

Permit No: 22-7675

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DEPARTMENT OF
WATER RESOURCES

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-7675

Exam Date: 6/20/2002

1. Current Owner: GARTH SUTTON
1295 E 10000 S
REXBURG ID 83440
(208)356-6630

2. Accompanied by: Garth
Phone No:
Address:
Relationship to Permit Holder:

3. SOURCE
GROUND WATER

TRIBUTARY

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NONE
2. Other water rights with the same point of diversion: NONE

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NW1/4SE1/4
MADISON County

Sec. 31, Twp 05N, Rge 41E, B.M.

Method of Determination: FE

2.

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	4		22.0 L 2			33.0 L 3	34.0 L 4	39.0	27.0	40.0	40.0	35.0	22.0		2.0			294.0
04N	41E	5	28.0 L 1			17.0									32.0			14.0	91.0
05N	41E	32	16.0			38.0									25.0	31.0		27.0	137.0
05N	41E	33					12.0	31.0	39.0	33.0	22.0	39.0	39.0	32.0			14.0		261.0

Total Acres: 783

Method of Determination:

3. ☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☐ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
	GE	600hp		Johnston	
	US Elec	300hp		Aurora	

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements:

sonic meter 6.12 CFS

E. FLOW CALCULATIONS

Measured Method:

sonic meter

☐ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.5 \times 783 = 2740.5$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 2598$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 2598$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

well/pump to pivots and some handlines 600 HP GE motor/johnston pump and 300 us electrical motors/aurora booster

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 10/31	6.120 CFS	2,598.00 AF
<u>Totals:</u>		6.120 CFS	2,598.00 AF

2. Recommended Amendments

☒ 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

DAVE CARLSON

Date

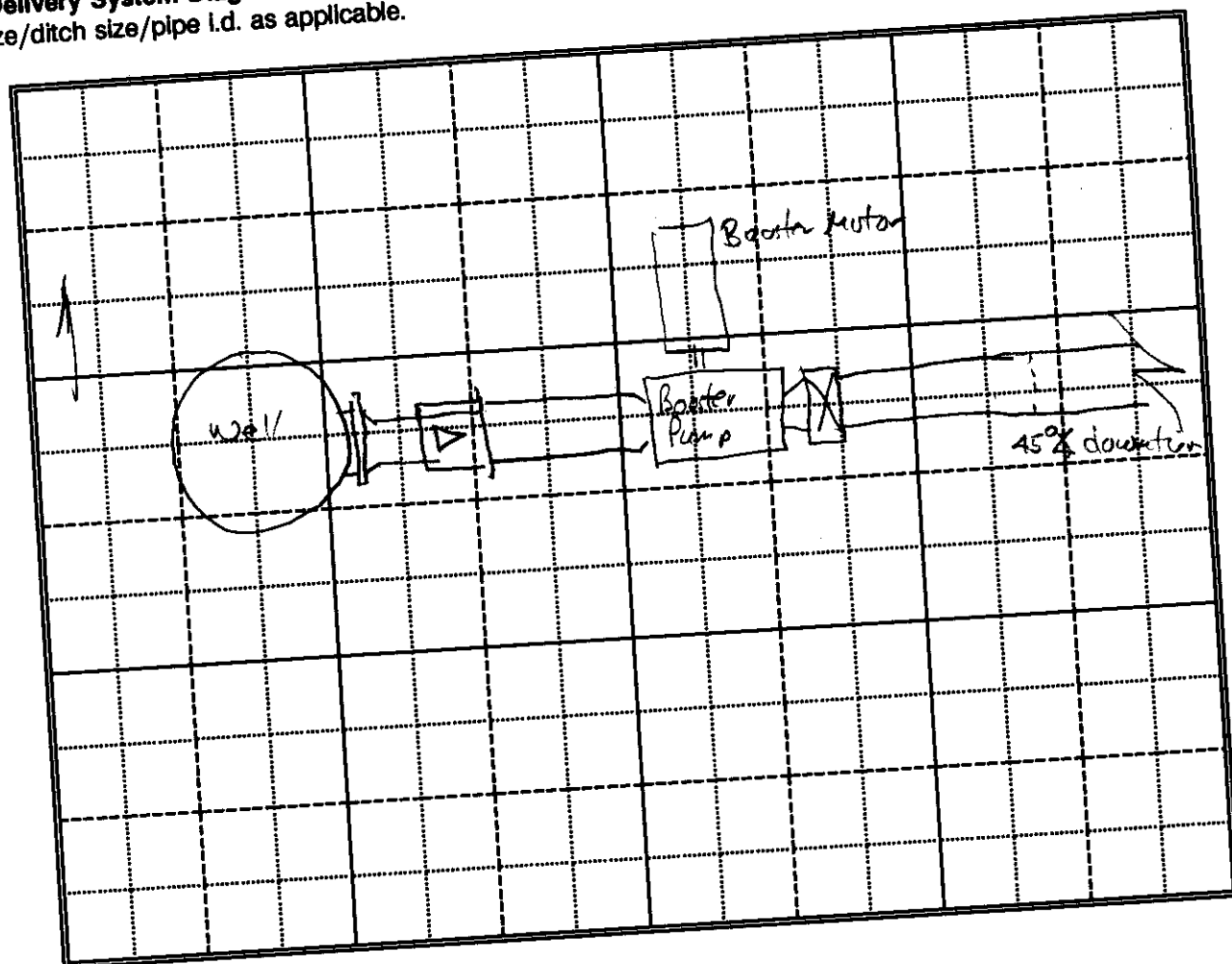
Kerth Wilson
10/25/2024

Reviewer

Date

1. Volume Calculations for Irrigation

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate well 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	BKJ20609	Johnston	10.02" od.
Booster	US Electric	300	641370/ W03W 0400426R	Aurora	93-02134

*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
Flowmeter	SI011	Fug Electric	FLC SI011	grade 10 240333	FLD-12	
FLOWMETER	SONIC	Polysonic	TF-P	149743 26867	-	-

LOG NAME: **22-7675**

START: 06-20-2002 10:40

END: 06-20-2002 10:50

INTERVAL:00:01:00

06-20-2002 10:40:00

+8.077E+0 ft/s
+2.745E+3 gal/m
+6.117E+0 ft3/s
+TOTAL 0000000 gal
-TOTAL 0000000 gal
NORMAL

06-20-2002 10:41:00

+8.003E+0 ft/s
+2.720E+3 gal/m
+6.061E+0 ft3/s
+TOTAL 0002111 gal
-TOTAL 0000000 gal
ABNORMAL

06-20-2002 10:42:00

+7.945E+0 ft/s
+2.700E+3 gal/m
+6.017E+0 ft3/s
+TOTAL 0003963 gal
-TOTAL 0000000 gal
NORMAL

06-20-2002 10:43:00

+7.878E+0 ft/s
+2.678E+3 gal/m
+5.967E+0 ft3/s
+TOTAL 0006031 gal
-TOTAL 0000000 gal
NORMAL

06-20-2002 10:44:00

+7.977E+0 ft/s
+2.711E+3 gal/m
+6.042E+0 ft3/s
+TOTAL 0008124 gal
-TOTAL 0000000 gal
NORMAL

06-20-2002 10:45:00

+8.050E+0 ft/s
+2.736E+3 gal/m
+6.097E+0 ft3/s
+TOTAL 0009742 gal
-TOTAL 0000000 gal
ABNORMAL

06-20-2002 10:46:00

+8.017E+0 ft/s
+2.725E+3 gal/m
+6.072E+0 ft3/s
+TOTAL 0011311 gal
-TOTAL 0000000 gal
NORMAL

06-20-2002 10:47:00

+7.842E+0 ft/s
+2.665E+3 gal/m
+5.939E+0 ft3/s
+TOTAL 0013349 gal
-TOTAL 0000000 gal
ABNORMAL

06-20-2002 10:48:00

+7.995E+0 ft/s
+2.717E+3 gal/m
+6.055E+0 ft3/s
+TOTAL 0014827 gal
-TOTAL 0000000 gal
NORMAL

06-20-2002 10:49:00

+7.795E+0 ft/s
+2.650E+3 gal/m
+5.904E+0 ft3/s
+TOTAL 0015947 gal
-TOTAL 0000000 gal
ABNORMAL

06-20-2002 10:50:00

+7.712E+0 ft/s
+2.621E+3 gal/m
+5.841E+0 ft3/s
+TOTAL 0017685 gal
-TOTAL 0000000 gal
ABNORMAL

ABNORMAL Flow readings occurred when applicant tried to increase flow by opening up additional lines. Flow readings remained about the same but were all in the ABNORMAL range.

Average Flow = gpm =
 cfs

Max. Flow = 2745 gpm =
6.12 cfs

22-07675

POINT OF
DIVERSION

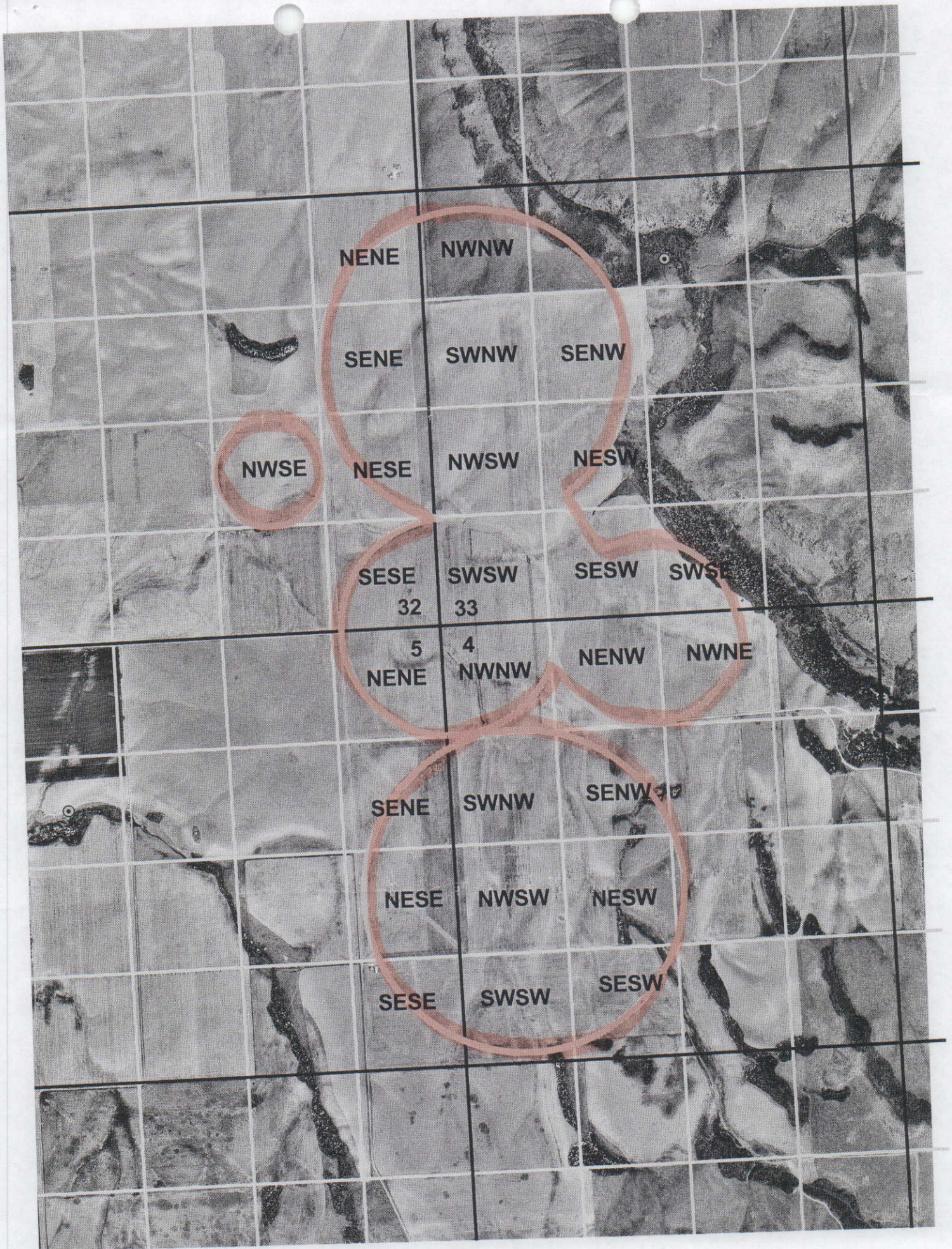


WELL

BOOSTER



22-07675



22-7675