

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-8667
Exam Date: 03/31/2021

1. Current Owner:
NORTHWEST FARM CREDIT SERVICES FLCA
406 PARK VIEW LOOP TWIN FALLS ID 83301-3393
VERBREE LAND HOLDINGS LLC
PO BOX 30 WENDELL ID 83355-0030
2. Accompanied by: Don Egbert, Manager and Jana Reeder, IDWR Senior Agent

3. **SOURCE:**
GROUND WATER

Method of Determination: Site visit and Aerial imagery

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
36-10668	Ground Water	Stockwater/Domestic	Decreed
36-10147	Ground Water	Stockwater/Domestic	Decreed
36-7318A	Ground Water	Commercial	Decreed
36-7318B	Ground Water	Stockwater/Domestic	Decreed
36-7318C	Ground Water	Stockwater	Decreed

Comments: See Transfer # 85049

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

Water Right No.	Source	Purpose of Use	Basis
36-10668	Ground Water	Stockwater/Domestic	Decreed
36-10147	Ground Water	Stockwater/Domestic	Decreed
36-7318A	Ground Water	Commercial	Decreed
36-7318B	Ground Water	Stockwater/Domestic	Decreed
36-7318C	Ground Water	Stockwater	Decreed

Comments: See Transfer # 85049

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SW¼ SE¼, Sec. 26, Twp 07S, Rge 14E, B.M. GOODING County
GROUND WATER SE¼ SE¼, Sec. 26, Twp 07S, Rge 14E, B.M. GOODING County
GROUND WATER NE¼ SE¼, Sec. 26, Twp 07S, Rge 14E, B.M. GOODING County
GROUND WATER SW¼ SE¼, Sec. 26, Twp 07S, Rge 14E, B.M. GOODING County

Method of Determination: Site Visit and Aerial imagery

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07S	14E	26													X	X	X	X	

PLACE OF USE: COMMERCIAL

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07S	14E	26													X	X	X	X	

Method of Determination:

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X

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.

XX Aerial Photo Attached (required for irrigation of 10+ acres).X

Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
A0007896					
A0007897					
A0007898					
A0011815					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Polysomic	Flow Meter	Panametrics	PT878	09045	N/A	N/A

2. Measurements: A flow measurement was taken on three of the four wells; the fourth well was not being used at the time. All four wells can be used, but typical operation is to run three of the wells and utilize the fourth well as backup (for emergency purposes).

A0007896 ("shed well") measured at 41.9 gpm, A0007897 measured at 104.8 gpm, A0007898 ("trailer well") measured at 95.2 gpm, and A0011815 was not measured at time of exam. Total flow measured $(41.9 + 104.8 + 95.2) = 241.9$ gpm or 0.54 cfs.

Rights 36-10147 (0.04 cfs) and 36-10668 (0.20 cfs) allow for 0.24 cfs. Note that rights 36-7318A, 36-7318B, and 36-7318C were transferred into the system in 1998 (after proof of beneficial use was filed for 36-8667). The measured rate of 0.54 cfs minus the 0.24 cfs under existing rights yields 0.30 cfs, which is more than the permitted amount of 0.27 cfs under 36-8667. Therefore, recommend permitted amount of 0.27 cfs for licensing.

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

See flow measurement section (D) above.

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:

Dairy spreadsheet based on input values provided by Don Egbert yielded a volume estimate of 160.8 acre-feet per year. Examination of WMIS meter records reveals that a four-year average of use at the dairy was 158.19 acre-feet per year, with a highest year of use being 162.4 acre-feet. Rights 36-10147 and 36-10668 allow for 14.6 acre-feet per year when combined (see transfer # 85049). Note that rights 36-7318A, 36-7318B, and 36-7318C were transferred into the system in 1998 (after proof of beneficial use was filed for 36-8667). Utilizing the high use of 162.4 acre-feet minus the 14.6 acre-feet allowed by rights 36-10147 and 36-10668 yields 147.8 acre-feet that can be licensed under right 36-8667.

G. NARRATIVE/REMARKS/COMMENTS

Application for Permit 36-8667 for Domestic, Stockwater and Commercial use to divert 0.27 cfs from two wells was filed on July 10, 1992. Permit 36-8667 to appropriate water was issued July 8, 1994. Proof of Beneficial Use was filed in 1995. The dairy was operating under a 1918 domestic/stockwater right for 0.2 cfs decreed in 1996 and a 1975 domestic/stockwater right for 0.04 cfs decreed in 1997. These two water rights did not provide enough water for the dairy. Permit 36-8667 was filed for an additional 0.27 cfs for stockwater, commercial, and domestic use. Rights 36-7318A, 36-7318B, and 36-7318C were transferred into the system in 1998 (after proof of beneficial use was filed for 36-8667).

The Beneficial Use Field Exam was conducted on March 31, 2021. Jana Reeder, IDWR senior agent, and I met with Don Egbert, dairy manager. We discussed the need for the field exam, that it was to verify the extent of development proposed under the permit 36-8667. Mr. Egbert explained where each of the wells are located, and that they are all hooked together as a single system and described the dairy site on a map. We asked if we could measure each of the wells to determine the amount of water being pumped. In addition, there was a fourth well that was not in use at this time and is mainly used as a backup well. Mr. Egbert provided us the number of milking cows, dry cows, and replacement cattle on the dairy. He also explained that cows produced an average of 80 pounds per day per animal and had three milking's a day. These wells also provided domestic water for seven homes, and one office.

After a review of the water rights for the dairy it was determined that before we could license permit 36-8667 an amendment was need for the permit and a transfer was needed to be filed to update the place of use and points of diversion for all the existing water rights. Transfer 85049 was filed to identify the actual place of use for the dairy and to add all four wells to the water rights. A licensing amendment for permit 36-8667 was drafted to add the four wells and update the place of use.

The domestic use under permit 36-8667 is not recommended for licensing because these uses are covered under older rights 36-10147 and 36-10668.

Have conditions of permit approval been met? ____ Yes ____ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
STOCKWATER	01/01 to 12/31	0.27 CFS	147.8 AF
COMMERCIAL	01/01 to 12/31	0.27 CFS	147.8 AF

Totals: 0.27 CFS 147.8 AF

2. Recommended Amendments

____ Change P.D. as reflected above X Add P.D. as reflected above ____ None

____ Change P.U. as reflected above X Add P.U. as reflected above ____ None

I. AUTHENTICATION

Field Examiner's Name Benny Walker Date 8/22/22
Reviewer [Signature] Date 8/22/2022



Permit 36-8667



Main Dairy Barn



Permit 36-8667



Fresh Cows Milking Barn



Permit 36-8667



Pens and Watering Trough



Permit 36-8667



Permit 36-8667



Some of the Homes and a Office



6/21/2022 AS : BW 36-8667 notes

time
↓

1918 D: S (north) no volume "300 dairy stock" 14.6

1975 D: S (SESE)

"100 Holsteins" 14.6

1992 permit
proof filed in
1995

.27 cfs. will produce 195.9 AF

1998

36-7318 A

80.8 AF

36-7318 B

8.8 AF

36-7318 C

43.2

132.8 AF

+ 14.6

147.4 AF

162.4 AF

(2020 winter data
high)

162.4 - 14.6
= 147.8
x .35

4 wells

- 160.8 AF (spreadsheet)

WIMIS DATA

2017 - 2021 average 154.68

140 - 162.

TOTAL -----

#

COMMERCIAL

TOTAL -----

#

TOTAL DIVERSION RATE -----

#

DIVERSION VOLUME (AFA):

STOCKWATER

MILKING CATTLE -----	84.9
DRY CATTLE -----	22.6
REPLACEMENT CATTLE -----	11.6
TOTAL -----	119.2

COMMERCIAL

WASHING OF BULK TANK AND RELATED EQUIPMENT -----	0.6
BACKFLUSH -----	3.9
PARLOR/MILKHOUSE/HOLDING PEN CLEANUP -----	3.0
CATTLE WASHING BASED UPON METHOD OF WASHING -----	30.9
PLATE COOLER -----	0.0
CORRAL MISTERS -----	3.0
MISCELLANEOUS USES -----	0.1
TOTAL -----	41.6

TOTAL DIVERSION VOLUME -----

160.8

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

STOCKWATER -----	119.2
COMMERCIAL -----	41.6

TOTAL CONSUMPTIVE USE -----

160.8

Log Name C:\Users\jreeder\Desktop\Cop 1 of LOG01.LOG
Log Title C:\Users\jreeder\Desktop\Cop 1 of LOG01.LOG
Start Time #####
End Time #####
Records 3
Interval 60
Error Flags 8208
Cyclic Flag 2

Item #	Label	Symbol	UnitType	Channel	Comport	Computer	Decimal	Width
0	Velocity	ft/s	578	0	0	PT878	4	12
1	Volume	gal/m	846	0	0	PT878	4	12
2	(+)Total	gal	1160	0	0	PT878	4	12

Date/Time Velocity (ft Volume (g: (+)Total (g: Error #

#####	0.317327	9.889339	5866.234	0
#####	0.337771	10.52647	5876.343	0
#####	0.34099	10.62678	5886.779	0
#####	0.383188	11.94185	5898.089	0
#####	0.377802	11.774	5909.828	0
#####	0.361368	11.26184	5921.972	0
#####	0.352207	10.97636	5932.642	0
#####	0.345216	10.75847	5944.065	0
#####	0.274462	8.553475	5953.824	0
#####	0.334553	10.42617	5962.754	0
#####	0.361195	11.25646	5973.949	0
#####	0.373855	11.65099	5985.497	0
#####	0.326985	10.19033	5996.544	0
#####	-2.47017	-76.9817	6002.239	0
#####	0.27182	8.471131	6009.369	0
#####	-2.63042	-81.9757	6013.861	0
#####	0.210011	6.544898	6021.468	0
#####	0.287375	8.955908	6029.546	0
#####	0.296401	9.237197	6038.693	0
#####	0.268891	8.37984	6047.716	0
#####	0.291526	9.08526	6056.324	0
#####	0.32619	10.16556	6065.727	0
#####	0.32375	10.0895	6076.123	0
#####	0.280266	8.734339	6085.072	0
#####	3.081592	96.03627	6120.211	0
#####	0.288772	8.999446	6155.275	0
#####	0.270725	8.437005	6163.904	0
#####	3.015084	93.96358	6174.842	0
#####	3.362491	104.7903	6274.08	0
#####	3.294625	102.6753	6377.984	0

Avg
 99.3

Log Name VerBree Dairy 1
Log Title Trailer Well
Start Time 3/31/2021 12:26
End Time 4/1/2021 12:37
Records 3
Interval 60
Error Flags 8208
Cyclic Flags 2

Item #	Label	Symbol	UnitType	Channel	Comport	Computer	Decimal
0	Velocity	ft/s	578	0	0	PT878	4
1	Volume	gal/m	846	0	0	PT878	4
2 (+)	Total	gal	1160	0	0	PT878	4

Date/Time	Velocity (ft/s)	Volume (g:	(+)Total (g:	Error #
3/31/2021 12:26:03	6.190269378	94.71091	6681.049	0
3/31/2021 12:27:04	6.162906596	94.29226	6774.609	0
3/31/2021 12:28:03	6.149658687	94.08956	6868.313	0
3/31/2021 12:29:04	6.144457522	94.00999	6964.004	0
3/31/2021 12:30:03	6.174248604	94.46579	7056.429	0
3/31/2021 12:31:03	6.180025129	94.55417	7151.592	0
3/31/2021 12:32:04	6.19189541	94.73578	7247.782	0
3/31/2021 12:33:04	6.246536564	95.57179	7342.215	0
3/31/2021 12:34:04	6.283395276	96.13573	7439.712	0
3/31/2021 12:35:04	6.305613381	96.47567	7534.942	0
3/31/2021 12:36:03	6.294934648	96.31228	7630.698	0
3/31/2021 12:37:03	6.265972521	95.86916	7724.433	0
3/31/2021 12:38:04	6.263899497	95.83744	7823.284	0
3/31/2021 12:39:03	6.274181537	95.99476	7918.033	0

14 minute average 95.21823 gpm

Log Name VerBree Dairy 1
Log Title Shed Well
Start Time 3/31/2021 14:02
End Time 4/1/2021 2:13
Records 3
Interval 60
Error Flags 8208
Cyclic Flag 2

Item #	Label	Symbol	UnitType	Channel	Comport	Computer	Decimal
0	Velocity	ft/s	578	0	0	PT878	4
1	Volume	gal/m	846	0	0	PT878	4
2	(+)Total	gal	1160	0	0	PT878	4

Date/Time	Velocity (ft/s)	Volume (gal/m)	(+)Total (gal)	Error #
#####	3.053431754	46.49342269	8366.551251	0
#####	3.018260014	45.95787624	8412.999062	0
#####	2.964546362	45.13999926	8458.325207	0
#####	2.942495637	44.8042414	8502.926863	0
#####	2.856262275	43.4911994	8548.675322	0
#####	2.82440789	43.00616502	8591.599882	0
#####	2.781944947	42.35959823	8633.368598	0
#####	2.791463807	42.50453822	8675.862687	0
#####	2.528515186	38.50072143	8717.317174	0
#####	2.591446171	39.45894716	8755.665052	0
#####	2.662853974	40.54624611	8797.691005	0
#####	2.616218265	39.83614224	8837.161914	0
#####	2.513574089	38.27321912	8875.84059	0
#####	2.537477066	38.63718049	8914.018555	0
#####	2.536025778	38.6150823	8953.79568	0
			587.2444293	

41.94603066

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Report Year	Alternate	FM	PCC	Time Clock
2021		27.60		
2020		23.65		
2019		21.35		
2018		29.17		
2017		29.17		
2016		31.48		
2015		23.47		
2014		72.97		
2013		4.93		
2012		36.21		
2011		19.35		
2010		21.05		
2009		10.72		
2008		6.62		
2007		22.41		
2006		24.00		
2005		54.42		
2004		63.47		
2003		48.96		
2002		23.40		
2001		23.40		
2000		22.91		
1999		9.76		
1998		14.65		

High

2021 - 152.38
* 2020 - 162.42
2019 - 161.94
2018 - 156.00
2017 - 140.66

five year average 154.68
four year average 158.19 AF

spreadsheet
160.8 AF

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Report Year	Alternate	FM	PCC	Time Clock
2021		122.25		
2020		131.88		
2019		130.83		
2018		125.45		
2017		111.49		
2016		96.98		
2015		56.05		
2014				
2013		93.66		
2012		30.60		
2011		0.00		
2010		0.00		
2009		7.45		
2008				
2007		56.15		
2006		84.31		
2005		47.30		
2004		39.82		
2003		43.98		
2002		8.47		
2001		19.10		
2000		21.67		
1999		6.27		
1998		9.80		

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Report Year	Alternate	FM	PCC	Time Clock
2021				
2020				
2018				
2017		0.00		
2016				
2015		0.00		
2014				
2013				
2012		0.64		
2011		2.50		
2010		3.28		
2009				
2008				
2007		0.00		
2006		0.00		
2005		0.20		
2004		0.41		
2003		0.61		
2002		2.09		
2001				

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Report Year	Alternate	FM	PCC	Time Clock
2021		2.53		
2020		6.89		
2019		9.76		
2018		1.38		
2017		1.00		
2016		15.67		
2015		48.81		
2014		24.97		
2013		39.84		
2012		1.92		
2011		25.89		
2010		14.71		
2009		21.28		
2008		11.20		
2007		14.89		
2006		72.62		
2005		77.02		
2004		50.89		
2003		52.44		
2002		27.96		
2001		19.53		
2000		0.00		
1999		11.29		
1998		13.17		