

CASE 4540: Appli. of MOUNTAIN  
STATES PETROLEUM CORP. FOR  
REDELINEATION OF CERTAIN POOLS.

R-3806

Case Number  
4540

Application

Transcripts

Small Exhibits

ETC.

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BEFORE THE  
NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico  
May 19, 1971

EXAMINER HEARING

IN THE MATTER OF:

Application of Mountain States Petroleum ) Case No. 4540  
Corporation for redelineation of certain )  
pools, Eddy County, New Mexico. )

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

1 MR. NUTTER: We'll call Case No. 4540.

2 MR. HATCH: Case 4540, application of Mountain  
3 States Petroleum Corporation for redelineation of certain  
4 pools, Eddy County, New Mexico.

5 MR. STEVENS: Mr. Examiner, I am Don Stevens of  
6 McDermott, Connolly and Stevens, Attorneys for the applicant  
7 Mountain States Petroleum. We have one witness to be sworn.

8 (Witness sworn.)

9 (Whereupon, Applicant's Exhibits A through D were  
10 marked for identification.)

11 CONRAD APPLIEDORN,

12 having been first duly sworn, testified as follows:

13 DIRECT EXAMINATION

14 BY MR. STEVENS:

15 Q Would you give your name, the company by whom you are  
16 employed and your position and capacity with that  
17 company?

18 A My name is Conrad R. Appledorn and I am petroleum  
19 engineer with Mountain States Petroleum Corporation.

20 Q Have you testified before the Commission before and  
21 did you make your qualifications a matter of record  
22 before the Commission?

23 A Yes, I have, '61.

24 MR. STEVENS: Mr. Examiner, are the witness'  
25 qualifications acceptable?

1 MR. NUTTER: They are.

2 Q (By Mr. Stevens) Mr. Appledorn, would you state briefly  
3 what the applicant seeks in this application before the  
4 Commission?

5 A We request that the Mountain States Petroleum Corporation  
6 McCall Gas Calm No. 1 in the northwest quarter of Section  
7 19, Range 26 East, Township 18 Sotuh, be removed from  
8 the Atoka-Penn Gas Pool and placed in the West Atoka-  
9 Penn Gas Pool. We believe that we have sufficient data  
10 now to justify this reclassification. In order to do  
11 this, the west half of Section 19 and the west half of  
12 Section 18 will be placed in the West Atoka Pool.

13 Q If this application is approved?

14 A If this application is approved.

15 Q You expressed a desire to introduce Exhibits A, B and C  
16 at the same time, and I understand you would like to  
17 discuss them all together, is that correct?

18 A Yes.

19 Q Would you explain to the Commission the significance of  
20 these exhibits?

21 A All three of these exhibits are more or less related.  
22 Exhibit A is a cross section illustrating the continuity  
23 of the various producing sands in the area across the  
24 area in question and B and C are isopach maps which show  
25 the area distribution in the sands.

1 B and C do not show the total area distribution.  
2 They are more or less a configuration of what we  
3 consider to be produceable sands or sands that have  
4 economic gas concentrations very roughly, and the cross  
5 section illustrates that both the A sand and the B sand  
6 are continuous throughout this area.

7 Q Excuse me. Could you explain exactly what sands you are  
8 referring to in the stratigraphic column?

9 A This is the Morrow Formation, Pennsylvanian and H and  
10 in the Morrow there are three sands, the A, the B and  
11 the C, at successively deeper, and the A and B sands  
12 are the ones with which we are concerned here. These  
13 two sands are separated by about a hundred feet of shale  
14 and shaley sand. Cross section A shows the Pennzoil  
15 Vandenburg No. 1 in Section 13, Range 25 East; all of  
16 this is in Township 18 South.

17 The Mountain States Petroleum Corporation McCall  
18 Gas in the northwest quarter of Section 19, 18 South,  
19 26 East, and the Reed and Stevens which was formerly the  
20 Lynn Meyer, Irene Brainard No. 1 in the northwest quarter  
21 of Section 20, 18 South, 26 east.

22 The Pennzoil Well is presently shut in. Its economics  
23 in question at this time. It had a calculated absolute  
24 open flow of about 960,000 cubic feet of gas per day. It  
25 is perforated in the A sand but at this location in the

1 northwest quarter of Section 13, the A sand actually  
2 present in three relatively thin zones. Each of these  
3 zones is separated by shale.

4 As we turn southeast into the west half of Section  
5 19, we see that the A sands thicken and the shale  
6 decreases in thickness. The A sand also cleans up and  
7 the McCall Gas Calm in the northwest quarter of Section  
8 19 was potentialed on the 15th of May, just last  
9 Saturday, for 8,600,000 cubic feet of gas per day.

10 The Lynn Meyer Well or the Reed and Stevens Irene  
11 Brainard No. 1 was completed in June of 1967 as a B  
12 sand well. In this well, the A sand was drilled; it  
13 did not have sufficient shows nor porosity and permea-  
14 bility to warrant testing nor was it completed in any  
15 way. It was drilled through; there is A sand present;  
16 it is shaley; it's very tight and the very small portion  
17 of relatively clean sand that appears on the log is  
18 highly cemented and has no porosity or permeability.

19 MR. NUTTER: What kind of potential does that well  
20 have in the B sand?

21 THE WITNESS: In the B sand, that well potentials  
22 at 15,000,000.

23 A The B sand in the Pennzoil Well is very thin, very  
24 tight; it seems to be clean sand on the log. However, it  
25 has no porosity at all. There was no attempt made to

complete it.

In the Mountain States Well, we had about nine feet of porosity. I ended up perforating ten feet total. We feel that nine feet of this does have sufficient porosity and permeability to produce and it is perforated. It was not tested separately.

In the Irene Brainard No. 1, again, in the B sand, as stated, was potentialed for 15,000,000 and had pressures comparable to the remainder of the Atoka Pool.

Now, if we can go to the isopachs, these illustrate on an area basis roughly our conception of the distribution of the very thick sands in this area.

There is some question on the Fascan Well. The Fascan has -- this well is also in the Atoka Pool. Fascan has told us that they consider the sands in that well to be B; however, on our correlations indicate to us that it is A sand and we don't care to contest it in any way. There is no need to. However --

Q (By Mr. Stevens) Excuse me. Could you give the location of the Fascan Well?

A Of the Fascan Well? In the southeast quarter of Section 24, 18 South, 25 East.

Changing that, whether it is A or B, would not change the basic request that we have made nor the distribution of the producing zones in the Atoka Pool



1       itself.

2       Q    Could you discuss the wells to the east of your proposed  
3           area and give us their results and their current pro-  
4           ducing capacity?

5       A    All of the wells shown on the Exhibits B and C to the  
6           east of the McCall Gas Calm, the Fundamental Oil Corpo-  
7           ration's Thorpe Sears Calm No. 1 dry hole in the south-  
8           east quarter of Section 18 had approximately seventeen  
9           feet of B sand. It was a non-commercial well. On the  
10          drill stem test the well produced some gas; it decreased  
11          very rapidly. It had a 3300 shutin bottomhole pressure  
12          but at the end of the test, this had decreased very  
13          markedly and the well was plugged as a dry hole.

14       Q    Did that drill stem test include the A sand?

15       A    As far as I know, it did not include the A. It had no  
16          sand of any kind. The Hondo LFE in the southeast quarter  
17          of Section 19, which is the diagonally offsetting well  
18          to the Mountain States Well, is the B sand well; it has  
19          a very thick, very clean B sand producing interval. It  
20          has an A section that is very similar to the Reed Well.  
21          In fact, the entire producing section of the LFE Well is  
22          similar to the Reed Well. At the time of completion,  
23          pressures were very similar and the wells are comparable,  
24          quite comparable in all respects.

25               Marathon Oil Company Well in Section 30, northeast

1 quarter, was drilled as a nonstandard proration unit  
2 well. It has been a poor well since completion. It has  
3 very thin B section, relatively tight and it has pro-  
4 duced relatively small amounts of gas.

5 The Reed and Stevens Well in the northwest quarter  
6 of Section 20, as I stated, is comparable to the Hondo  
7 LFE. It has a very good B section and it has produced --  
8 it's a very good well in the Atoka Pool and pressures  
9 are quite comparable to the remainder of the Atoka Pool.

10 The Arnquist State Well of Marathon Oil Company in  
11 the northwest quarter of Section 29 was the initial well  
12 in this area of the pool. It had a calculated absolute  
13 open flow of 545,000,000, sixty-eight feet of pay; it's  
14 completed in the B sand only. It has been the prime  
15 well in the Atoka Pool. It's direct southeast, offsets  
16 the Nix, is a comparable well.

17 Q The wells prorated in the Atoka Pool, other than the  
18 Fascan Well you mentioned in Section 24, of those shown  
19 on your map, do any of them produce out of the A sand  
20 or have any of them had any shifts out of the A sand of  
21 any consequence, to your knowledge?

22 A Not in the map area. Now, the Atoka Pool itself has A  
23 sand production in the northeast segment of the pool  
24 some five miles east of this map area. Within this map  
25 area and to the direct southeast, it has B sand production

1 only. In a few of the wells, one and two miles to the  
2 southeast, A sand is open but there has been no evidence  
3 that it's ever produce. It hasn't been tested separately.

4 One dry hole was drilled in Section 33 of the  
5 northeast quarter of 33, the Lynn Meyer Costa Plenty No.  
6 1 was completed as in the A sand and was non-commercial  
7 and plugged. To my knowledge, that's the only well in  
8 the area that's been treated separately in the A sand.

9 Q Comparing the Fundamental Well in the southeast quarter  
10 of Section 18 and the Reed and Stevens Well in the  
11 northwest quarter of Section 20, in your opinion is there  
12 a porosity pinchout between those two wells?

13 A In the B sand there is a degradation in quality in the  
14 B sand. In the A sand the McCall Well thickens, of  
15 course, quite a bit in the A and also develops clean  
16 producing sections. The Fundamental Well illustrates  
17 the degradation quality as you go towards the limits  
18 of the pool in all of these sands. This is particularly  
19 true in the B sand.

20 Q Referring to what has been marked as Applicant's Exhibit  
21 letter D, could you explain its significance to the  
22 Commission?

23 A I've listed the initial and recent tubing pressures in  
24 this field. I've done this in preference to using  
25 bottomhole pressures because these pressures are available

1 in the record.

2 The Hondo LFE Well in the southeast quarter of  
3 Section 19 had an initial pressure in February of 1962,  
4 of 2685 pounds. This pressure -- at that time, at the  
5 time of the well completion -- was comparable to the  
6 shutin tubing pressures of the surrounding well. It  
7 illustrated the very good continuity in pressures between  
8 wells in the Atoka Pool.

9 In 1969, in July, it had 1298 pounds shutin tubing  
10 pressure. In 1970, that pressure was down to 1077. The  
11 total production from this well is on the order of five  
12 to six billion MCF.

13 The Marathon Oil Company Arnquist State, which is  
14 third well listed, was, as I stated, the initial well  
15 in this area of the pool. It had a shutin tubing  
16 pressure in 1960 of 2843. In July of '69, 1307. In  
17 July of '70, 1073.

18 The Reed and Stevens Incorporated Well was completed  
19 in June of '67 and its initial tubing pressure was 1902  
20 pounds. And, at that time, that tubing pressure was  
21 very comparable to the shutin tubing pressures of all of  
22 the offsetting wells. It again illustrated the excellent  
23 continuity in pressures between all of these wells in  
24 the Atoka Pool.

25 Its pressure, again, in July of '69, was 1292 and in

1 May of '70, was 1109. And if you will note in those  
2 wells that are in the Atoka Pool, the pressures are  
3 very, very close, within very few pounds of each other  
4 and this has been characteristic of this B sand production  
5 in this part of the Atoka Pool.

6 Mountain States Well was completed last October.  
7 We had 141 on our shutin tubing pressure of 2839. I  
8 cleaned the well up after this and had another pressure  
9 which was only a gauge pressure of 2850. This pressure  
10 that I have given you is a dead weight pressure 1022.  
11 We show this initial pressure of 2839 on May 15, 1971,  
12 last Saturday, I had a twenty-five and a half hour shutin  
13 tubing pressure of 2826.

14 Now, this well was put on the pipe line on March  
15 16th of this year and as of May 14th, when it was shutin  
16 for buildup, it had 259,000,000 cubic feet of gas  
17 produced in two months. And we have shown only a  
18 thirteen pound drop in our shutin tubing pressures in  
19 that length of time.

20 Q What conclusions do you draw from the pressures that  
21 you just enunciated to the Commission?

22 A The pressures indicate to me that we are in a separate  
23 reservoir. The geology at the time we drilled the well  
24 and completed it, it was our feeling that we were in a  
25 separate field. We had A sand. We did open up that

1 little bit of B sand, but opened that up with the full  
2 feeling that it was really too thin to have a total  
3 connection with the Atoka Pool and we have, since  
4 completion, I have gotten two full buildup pressure  
5 tests on this well, including the one last Friday and  
6 Saturday and I show no well interference at all. No  
7 indication whatever that was connected in any way with  
8 the Atoka Pool on the basis of pressures. These  
9 pressures to me indicate very clearly that we do have a  
10 totally separate source of supply.

11 Q What kind of pressures would you expect if this were  
12 connected with the Atoka-Penn Pool?

13 A If we had been connected with the Atoka Pool in the  
14 beginning, I would have expected a shutin pressure and  
15 a bottomhole pressure somewhat less, probably anywhere  
16 from 150 to 300 pounds less than what we had.

17 Our shutin pressure at the time of completion was  
18 the same as the initial pressure in 1957 that was taken  
19 in the Atoka Pool. We were at 3670 pounds which, on the  
20 PSI standard reporting, would be about 3690 was our  
21 initial pressures in this pool. And our pressures in  
22 the McCall were very comparable to this.

23 Additionally, if we had been completed in a reservoir  
24 connected to the Atoka Reservoir, with even a limited  
25 connection, producing as much gas as we have produced,

1 we should have shown a much greater pressure drop,  
2 dropping very rapidly.

3 Q What was the amount of pressure drop in that quarter  
4 section?

5 A We show thirteen pounds in tubing pressure. We show --  
6 our bottomhole pressure shows no drop at all but this  
7 is due to the cleaning up of the well after the completion.

8 Q Were Exhibits A through D prepared by you or under your  
9 direction?

10 A Yes.

11 MR. STEVENS: We'd like to introduce Exhibits A  
12 through D, of the Applicant, as evidence.

13 MR. NUTTER: Applicant's Exhibits A through D will  
14 be admitted in evidence.

15 MR. STEVENS: That concludes our testimony.

16 CROSS EXAMINATION

17 BY MR. NUTTER:

18 Q Mr. Appledorn, you gave us the accumulated production on  
19 this Hondo LFE. What's accumulated on the Reed and  
20 Stevens and Marathon Well?

21 A The Marathon Well, I am not absolutely sure, I think  
22 it's around seven and a half billion cubic feet of gas.  
23 The Reed and Stevens Well has just exceeded four billion  
24 this year.

25 Q And yours today has made a quarter of a billion?



1 A Yes, a quarter of a billion in two months. Now, we  
2 had six million of that was rig fuel. We produced 253.  
3 I have the tabulations, 259,000,000 cubic feet in two  
4 months, plus six million rig fuel.

5 Q Although you maintain that you're producing from the A  
6 sand, you do have the B sand open, the B sand is the  
7 sand that is the principal producer in the Atoka Pool?

8 A Yes.

9 Q Actually, if we permitted your application to be  
10 approved here and designated you as a separate pool, you,  
11 in effect, would be commingling between two pools in  
12 the well bore, wouldn't you?

13 A The Atoka Pool itself has all three sands open within  
14 the pool limits. And the -- our contention is that our  
15 B is not connected to the Atoka Pool. If it had, we  
16 would show well interference.

17 Q It would be connected but you could still be getting  
18 all your high pressure and so forth but indicate pressure  
19 conditions out of the A sands.

20 A Well, we would show well interference on the bottomhole  
21 pressure tests that I've taken which we have not shown.  
22 I mean we would show zone interflow between zones.

23 Q You don't have separate pressure readings on your two  
24 sands though, do you?

25 A No, we don't have. At the time of completion we weren't



1       able to get separate tests and I felt that that ten  
2       feet wasn't economic thickness.

3       Q   No drill stem tests were made or anything, separately?

4       A   Not separately, no. I think this is illustrated by the  
5       offsetting wells which have thin sections of B sand that  
6       have been definitely tested alone. Where these sections  
7       are thin, the wells are essentially uneconomical.

8       Q   Is there any means by which the B sand can be separated  
9       off from the A sands in this well and isolated?

10      A   Well, it wouldn't pay to isolate it. It would be plugged  
11      off and we'd have to work on a well that's already  
12      completed. This Morrow is ticklish enough without going  
13      into. We would, without question, hurt the A sand in an  
14      attempt to close off the B.

15      Q   No means by which you could isolate without killing the  
16      well?

17      A   I've completed this well with tubing guns and the tubing  
18      guns are still in the hole.

19               MR. STEVENS: Was your reason for this to avoid  
20      formation damage?

21               THE WITNESS: Avoid formation damage, complete  
22      below the packer. I've completed more wells typically with  
23      packing the hole and get everything flanged and try not to  
24      work on it after completion to prevent formation damage. On  
25      this particular well, we used a new recently patented

1 " perforated method. In fact, this was the first well in  
2 which this method was used and the guns are still --

3 Q (By Mr. Nutter) Where do you put your guns on your  
4 tubing --

5 A Yes, we just hang the guns right on the end of the  
6 tubing.

7 Q I've heard of that method.

8 A This was more or less the experimental well. We had to  
9 revise the firing mechanism, change the tubing hangers.

10 Q Did you have to swab the well any?

11 A No, not at all. I had tubing completely dry.

12 My basis for believing that the -- that we are  
13 totally separated from the Atoka Pool, is based on  
14 experience, of course, in that in the past where we have  
15 had zone interflow, particularly where a high pressure  
16 zone such as our A sand is in continuity in the well  
17 bore with the low pressure sand, particularly when that  
18 sand is as low pressure as it now in the Atoka Pool.  
19 You get a very definite flattening on all the buildup  
20 tests. You show very strong well interference. There's  
21 been no indication of that at all. I don't have those  
22 buildup pressure tests with me but I'd be very happy to  
23 provide them.

24 Q Is it your contention, then, you are not only producing  
25 from a separate sand here in the A sands from the

1 offsetting wells in the Atoka, but also that your B  
2 sands, which is also open, is isolated from the B sand  
3 and the offsetting wells?

4 A Yes, because of thickness. It's very thin and relatively  
5 low permeability and the presence of the Fundamental Well  
6 and the Nix Well indicate degradation of quality very  
7 sharply in a very short distance from producing wells  
8 and I think that we've experienced the same degradation  
9 of quality in the B sand between our well and the Hondo  
10 Well.

11 Q I ventured that the sand is continuous; it may deteriorate  
12 quality but I think it's a continuous sand.

13 A Yes, I'll agree. That's the reason I built that cross  
14 section, was to indicate that the sands are continuous  
15 but that you have a very marked degradation of quality  
16 in a very distance.

17 Q And poor communication?

18 A Very poor communication between the two. The Hondo LFE  
19 has shown no effect of our well at all. If there was  
20 zone interflow, it should have had very rapid -- our  
21 well sat there shutin from 10-22 to 3-16 of this year,  
22 five months. And Hondo LFE has shown no effects at all  
23 from that high pressure. And if we had been connected,  
24 it certainly would flow that way.

25 The Atoka Well, all of the four wells shown on this

1 map that are producing in Transwestern's line are at  
2 this time, they're floating on the line; they are --  
3 meaning that their producing pressures are such that  
4 it's controlled by the pipe line pressure and  
5 Transwestern, of course, is prorating on this basis  
6 also. The Arnquist is producing about two million cubic  
7 feet a day, two to two and a half. The Brainard and  
8 the LFE are producing on the order of one and a half to  
9 two, at tubing pressures which are at pipe line pressures.

10 The Guy Nixon has been a poor well since completion.  
11 Our well, of course, is sitting there. Well, our maximum  
12 production rate during April, we made 135 million cubic  
13 feet of gas, four and a half million cubic feet a day at  
14 2100 pounds.

15 Q What do you have dedicated to this well, the north half  
16 or the west half?

17 A The west half of the section.

18 Q What does our West Atoka Pool comprise at the present  
19 time?

20 A Present time it's the north half of thirteen.

21 Q So, you have proposed that this be extended to include  
22 the north half of thirteen, the west half of eighteen  
23 and the west half of nineteen.

24 A Yes. If the Commission prefers it to be the south half  
25 of thirteen, it would be -- well, that would be concerning

1 continuity.

2 Q Well, if we would get a telegram from Mr. Fascan's  
3 representative and he would also propose that the east  
4 half of 24 be in there; what's your feeling on that?

5 A As I stated in my testimony, we are on correlations. We  
6 think the Fascan Well is A sand. We contoured it at B  
7 sand. They --

8 Q He calls it B and you call it A.

9 A They called it B when it was completed and they called  
10 it B two weeks ago. We chose not to argue on it. There  
11 is the geology in there, it does get a little confusing.

12 MR. NUTTER: Why don't you read that telegram into  
13 the record, George?

14 MR. HATCH: This is a telegram addressed to the New  
15 Mexico Oil Conservation Commission, dated May 18th, 1971.  
16 "Case No. 4540, application of Mountain States Petroleum  
17 Corporation regarding redelineation of certain gas pools,  
18 Eddy County, New Mexico. On behalf of my client, David Fascan,  
19 please be advised that he has no objections to the placement  
20 of the west half of Section 18 and the west half of Section  
21 19, Township 18 South, Range 26 East, in the Atoka West  
22 Morrow Gas Pool, providing that the east half of Section 24,  
23 Township 18 South, Range 25 East, also be placed in the same  
24 Atoka West Morrow Gas Pool. This 320-acre communitized unit  
25 is signed to David Fascan Brown-Yates Calm No. 1 shutin gas

1 well currently undesignated. Said well had a bottomhole  
2 pressure of 3,631 PSIA on 2-11-71, and a surfaced tubing  
3 pressure, STP, of 2,820 PSIG pressures. Pressures equals to  
4 original pressure in the Atoka-Penn Gas Pool and approxi-  
5 mately 1700 PSI above current pressure in the Atoka-Penn  
6 Gas Pool. James B. Henry, technical engineer, agent for  
7 David Fascan."

8 THE WITNESS: I have talked to James Henry about  
9 this and he was going on -- of course, he is a geologist, and  
10 I believe they were talking to Yates and Artesia at the same  
11 time and we knew that Dick Norman, he hadn't studied this  
12 area particularly, but he did just state offhand that he  
13 thought it was B. Our own correlation didn't fit his A. I  
14 think if you note on the map here that we can contour this B  
15 in here and it would change the A map considerably. The  
16 pressure is thus indicated.

17 Q (By Mr. Nutter) You show forty-eight feet in the B  
18 sand on your isopach map, don't you?

19 A On the David Fascan, yes.

20 Q And less than ten feet on the A sand on that well?

21 A Well, if you look at the cross section here, there are  
22 sands -- I would have to build a cross section on the  
23 Fascan Well to indicate what I am speaking of. If you'll  
24 note the map datum line that I have drawn across, in  
25 the Pennzoil Well is a very short distance between that

1 map datum line and the top of the A. As we come into  
2 our well, the McCall Well, Mountain States Petroleum,  
3 we notice that distance is increased apparently because  
4 of dip. We get the same feature in the Fascan Well,  
5 only we have a stray sand or very thin sand that appears  
6 directly below this datum line.

7 When we go structurally from our well to the Fascan  
8 Well to make their well B, we have to have a very strong  
9 structural rise to get up to the level of the Fascan  
10 Well. To make that sand A, this less than ten feet  
11 would become a stray and similar to those that we see  
12 in the Reed Well, for instance, above what we classified  
13 as A.

14 And that forty-eight feet, we make that a thick A  
15 section. They do have what we consider to be very weak  
16 B sand below their thick A sand. This is our correlation.

17 Q You apparently got the log on the Fascan Well from which  
18 you do your contour map here?

19 A Yes.

20 Q Could you duplicate that log and mark on it your  
21 interpretation of the A and B sand and send it to us --

22 A Yes.

23 Q -- so we can correlate it with your cross section here?

24 A Yes.

25 MR. NUTTER: Any questions of Mr. Appledorn?



1 MR. STAMETS: I'd like to clarify this particular  
2 point, Dan.

3 CROSS EXAMINATION

4 BY MR. STAMETS:

5 Q Conrad, if you had your choice, would you have drawn  
6 that forty-eight feet as A sand?

7 A Yes.

8 Q And the only reason you drew it as B is because that's  
9 what the operator of that well calls it?

10 A Yes.

11 Q So, if you actually consider that as A sand, that would  
12 make this A sand feature much larger?

13 A It would make it very much larger.

14 Q But still to the west of the Atoka?

15 A Yes, all lines all to the west. The producing A sands  
16 slide to the west of Atoka. It would form a very large  
17 A sand; it would become more of a bar instead of a  
18 channel that we pictured it as. Quite a typical Morrow  
19 development, I might say. This type of sand, of course,  
20 is common both in the Morrow and the Atoka.

21 The changes in the B map in Exhibit No. C would be  
22 much less, of course. We could just wipe off that much  
23 of that map right there.

24 Q So, we would have a tendency to show the B sand more or  
25 less cutting off --



1 A Yes, it would show the B sand as cutting off with the  
2 Nixon and the Fundamental between the last two contour  
3 lines.

4 MR. STAMETS: That's all I have.

5 MR. NUTTER: Are there any further questions of  
6 Mr. Appledorn? You may be excused.

7 (Witness excused.)

8 MR. NUTTER: Do you have anything further in this  
9 case, Mr. Stevens?

10 MR. STEVENS: None.

11 MR. NUTTER: Does anyone have anything further  
12 they wish to offer in Case 4540? We will take the case under  
13 advisement.  
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I N D E X

WITNESS

PAGE

CONRAD APPLEDOORN

Direct Examination by Mr. Stevens

Cross Examination by Mr. Nutter

Cross Examination by Mr. Stamets

2

13

22

E X H I B I T S

Applicant's A through D

2

dearnley-meier reporting service, inc.

PAGE 25

1 STATE OF NEW MEXICO )  
2 ) ss  
3 COUNTY OF BERNALILLO )

4 I, SYLVIA AMARO, Court Reporter in and for the County  
5 of Bernalillo, State of New Mexico, do hereby certify that  
6 the foregoing and attached Transcript of Hearing before the  
7 New Mexico Oil Conservation Commission was reported by me;  
8 and that the same is a true and correct record of the said  
9 proceedings to the best of my knowledge, skill and ability.  
10

11 Sylvia Amaro  
12 Court Reporter  
13  
14  
15  
16  
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21  
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25

I do hereby certify that the foregoing is  
a complete and correct transcript of the  
proceedings held on the 15th day of  
April, 1971, at the New Mexico Oil  
Conservation Commission.  
Debra  
Court Reporter



# OIL CONSERVATION COMMISSION

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

July 7, 1971

**GOVERNOR  
BRUCE KING  
CHAIRMAN**

**LAND COMMISSIONER  
ALEX J. ARMIJO  
MEMBER**

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

Mr. Donald S. Stevens  
McDermott, Connelly & Stevens  
Attorneys at Law  
Post Office Box 1904  
Santa Fe, New Mexico

Re: Case No. 4540  
Order No. R-4162  
Applicant:  
  
Mountain States Petroleum Corp.

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. Porter, Jr.

A. I. PORTER, Jr.  
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC \_\_\_\_\_ x  
Artesia OCC \_\_\_\_\_ x  
Aztec OCC \_\_\_\_\_

Other \_\_\_\_\_

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

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

CASE NO. 4540  
Order No. R-4162

NOMENCLATURE

APPLICATION OF MOUNTAIN STATES  
PETROLEUM CORPORATION FOR RE-  
DELINEATION OF CERTAIN POOLS,  
EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 19, 1971,  
at Santa Fe, New Mexico, before Examiner Daniel S. Mutter.

NOW, on this 7th day of July, 1971, 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, Mountain States Petroleum Corpora-  
tion, seeks the deletion of the W/2 of Section 19, Township 18  
South, Range 26 East, NMPM, from the Atoka-Pennsylvanian Gas  
Pool and the extension of the West Atoka-Morrow Gas Pool to  
include the W/2 of Sections 18 and 19, Township 18 South, Range  
26 East, NMPM, Eddy County, New Mexico.

(3) That the W/2 of said Section 19 should be deleted  
from the Atoka-Pennsylvanian Gas Pool.

-2-

CASE NO. 4540  
Order No. R-4162

(4) That the West Atoka-Morrow Gas Pool should be extended to include the S/2 of Section 13 and the W/2 of Section 24, Township 18 South, Range 25 East, NMPM, and the W/2 of Section 19, Township 18 South, Range 26 East, NMPM.

(5) That the deletion and extensions as described in Findings (3) and (4) above will not violate correlative rights nor cause waste.

IT IS THEREFORE ORDERED:

(1) That the horizontal limits of the Atoka-Pennsylvanian Gas Pool, Eddy County, New Mexico, are hereby contracted by the deletion therefrom of the following-described area:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM  
Section 19: W/2

(2) That the horizontal limits of the West Atoka-Morrow Gas Pool, Eddy County, New Mexico, are hereby extended to include therein the following-described area:

EDDY COUNTY  
TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM  
Section 13: S/2  
Section 24: W/2

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM  
Section 19: W/2

(3) That the location of any well which, by virtue of this extension, is presently drilling to or completed in the West Atoka-Morrow Gas Pool or in the Morrow formation within one mile thereof is hereby approved; that the operator of any such well having an unorthodox location shall notify the Artesia District Office of the Commission in writing of the name and location of the well on or before August 1, 1971.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

-3-

CASE NO. 4540

Order No. R-4162

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

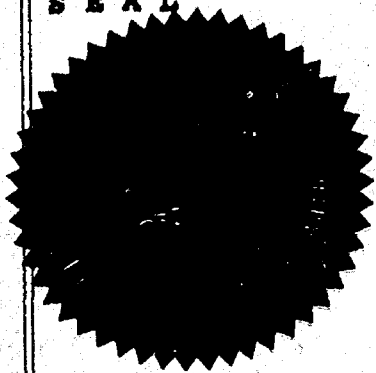
STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

*B. King*  
BRUCE KING, Chairman

*Alex J. Armijo*  
ALEX J. ARMIJO, Member

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

SEAL



dr/

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

CASE NO. 4540  
Order No. R-4162-A

NOMENCLATURE

APPLICATION OF MOUNTAIN STATES  
PETROLEUM CORPORATION FOR RE-  
DELINEATION OF CERTAIN POOLS,  
EDDY COUNTY, NEW MEXICO.

NUNC PRO TUNC ORDER

BY THE COMMISSION:

It appearing to the Commission that due to error and omission, Order No. R-4162, dated July 7, 1971, does not correctly state the intended order of the Commission,

IT IS THEREFORE ORDERED:

(1) That Finding (4) on page 2 of Order No. R-4162, dated July 7, 1971, is hereby corrected to read in its entirety as follows:

"(4) That the West Atoka-Morrow Gas Pool should be extended to include the S/2 of Section 13 and the E/2 of Section 24, Township 18 South, Range 25 East, NMPM, and the W/2 of Section 19, Township 18 South, Range 26 East, NMPM."

(2) That Order (2) on page 2 of Order No. R-4162, dated July 7, 1971, is hereby corrected to read in its entirety as follows:

EDDY COUNTY

TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM

Section 13: S/2

Section 24: E/2

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM

Section 19: W/2



-2-

CASE NO. 4540

Order No. R-4162-A

(3) That this order shall be effective nunc pro tunc as of July 7, 1971.

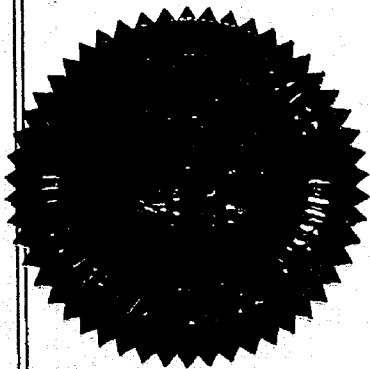
STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

*Bruce King*  
BRUCE KING, Chairman

*Alex J. Armijo*  
ALEX J. ARMIJO, Member

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

S E A L



dr/

Int'l State Water Corp  
contracting of Atoka  
River to locate the

W/2 Sec 19 18S 26E

Edley Co N.M.

extends the W. Atoka -  
~~Boundary of West River~~

Gas Pool

McCaw Gas Com No 1

1650 N & W of 19

18S 26E

W/2 Sec. 19

Conrad Appledorn 701 S. 18 Street  
Artesia

Mtn. State Petro. Corp.

4382

contraction the Alaska Marrow Gas Pool  
by deletion of W/2 19 T18S R26E

Eddy Co NM

extend W. Alaska Marrow Gas Pool

to include W/2 18 & W/2 19

O.O. Box 1936  
Roswell - N.M.

Don Oliver



western union

Telegram

KA037 NSA195

1971 MAY 18 AM 11 26

1957

NS MDA014 RS PDF=MIDLAND TEX 18 950A CDT=  
NEW MEX OIL CONSERATION, ATTN GEO HATCH  
SANTA FE NMEX=

REFERENCE NEW MEXICO OIL CONSERVATION COMMISSION  
HEARING MAY 19, 1971.

CASE NUMBER 4540 APPLICATION OF MOUNTAIN STATES  
PETROLEUM CORPORATION REGARDING RE-DELINATION OF CERTAIN  
GAS POOLS EDDY COUNTY, ON BEHALF OF MY CLIENT DAVID  
FASKEN, PLEASE BE ADVISED THAT HE HAS NO OBJECTIONS TO  
THE PLACEMENT OF THE WEST HALF OF SECTION EIGHTEEN  
AND THE WEST HALF OF SECTION NINETEEN TOWNSHIP  
EIGHTEEN SOUTH RANGE 26 EAST IN THE ATOKA WEST MORROW

WU 1201 (R 5-69)



# Telegram

GAS POOL. PROVIDED THAT EAST HALF OF SECTION 24  
TOWNSHIP EIGHTEEN SOUTH RANGE 25 EAST ALSO BE PLACED IN  
THE SAME ATOKA WEST MORROW GAS POOL. THIS 320 ACRE  
COMMUNITIZED UNIT IS SIGNED TO DAVID FASKEN'S BROWN  
YATES COMM. NO. 1, SHUT IN GAS WELL CURRENTLY IN  
UNDESIGNATED STATUS. SAID WELL HAD A BHP OF 3631 PSIA  
ON 2-11-71 AND A SURFACED (TP) OF 2820 PSIG PRESSURES  
EQUALS TO ORIGINAL PRESSURE IN ATOKA PENN GAS POOL AND  
APPROXIMATELY 1700 PSI ABOVE CURRENT PRESSURE IN ATOKA  
PENN GAS POOL.==

JAMES B HENRY, HENRY ENGINEERING AGENT FOR  
DAVID FASKEN.==

DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 19, 1971

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

The following cases will be heard before Daniel S. Nutter, Examiner or  
Elvis A. Utz, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for  
June, 1971, from fifteen prorated pools in Lea, Eddy,  
Roosevelt and Chaves Counties, New Mexico; also pre-  
sentation of purchaser's nominations for said pools  
for the six-month period beginning July 1, 1971;
- (2) Consideration of the allowable production of gas from  
nine prorated pools in San Juan, Rio Arriba and  
Sandoval Counties, New Mexico, for June, 1971.

CASE 4352 (Reopened): (Continued from April 14 and April 28, 1971 Examiner  
Hearings)

In the matter of Case 4352 being reopened by the Oil Con-  
servaion Commission upon its own motion to give all in-  
terested persons an opportunity to appear and present  
evidence to whether the Double L-Queen and Suble-Queen  
Pools, Chaves County, New Mexico, are in fact separate  
reservoirs or one common reservoir. Further, in the  
event it is found that the two pools comprise one common  
reservoir, the Commission will consider the adoption of  
special rules and regulations to provide for the classifi-  
cation of oil and gas wells, spacing and well location  
requirements for oil and gas wells, and an allocation  
formula for withdrawals from the gas wells and oil wells.

CASE 4535:

(Continued from the April 28, 1971 Examiner Hearing)

Application of Continental Oil Company for down-hole  
commingling, Lea County, New Mexico. Applicant, in the  
above-styled cause, seeks authority to commingle Monument-  
Tubb and Weir Drinkard oil production in the well-bore of  
its SEMU Well No. 70, located in Unit I of Section 15,  
Township 20 South, Range 37 East, Lea County, New Mexico.

CASE 4536:

Application of Eastland Oil Company for an exception to  
Order No. R-3221, as amended, Eddy County, New Mexico.  
Applicant, in the above-styled cause, seeks an exception  
to Order No. R-3221, as amended, to dispose into unlined  
surface pits water produced by three wells in the Power  
Grayburg-San Andres Pool, Eddy County, New Mexico, as  
follows:

(Case 4536 continued)

TOWNSHIP 17 SOUTH, RANGE 31 EAST  
Allied State Well No. 1 - SW/4 SW/4  
Section 32

TOWNSHIP 18 SOUTH, RANGE 31 EAST  
Kenwood Federal Well No. 1 - NE/4 NW/4  
Section 6  
Kenwood Federal Well No. 3 - NW/4 NW/4  
Section 6

CASE 4537: Application of Union Oil Company of California for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt into the Devonian formation in the perforated interval from 11,680 feet to 11,690 feet in its South Vacuum Unit Well No. 2-35 located in Unit I of Section 35, Township 18 South, Range 35 East, South Vacuum-Devonian Pool, Lea County, New Mexico.

CASE 4538: Application of Jack F. Grimm Oil Company for an unorthodox oil well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 104 C I of the Commission Rules and Regulations to drill a well at an unorthodox location 880 feet from the South line and 1500 feet from the West line of Section 20, Township 11 South, Range 29 East, White Ranch Siluro-Devonian Pool, Chaves County, New Mexico.

CASE 4539: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Doanbuy Lease & Company, Inc., and all other interested persons to appear and show cause why its following described wells in Section 27, Township 14 South, Range 33 East, Saunders Pool, Lea County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program:

Atlantic State AC - 1	Well No. 1	Unit N
Atlantic State AC - 2	Well No. 2	Unit M
Atlantic State AC - 2	Well No. 3	Unit O
Atlantic State AC - 3	Well No. 4	Unit L
Atlantic State AC - 3	Well No. 5	Unit J
Atlantic State AC - 4	Well No. 6	Unit P
Atlantic State AC - 4	Well No. 7	Unit I



CASE 4540: Application of Mountain States Petroleum Corporation for re-delineation of certain lands, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the contraction of the Atoka-Pennsylvanian Gas Pool by the deletion of the W/2 of Section 19, Township 18 South, Range 26 East, Eddy County, New Mexico, and the extension of the West Atoka-Morrow Gas Pool to include the W/2 of Sections 18 and 19, said Township and Range.

CASE 4541: Application of Tenneco Oil Company for gas injection, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks authority to inject casinghead gas produced by certain wells located in the Lone Pine-Dakota "D" Pool, McKinley County, New Mexico, into the Dakota A zone through perforations from 2547 feet to 2562 feet in its Santa Fe Pacific Railroad Well No. 2 located in the NW/4 SW/4 of Section 13, Township 17 North, Range 9 West, South Hospah Field. The gas is to be injected for storage purposes awaiting the institution of a pressure maintenance project in the Lone Pine-Dakota "D" Pool.

CASE 4542: In the matter of the application of the Oil Conservation Commission of New Mexico upon its own motion for an order for the creation of the following pool:

West Warren-Blinbry Pool in  
Township 20 South, Range 38  
East, Lea County;

and for the extension of the following pools in Lea County;

South Corbin-Morrow Gas Pool  
Maljamar Grayburg-San Andres Pool  
Vacuum-Abo Reef Pool  
Warren-Drinkard Pool  
Vada-Pennsylvanian Pool

and for the extension of the following pools in Eddy County:

Atoka-San Andres Pool  
South Carlsbad-Morrow Gas Pool  
Eagle Creek-San Andres Pool

and for the extension of the Buffalo Valley-Pennsylvanian Gas Pool in Chaves County.





**OIL CONSERVATION COMMISSION**

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

July 20, 1971

GOVERNOR  
BRUCE KING  
CHAIRMAN

**LAND COMMISSIONER  
ALEX J. ARMIJO  
MEMBER**

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

Mr. Donald S. Stevens  
McDermott, Connelly & Stevens  
Attorneys at Law  
Post Office Box 1904  
Santa Fe, New Mexico

Re: Case No. 4540

Order No. R-4162-A

Applicant:

Mountain States Petroleum Corp.

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. Porter, Jr.

A. L. PORTER, Jr.  
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC       x        
Artesia OCC       x        
Aztec OCC                   

Other \_\_\_\_\_

# Memo

Case 4545

From

D. S. NUTTER

CHIEF ENGINEER

To Geo.

OK to enter order  
deleting W/2 19, 185, 26E  
from Atoka Penn and  
extend west Atoka  
(presently N/2 13) to incl.  
S/2 13, W/2 24 (18-25)  
and W/2 19 (18-26)

Grandfather all wells  
on non-std loc's in  
(they were drill under  
Atoka rules and are  
in violation of Statewide)

# Memo

JUL 1 04  
PH 1 04

From

W. A. GRESSETT SUPER.  
OIL & GAS INSP.

To Dick Stomata

There is an error on the order  
noted in red.

-2-

CASE NO. 4540  
Order No. R-4162

E/2

(4) That the West Atoka-Morrow Gas Pool should be extended to include the S/2 of Section 13 and the W/2 of Section 24, Township 18 South, Range 25 East, NMPM, and the W/2 of Section 19, Township 18 South, Range 26 East, NMPM.

(5) That the deletion and extensions as described in Findings (3) and (4) above will not violate correlative rights nor cause waste.

IT IS THEREFORE ORDERED:

(1) That the horizontal limits of the Atoka-Pennsylvanian Gas Pool, Eddy County, New Mexico, are hereby contracted by the deletion therefrom of the following-described area:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM  
Section 19: W/2

(2) That the horizontal limits of the West Atoka-Morrow Gas Pool, Eddy County, New Mexico, are hereby extended to include therein the following-described area:

EDDY COUNTY  
TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM  
Section 13: S/2  
Section 24: W/2 *Should be E/2*

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM  
Section 19: W/2

(3) That the location of any well which, by virtue of this extension, is presently drilling to or completed in the West Atoka-Morrow Gas Pool or in the Morrow formation within one mile thereof is hereby approved; that the operator of any such well having an unorthodox location shall notify the Artesia District Office of the Commission in writing of the name and location of the well on or before August 1, 1971.

(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

LAW OFFICES  
McDERMOTT, CONNELLY & STEVENS

W. H. McDERMOTT  
HARRY S. CONNELLY, JR.  
DONALD G. STEVENS

APR 29 1971

P. O. BOX 1904  
LINCOLN BUILDING  
101 WEST MARCY  
SANTA FE, NEW MEXICO 87501  
TELEPHONE 505 983-7301

April 29, 1971

*Case 4540 SJ*

New Mexico Oil Conservation Commission  
State Land Office Building  
Santa Fe, New Mexico 87501

Attention: Mrs. Ida Rodriguez

Gentlemen:

Mountain States Petroleum Corporation has recently completed a well in the W/2 of Section 19, Township 18 South, Range 26 East, which has been placed in the Atoka Pennsylvanian Gas Pool by the New Mexico Oil Conservation Commission.

There is evidence that said well is not producing from the same common source of supply as is producing in the Atoka Penn Field but is, in fact, producing from the same common source of supply as is being produced in the West Atoka Morrow Gas Pool.

Therefore, Mountain States Petroleum Corporation requests that you place on the hearing docket of the Commission slated for May 19, 1971, its request that the Commission contract the Atoka Penn Gas Pool by deletion of the W/2 of Section 19, Township 18 South, Range 26 East, Eddy County, New Mexico, and extend the West Atoka Morrow Gas Pool to include the W/2 of Sections 18 and 19, above township and range.

Yours very truly,

*Donald G. Stevens*  
Donald G. Stevens, Attorney for  
Mountain States Petroleum Corporation

DGS:sj

cc: Mountain States Petroleum  
Corporation

DOCKET MAILED

Date 5-6-71

P. O. BOX 1936

**MOUNTAIN STATES PETROLEUM CORPORATION**  
SUITE 1004, SECURITY NATIONAL BANK BUILDING  
ROSWELL, NEW MEXICO  
88201

505 623-7184

23  
505  
MAY 25 1971

May 24, 1971

Mr. D. S. Nutter, Chief Engineer  
Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico 87501

*File*

Dear Mr. Nutter:

Re: Docket No. 4540  
May 19, 1971

As you requested during the hearing on May 19, we enclose additional data, two copies each of a map and a cross-section, in support of our request to redelineate the Atoka Penn - West Atoka Penn gas pools.

The cross-section, which we have marked as Exhibit E, is a south to north section showing the relationship of the sands in the Fasken Brown-Yates No. 1 to those in our McCaw Gas Com No. 1 and the Fundamental Oil Co. Thorpe-Sears Com No. 1. As I testified during the hearing, we prefer to correlate the completion in the Fasken well as "A" sand rather than "B", and we feel that the cross-section supports this contention.

The isopach map, which we have marked as Exhibit B - Revised, shows the Fasken well as an "A" sand completion, in contrast to the map, Exhibit B, presented at the hearing which showed the completion as "B" sand. Lines of cross-sections, Exhibits A and E, are shown on the map.

If you wish to have any additional data on our completion of the McCaw Gas Com No. 1, please call.

Sincerely,

*C. R. Appledorn*  
C. R. Appledorn

WELL & INITIAL PRESSURE

MMJ Hondo LFE No. 1  
LP: 76 hr. 2-15-62 2685#

Read & Stevens, Inc.  
Irene Brainerd Gas Com. No. 1  
LP: 6-8-67 72 1/2 hr. 1902#

Marathon Oil Co.  
Arquist Test. No. 1  
LP: 5-10-60 45 hr. 2843#

Mountain States Petroleum Corp.  
McCaw Gas Com. No. 1  
LP: 10-22-70 141 hr. 2839#

TABULATION OF SHUT-IN TUBING PRESSURES

RECENT SHUT-IN TUBING PRESSURES

1969

7-28-69 70 hr. 1298#

1970

7-24-70 72 hr. 1077#

1971

7-28-69 74 hr. 1292#

5-14-70 336 hr. 1109#

7-14-69 96 hr. 1307#

7-27-70 75 hr. 1073#

10-22-70 (In.) 141 hr. 2839# 5-15-71 25 1/2 hr. 2826#

BEFORE EXAMINER NOTED  
OIL CONSERVATION COMMISSION  
EXHIBIT NO. D  
CASE NO. 4540

Case 4540  
Exhibit D



BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

CASE NO. 4540  
Order No. R-4162-A

NOMENCLATURE

APPLICATION OF MOUNTAIN STATES  
PETROLEUM CORPORATION FOR RE-  
DELINEATION OF CERTAIN POOLS,  
EDDY COUNTY, NEW MEXICO.

NUNC PRO TUNC ORDER

BY THE COMMISSION:

It appearing to the Commission that due to error and omission, Order No. R-4162, dated July 7, 1971, does not correctly state the intended order of the Commission,

IT IS THEREFORE ORDERED:

(1) That ~~the Finding, paragraph~~ (4) on page 2 of Order No. R-4162, dated July 7, 1971, is hereby corrected to read in its entirety as follows:

"(4) That the West Atoka-Morrow Gas Pool should be extended to include the S/2 of Section 13 and the E/2 of Section 24, Township 18 South, Range 25 East, NMPM, and the W/2 of Section 19, Township 18 South, Range 26 East, NMPM."

(2) That ~~the Order, paragraph~~ (2) on page 2 of Order No. R-4162, dated July 7, 1971, is hereby corrected to ~~reflect~~ *read in its entirety as follows:*  
~~the following change in the land description:~~

EDDY COUNTY

TOWNSHIP 18 SOUTH, RANGE 25 EAST, NMPM

Section 13: S/2

Section 24: E/2

*Township 18 South, Range 26 East, NMPM*

(3) That ~~this order~~ shall be effective nunc pro tunc as of July 7, 1971.



DRAFT

GMH/dr

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

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

*Records Center*  
CASE No. 4540

Order No. R-4162  
NOMENCLATURE

APPLICATION OF MOUNTAIN STATES  
PETROLEUM CORPORATION FOR RE-  
DELINEATION OF CERTAIN POOLS,  
EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 19, 1971,  
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this        day of July, 1971, 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, Mountain States Petroleum Corporation,  
seeks the deletion of the W/2 of Section 19, *Township 18 South, Range 26 East, NMPM,*  
from the Atoka-  
Pennsylvanian Gas Pool and the extension of the West Atoka-  
Morrow Gas Pool to include the W/2 of Sections 18 and 19, Township  
18 South, Range 26 East, NMPM, Eddy County, New Mexico.

(3) That the W/2 of said Section 19 should be deleted  
from the Atoka-Pennsylvanian Gas Pool.

-2-

CASE NO. 4540

Order No. R-46 ✓

- (4) That the West Atoka-Morrow Gas Pool should be extended ~~said~~ to include the ~~W/2 of Sections 18 and 19~~ *5/2 of Section 13 and the W/2 of Section 24, Township 18 South, Range 25 East, and the*
- (5) That the deletion and extensions as described in Findings (3) and (4) above will not violate correlative rights nor cause waste.

IT IS THEREFORE ORDERED:

- (1) That the horizontal limits of the Atoka-Pennsylvanian Gas Pool, Eddy County, New Mexico, are hereby contracted by the deletion therefrom of the following-described area:

TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM  
Section 19: W/2

- (2) That the horizontal limits of the West Atoka-Morrow Gas Pool, Eddy County, New Mexico, are hereby extended to include therein the following-described area:

EDDY COUNTY  
TOWNSHIP 18 SOUTH, RANGE 26 EAST, NMPM  
~~Section 18: W/2~~  
Section 19: W/2

- (3) That the location of any well which, by virtue of this extension, is presently drilling to or completed in the West Atoka-Morrow Gas Pool or in the Morrow ~~zone~~ of the                      formation within one mile thereof is hereby approved; that the operator of any such well having an unorthodox location shall notify the Artesia District Office of the Commission in writing of the name and location of the well on or before August 1, 1971.

*Township 18 South, Range 25 East, N 26 E  
Section 13: 5/2  
Section 24: W/2*

*W/2 of Section 19, Township 18 South, Range 26 East.*

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(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

**CASE 4541: Application of TENNECO  
OIL COMPANY FOR GAS INJECTION,  
MCKINLEY COUNTY, NEW MEXICO.**

*Continued to June 2nd.*

*Decision  
6-2-71*