: Mr. Catanach, Pennzoil  
18 originally had given a waiver when we were  
19 seeking it administratively.

20                 EXAMINER CATANACH: I have no further  
21 questions of the witness.

22                 MR. STOVALL: I just have one. You  
23 would rather be at this location than the  
24 standard location even if the BLM didn't have any  
25 surface considerations; is that correct?

1 THE WITNESS: I would geologically,  
2 yes.

3 MR. STOVALL: Nothing further.

4 MR. CARR: I have nothing further in  
5 this case.

6 EXAMINER CATANACH: You may be excused.

7 There being nothing further, Case 10419  
8 will be taken under advisement.

9 (The proceedings were concluded.)  
10  
11  
12  
13  
14  
15

16 I do hereby certify that the foregoing is  
17 a complete record of the proceedings in  
18 the Examiner hearing of Case No. 10419,  
heard by me on December 5 1991.

19 David R. Catanch, Examiner  
20 Oil Conservation Division  
21  
22  
23  
24  
25




## 1 CERTIFICATE OF REPORTER

2  
3 STATE OF NEW MEXICO )  
4 ) ss.  
COUNTY OF SANTA FE )

5  
6 I, Debbie Vestal, Certified Shorthand  
7 Reporter and Notary Public, HEREBY CERTIFY that  
8 the foregoing transcript of proceedings before  
9 the Oil Conservation Division was reported by me;  
10 that I caused my notes to be transcribed under my  
11 personal supervision; and that the foregoing is a  
12 true and accurate record of the proceedings.

13 I FURTHER CERTIFY that I am not a  
14 relative or employee of any of the parties or  
15 attorneys involved in this matter and that I have  
16 no personal interest in the final disposition of  
17 this matter.

18 WITNESS MY HAND AND SEAL December 17,  
19 1991.

20  
21  
22   
23 \_\_\_\_\_  
24 DEBBIE VESTAL, RPR  
NEW MEXICO CSR NO. 3  
25

NEW MEXICO OIL CONSERVATION DIVISION

STATE LAND OFFICE BUILDING

STATE OF NEW MEXICO

CASE NO. 10419

IN THE MATTER OF:

The Application of BTA Oil Producers  
for an Unorthodox Gas Well Location,  
Eddy County, New Mexico.

BEFORE:

DAVID R. CATANACH

Hearing Examiner

State Land Office Building

February 6, 1992

REPORTED BY:

CARLA DIANE RODRIGUEZ  
Certified Shorthand Reporter  
for the State of New Mexico

**ORIGINAL**

## A P P E A R A N C E S

FOR THE NEW MEXICO OIL CONSERVATION DIVISION:

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Santa Fe, New Mexico 87504

1 EXAMINER CATANACH: At this time we'll  
2 call Case 10419.

3 MR. STOVALL: Application of BTA Oil  
4 Producers for an unorthodox gas well location,  
5 Eddy County, New Mexico.

6 EXAMINER CATANACH: It's my  
7 understanding that this case was originally heard  
8 December 5, 1991, and subsequently readvertised  
9 for today to make some changes in the pool that  
10 the well will be placed in.

11 I see, by an empty room, there are no  
12 additional appearances in this case.

13 MR. STOVALL: Please note the sentence  
14 following the ending of the case name, in the  
15 middle of that advertisement.

16 EXAMINER CATANACH: "In the absence of  
17 objection, this case will be taken under  
18 advisement," and we will do so at this time.

19 (And the proceedings concluded.)  
20  
21  
22  
23  
24  
25

## 1 CERTIFICATE OF REPORTER

2 STATE OF NEW MEXICO )

3 ) ss.

4 COUNTY OF SANTA FE )

5 I, Carla Diane Rodriguez, Certified  
6 Shorthand Reporter and Notary Public, HEREBY  
7 CERTIFY that the foregoing transcript of  
8 proceedings before the Oil Conservation Division  
9 was reported by me; that I caused my notes to be  
10 transcribed under my personal supervision; and  
11 that the foregoing is a true and accurate record  
12 of the proceedings.

13 I FURTHER CERTIFY that I am not a  
14 relative or employee of any of the parties or  
15 attorneys involved in this matter and that I have  
16 no personal interest in the final disposition of  
17 this matter.

18 WITNESS MY HAND AND SEAL February 17,  
19 1992.

20  
21   
22 CARLA DIANE RODRIGUEZ, RPR  
23 CSR No. 4

24 I do hereby certify that the foregoing is  
25 a complete record of the proceedings in  
the Examiner hearing of Case No. 10418,  
heard by me on February 6, 1992.

  
David L. Ceballos, Examiner  
Oil Conservation Division