## Julian Ard 4808 Westridge Avenue Fort Worth, TX 76116

(817) 377-4830

TIN 11 1 100

And make a special of

June 10, 1996

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Via Federal Express 9314580085

Attn: Mr. William J. LeMay, Director

Re: Case No. 11504 Order No. R-10597

Gentlemen:

In March of this year we were given notice, as an off-set Operator, of Manzano Oil Corporation's request for the promulgation of special pool rules (the above referenced Case and subsequent Order Nos.) in association with the drilling and completion of their "SV" Vest State Well No. 1 located in the  $SE_4^1SW_4^1$  of Section 16, Township 14 South, Range 30 East, Chaves County, New Mexico.

As you are aware, we protested their Application, primarily because we had our own plans to drill an off-set to their well, on a 40 acre lease that we own in the same quarter section where their well is located. As you are also aware, normal statewide spacing for these wells is 40 acres. We also protested their Application because we did not feel there had been adequate time to evaluate any production data on their well (which information had been "tight"), which was a wildcat to the area.

At the Hearing, held April 11, 1996 in Santa Fe, Manzano presented evidence stating their well appeared very similiar to Bough C production in the Cuerno Largo field, which they operate and which they felt would drain 160 acres. They also testified that based on the data they had (and again, we had nothing to refute this with) the areal extent of drainage from their well was 121 acres. This was based on their geologic and engineering evaluation and was duly admitted into evidence at the Hearing. Again, we could not refute this as the data used for these calculations had been held "tight".

One of the key factors in determining the areal extent of drainage in a reservoir is the Gas/Oil Ratio (GOR). Manzano's calculations were based on a GOR of 1,694 cu. ft/bbl. (their Exhibit No. 7, copy enclosed). This GOR was based on "the first eight days of metered production after our gas-measurement facilities were in place" (Page 33 of the Transcript of the Hearing). This was for the period February 27th thru March 5th. By the time the Hearing was held, however, the GOR had in fact changed. Enclosed is a copy of Manzano's C-115 for March production from this well. It shows the well produced 11,481,000 cu. ft. gas and 5,176 bbls. of oil, for a GOR of 2,218 cu. ft/bbl. As this was a discovery well, the gas had been flared for

Mr. William J. LeMay, Director, New Mexico Oil Conservation Division June 10, 1996 Page 2

the period January 15th, when the well was completed, until February 27th, when their well was connected to a gas sales line, although they were aware that the volume of gas to be produced would warrant a gas connection in a relatively short period of time.

As stated previously, Manzano's calculations on the areal extent of drainage (121 acres) were based on a GOR of 1,694/1. Although they stated several times in the course of their testimony that they felt this well closely resembled wells that they were familiar with in the Cuerno Largo field which they felt drained 160 acres, when asked why they were only asking for 80 acre spacing if their well would drain more than that, their reply was "Well, I'll show later, the Bough C is easily drained on 160 or greater acres. With this limited data, we're requesting 80 acres as being prudent and reasonable with this limited data." (Donnie Brown, Page 37 of Transcript). We suspect the reason they were only requesting 80 acres when they calculated a 121 acre drainage area (based on a GOR of 1,694/1) has more to do with the fact that of the 160 acres they felt would normally be drained by a well with characteristics of this type, they only owned 120 acres and we owned the other 40.

That suspicion aside, however, the fact is that the GOR at the time of the Hearing was over 2,000 to 1. By the time the Order was signed by you, on May 10th, the GOR was apparently in excess of 7,500/1 and is apparently now in excess of 14,000/1. When we say apparently, this information is from production data faxed by Manzano to the OCD District 1 Office on May 29th. C-115's for April are still not available and May's will not be turned in until mid-July.

We have been trying to obtain production data on this well since we learned of its completion. Logs were only released in mid-May. We felt that we should probably off-set it (and filed an APD which as you know was approved in late March) to protect our acreage from being drained. Part of Manzano's stated reasons for their Application was to prevent the drilling of unnecessary wells. From what we have seen thus far, based on their own evidence and coupled with the additional production data now available, it appears to us that a well drilled on our acreage would be an "unnecessary" well. Our acreage should have been included in the proration unit for their well, and we should be allowed to pay our proportionate part (or they should be allowed to recoup the costs attributable to our proportionate part of the proration unit out of the production attributable to the well) of the costs involved in the Bough C drilling and completion.

As you may be aware, we filed, through our attorney in Santa Fe, Mr. Ernie Padilla, an Appeal to this Order by date of June 5th, and have requested a De Novo Hearing on this matter. In the meantime, however, another well has been drilled and completed to the South (by Yates Petroleum) and Manzano, from the production data faxed the OCD District 1 office, is producing their well at a rate well over (the gas) allowable. Inasmuch as it may be some time before this matter is resolved, and inasmuch as there

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is an issue of correlative rights involved here, we ask that you take the above matters under advisement as soon as possible. We are contemporaneously sending a copy of this letter to Mr. Jerry Sexton, NMOCD District 1 Supervisor in Hobbs, as well as Mr. Padilla in Santa Fe, and Mr. Allen Harvey with the Stubbeman, McRae, Sealy, Laughlin & Browder firm, our attorneys in Midland.

Thank you very much for your attention in this matter.

Very truly yours,

Julian Ard by C. Mark Maloney, Agent

JA/cmm encs.

cc: Mr. Jerry Sexton
New Mexico Oil Conservation Division
District 1 Office
P.O. Box 1980
Hobbs, NM 88240

Mr. Ernie Padilla Padilla Law Firm P.O. Box 2523 Santa Fe, NM 87504-2523

Mr. Allen G. Harvey Stubbeman, McRae, Sealy, Laughlin & Browder, Inc. P.O. Box 1540 Midland, TX 79702-1540

## "SV" VEST STATE #1 Section 16, Township 14 South, Range 30 East Chaves County, New Mexico

DATE	BOPD	<b>MCFGPD</b>
2/27/96	162	282
2/28/96	126	276
2/29/96	184	257
3/01/96	152	271
3/02/96	178	271
3/03/96	124	271
3/04/96	188	267
3/05/96	<u>162</u>	267
Total	<u>1276</u>	<u>2162</u>

AVG GOR = 
$$\frac{2162000}{1276}$$
 = 1694 cu.ft./bbl

Gas Gravity = 0.7

Oil API Gravity = 45.5° at 60° F

## BEFORE THE OIL CONSERVATION DIVISION

Santa Fc, New Mexico

Case No 11504 Exhibit No. 7

Submitted by: Manzano Oil Corporation

Hearing Date: April 4,1996

1	A. Yes, I am.
2	MR. CARR: Are the witness's qualifications
3	acceptable?
4	EXAMINER STOGNER: Any objections?
5	MR. PADILLA: No.
6	EXAMINER STOGNER: Mr. Donnie Brown is so
7	qualified.
8	Q. (By Mr. Carr) Mr. Brown, have you made an
9	engineering study of the data available on the Bough C
ro	formation in the area surrounding the Vest State Number 1
1	well?
L2	A. Yes, I have.
13	Q. And in making this study, what was it you were
L 4	actually trying to determine?
15	A. My main purpose was to determine the areal
16	drainage based on the information we have to date from the
17	Vest State well.
18	Q. Could you refer to what has been marked as
19	Manzano Exhibit Number 7, identify this and review it for
20	Mr. Stogner?
21	A. Yes, this exhibit shows the first eight days of
22	production after our gas-measurement facilities were in
23	place.
24	In eight days it showed the well produced 1276
25	barrels of oil and 2162 MCF of gas. I had an average GOR

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