

Total Acres: 74

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</u>		<u>Pump Serial No. or Discharge</u>	
<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>
well	US Electrical	80	ID # Q9479-00G-602

<u>Pump Make</u>	<u>Size</u>
John Deere SN 346341 T	

*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>
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2. Measurements:

no measurements taken

E. FLOW CALCULATIONS

Attached

_____ Additional Computation Sheets

Measured Method: theoretical flow calculation using: 80 hp motor, 76.3 ' dynamic pumping level from well log, 10 psi – IDWR assumption for open discharge from well.

[8.8][80 hp] [0.7]

$76.3 + [10 \text{ psi} \times 2.31] = 492.8 / 99.4 = 4.96 \text{ cfs}$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 74 \times 4.5 = 333 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 1.48 \times 260 \times 1.9835 = 763.3$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 333 \text{ afa}$$

2. Volume Calculations for Other Uses: **not applicable****G. NARRATIVE/REMARKS/COMMENTS**

Proof of beneficial use was timely filed and correct fee was paid. This is an M or moratorium well so it supplies ground water to supplement the Wilder Irrigation District surface water. Douglas Norris said the supplemental ground water was not used last year and is only used about every few years during the latter part of the irrigation season, from August to November. The system was not operating the day of the exam - it was too early in the season. The well used to be powered by a diesel motor. The old diesel tank is still seen by the well. However, several years ago, Mr. Norris started using the PTO, power take off, from his tractor to power the pump.

There is an 80 hp submersible pump set at 160 feet below ground surface [bgs]. The water is pumped through 8 inch steel and PVC pipe to a concrete vault with a 2 foot Cipoletti weir with a 1 foot crest. Mr. Norris stated that he would power the PTO up or down to maintain the 2.7 foot weir measurement required for 74 inches of water for the 74-acre place of use. From the weir box, the water is pumped to a series of PVC and concrete pipes and ditches to gravity irrigate the fields. See the detail provided in the field exam map of the diversion and delivery system.

A theoretical flow calculation, using a minimum pressure of 10 psi, the pumping level from the log of 76.3 feet bgs and the 80 hp pump resulted in flow of 4.96 cfs. This indicates the system is capable of produces the 1.48 cfs permitted and I recommend that the license be issued for the 1.48 cfs diversion rate. The volume licensed is recommended to be 333 afa using the IDWR standard of 4.5 cfs for 74 acres.

Mr. Norris said that the motor and pump have not been changed so I used the specs found in the drought well inventory in this report.

There are no other overlapping water rights except for the Wilder surface water.

The season of use permitted was 3/15 to 11/15, the standard when the permit was issued. I recommend that the current standard of 3/1 to 11.15 be the licensed season of use.

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

Condition 066 should be deleted and 01M added.

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	1.480 CFS	333.00 AF
<u>Totals:</u>		1.480 CFS	333.00 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 Wong Chao Date 4-17-12
Reviewer _____ Date _____

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

LESSER OF FOUR CHOICES

1) Permit amount	<u>1.48</u>	cfs	&/or	_____	af storage
2) Beneficial use limit	<u>1.48</u>	cfs	&/or	_____	af storage
3) System measurement	<u>4.96</u>	cfs	&/or	_____	af storage
4) Proof fee amount	<u>2.0</u>	cfs	&/or	_____	af storage
Recommended Amount	<u>1.48</u>	cfs	&/or	_____	af storage

NOTES

1) Can never exceed permit amount.

2) Beneficial use limits are recognized standards: 0.03 cfs for up to 5 acres, 0.02 cfs beyond 5 acres, stockwater chart, in-house domestic chart etc. Some exceptions acceptable if already approved in permit: excessive rate for parks etc.

3) System measurement can be actual measurement reflecting typical operations or theoretical measurement or some combination of both if actual measurement does not reflect true capacity of system based on other supporting information. Be cautious about using just theoretical measurement to limit the amount of water.

4) Confirm correct proof fee was paid. See "wr field exams/proof fees-2 schedules" for pre 11/1/1991 schedule and for on/after 11/1/1991 schedule.

If permit includes rate of flow and storage, fee is the greater amount for those two categories. Example with current filing fees:

1.0 cfs = \$100

15 af = \$50

required fee = \$100

If proof paid amount is the limiting factor for recommended flow/storage, confirm this was addressed in proof process but owner declined to pay more. If cannot confirm owner was provided a chance to pay correct fee, use 30-day letter for last chance to pay. Without additional payment, allow maximum rate/storage per fee paid.

8/96

INVENTORY OF DROUGHT WELLS

WATER RIGHT # 63-11853

DATE 08/26/1996

POWER METER # N/A

1. Well in use? ☒ No (see #2) ☐ Yes (skip #2)

2. Power on for well? ☒ No ☐ Yes

per ☒ Visual check ☐ Idaho Power information

3. Acceptable measuring device found? ☒ No ☐ Yes

Describe and list make/model/serial or i.d. # if applicable:

Flow measurement data _____

Comments Diesel powered ROTOR (US Electrical Rotor, 80 HP, ID # Q9479-006-602)
John Deere Type 4219DF 01, SN 346341 T

4. Copies included for inventory file?

Profile Report ☒ Yes

Current version of Permit ☒ Yes

5. Condition of Approval regarding surface water delivery/use:

Condition #065 on Profile Report ☒ Long version ☐ Short version

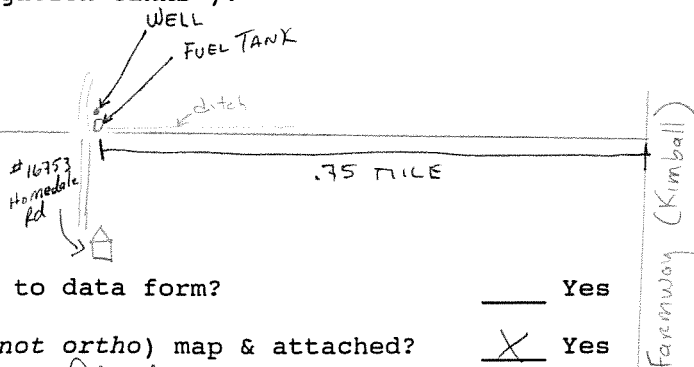
Condition #5 (?) on Permit ☐ Long version ☒ Short version

("Long" = includes clause that can only divert from well if surface water cannot be delivered to right holder)

6. Sketch showing access to well from nearest landmarks - include nearest street address site &/or named road intersection with direction and estimated distance to well access site ("1/4 mile east of 27350 Peckham Rd, well 50' north of road by 2 large chemigation tanks").

Well is located .75 mile west
of Farmway (Kimball) Rd
Homedale Rd

on Homedale Rd. North
of driveway for #16753 Homedale Rd.
very close to RR line.



7. Photograph of well attached to data form? ☐ Yes

8. Well site plotted on topo (not ortho) map & attached? ☒ Yes

9. Inspector's signature & title [Signature] Sr. WATER Resource Agent

08/27/1996

PHOTOGRAPHS To Follow

155

63-11853

X55

Field checked 1958

T3N R3W S.5

POB: SESW

1:24,000

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



CREST ELEVATION 2531

ELEVATION 2518 SEPT 25, 1954



PHOTOGRAPHER RTM WILCOCK
DATE PHOTOS TAKEN 08/26/1996
FILE NO. 63-11853
LEGAL DESCR. T03N R03W S.5 SWSESW



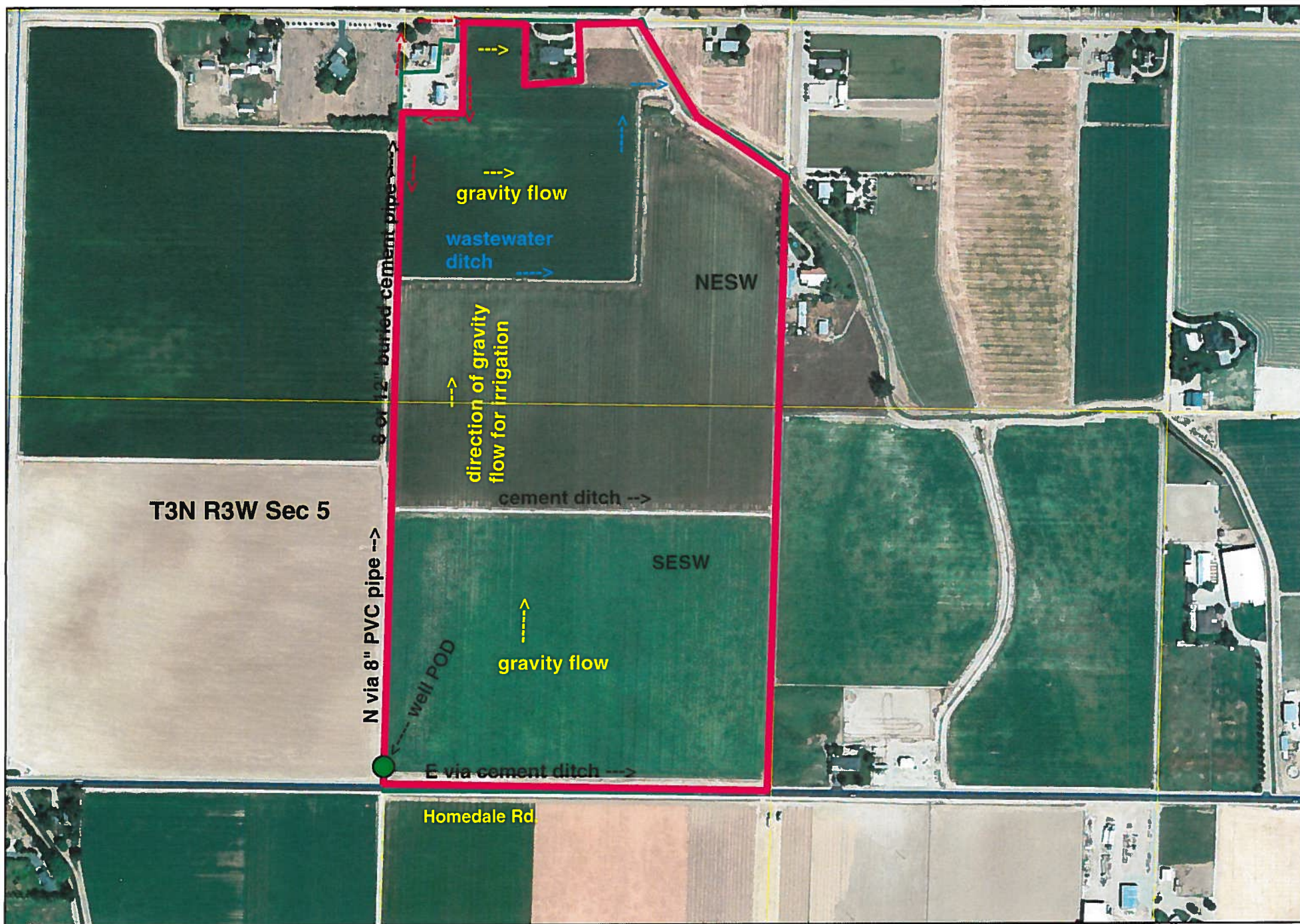
WELL & Power supply. FUEL TANK
is located out of the picture to
the right, closer to the road.



PHOTOGRAPHER Tom Micucci
DATE PHOTOS TAKEN 08/26/1996
FILE NO. 63-11853
LEGAL DESCR. T03N R03W S.5 SWSESW



WELL & Power supply. FUEL Tank
is located out of the picture to
the right, closer to the road.



63-11853 -- place of use and diversion and delivery system



4/2011

IDAHO DEPARTMENT OF WATER RESOURCES
FIELD EXAMINERS
WELL INSPECTION FORM

1. IDENTIFICATION # _____ none (Tag #, etc.)

OTHER APPLICABLE # 63-11853 (Water right #, etc.)

2. OWNER Douglas Norrie Phone (208) 454-3235

Address 16641 Lonken Ln City Caldwell

State ID Zip 83607 Email _____

3. WELL LOCATION (GPS required in Degrees Decimal Minutes – use PLS if GPS not available)

Lat. 43.619 Long. -116.728

Twp _____ Rge _____ Sec _____ 1/4 _____ 1/4 _____

4. WELL CONSTRUCTION ☒ Well log attached ☐ Well log not found

Any obvious construction problems that may be a source for contamination or waste? ☐ Yes ☒ No

If yes, describe below &/or see attached (list any that apply): ☐ Photos ☐ Diagram ☐ Other

5. HYDROLOGIC INFORMATION

Static water if measured _____ ft. Water temperature if measured _____ °F

Flowing artesian ☐ Yes ☐ No Pressure if measured _____ psi

NOTES no measurements taken

INSPECTED BY Wendy Umic DATE 4-9-12

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well. AUG 24 1971

AUG 24 1992

[illegible]

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT



63-11853 Field photographs of well

Well and 8" steel pipe.

Water pumped from well, through 8" steel pipe to 8" PVC pipe over 2' Cipoletti weir to buried pipe. Diesel tank is no longer used and does not appear to have leaked.

