

*Handcarried
to STA
AM 3/5/92*

MEMORANDUM FOR Commander, U.S. Army Garrison, ATTN: ATZS-JAL
(Mr. George Reyes), Fort Huachuca, Arizona
85613-6000

SUBJECT: Coded Objections on Volume 1, Hydrographic Survey
Report, 20 November 1992

1. References:

a. Memorandum, DEH, ATZS-EHE, 16 January 1992, Review of the
November 1991 Hydrographic Survey Report (HSR) - Fort Huachuca
Military Reservation (WFR #111-23-73).

b. Memorandum, DEH, ATZS-EHE, 14 February 1992, subject:
Review Comments of Volumes 1-9, Hydrographic Survey Report, 20
November 1991.

2. Enclosure 1 contains the coded objections based on the
comments provided at reference a. A page (#7) from the coding
narrative provided to the post at the 21 February 1992 meeting in
Tucson, is attached to the back of enclosure 1 for easy
reference.

3. Enclosure 2 contains the coded objections based on the
comments provided at reference b. This enclosure is only a
partial of that provided your office under reference b.
Specifically, enclosure 1 annotated starting at page 2 through
"Objections" and enclosure 3, pages 1 and 3.

4. The question of 'significant diminishment' is noted on pages 1
and 3 (Encl 3) enclosed at enclosure 2. The concern is the
municipal wells and their influence on the cone of depression
which affects the post's depth to water, thus requiring the post
to deepen their wells. In addition, the concern of the possible
accumulative affects of stockponds and reservoirs on federal
rights.

5. Enclosure 3 is a corrected copy of page 1, enclosure 3, of
reference b, above. Please insert this page at the appropriate
place (location of correction: last line *Source: Vol 3 was
changed to Vol 7).

6. Point of contact is the undersigned at extension 3-1864/1863.

3 Encls


MICHAEL M. SHAUGHNESSE
Realty Specialist

COMMENTS FOR STAFF JUDGE ADVOCATE'S OFFICE

Comments on HSR, Nov 1991:

(389, 4th line up from bottom)

deleted

1. Page 4: History (Con't), line 6, "1949" is not correct, it should be 1947. (119) (1283) VPLCODE 1-38912----- UNICODE 1283

page 7 of coding narrative provided to post on 21 Feb 92 by DWR meeting in Tucson.

(391)

2. Page 5: TABLE 5-54, page 5, is changed as shown at enclosure 2-Nov 91 HSR. ADWR's total under Ponds of 201.6 does not reflect the total of the quantities listed, which is 202.4. Both totals are incorrect in any case. (119)(1283) 1-391----- 1283

(391)

3. Page 5: The claimed quantity listed at TABLE 5-54 (reflects a total quantity of 4,242.6, less 49.4 for other facilities such as check dams, water bars, and water terraces) differs dramatically with TABLE 5-66 (page 22) which is ADWR's statement of the post's estimated current water use. The largest discrepancy occurs in the claimed quantity under wells (3,793.1 acre-feet per year) as compared to ADWR's estimated water use of 2,748 acre-feet. The latter figure is what the post reported as production for the year 1990. Additionally, ADWR does not include well production (nonpotable) in estimated use. The disparity between the post's claimed quantity (3,793.1) and the post's well production for 1990 (2,748) is not easily explainable. The claimed figure is an estimated average as opposed to the metered well production (domestic only) for wells 1 through 8. If an average figure for actual well production were used (2,889 or 2,919; page 13 and summary of well production, 1982-1991 (dtd Dec 1991), reflecting average production between 1985 and 1990, there is still a considerable difference (900 to over 1,000 acre-feet). Should an amendment be considered to reflect a closer claimed use to production? Why isn't the 73.9 acre-feet of nonpotable well production not included in TABLE 5-66? Additionally, the contents of TABLE 5-66 have never been presented to the post before the Nov 91 HSR, thus there is an objection to this and the table's figures.

(119) 1-391----- (1283) (119) 1-411----- 1283

(393)

4. Page 7: h Dam reads "NE1/4, NE1/4...E." it should read "SE1/4, NE1/4...E."; Sediment 34a reads "NE1/4, SE1/4...E." it should read "NW1/4, SE1/4...E."; and the following pond should be added to the listing: " e Dam, NW1/4, NE1/4, Sec. 20, T.21S., R.21E., 1977".

(119) 1-393----- 1283

(395)

5. Page 9: Table 5-58, SP29 should be corrected to SP35; the location for SP29(35) reads "NW1/4, NW1/4...E." it should read "NW1/4, NE1/4...E."; and the location for SP31 reads "NW1/4, NE1/4...E." it should read "NW1/4, SW1/4...E.".

(119) 1-395----- 1283

(399 lines 10 and 11)

6. Page 13: line 9 and 10, 2,900 and 2,889 are different figures than the Nov 90 review. The figures reflect the new production figures for 1988, 1989, and 1990 - TABLE 5-61. These new figures are correct, thus the figures on lines 9 and 10 are also correct. See item 7 below for a new average figure.

(399) 7. Page 13: TABLE 5-61, 1987 reads "2,273", it should read "2,471" to reflect the December 1987 production figures. Records to support this data are attached at attachment 1. This would increase the average figure on line 10 of page 13 to 2,911. (119) 1-399----- 1283

(401) 8. Page 15: Effluent, lines 4, 5, 7, and 8 differ from the Nov 90 review. The current figure of 202 gallons per capita day (gpcd) are higher than those computed by the post (see attachment 2). The effluent production for 1990 (attachment 3) is higher than ADWR's figure, however, the productive population is less than the post's. The productive population is based on 1/3 of the difference between the local (living on post) post population and the noon-time itinerant (working only) post population (attachment 4) and this figure added to the local post population. Using this method to determine the productive population, the gpcd is estimated to be 167 (attachment 2). Is the figure of 202 gpcd an acceptable rate? (399) (119) 1-399----- 1283

9. Page 402: Figure 5-24, line 1 reads 139 gpcd. This differs from 202 gpcd as noted on page 15. Which figure is correct (It looks like the 202 figure was used to develop Figure 5-24.)? (401) (119) 1-401----- 1283

omit corrected } 10. Page 402: Water Uses, this section is out of place on this page and should be deleted.

omit corrected } 11. Page 16: Water Uses title with 2 lines should be moved below TABLE 5-64. (403) (404 2nd line up from the bottom)

12. Page 18: line 5 differs from the Nov 90 review. Is the use of "Commission" acceptable? It should read "Department". (119) 1-40434----- 1283

(406) 13. Page 19: A. Chaffee Parade Field, lines 2 and 3 differ from the Nov 90 review. The consumptive use was changed to 5.5 acre-feet per acre from 2.8. The consumptive use on line 3 is 3.2 acre-feet per acre. The lack of information explaining the consumptive use for pasture grasses was a value and not capacity from a point of diversion was not realized until the current review of the Nov 91 HSR. The reports' current use of 3.2 is acceptable.

(406) 14. Page 20: equation, 3.2 and 45.6 differ from Nov 90 review. Change is acceptable based on comments at paragraph 20.

(406 and 408) 15. Page 20: B. Golf Course (Complete Section) differs from the Nov 90 review. The consumptive use was changed to 4.4 acre-feet per acre from 1.9. The current consumptive use is 2.5 acre-feet per acre. The lack of information explaining the consumptive use for turf grasses was a value and not capacity from a point of diversion was not realized until the current review of the Nov 91

HSR. The reports' current use of 2.5 is acceptable. The outcome of the equation is also acceptable.

(408)
16. Page 20: 3. Impoundments, the contents of this section have never been presented to the post before the Nov 91 HSR, thus there is an objection to this procedure. Is the postulation in this section acceptable? The post claimed 198.9 acre-feet per year based on capacity. The ADWR has stated the post's use as 602 acre-feet per year.

FOR
STETSON
ENGINEERING

(408 and 410)
17. Page 21: 4. Recreation Uses, line 1 reads "fourteen ponds", is should read "seventeen ponds". The difference is a matter of interpretation of the claimed military use, i.e., which claimed use was listed first, e.g., erosion control, recreation, would be counted as an erosion control pond. If the reverse were the case the pond would be classified as recreational. The difference between 14 and 17 is not a critical issue due to the bottom-line total of ponds is the same, 74. ARE there any other thoughts on this matter?

(119)
1-408-----
1283
(119)
1-410-----
1283

(408 and 410)
18. Page 21: 4. Recreation Uses, the post's estimated capacity was deleted from this section. The following was a part of the Nov 90 HSR, "These impoundments have an estimated capacity of 95.2 acre-feet per year.". This verbiage needs to be inserted into the Nov 91 HSR.

(119)
1-408-----
1283
(119)
1-410-----
1283

(411)
19. Page 22: Summary of Current Uses and TABLE 5-66; refer to paragraph 3 for comments and concerns.

(411)
20. Page 22: Future Water Uses/1. Municipal Use, lines 3 and 6 differ from the Nov 90 review. The difference between the post's figures and ADWR's appears to be due to the difference in the use of different consumptive population figures. The population figure used by ADWR is considerably less than the what the post used. The consumptive population is based on 1/3 of the difference between the local (living on post) post population and the noon-time itinerant (working only) post population (attachment 5) and this figure added to the local post population. Thus the water usage of 270 gallons per capita day (gpcd) as estimated by AWDR is greater than what the post computed at 220 gpcd. Is the figure of 270 gpcd an acceptable rate?

(119)
1-411-----
1283

(411)
21. Page 23: 2. Irrigation, line 2 differs from the Nov 90 review. The new figure of 340 acre-feet per year reflects the consumptive use, based on DWR's values on pasture and turf grasses, for the golf course and Chaffee Parade Field. Is this total acceptable?

(412)
22. Page 23: TABLE 5-67, 3. Impoundments, and Recreation and Wildlife are new sections to the HSR. Object to not being able to review this insertion prior to publication.

(119)
1-412-----
1283

(413)
23. Page 23: Summary of Total Projected Water Requirements, lines 4 and 6 differ from the Nov 90 review. These differences reflect the consumptive values and the impoundment value, both ADWR values, and the wildlife springs (54 acre-feet per year) which the post claims. (119) 1-413----- 1283

(119) 1-419----- 1283
1-424----- 1283
1-428----- 1283
1-428----- 1283
1-428----- 1283
1-427----- 1283
1-428----- 1283
1-429----- 1283
(413)
24. Page 24: TABLE 5-68, this table and the preceding information under Summary of Total Projected Water Requirements as developed by ADWR do not reflect the posts' claimed quantity (acre-feet per year) in TABLE 5-54 and clarified within TABLES 5-69 and 5-70. The non-municipal usage of 996 acre-feet per year exceeds the post's claim of 449.5 (less the 49.4 acre-feet for other facilities); however, the municipal use stated by ADWR and the post differ significantly. Refer to paragraph 13, for further comments and concerns. (re-state paragraph 13 on objection form.) (119) 1-413----- 1283

(413)
25. Page 24: TABLE 5-68, (1), line 2 differs from the Nov 90 review. Refer to paragraph 20 for more information. Is the figure of 270 gpcd acceptable? (119) 1-413----- 1283

(413)
26. Page 24: TABLE 5-68, narrative below the table; this verbiage has not been presented to the post before the Nov 91 HSR, thus there is an objection to this procedure. Is the narrative acceptable? (119) 1-413----- 1283

(419)
27. TABLE 5-69, page 1: Well #8 and Well #7, under the ADWR FINDINGS/WATER USE TYPE, reads "MU", it should read "MU, ML" on both lines. (119) 1-419----- 1283

(419)
28. TABLE 5-69, page 1: Well (GM), under the ADWR FINDINGS/WATER USE TYPE and USE STATUS, reads "Capped Unused", it should read "ML, WL '2'". The '2' footnote would read Amended on August 21, 1989. (119) 1-419----- 1283

(419)
29. TABLE 5-69, page 1: Garden Windmill (GWM), under the CLAIMED INFORMATION, this facility is claimed by the post under 39-10775 and not as ADWR lists it under 39-10774. Should the facility's reference be amended by the post? 9

(423)
30. TABLE 5-70, page 1: Golf Course (Z-1/32a), Golf Course (Z-1/32b), and Chaffee Parade Field (Z-2), under CLAIMED INFORMATION/CLAIMED ANNUAL USE (AC-FT), reads 631.3, 631.2, and 499.0, respectively. Where do these figures come from? These figures were not a part of the Nov 90 HSR, thus there is an objection this this procedure. (119) 1-423----- 1283

(423)
31. TABLE 5-70, page 1: Chaffee Parade Field, under CLAIMED INFORMATION/ NAME (FORT IDENTIFICATION), reads "Chaffee Parade Field (Z-2)", it should read "Chaffee Parade Field (Z-2/33)". (119) 1-423----- 1283

(423)
32. TABLE 5-70, page 1: Spring #8 (SP8), under CLAIMED INFORMATION/CLAIMED LOCATION, reads "SWSE 31 22S 19E", it should read "SWSE 25 22S R19E". (119) 1-423----- 1283

- (425) 33. TABLE 5-70, page 2: Sediment (34d), Sediment (34c), Sediment (34a), and Sediment (34), under CLAIMED INFORMATION/CLAIMED ANNUAL USE (AC-FT), reads "4.0", "1.0", "1.7", and "16.5", respectively; amended claim, 5 Aug 91, shows this column as "0" with a remarks that the capacity of the pond is 4.0, 1.0, 1.7, and 16.5, respectively. Any comments on this? (119) 1-425----- 1283
- (425) 34. TABLE 5-70, page 2: #3 Sewage (46), under CLAIMED INFORMATION/CLAIMED USE, reads "SE", it should read "SE, WL". (119) 1-425----- 1283
- (425) 35. TABLE 5-70, page 2: Woodcutters (18), under CLAIMED INFORMATION/CLAIMED LOCATION, reads "NWNW...E", it should read "NWSW...E". (119) 1-425----- 1283
- (427) 36. TABLE 5-70, page 3: Pond (51), under CLAIMED INFORMATION/CLAIMED USE, reads "WL", it should read "EC". (119) 1-427----- 1283
- (427) 37. TABLE 5-70, page 3: (e), under CLAIMED INFORMATION/CLAIMED DATE OF FIRST USE, reads "1954", it should read "1977". (119) 1-427----- 1283
- (427) 38. TABLE 5-70, page 3: Mid. Garden Canyon (52), under CLAIMED INFORMATION/NAME (FORT IDENTIFICATION), reads "Garden Wash", it should read "Garden Canyon". (119) 1-427----- 1283
- (427) 39. TABLE 5-70, page 3: (o), under CLAIMED INFORMATION/CLAIMED USE, reads "WL,EC,FC", it should read "EC,FC,WL". (119) 1-427----- 1283
- (427) 40. TABLE 5-70, page 3: Unknown West (25), under CLAIMED INFORMATION/CLAIMED USE, reads "RC,WL,EC", it should read "EC". (119) 1-427----- 1283
- (427) 41. TABLE 5-70, page 3: (h), under CLAIMED INFORMATION/CLAIMED LOCATION, reads "NENE...E", it should read "SENE...E". (119) 1-427----- 1283
- (427) 42. TABLE 5-70, page 3: Sediment (34b), under CLAIMED INFORMATION/CLAIMED ANNUAL USE (AC-FT), reads "2.5", amended claim, 5 Aug 91, shows this column as "0" with a remarks that the capacity of the pond is 2.5. Any comments on this? (119) 1-427----- 1283
- (429) 43. TABLE 5-70, page 4: Sediment #1a (32a), Sediment #1b (32b), and Sediment #2 (33), under CLAIMED INFORMATION/CLAIMED ANNUAL USE (AC-FT), reads "2.2", "2.2", and "5.5", respectively; amended claim, 5 Aug 91, shows this column as "0" with a remarks that the capacity of the pond is 2.2, 2.2, and 5.5, respectively. Any comments on this? (119) 1-429----- 1283
- (429) 44. TABLE 5-70, page 4: Sediment #1a (32a), Sediment #1b (32b), and Sediment #2 (33), ADWR FINDINGS, reads blank, it should read "E01", "E01", "E02", respectively. (119) 1-429----- 1283
- (429) 45. TABLE 5-70, page 4: Pan Am (4), Upper Horse Pasture (28), and East #2 (36), under CLAIMED INFORMATION, are footnoted that (119) 1-429----- 1283

reads "3 No longer claimed by Fort Huachuca, but no amendment received.". The post was under the understanding that the Amended Statement of Claimants, 1989 and 1991, would supersede any previous claims by the Fort. Additionally, the 3 facilities were requested to be deleted in a memorandum to LADE, 13 Sep 89, paragraphs: 7m, 7u, and 7aa (Attachment 6). This memorandum was in response to the review of the 1989 HSR.

46. General comment: No mention of the six future pond sites are referenced in the current HSR. These ponds were included in the 13 Sep 89 memorandum (Encl 9) (Attachment 6) to LADE.

47. Map of Water Uses, Region 20: Sections 35 and 36 (T21S,R19E), are reversed from the correct numbering sequence (Attachment 7).

Vol 9 Region 20

48. Map of Water Uses, Region 20: Water Uses W10 (Sec 26, T21S, R20E) and W11 (Sec 14, T21S,R20E) were omitted from the map (Attachment 7).

Vol 9 Region 20

as needed. An example of this record format follows:

Columns	Field	Type	Width	Contents
1 - 5	CATWELL	N	5	Catalogued well number
6 - 12	FILLER	C	7	Space padding
13 - 17	UNICODE	N	5	Uniform objection code

where CATWELL is the catalogued well number associated with each well entry in Volume 8.

→ Objections to the sections of the HSR outside of the watershed file reports (eg. Volume 1: General Assessment) also should use a special format. This record must be assembled as follows:

Columns	Field	Type	Width	Contents
1 - 12	VPLCODE	C	12	Volume;Page;Line number*
13 - 17	UNICODE	N	5	Uniform objection code

*optional

VPLCODE -- an optional 12-character field comprised of the following subfields:

Columns	Field
1	Volume of HSR
2 - 5	Page of Volume
6 - 7	Line of Page
8 - 12	blank-filled

Use of this field is optional. If it is not employed, the field should be blank-filled. If used, these items must be right-justified within their respective fields. For example:

```

                                111
cols:    123456789012
          1_24117_-----
  
```

is Volume 1, Page 241, line 17 and underscore () is blank.

Objections to Volume 7 (Wells Subject to Federal Claims) should utilize the standard WFR format described in Section C above. File numbers for these reports will be included on the template distribution disk.

COMMENTS FOR STAFF JUDGE ADVOCATE'S OFFICE

Comments on HSR, 20 Nov 1991, Vols 1-9:

1. Why are some Zone 1 Wells listed within the Zone 2 Well Report? e.g., Watershed File Report (WFR) 11-24-CBC-014 (W4), 111-24-CBC-002 (W7), 111-24-CBC-015 (W4), 111-24-CCB-012 (W3), 111-23-AAA-001 (W3, W6, W7, W8, W9)...
2. Why isn't well W1, WFR 111-19-ACA-001, not mapped?
3. Why is WFR 111-20-062 (Vol 7, p 20), well W12 have a legal description that indicates it is on Fort Huachuca? W12 is not mapped.
4. Why is WFR 111-20-CAAB-3, Herrington, LA, omitted from Zone 2 Well Report and why is Herrington only listed in Vol 8, Catalogued Wells, p 128?
5. Why are WFR 111-22-ABC-002 (a diversion), 111-22-ABC-003 (an instream pump), and 111-23-CAA-001 (instream pump) listed in the Zone 2 Well Report? And conversely, why isn't WFR 111-23-BDCD-6 (a diversion) not listed in the Zone 2 Well Report?
6. Why is the following: WFR 111-24-CCB-012, Vol 3, p 2-159, W3 not shared; 111-24-CCB-013, Vol 3, p 2-361, W3 not shared; W1 and W2 are shared with WFR 111-23-DDA-4, which is a part of 111-23-CCB-11 (Vol 3, p 2-54), W3 described in 111-24-CCB-11 does not match W3 description in 111-24-CCB-12 and 111-24-CCB-13?
7. Why are WFR 111-21-037 and 111-21-038 not shown on map in Vol 9 or in Vols 2 or 3, but are listed in Vol 1, p 353?
8. Why are WFR 111-23-009 and 111-23-023 not found on map, Vol 9, while other shared wells are shown?
9. Why isn't the relationship between WFR 111-20-63 and 111-20-69 not indicated on map, Vol 9, this is only mentioned in Vol 1, p 363.?
10. Why is only one well mapped on WFR 111-23-028?
11. Shouldn't all 10 wells on WFR 111-23-030 be identifiable on its map, Vol 9?
12. Vol 9, WFR 111-23-033 should reference the remaining 3 wells (out of a total of 9) are on Region map 20-33, as this map indicates (23-33).
13. Only 2 out of the 6 wells are found on the map for WFR 111-23-040, Vol 9.
14. Only 4 out of the 6 wells are found on the map for WFR 111-23-041, Vol 9.

15. WFR 111-23-065, 111-23-068, 111-23-071, and 111-23-072 are on their respective maps, Vol 9.

16. WFR 111-23-DDB-009 and 111-24-042 are not on maps, Vol 9.

17. WFR 111-23-DDD-002, well W2 is not on map, Vol 9.

18. WFR 111-24-082 is not on map, Vol 9, or listed on the map.

19. Why is it that on WFR 111-24-CBC-015 is W3 mapped, Vol 9, and not counted/ID'd on WFR 24-CBC-015, Vol 7?

20. Why is it that on WFR 111-24-CBC-021 is W2 mapped, Vol 9, and not counted/ID'd on WFR 111-24-CBC-021, Vol 7?

21. Why is it that on WFR 24-CBC-043 is W1 mapped, Vol 9, and not counted/ID'd on WFR 111-24-CBC-043, Vol 7?

22. Well W2, WFR 111-24-CCB-002, is mapped, Vol 9, but not in Vol 7 for this WFR.

23. Why isn't WFR 24-CC-002 mapped, Vol 9?

24. Why is it that on WFR 111-24-CCB-012 W3 is on map, Vol 9, and W1 is on data sheet Vol 7?

25. Why is there a no data (ND) shown in Table 5-6, pp 303 & 304, when the ac-ft figures are available from the Zone 2 Well Report, Vol 7? Furthermore, why are the ac-ft figures most generally much higher in Vol 7 than those that are ID'd in Vol 1?

26. Why are the ac-ft figures in Table 5-32, Vol 1, p 353, generally higher than those in the Zone 2 Well Report, Vol 7?

27. Why isn't the accumulative impact of all the catalogued wells (Vol 8) within the Sierra Vista Subwatershed not being considered (note: Vol 1, Table 3-12, p 166; Table 4-12, p 250; and the Table on F-18, Appendix F.)?

28. Why isn't the accumulative impact of all reservoirs and stockponds (Vol 1, Table 3-12, p 166; Table 4-12, p 250; and the Table on F-18, Appendix F.) within the Sierra Vista Subwatershed not being considered?

29. Vol 1A, Plate 11, shows fort boundaries just south of Huachuca City at the junction of Huachuca City and Hwy 90 and East/West Reservations incorrectly...

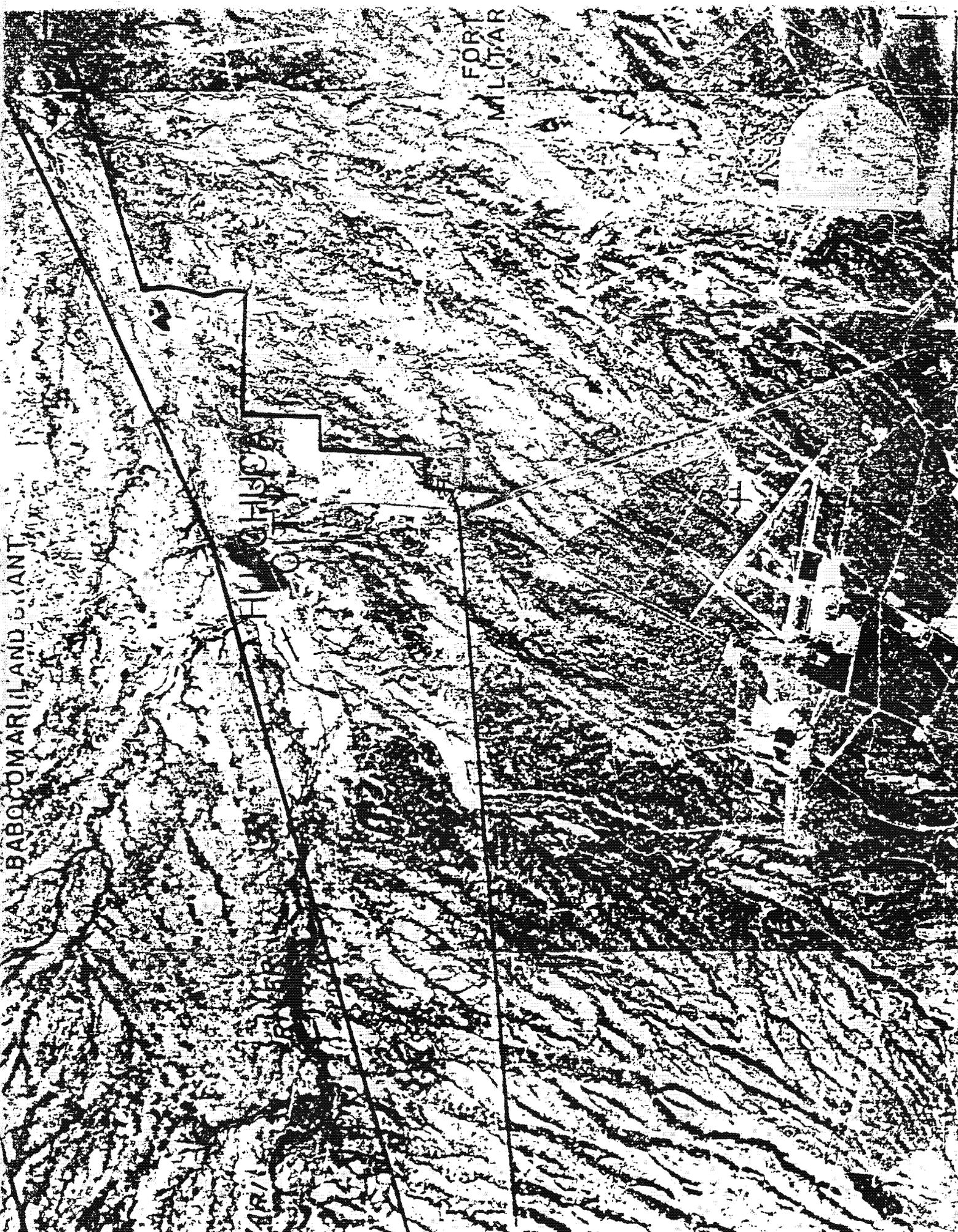
should be

1A Plate 11

BABO COMAR (LAND GRANT)

SHARP

FORT MILITAR



30. Are the construction (deepening existing wells) costs (Vol 180
1, Appendix G, Table G-4, p G-17) due to drawdown going to be a 1-G17-----
part of the decree citing affecting pumpage organizations?
31. Vol 8, p 1, #13, can't find filing No. 39-0014065; can't
find Data Source for 115-00-01.?
32. Vol 1, p 77, Table 2-1, shows Sierra Vista Subwatershed as 112
31.8 M ac-ft; Appendix A, A-2, Table A-7, shows Sierra Vista 1-77-----
Subwatershed as 31.9 M ac-ft. 150
1-A2-----
33. Vol 1, p 91, refers to springs in Garden and Huachuca
Canyons 'is now ponded and not used'. The springs are used for 112
military purposes, maintaining pond levels, fire fighting users, 1-91--1-----
and in conjunction with construction activities, i.e., dust
control. On p 197 (Vol 1), narrative states Ft Huachuca also
diverts water from springs in the Huachuca Mountains for use on
post. Doesn't this contradict what p 91 is stating?
34. Why is the total ac-ft figure on Table 3-12 (Vol 1) for 113
Sierra Vista Subwatershed as 1003.1 and reported on Table 4-12 as 1-166-----
1000.0 and in F-18 the ac-ft figure for Sierra Vista Subwatershed 114
is 3,970? Also, F-18 indicates that there are no reservoirs in 1-250-----
the Sierra Vista Subwatershed as does Table 4-12, p 250, however,
Table 3-12, p 166, indicates several types of reservoirs exiting? 175
1-F18-----
35. Why is it that on p 250, Vol 1, Table 4-12, there is 0.0 114
ac-ft for Mining and in the Zone 2 Well Report, Vol 7, the data 1-250-----
sheets for WFR 111-21-37 and 111-23-38, indicate 2 ac-ft usage?
Additionally, why is F-18 water use for the Sierra Vista 175
Subwatershed usage significantly different from Table 4-12, Water 1-F18-----
Use, cultural only), Vol 1?
36. On Table 4-12, p 250, Vol 1, why is the stream water outflow 114
subtracted from the difference between the supply of water and 1-250-----
the water use, thus creating a 'downdraft'? What does this mean
exactly?

OBJECTIONS

1. Object to all wells in the Zone 2 Well Report, Vol 7, and all Zone 1 wells (Vol 2) within the Sierra Vista Subwatershed as contained in the HSR, dtd, 20 Nov 91.

2. It would be a good position to object to all wells listed in the Catalogued Wells, Vol 8, within the Sierra Vista Subwatershed, contained in the HSR, dtd, 20 Nov 91. (Vol 1, Table 4-12, p 250, shows 460 ac-ft for domestic and Appendix F, p F-18, shows 570 ac-ft.)

114
1-250-----
175
1-F18-----

3. It would be a good position to object to all stockponds and reservoirs within the Sierra Vista Subwatershed as contained within the HSR, dtd, 20 Nov 91. (Vol 1, Table 3-12, p 166, shows 1,003.1 ac-ft; Table 4-12, p 250, shows 1,620 ac-ft; and Appendix F, p F-18, shows 3,970 ac-ft.)

113
1-166-----
114
1-250-----
175
1-F18-----

ANNUAL WATER USE FOR MUNICIPAL WATER SERVICE ORGANIZATIONS*

<u>WESTSIDE</u> <u>SAN PEDRO RIVER</u>	
<u>NAME/WFR (111-)</u>	<u>AC-FT</u>
Antelope Run/23-40	4.0
AZ Water Co/23-33^	933.7
Bella Vista/20-62^	2,906.6
Cloud 9/23-26^	43.7
Cochise/23-25	19.9
Coronado Est/20-51	34.9
Dakota/23-66	8.0
East Slope/23-42	178.5
Horshoe Ranch/23-28	13.1
Hougland/23-29	9.2
Huachuca City/20-50	274.4
Indiada/23-41	10.4
Miracle Valley/23-27	57.1
Nicksville/23-30	34.1
NRB Community/23-56	4.0
Parcel H/23-68	3.0
Pueblo Del Sol/23-34^	360.2
Santa Cruz/19-44	7.3
Sierra Sunset/20-59	19.3
Sierra Vista/20-56^	147.4
Southland Ut/23-23	99.9
Thunder Mt Est/22-29	1.7
Vista Est/23-70	5.0
<u>23 providers</u>	<u>5,175.4+</u>

<u>EASTSIDE</u> <u>SAN PEDRO RIVER</u>	
<u>NAME/WFR (111-)</u>	<u>AC-FT</u>
AZ Water Co/24-59	1,158.9
Holiday Entp/21-31	23.2
Lucky Hills/21-30	2.6
Naco/24-60	72.4
Tombstone/21-32	389.7
<u>5 providers</u>	<u>1,646.8+</u>

+Total of 28 providers using 6,822.2 ac-ft/yr.

^Sierra Vista Area Water Companies: 5 providers with 35 wells producing 4,391.6 ac-ft/yr (Vol 1, p 274)

*Source: Vol ⁷ /, Zone 2 Well Report.

Significant dim^mishment

116
 1-274-----
 and
 116 -
 1-303-----
 1-304-----
 should include
 Huachuca City 111-20-50
 having 5 wells.

PRINCIPAL WATER USERS WITHIN THE SIERRA VISTA AREA

<u>NAME</u>	<u>NO. OF USERS</u>	<u>AC-FT</u>
MUNICIPAL WATER COMPANIES	5	4,391.6
IRRIGATION COMPANIES	0	0.0
INDUSTRIAL COMPANIES	4	300.4
MINING COMPANIES	0	0.0
	<u>9</u>	<u>4,692.0</u>

PRINCIPAL WATER USERS WITHIN THE SIERRA VISTA SUBWATERSHED

<u>NAME</u>	<u>ACRE FEET/YEAR</u>	<u>SOURCE*</u>
MUNICIPAL WATER COMPANIES	6,822.2	1
IRRIGATION COMPANIES	0.0	2
INDUSTRIAL COMPANIES	300.4	1
MINING COMPANIES	2.0	3
IRRIGATION COMPANIES	4,590.0	4
STOCKPONDS	1,460.0	4
RESERVIORS	160.0	4
DOMESTIC	460.0	4
	<u>13,794.6</u>	

- *1. Vol 7, Zone 2 Well Report.
- 2. Vol 1, p 281, 282.
- 3. Vol 1, p 353 & Vol 7, Zone 2 Well Report.
- 4. Vol 1, p 250, Table 4-12.

114
1-250-.....

*Significant Diminishment
Object to Stockponds
and reservoirs on
basis of accumulative
impact on federal
rights*