

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S	37E	32										X	X						

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>
659111					
700038					

*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: Theoretical see attached

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:
Q=0.14 cfs limited to 0.08 by maximum beneficial use

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

System consists of two interconnected wells with one well having a 1 hp pump and the newer well located 20 feet East of the first well with a 3 hp pump. Distribution lines provide water to two single domestic homes a Dairy and corals for 1000 head of dairy cattle and 300-400 dry cows. Dairy produces approximately 65,000 gal of milk per day.

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>
COMMERCIAL	01/01 to 12/31	0.080 CFS	5.60 AF
STOCKWATER	01/01 to 12/31	0.080 CFS	19.2 AF
<u>Totals:</u>		0.080 CFS	24.80 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 Kieth Wilson Date 10-25-2007

Reviewer Nate Arave Date 06-15-2007

[illegible]

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 Quadrange 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
	Franklin	1	NA		
	Electric	3	NA		

*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

2. Measurements: 30-60psi 30'-40' lift

E. NARRATIVE/REMARKS/COMMENTS

Two wells (1hp & 3hp) mainline to pressure tanks with
distribution lines to Dairy + Two houses

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

F. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

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		
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			_____	_____

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 _____ Date _____

Reviewer _____ Date _____

SEAL

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 27-7578

Exam Date: 10/25/05

1. Current Owner: GAYLEN W CLAYSON
600 N 710 E
FIRTH ID 83236
(208)346-6484

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use:
2. Other water rights with the same point of diversion:

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

GROUND WATER

SW1/4SW1/4

Sec. 32, Twp 01S, Rge 37E, B.M.

BINGHAM County

Method of Determination: GPS

N 43° 16' 58.72"
W 112° 09' 28.27"

2.

PLACE OF USE: COMMERCIAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S	37E	32									X	X							

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01S	37E	32									X	X							

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>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</u> <u>Size</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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

D. FLOW MEASUREMENTS *Theoretical*

1.

<u>Measurement</u> <u>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: *static water level 23' assume 2' drawdown*

$$Q = \frac{hp (8.814) \text{ eff}}{\text{Lift} + (PSI \times 2.308)} = \frac{3 (8.814) (0.70)}{25' + (30 \times 2.308)} = \frac{18.5}{94.2} = 0.196 \text{ cfs}$$

$$Q_{shp} = 0.20 \text{ cfs}$$

$$Q_{1hp} = 0.07 \text{ cfs}$$

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method:

$$Q_{\text{LIMITED BY Permit}} = 0.14 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

$$\begin{aligned} \text{VOL STOCK} &= 428 \times (6.0134) = 5.7 \text{ afa} \\ &\quad \text{Range Cattle} \\ \text{VOL Dams} &= 410 \times (0.0391) = 16.1 \text{ afa} \\ &\quad \hline &\quad 21.8 \text{ afa} \end{aligned}$$

G. NARRATIVE/REMARKS/COMMENTS

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>
COMMERCIAL	01/01 to 12/31	0.140 CFS	
STOCKWATER	01/01 to 12/31	0.140 CFS	
<u>Totals:</u>		0.140 CFS	

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 Keith C Wilson Date 10/26/05

Reviewer _____ Date _____



Well #1 - Original Well – 1hp pump

Well #2 – 3 hp pump

Points of Diversion

27-7578



Well #1 - Original Well – 1hp pump

Well #2 – 3 hp pump

Points of Diversion

27-7578

DATE ----- June 15, 2007

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE -----	488
NUMBER OF DRY CATTLE -----	200
NUMBER OF REPLACEMENT CATTLE: 0-2 MONTHS -----	150
3-4 MONTHS -----	0
5-8 MONTHS -----	0
9-12 MONTHS -----	0
13-15 MONTHS -----	0
16-24 MONTHS -----	0
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC COW WASHING, OR 3 IF SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS -----	1
IF SPRINKLERS ARE USED: NUMBER OF SPRINKLERS IN HOLDING PEN -----	0
NOZZLE DISCHARGE (USE 5.0 GPM IF UNKNOWN) -----	0.00
TOTAL OPERATION TIME OF SPRINKLERS (MIN/DAY) -----	0
NUMBER OF MILKINGS PER DAY -----	3
AVG. LBS. OF MILK PRODUCED PER DAY PER ANIMAL (IDAHO AVG IS 70 LBS.) -----	70
ARE THERE SEPARATE PUMPS FOR COMMERCIAL AND STOCKWATER USES? -----	N
IF SO: HOW MANY HOURS PER DAY DOES THE STOCKWATER PUMP RUN? -----	
HOW MANY HOURS PER DAY DOES THE COMMERCIAL PUMP RUN? -----	
IF ONLY ONE PUMP, HOW MANY TOTAL HOURS PER DAY DOES IT RUN? -----	12.0
IS A PLATE COOLER USED? -----	N
IS PLATE COOLER WATER LATER RECYCLED FOR OTHER USES? (IF NO PLATE COOLER, LEAVE BLANK) -----	
ARE CORRAL MISTERS USED IN HOLDING PEN? -----	N
IF USING CORRAL MISTERS: NUMBER OF MISTERS (IF UNKNOWN, ASSUME 1 MISTER FOR EVERY 5 COWS) -----	0
NOZZLE DISCHARGE (USE 5 GPH IF UNKNOWN) -----	0.00
SPRAY INTERVAL (EX - 2 MIN ON EVERY 5 MIN = 2/5) -----	0
OPERATION TIME OF MISTERS (HRS/DAY) -----	0
DAYS PER YEAR MISTERS ARE USED -----	45
ENTER A TOTAL VOLUME IN GPD FOR MISCELLANEOUS WATER USES NOT INDIVIDUALLY CALCULATED BELOW (EX. - RESTROOMS, WASHING MACHINES) -----	260

FILE NUMBER ----- 27-7578
REVIEWER ----- narave
DATE ----- 6/15/2007

CALCULATIONS

DIVERSION RATE (CFS):

STOCKWATER

MILKING CATTLE (BASED ON MILK PRODUCTION) -----	****
DRY CATTLE @17.0 GPD/HD -----	****
REPLACEMENT CATTLE -----	****
TOTAL -----	0.08

COMMERCIAL

TOTAL -----	0.08
--------------------	-------------

TOTAL DIVERSION RATE -----	0.08
-----------------------------------	-------------

DIVERSION VOLUME (AFA):

STOCKWATER

MILKING CATTLE -----	15.7
DRY CATTLE -----	3.0
REPLACEMENT CATTLE -----	0.4
TOTAL -----	19.2

COMMERCIAL

WASHING OF BULK TANK AND RELATED EQUIPMENT -----	0.6
BACKFLUSH -----	0.8
PARLOR/MILKHOUSE/HOLDING PEN CLEANUP -----	3.0
CATTLE WASHING BASED UPON METHOD OF WASHING -----	0.8
PLATE COOLER -----	0.0
CORRAL MISTERS -----	0.0
MISCELLANEOUS USES -----	0.3
TOTAL -----	5.6

TOTAL DIVERSION VOLUME -----	24.8
-------------------------------------	-------------

CONSUMPTIVE USE VOLUME (AFA)(assuming 100% consumptive):

STOCKWATER -----	19.2
-------------------------	-------------

COMMERCIAL -----	5.6
-------------------------	------------

TOTAL CONSUMPTIVE USE -----	24.8
------------------------------------	-------------

FILE NUMBER ----- 27-7578
REVIEWER ----- narave
DATE ----- 6/15/2007

THEORETICAL FLOW ESTIMATION WORKSHEET

REQUIRED PUMP INFORMATION

	PUMP 1	PUMP 2	PUMP 3	PUMP 4	PUMP 5
PUMP HORSEPOWER (HP) -----	3.00		1.00	0.00	0.00
PUMP EFFICIENCY (%) -----	70		70	70	70
LIFT (FT) -----	25		25	0	0
DISCHARGE PRESSURE (PSI) -----	45		45	0	0
FRICTION LOSSES (FT) -----	3.0		3.0	0.0	0.0
HOURS PER DAY PUMP OPERATES -----	20.0		20.0	0.0	0.0

CALCULATIONS

THEORETICAL FLOW RATE (CFS) * -----	0.14	0.00	0.05	0.00	0.00
DIVERSION VOLUME (AFA) ** -----	84.5	0.0	28.2	0.0	0.0

* IF PUMP EFFICIENCY IS UNKNOWN, 70% MAY BE ASSUMED.

** DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON THE
THEORETICAL FLOW RATE ASSUMING PUMP RUNS EVERY DAY OF THE YEAR.

Comment Report

27-7578

1. kwilson 10/26/2005 Field Report Narrative

Comment: System consists of two interconnected wells with one well having a 1 hp pump and the newer well located 20 feet East of the first well with a 3 hp pump. Distribution lines provide water to two single domestic homes a Dairy and corals for 1000 head of dairy cattle and 300-400 dry cows. Dairy produces approximately 65,000 gal of milk per day.

2. kwilson 10/26/2005 POD

Comment: Updated shape

3. kwilson 10/26/2005 POU

Comment: Updated Shape

4. kwilson 10/26/2005 POU

Comment: Updated Shape

5. narave 2/22/2007 POD

Comment: Updated shape

6. narave 2/22/2007 POU

Comment: Updated PLS

7. narave 2/22/2007 POU

Comment: Updated Shape

8. narave 2/22/2007 POU

Comment: Updated PLS

9. narave 2/22/2007 POU

Comment: Updated Shape

10. narave 6/15/2007 POD

Comment: Updated shape

11. narave 6/15/2007 POU Comparison Report

Comment: The overlapping POU's are:

1-172C

1-250C

1-171C

1-10247

1-38

27-10946

12. dgibson 8/9/2005 Reinstated

Comment: Applicant filed proof on 9/8/2000, however no evidence of development was submitted until 7/14/2005 therefore this permit priority date was set at 7/14/2005 with the pre-1987 development use. This is a dairy with stockwater and commercial uses for 410 dairy cows and 428 replacements.

Type	WR #	Owner	Source	TRIS	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
Right	1 172C	Snake River Valley Irrigation Dist.	Snake River	01S37E32						X	X			X							0
Right	1 250C	Snake River Valley Irrigation Dist.	Snake River	01S37E32																	0
Right	1 238C	North Rigby Irrigation Co.	Dry Bed	01S37E32																	0
Right	1 328C	Snake River Valley Irrigation Dist.	Snake River	01S37E32																	0
Permit	27 7578	Gaylen W. Clayton	Ground Water	01S37E32										X	X						0
Permit	27 7578	Gaylen W. Clayton	Ground Water	01S37E32										X	X						0
Permit	27 7579	Gaylen W. Clayton	Ground Water	01S37E32										X	X						0
Permit	27 7579	Gaylen W. Clayton	Ground Water	01S37E32										X	X						0
Claim	1 171C	Snake River Valley Irrigation Dist.	Snake River	01S37E32	35	37	35	25	38	34	37	40	37	36	32	39	36	35	36	33	565
Claim	1 250	Snake River Valley Irrigation Dist.	Snake River	01S37E32	35	37	35	25	38	34	37	40	37	36	32	39	36	35	36	33	565
Claim	1 10247	Snake River Valley Irrigation Dist.	Snake River	01S37E32	35	37	35	25	38	34	37	40	37	36	32	39	36	35	36	33	565
Claim	27 10185	Claudia N. Clayton, Nolan Clayton	Ground Water	01S37E32				X													0
Claim	1 38	Snake River Valley Irrigation Dist.	Snake River	01S37E32	35	37	35	25	38	34	37	40	37	36	32	39	36	35	36	33	565
Claim	1 171	Snake River Valley Irrigation Dist.	Snake River	01S37E32	35	37	35	25	38	34	37	40	37	36	32	39	36	35	36	33	565
Claim	1 328	Snake River Valley Irrigation Dist.	Snake River	01S37E32	35	37	35	25	38	34	37	40	37	36	32	39	36	35	36	33	565
Right	27 10673	F. Robert Wetherbee, Luella Wetherbee	Ground Water	01S37E32		X															0
Right	27 10673	F. Robert Wetherbee, Luella Wetherbee	Ground Water	01S37E32		X															0
Right	27 10052	Gene G. Hansen	Ground Water	01S37E32															X		0
Right	27 10052	Gene G. Hansen	Ground Water	01S37E32																X	0
Right	27 10753	David Esplin	Ground Water	01S37E32	X																0
Right	27 10753	David Esplin	Ground Water	01S37E32	X																0
Right	27 10184	David Clayton	Ground Water	01S37E32		X															0
Right	27 10946	Carolyn Ann Lyon, Wayne E. Lyon	Ground Water	01S37E32										X							0
Right	27 10051	Gene G. Hansen	Ground Water	01S37E32															X		0
Right	27 10501	Denice Steele, Larry R. Steele	Ground Water	01S37E32				X													0
Right	27 10519	Marlyne Jensen, Clinton G. Jensen	Ground Water	01S37E32				X		X											0
Right	27 10612	Larry G. Kohler	Ground Water	01S37E32				X													0
Right	27 10365	True H. Farrar, Eugene R. Farrar	Ground Water	01S37E32					X												0
Rec	1 38	Claudia N. Clayton, Nolan Clayton	Snake River	01S37E32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
Rec	1 171	Snake River Valley Irrigation Dist.	Snake River	01S37E32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
Rec	1 10247	Snake River Valley Irrigation Dist.	Snake River	01S37E32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
Rec	1 250	Snake River Valley Irrigation Dist.	Snake River	01S37E32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
Rec	1 328	Snake River Valley Irrigation Dist.	Snake River	01S37E32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
Right	27 7578	Gaylen W. Clayton	Ground Water	01S37E32										X	X						0
Right	27 7578	Gaylen W. Clayton	Ground Water	01S37E32										X	X						0