

IRRIGATION FLOW RATE QUESTIONNAIRE

THIS INFORMATION IS REQUIRED FOR ANY ADJUDICATION CLAIM(S) FOR WHICH THE IRRIGATION FLOW RATE CLAIMED IS MORE THAN 0.02 CFS PER ACRE (ONE EXCEPTION IS THAT 0.03 CFS PER ACRE MAY BE ALLOWED FOR IRRIGATION OF UP TO 5 ACRES).

CLAIM NO(S). 73-4097
 NAME Ralph Hatch - Ruth Hatch
 ADDRESS 434 Polysimoor Rd.
 PHONE 208-876-4230

1. TOTAL IRRIGATED ACRES SHOWN ON CLAIM(S) REFERENCED ABOVE 653 ACRES.
2. SHOW THE NUMBER OF ACRES OF CROPS GROWN FOR YOUR IRRIGATION SYSTEM(S) DURING A TYPICAL SEASON

	Border	Furrow	Corrugation	Sprinkler	Contour Ditch	Other
Alfalfa				232.7		
Beans						
Field Corn						
Silage						
Spring Grain						
Winter Wheat						
Orchard						
Pasture					420.3	
Potatoes						
Sugar Beets						
Other						

PLEASE COMPLETE ITEMS 3 THROUGH 8 FOR EACH OF THE IRRIGATION SYSTEM TYPES SPECIFIED ABOVE

3. BORDER (COMPLETE BELOW BASED ON PEAK USE)

inflow to border (cfs)	border width (feet)	border length (feet)
field slope (%)	set time (hours)	number of borders per set
frequency (days)		

4. FURROW (COMPLETE BELOW BASED ON PEAK USE)

inflow to furrow (gpm)	furrow spacing (inches)	furrow length (feet)
field slope (%)	set time (hours)	number of furrows per set
frequency (days)		

5. CORRUGATION (COMPLETE BELOW BASED ON PEAK USE)

inflow to corr. (gpm)	corr. spacing (inches)	corr. length (feet)
field slope (%)	set time (hours)	number of corrugations per set
frequency (days)		

6. SPRINKLER (COMPLETE BELOW BASED ON PEAK USE) WHEEL LINE / HAND LINE

5 gpm	Field # 3	40'
average nozzle flow (gpm)		nozzle spacing (feet)
1720' total	60'	lateral spacing (feet)
1 lateral	12 Hrs	set time (hrs)
number of laterals per set		
10		
frequency (days)		

7. CONTOUR DITCH (COMPLETE BELOW BASED ON PEAK USE)

inflow to ditch (cfs)	field slope (%)
ditch length (feet)	distance between ditches (feet)
number of ditches per set	set time (hours)
frequency (days)	

8. OTHER IRRIGATION SYSTEM TYPE (specify)
(COMPLETE BELOW BASED ON PEAK USE)

inflow (cfs)	total area irrigated per set (acres)
field slope (%)	set time (hrs)
frequency (days)	

3. BORDER (COMPLETE BELOW BASED ON PEAK USE)

inflow to border (cfs) _____ border width (feet) _____ border length (feet) _____
 field slope (%) _____ set time (hours) _____ number of borders per set _____
 frequency (days) _____

4. FURROW (COMPLETE BELOW BASED ON PEAK USE)

inflow to furrow (gpm) _____ furrow spacing (inches) _____ furrow length (feet) _____
 field slope (%) _____ set time (hours) _____ number of furrows per set _____
 frequency (days) _____

5. CORRUGATION (COMPLETE BELOW BASED ON PEAK USE)

inflow to corr. (gpm) _____ corr. spacing (inches) _____ corr. length (feet) _____
 field slope (%) _____ set time (hours) _____ number of corrugations per set _____
 frequency (days) _____

6. SPRINKLER (COMPLETE BELOW BASED ON PEAK USE) *Pivots Fld #1 & #2*

Pivot Fld #1 - 750 gpm Pivot Fld #2 - 1135 gpm

average nozzle flow (gpm) _____ nozzle spacing (feet) _____
Pivot length Fld #1 1,120' Pivot length #2 1490'
 lateral length (feet) _____ lateral spacing (feet) _____
N/A
 number of laterals per set _____ set time (hrs.) _____

Pivot Fld #2 Revolution time = 5 days continuous during peak use
 frequency (days) *Fld #1 Revolution time 3 days Run continuous during peak use*

7. CONTOUR DITCH (COMPLETE BELOW BASED ON PEAK USE)

2.5 cfs / ditch - head gate _____ *3%* _____ field slope (%)
 inflow to ditch (cfs) _____ *2 = 180'* _____ distance between ditches (feet)
7,500 ft _____ *12 hrs* _____ set time (hours)
 ditch length (feet) _____
3 _____
 number of ditches per set _____
10 days _____
 frequency (days) _____

8. OTHER IRRIGATION SYSTEM TYPE (specify) _____
 (COMPLETE BELOW BASED ON PEAK USE)

inflow (cfs) _____ total area irrigated per set (acres) _____
 field slope (%) _____ set time (hrs.) _____
 frequency (days) _____

9. CONVEYANCE FROM SOURCE TO FARM

UNLINED DITCH-SPECIFY SOIL TYPE

NRCS Soil Survey map unit #99 Very gravelly sand

10-12 miles
length (feet)

1-2 ft
ave. depth from land surface (inches)

6 ft
ave. top width of water surface (inches)

LINED DITCH-SPECIFY TYPE OF LINING

length (feet)

ave. depth from land surface (inches)

ave. top width of water surface (inches)

PIPELINE

length (feet)

diameter (inches)

IS THIS CONVEYANCE SYSTEM SHARED BY OTHER WATER USERS? Yes

IF YES, PLEASE DESCRIBE OR SKETCH THE SYSTEM SHOWING THE NUMBER OF WATER USERS, LOCATION OF HEADGATES, LENGTHS ETC.

10. ON-FARM DISTRIBUTION SYSTEM-DRAW A SIMPLE SKETCH OF YOUR ON-FARM WATER DISTRIBUTION SYSTEM. AN AERIAL PHOTO/FARM PLAN WITH THE IRRIGATION SYSTEM SKETCHED ON IT MAY BE USED. THIS SKETCH MUST INCLUDE THE FOLLOWING INFORMATION FOR EACH REACH: LENGTH, TOP WIDTH OF WATER SURFACE, DEPTH FROM LAND SURFACE, SOIL TYPE OR LINING, AND PERCENT OF TOTAL FLOW DURING USE.

Soil type gravelly loam
canal - 7,900 ft
ditch - 7,800 ft runs along canal with at least
^{do four} thru ditch contour ditches below basically
the same length.

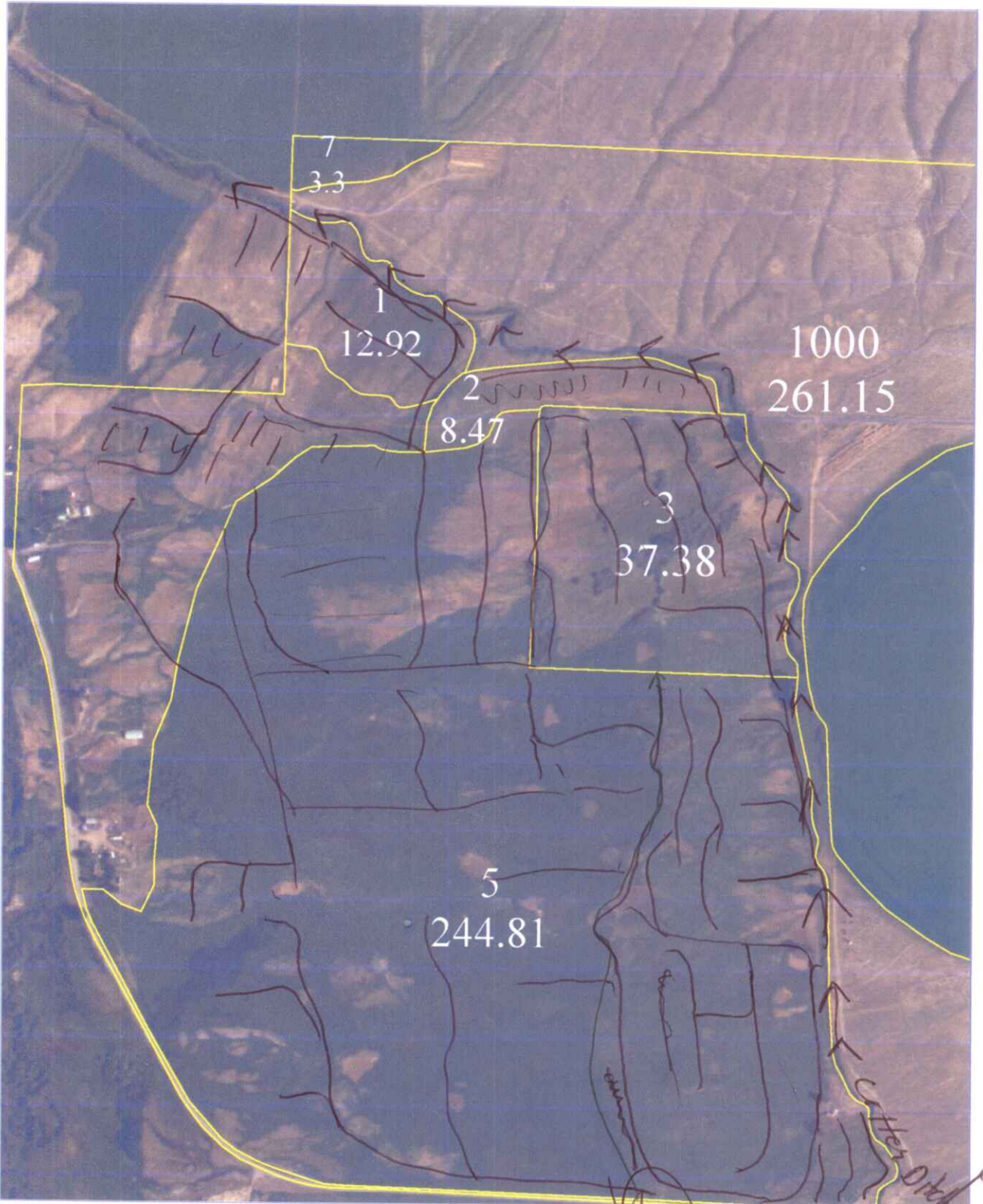
11. HAVE YOU CHANGED YOUR IRRIGATION SYSTEM FROM THE ONE HISTORICALLY USED? (FOR EXAMPLE, LAND LEVELING, CHANGING LENGTH OF RUNS, CHANGE FROM FURROW TO SPRINKLER, ETC.)

IF YES, PLEASE DESCRIBE:

12. HAVE YOU HAD ANY IRRIGATION SYSTEM DESIGN/EVALUATIONS OR FARM SOIL SURVEYS COMPLETED BY THE SOIL CONSERVATION SERVICE, PRIVATE CONSULTANTS, OR IRRIGATION EQUIPMENT DEALERS? IF YES, PLEASE DESCRIBE OR ATTACH COPIES

13. PLEASE INCLUDE ANY FURTHER COMMENTS WHICH WILL AID IN THE EVALUATION OF YOUR WATER REQUIREMENTS.

~~This~~ The soil on this ranch is very glauclay loam, according to NRCS Soil Survey Map unit number 99. We have to consolidate these water sources to keep the production and in good condition. The Center ditch loses water and requires extra flow to deliver our decreed rights.



United States Department of Agriculture
Farm Service Agency

Lemhi/North Custer
July 11, 2006

FSN 4187-476

Legend

- Wetlands
- Fields, Boundaries

0 420 840 1,680 2,520 3,360 Feet

Handwritten note: 400' long 51' wide

Handwritten note: Cutter Ditch

Handwritten note: 405' x 750'