

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 22-07472

1. Owner: GARTH SATTON FARMS INC

Phone No. 356-6630
351-6630

Current Address: 1295E 10000 S REXBURG ID 83440

2. Accompanied by: Garth Sutton

EXAM DATE: 7-9-1999

Address: OWNER

Phone No. 6-17-2004
Re measurement

Relationship to Permit Holder:

3. Source: GROUNDWATER

tributary to

B. OVERLAP REVIEW

1. Other water rights with the same place of use: *NONE*

2. Other water rights with the same point of diversion: 22-07092

C. DIVERSION AND DELIVERY SYSTEM

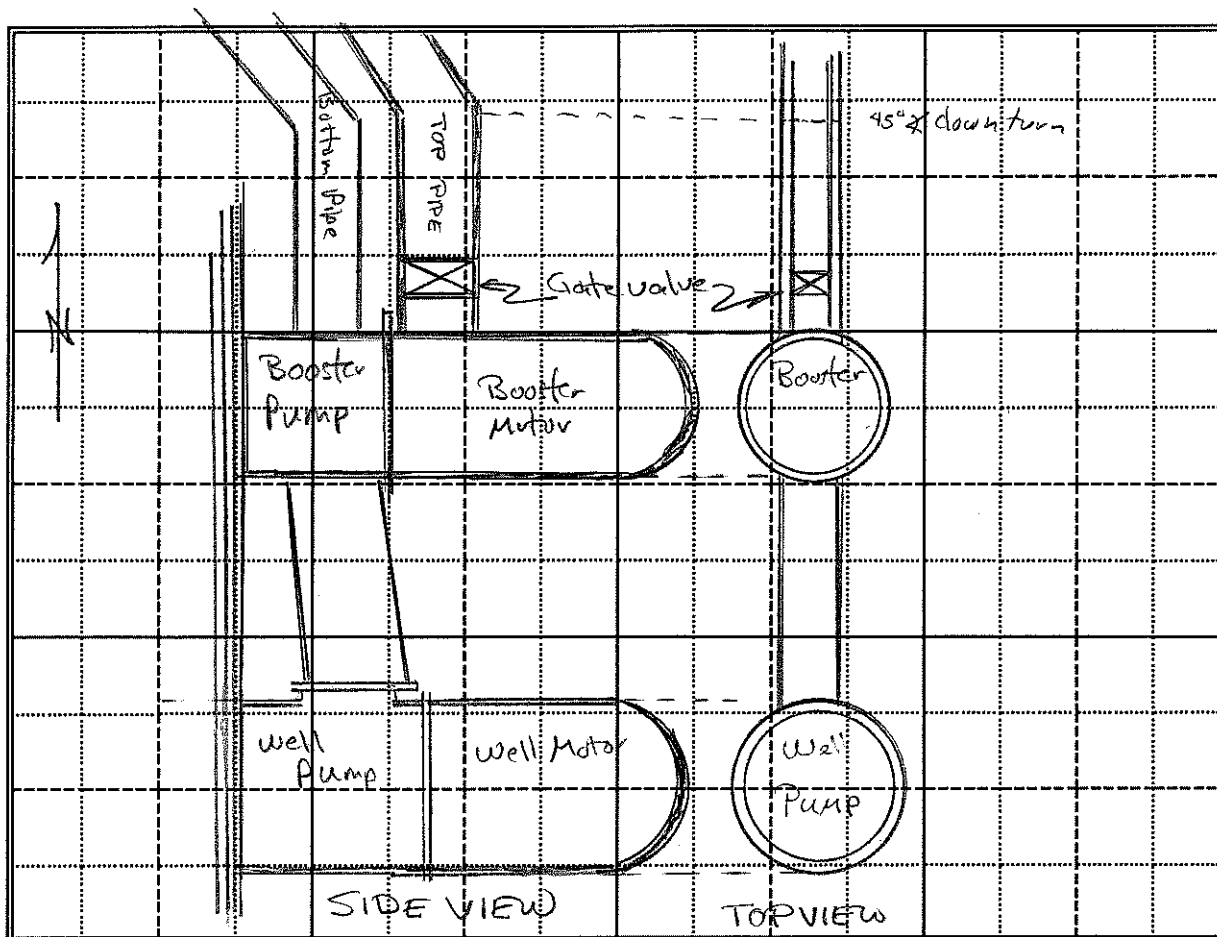
1. Point(s) of Diversion:

[illegible]

2. Place(s) of Use: *P/u under Lic 22-07092 / 22-7472* Indicate Method of Determination *FSA Aerial/on site*

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
4N	41E	6		L-2 39	35		L-3 39	L-4 39	L-5 30	40	12					10			244
5N	41E	31											L-4 39	39	39	39	39	39	234
		32										39	38	39	7		39		162
RECOMMENDED PLACE OF USE																			~~640~~
4N	41E	6									12					10			22
5N	41E	32										17	16	39	7		39		~~118~~
																			~~140~~

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = _____

____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

____ Aerial Photo Attached (required for irrigation of 10+ acres)

____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Well	GE	600	DLJ46023	Peerless	# 230822
Booster	GE	200	HKJ821188	Byron-Jackson	# 74150758

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Flow Meter Station		Dieterich	7517-316-55			

2. **Measurements:** From 1979 Exam id = 12.5" 19" difference

E. NARRATIVE/REMARKS/COMMENTS

Well pump booster to mainline to 6 (1/4 mile) wheel & hand lines - too low pressure center pivot

@ 900 gpm/center pivot and 14 (1/4 mile) sprinkler lines @ ≈ 150 gpm/1/4 mile line

$$Q = 2(900) \text{ gpm} + (6)(150) \approx 2700 \text{ gpm}$$

* Note: Permit holder concurs with flow rate $Q = 2719.7$ gpm under this system

6-17-2004 Recommend using original diversion rate (6.06 cfs) from 7-9-1999 Field Exam

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method:

C for 12" annular = 3.99

$$Q = \left[(id)^2 (C) \sqrt{\text{inches of water}} \right] \div 448.8 = (12.5)^2 (3.99) \sqrt{19} = 6.06 \text{ cfs}$$

total Q = 6.06 cfs

$$Q_{22-7092} = 5.84 \text{ cfs}$$

$$Q_{\text{LIMITED BY PERMIT}} = 2.80 \text{ cfs}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 140 \text{ ac} (3.5) = 490 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 2.8 \text{ cfs} (1.9835) 214 = 1188.5$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 490$$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION	4/1	10/31	2.80	490
Totals:			2.80	490

2. Recommended Amendments 22-07472 in conjunction with 22-07092 shall not exceed 6.06 cfs

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None
☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name KEITH C. WILSON Date 7-9-1999

Reviewer _____ Date _____

SEAL

MEMORANDUM

Date: November 03, 2004
To: Water Right File 22-7472
From: kwilson
Re: Field Report Narrative

The same point of diversion is used for both 22-7472 and water right 22-7092. The diversion system is a well with a 600 hp G.E. electric motor (S/N DLJ416023) and Peerless Pump (S/N 230822) with a mainline to a booster with a 200 hp G.E. electric motor (S/N HKJ821188) and Byron-Jackson Pump (S/N 74150758). The irrigation system consists of pivots, wheel lines, and hand lines with sprinklers.

A measured flow rate of 6.06 cfs (2717.5 gpm), with an estimated flow calculated at 6.02 cfs (2700 gpm), was made during the initial field exam on July 9, 1999. On February 2, 2000, Garth Sutton (permit holder) came into the office and requested a re-measurement. Mr. Sutton had to have the pump pulled and repaired after the initial field exam had been completed.

A second measurement was conducted on June 17, 2004. The system motors and pumps were confirmed to be the same as when the initial field exam was conducted. The maximum observed flow rate was 2715 gpm (6.05 cfs), and the maximum recorded flow rate was 2708.9 gpm (6.04 cfs).

Based on the two field exam measurements it is recommended using the original measurement of 2717.5 gpm (6.06 cfs) in the licensing of 22-7472.

State of Idaho
Department of Water Resources
APPLICATION FOR AMENDMENT

(For Licensing Purposes)

WATER RIGHT NO. 22-07472

DRAFT

Date of Priority: November 30, 1983

Maximum Diversion Rate: 2.80 CFS

Maximum Diversion Volume: 490.0 AF

Comes now GARTH SUTTON FARMS INC
1295 E 10000 S

REXBURG ID 83440 and represents to the Director of the Idaho Department of Water Resources that he is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho No. 22-07472, and requests that the permit be changed as follows:

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 11/01	2.80 CFS	

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SE1/4SW1/4 Sec. 31, Twp 05N, Rge 41E, B.M. MADISON County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N 41E 6									12.0						10.0		22.0
05N 41E 32									17.0	16.0	39.0		7.0		39.0		118.0

Total Acres: 140

Permit holder asserts that no one will be injured by such change and that such change will be made at permit holder's own risk. Signed this _____ day of _____, 200__.

(Signature)

FOR DEPARTMENT USE ONLY

Preliminary check by _____ Fee = _____ Received by _____ # _____ Date _____

DRAFT

State of Idaho
Department of Water Resources
APPLICATION FOR AMENDMENT

(For Licensing Purposes)

WATER RIGHT NO. 22-07472
ACTION OF THE DEPARTMENT OF WATER RESOURCES

I, Karl J. Dreher, of the Department of Water Resources hereby approve the
above Application for Amendment for Permit No. 22-07472 with the following:

CONDITIONS OF APPROVAL

1. The issuance of this right does not grant any right-of-way or easement across the land of another.
2. Prior to the diversion of water under this right a flow measurement port or other device as specified by the Department shall be installed to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.
3. The rate of diversion of water for irrigation under this right and all other water rights on the same land shall not exceed 0.02 cubic feet per second for each acre of land.
4. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
5. The use of water under this right shall not give rise to any claim against the holder of a senior water right based upon the theories of forfeiture, abandonment, adverse possession, waiver, equitable estoppel, estoppel by laches or customary preference.
6. The Director retains jurisdiction of the right to incorporate the use into a water district, require streamflow augmentation or other action needed to protect prior surface water and groundwater rights.

Witness my hand this _____ day of _____, 2004.

KARL J. DREHER
Director



22-7472