

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-7515

Exam Date: 7/8/2013

1. Current Owner: SUMMERCO INC
27 N 3000 E
SUGAR CITY ID 83448
(208)356-7314

2. Accompanied by: N/A

3. SOURCE

GROUND WATER

TRIBUTARY**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 22-2258A, 22-2295, 22-10646, 22-10777, 22-13955
2. Other water rights with the same point of diversion: 22-2258A, 22-2295, 22-10646, 22-10777, 22-13955

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER	NW1/4SW1/4	Sec. 25, Twp 06N, Rge 40E, B.M.	MADISON County
GROUND WATER	SW1/4SW1/4	Sec. 26, Twp 06N, Rge 40E, B.M.	MADISON County
GROUND WATER	NW1/4NE1/4	Sec. 26, Twp 06N, Rge 40E, B.M.	MADISON County

Method of Determination: GPS during field exam

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	
06N	40E	22	5.2		1.6	31.0									36.0	8.4	4.8	37.0	124.0
06N	40E	23	12.0																12.0
06N	40E	24													35.0	18.0	26.0	39.0	118.0
06N	40E	25	40.0	24.0	29.0	38.0					29.0	40.0	39.0	38.0		39.0	15.0		331.0
06N	40E	26									40.0	39.0	39.0	40.0					158.0

Total Acres: 743

Method of Determination: Aerial photography. Matches acres found within the permit POU under other water rights during SRBA field exams.

3. ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use.

☒ Aerial Photo Attached.

☒ Photo of Diversion and System Attached

4. Well Info:

Existing wells: See attached

Third Well (Sec 25): 350 hp US Electrical Motors with a 125 hp GE booster

D. FLOW MEASUREMENTS

No measurement conducted. Existing water rights authorize a diversion rate that exceeds the measured capacity of the two original wells (located in Section 26) plus the theoretical capacity of the third well (located in Section 25). An apparent error in SRBA processing led to water rights with diversion rates exceeding the physical capacity of the existing system.

E. FLOW CALCULATIONS

See attached theoretical calculations for third well (Sec 25)

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 743 \text{ acres} \times 3.5 \text{ af/acre} = 2600.5 \text{ acre-feet}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 8.5 \text{ cfs} \times 214 \text{ days} = 3608 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 2600.5 \text{ acre-feet}$$

G. NARRATIVE/REMARKS/COMMENTS

Three wells/pumps to pivots and sprinklers. Water rights 22-2258A, 22-2295, 22-10646, 22-10777 and 22-13955 overlap this right. These rights already authorize the diversion of 22.34 cfs from the two wells located in Section 26. This right authorizes diversion from the third well.

The two wells in Section 26 were measured at 10.31 cfs in 1969. Water rights 22-10646 and 22-10777 were beneficial use claims in the SRBA which authorized an additional 12 cfs above and beyond the 10.31 measured in 1969. No field measurement was conducted in the SRBA. Combined rate limits were inadvertently left off of the SRBA rights. Consequently, the existing rights already authorize far more cfs than the physical capacity of the system.

License 22-7515 will be issued with the full permitted rate, but will be limited to a combined rate of 22.37 cfs (the total combined rates authorized under existing rights). The Place of use for this license is the same as the SRBA place of use for the QQs on the permit.

The 3rd well in section 25 NWSW is a 350 hp US Electrical motors pump with a 125hp GE booster and 2 75hp Baldor Reliance boosters. The theoretical calculation would be 7.15 CFS.

This license will be issued for the three wells and the permitted place of use with no additional CFS from what was decreed in the SRBA.

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	8.500 CFS	2,600.50 AF
	<u>Totals:</u>	8.500 CFS	2,600.50 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 7/10/2013
Reviewer _____ Date _____

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 22-7515

Reviewer:

Date of Review:

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	350	0	0
BOOSTER HORSEPOWER	275	0	0
PUMPING LEVEL	400	0	0
DISCHARGE PRESSURE	60	0	0
RATE OF FLOW (cfs)	7.15	#DIV/0!	#DIV/0!

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions:

%70 efficiency.

No Friction

Examiners Notes:

8825 NWSN WELLS

22-7515



Water Right No(s). A22-2295, A22-2258A + A22-10646

Well # 222295 - Summerco Inc

GPS data. 2683907
1403984

GPS File # - 222295

GPS DATA:

(Existing)

Tag # A0012244 Location: on metal power panel box

Diversion Data:

Source: Groundwater Trib to: _____

MOTOR

Make: U.S. Motors Model: _____ Hp: 250

SN: 51417296 Booster - U.S. Motors 100 Hp
ID # - C2849-G2-273

PUMP

Make: Peerless Model: _____ Disch: _____

SN: NA

NOTES:

- 1/ This well is 68' south of well # 222295-2 which belongs to Summer Farm & Ranch
c/o Danny Summers. Summerco Inc is c/o Gary Summers.
- 2/ Right 22-2258A needs to be prorated based on acres owned.
- 3/ This system is well + pump + booster to pivots. This well is connected to
well # 222295-3. Claimants state pre-1987 connection.

Field Exam Date: 1-17-2006 Agent: HLW

Water Right No(s). A22-2295, A22-22584 & A22-10646

Well # 222295-3, Summarco Inc

GPS data - 268 4671
1405048

GPS File #
222295-3

GPS DATA:

Tag # A0016317 Location: on shed post

Diversion Data:

Source: Groundwater Trib to: _____

MOTOR

Make: U.S. Motors Model: _____ Hp: 600
SN: ID# - C09-02196743-100R-01

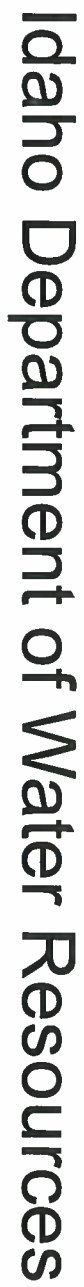
PUMP

Make: National Model: _____ Disch: _____
SN: N/A

NOTES:

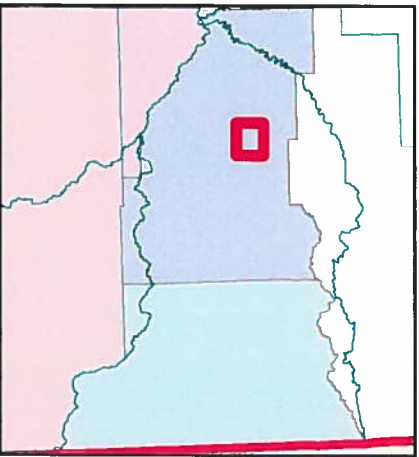
This well is a pre-1987 connection to well #222295,
according to claimant's son Rhett Summers. Rhett verified P.O. & address
& phone # for Summarco Inc. Should be in c/o Gary Summers, his dad.
Gary is gone for winter. Rhett's cell phone is 390-9314.
(*) Evidence of priority for A22-10646 was requested!

Field Exam Date: 1-19-06 Agent: D. L. Jones



Water Right
22-7515
(IRRIGATION)

- Point of Diversion
 - Place of Use
 - State Outline
 - Townships
 - PLS Sections
 - Quarter Quarters



**Madison County
IDWR Basin 22**

Prepared by Carlson, Dave

2009 Aerial Photography

