

MEMORANDUM

TO: Water Right files 57-11711
 FROM: Glen Gardiner
 DATE: November 6, 2012
 SUBJECT: Update to field exam

The field exam for the Hart Creek Ranch identified a change in POD, requiring an amendment to the license. On October 2, 2012, Mrs. Hart came into the State office and worked with Dan Nelson to request map changes and submit the required \$100 payment. The changes are as follows:

- Added 1 acre in Sec 26, NESE. This is part of a pivot not covered under license 57-2278.
- Added 2.8 acres in Sec 26, SESE. This is part of a pivot not covered under license 57-2271.
- Added 4 acres in Sec 25, SWSW. Aerial photos (1992 1 meter) verify this field as cultivated but not planted. LanSat imagery from 1998 and 2000 show the land was irrigated those years. Permit 57-11711 application remarks indicate acres had been historically farmed since 1969 when rights 57-2271 & 57-2278 were applied for but acres were inadvertently omitted from legal description for those water rights.

The total acres for this license are now 29.8 instead of the 22.0 identified during the field exam. The maximum diversion rate increases to 0.60 cfs from 0.44 cfs. The maximum diversion volume increases to 134.1 AF from 99.0 AF.

Updated Field Exam Information:

<u>PLACE OF USE:</u>				IRRIGATION															
Twp	Rge	Sec		NE				NW				SW				SE			
				<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>
04S	01W	25												26.0					26.0
04S	01W	26														1.0		2.8	3.8

Total Acres: 29.8

FLOW CALCULATIONS .02 cfs/acre x 29.8 acres = .06 cfs

VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Headgate Requirement}) = 29.8 \times 4.5 = 134.1 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = .44 \times 260 \times 1.9835 = 226.9 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 134.1 \text{ AF}$$

SWNE SENE SWNW SENW SWNE

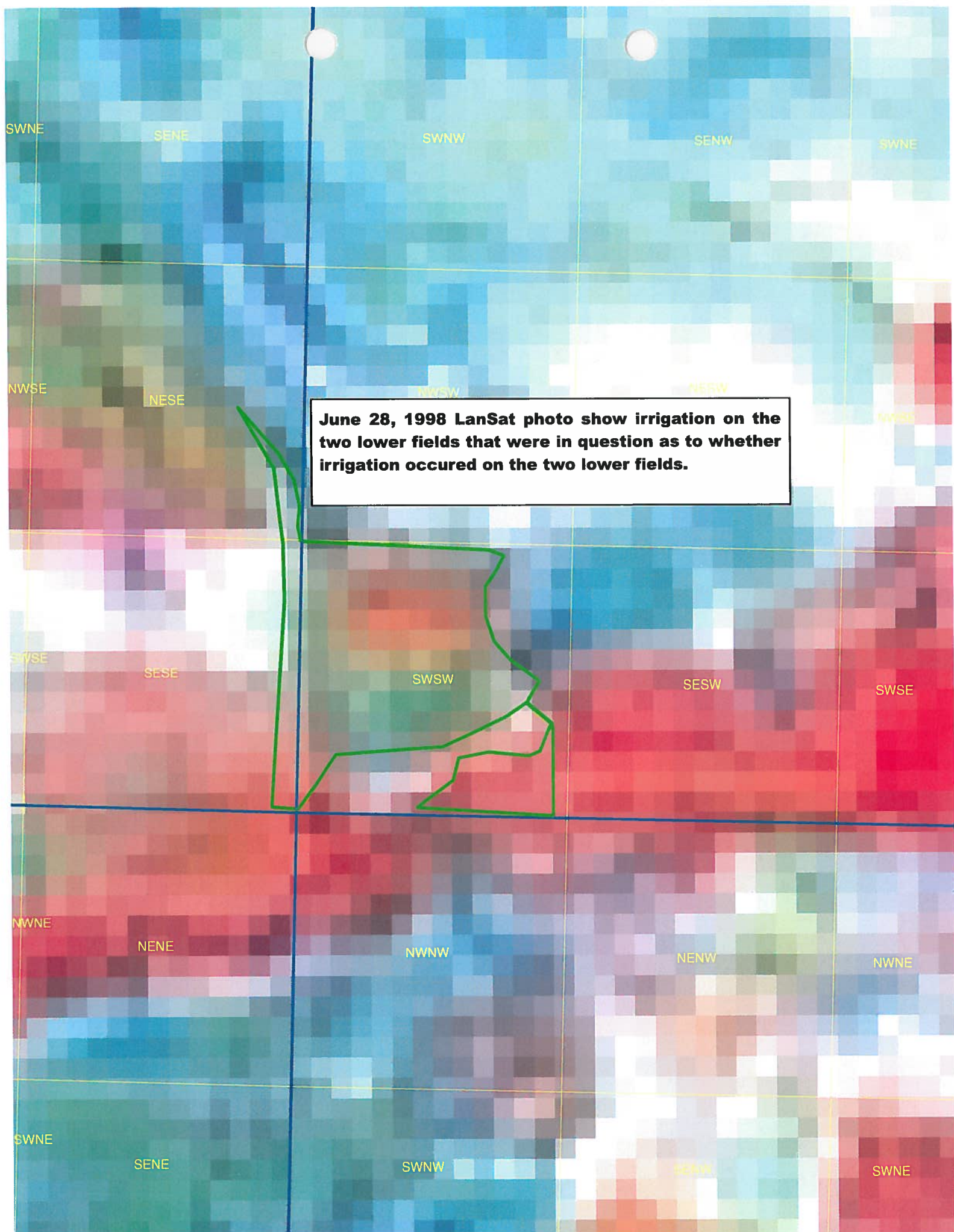
NWSE NESE NWSW NESW NWSE

SWSE SESE SWSW SESW SWSE

NWNE NENE NWNW NENW NWNE

SWNE SENE SWNW SENW SWNE

August 5, 2000 LanSat photo show irrigation on the two lower fields that were in question as to whether irrigation occurred on the two lower fields.



June 28, 1998 LanSat photo show irrigation on the two lower fields that were in question as to whether irrigation occurred on the two lower fields.