

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31662
Exam Date: 06/22/2012

1. Current Owner:
RICHARD J MURGOITIO
7373 S MAPLE GROVE RD
BOISE ID 83709

AND/OR

LOUIS P MURGOITIO
7373 S MAPLE GROVE RD
BOISE ID 83709

2. Accompanied by: Lou & Victoria Murgoitio
Phone No: (208)362-1262
Address: 7373 S MAPLE GROVE RD
Relationship to permit Holder: Owner

3. **SOURCE:**
GROUND WATER

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
63-17946	Ground Water	Stock Water & Domestic	Decreed
63-32217	Ground Water	Stock Water, Commercial, & Domestic	Decreed

Comments: Decreed rights 63-17946 and 63-32217 are diverted through the same system and used for the same use(s) as right 63-31662

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
63-17946	Ground Water	Stock Water & Domestic	Decreed
63-32217	Ground Water	Stock Water, Commercial, & Domestic	Decreed

Comments: Decreed rights 63-17946 and 63-32217 are diverted through the same system and used for the same use(s) as right 63-31662

C. DIVERSION AND DELIVERY SYSTEM

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

GROUND WATER NW¼ NW¼, Sec. 12, Twp 02N, Rge 01E, B.M. ADA County
GROUND WATER NW¼ NW¼, Sec. 12, Twp 02N, Rge 01E, B.M. ADA County

Method of Determination: Field inspection and consultation with owner

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	
02N	01E	12						X											
02N	01E	1											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	
02N	01E	12						X											
02N	01E	1											X						

Method of Determination: Field inspection and consultation with owner

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.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
		One 5 HP pump & one 2.5 HP pump			
		Two 5 HP pumps			

D. FLOW MEASUREMENTS

Original examiner was unable to measure the system. However, existing decreed rights allow for approximately twice the estimated system capacity (see attached flow calculations). Recommend limiting diversion rate to estimated system capacity (0.41 cfs) with a combination limit with existing decreed rights of the existing decreed rate (0.80 cfs).

E. FLOW CALCULATIONS

See attached flow calculations

F. VOLUME CALCULATIONS

See attached flow calculation estimates

G. NARRATIVE/REMARKS/COMMENTS

Permit 63-31662, for a dairy facility, was issued on July 7, 2003, and Proof of Beneficial Use was filed on June 28, 2006. A licensing exam was conducted by Angela Grimm on June 22, 2012 (see attached partially completed exam report). The permit was reassigned to Southern Region staff in early 2023. Review of the file indicates that there were issues with getting a measurement during the original exam. Further examination indicates that two existing decreed rights, 63-17946 and 63-32217 are associated with the system that provides water to the dairy. Realistically, the two decreed rights provide way more allowable diversion rate (0.80 cfs) than what would be utilized for a dairy facility of this size. However, the two decreed rights have relatively low diversion volume allowances (42.4 AF total) compared to the decreed diversion rates.

Various Southern Region staff have worked with the permit holders and their attorney, Dan Steenson, this past year to gather information that would allow for the licensing of permit 63-31662. Several phone calls and e-mails were exchanged with the permit holders and their attorney. They were able to acknowledge that based on pump size limitations, the diversion system could not divert any more than the allowable diversion rate (0.80 cfs) provided by the existing decreed rights. However, based on information provided by the permit holders, there could be potential additional volume to be licensed for the system. The permit holders' attorney provided an estimate of potential total volume of 60.6 AF utilized by the dairy facility. Comparing this estimate with estimates from IDWR's dairy spreadsheet indicated that the 60.6 AF estimate was a reasonable value. Due to two wells being associated with the system, and only one well being permitted even though one of the decreed rights identifies two wells, a licensing amendment was required to accurately describe the system on the license. Note that during the final licensing review it was discovered that the original permit included a typographical error in the commercial place of use (T03N instead of T02N). This was incorrectly included in the licensing amendment, but will be corrected in the issued license.

It is recommended to license 63-31662 for 0.41 cfs (estimated system capacity) and 60.6 AF (estimated total diversion volume). However, a limiting condition will be placed on the license limiting it in combination with the existing decreed rights (63-17946 and 63-32217) to a total combined diversion rate of 0.80 cfs (total rate allowed under decreed rights) and an annual diversion volume of 63.0 AF (60.6 AF estimated dairy volume allowance plus an additional 2.4 AF allowed for domestic use(s) under the two decreed rights). The licensed 60.6 AF will be allowed to be utilized for stock water or commercial use to reflect current IDWR policies and allow for flexibility in the dairy operation. Both wells will be identified as points of diversion on the license and conditions will be updated/corrected to reflect current practices. Note that this includes dropping the water depth condition because the diversions are outside the area identified in Amended Application Processing Memo # 59.

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	0.41 CFS	60.6 AF
COMMERCIAL	01/01 to 12/31	0.41 CFS	60.6 AF
<u>Totals:</u>		0.41 CFS	60.6 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 ☐ None

I. AUTHENTICATION Corey Skinner - Southern Regional Manager

Field Examiner's Name Angela Grimm Date 6/22/2012
Reviewer Corey Skinner Date 12/27/2024

State of Idaho
Department of Water Resources
Attachment to Water Right
63-31662

This map depicts the STOCKWATER & COMMERCIAL place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

01E



0 0.0375 0.075 0.15 Miles

-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

Field Exam 63-31662



63-31662 theoretical diversion rate
calculations

$$Q = \frac{8.8 \times H_p \times \text{Efficiency}}{H} \quad H = \text{lift} + (2.31) \text{ pressure}$$

assume 70% efficiency

well #1 2 pumps (one 5 Hp & one 2.5 Hp)
140' pumping depth and 55 psi

$$Q = \frac{8.8 (7.5) (0.70)}{[140 + (2.31)(55)]} = \underline{\underline{0.17 \text{ cfs}}} \leftarrow$$

Well #2 2 pumps (each 5 Hp)
130' pumping depth and 55 psi

$$Q = \frac{8.8 (10) (0.70)}{[130 + (2.31)(55)]} = \underline{\underline{0.24 \text{ cfs}}} \leftarrow$$

$$\text{Total system capacity} = 0.17 + 0.24 \text{ cfs} = \underline{\underline{0.41 \text{ cfs}}}$$

note existing decrees 63-17946 and
63-32217 allow for a total of
0.72 cfs for stock & commercial use
plus another 0.08 cfs for domestic use
for 0.80 cfs total

From: Dan Steenson <dan@sawtoothlaw.com>
Sent: Monday, September 30, 2024 3:10 PM
To: Skinner, Corey
Cc: Lou Murgoitio; victorina murgoitio
Subject: RE: Murgoitio water rights

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

Thanks Corey.

From: Skinner, Corey <Corey.Skinner@idwr.idaho.gov>
Sent: Monday, September 30, 2024 3:02 PM
To: Dan Steenson <dan@sawtoothlaw.com>
Cc: Lou Murgoitio <pyreneerr@q.com>; victorina murgoitio <pyreneerr@q.com>
Subject: RE: Murgoitio water rights

Dan,

That condition was on the permit, but realistically it is more informational. I am open to not having it on the license if that is what they prefer. Aerial imagery and the water right file will document that the development was a dairy. If the Murgoitios don't want the condition on the license, just have them mark through it on the amendment document and initial off to the side and I can issue the license without the condition.

Corey

From: Dan Steenson <dan@sawtoothlaw.com>
Sent: Monday, September 30, 2024 2:52 PM
To: Skinner, Corey <Corey.Skinner@idwr.idaho.gov>
Cc: Lou Murgoitio <pyreneerr@q.com>; victorina murgoitio <pyreneerr@q.com>
Subject: RE: Murgoitio water rights

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Thanks Corey.

The Murgoitio's only question is whether condition 2, limiting commercial use to dairy use could be removed or if not, is a transfer to future non-dairy use possible?

Thanks.

Dan

From: Skinner, Corey <Corey.Skinner@idwr.idaho.gov>
Sent: Tuesday, September 10, 2024 2:49 PM

To: Dan Steenson <dan@sawtoothlaw.com>
Cc: Lou Murgoitio <pyreneerr@q.com>; victorina murgoitio <pyreneerr@q.com>
Subject: RE: Murgoitio water rights

Dan,

Sorry it took so long to get back to you on this. Please find attached a proposed licensing amendment for permit 63-31662. The purpose of the amendment is to add the second well on the dairy as an authorized point of diversion. The amendment also allows you and the Murgoitios a "sneak peek" at the license. The amendment is basically what IDWR is proposing to license with the conditions on the second page of the amendment document.

If you and the Murgoitios agree on the proposed license, then Richard or Louis can sign the amendment (bottom of the first page) and return it to our Twin Falls office (my attention) with a \$100.00 filing fee, then the license can be issued.

If you have any questions, feel free to give me a call (208)736-3033.

Corey

From: Dan Steenson <dan@sawtoothlaw.com>
Sent: Wednesday, August 21, 2024 2:34 PM
To: Skinner, Corey <Corey.Skinner@idwr.idaho.gov>
Cc: Lou Murgoitio <pyreneerr@q.com>; victorina murgoitio <pyreneerr@q.com>
Subject: RE: Murgoitio water rights

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Corey,

I'm checking in. Please confirm your receipt of my August 8th email, and provide an eta for the draft license amendment.

Thanks.

Dan

From: Dan Steenson
Sent: Thursday, August 8, 2024 4:18 PM
To: Skinner, Corey <Corey.Skinner@idwr.idaho.gov>
Cc: Lou Murgoitio <pyreneerr@q.com>; victorina murgoitio <pyreneerr@q.com>
Subject: RE: Murgoitio water rights

Corey,

Below and in the attachments is the information you requested regarding the Murgoitio wells and farm:

- A) photographs of the wells attached
- B) maps/system diagrams attached
- C) Well #1 has two pumps, one 5 hp and one 2.5 hp
- D) Well #2 has two pumps, each 5 hp

- E) depths of the pumps- 140' and 130' respectively
- F) operating pressure of the system- 55#s

Please let me know if you require any additional information and send me your revised calculations and draft licensing amendment.

Thanks.

Dan

From: Skinner, Corey <Corey.Skinner@idwr.idaho.gov>
Sent: Tuesday, July 16, 2024 6:13 PM
To: Dan Steenson <dan@sawtoothlaw.com>
Cc: Lou Murgoitio <pyreneerr@q.com>
Subject: RE: Murgoitio water rights

I think this map/diagram (attached) may have been part of the 2012 exam

From: Skinner, Corey
Sent: Tuesday, July 16, 2024 3:52 PM
To: Dan Steenson <dan@sawtoothlaw.com>
Cc: Lou Murgoitio <pyreneerr@q.com>
Subject: RE: Murgoitio water rights

Dan,

As we discussed, attached are the notes/incomplete report from the licensing exam in 2012. After we got off the phone, I remembered that we need a map/system diagram for the report also. I have attached a recent aerial photograph of the property that might be utilized for creating a map (well locations, etc.).

Corey

From: Dan Steenson <dan@sawtoothlaw.com>
Sent: Friday, July 5, 2024 11:15 AM
To: Skinner, Corey <Corey.Skinner@idwr.idaho.gov>
Cc: Lou Murgoitio <pyreneerr@q.com>
Subject: Murgoitio water rights

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

Cory,

The Murgoitios and I are available to discuss their water right permit no. 63-31662 with you next week, any time on Monday, July 8th, the morning of Tuesday, July 9th, and any time Wednesday through Friday, July 10th through the 12th. Please let us know your availability. We can meet virtually by Zoom if that's more convenient for you.

To aid our discussion, the email below summarizes the stockwater and commercial uses at the Murgoitio dairy through a recent count in April of 2023. These numbers reflect their use during the development period for permit 63-31662, for which proof of beneficial use was submitted on June 26, 2006.

In the attached spreadsheet I tabulated the stockwater and commercial use volumes in the Murgoitio water right decrees (63-17946 and 63-32217), and compared them to their water use.

Thanks.

Dan

Daniel V. Steenson

Attorney at Law

SAWTOOTH LAW OFFICES, PLLC

1101 W. River St., Ste. 110

P.O. Box 7985

Boise, ID 83707

Direct: (208) 629-7435

Office: (208) 629-7447

Fax: (208) 629-7559

dan@sawtoothlaw.com

From: victorina murgoitio <pyreneerr@q.com>

Sent: Tuesday, June 18, 2024 2:07 PM

To: Dan Steenson <dan@sawtoothlaw.com>

Subject: #s

Stockwater Volume requirement

Milking Cows 1259 @ 34 Gal/day

Dry Cows 220 @ 14 Gal/day

Heifers 363 @ 12 Gal/day

These are based off the sheet that I gave you at our meeting

Commercial Volume requirement

Wash Pen Estimate-N/A (dry scrape dairy)

Milking Parlor Estimates

Bulk Tank 140 Gals 1x/day

Cow Prep .50 Gals 3098x's/day

Pipelines 150 Gals 2x/day

Parlor Cleanup 800 Gals 2x/day

Hospital Barn Use-N/A

Miscellaneous Uses

Towel Washing 50 Gals 2x/day

Employee Showers & Restrooms 50 Gals 2x/day

Milk Truck Wash 50 Gals 1x/day

Let me know when you receive this and if you need any more information

Thanks

Vic

MURGOITIO WATER RIGHTS

	Rate (cfs)	Rate (gpd)	Volume (afa)
63-17946 (decree)			
stockwater	0.38	21,337	23.9
commercial			
domestic	0.04	13,000	1.2
63-32217 (decree)			
stockwater	0.24	12,588	14.1
commercial	0.1	2,768	3.1
<u>domestic</u>	<u>0.04</u>	<u>1,071</u>	<u>1.2</u>
Total decrees	0.62	33,924	38
stockwater			
commercial	0.1	2,768	3.1
domestic	0.08	2,143	2.4
63-31662 (permit)			
stockwater	0.46		
commercial	<u>0.08</u>		
<u>domestic</u>			
Total decrees & permit			
stockwater	1.08		38
commercial	0.18		3.1
domestic	0.08		2.4

63-31662
 Volume Estimates
 from Dan Steenson
 and Murgoitos from
 7/5/2024 e-mail

MURGOITIO WATER USE

	stockwater	number	rate (gpd)	total (gpd)	Water Use (afa)	Decreed volumes (afa)	Difference (afa)
	Milking Cows	1,259	34	42,806			
	Dry Cows	220	14	3,080			
	Heifers	363	12	4,356			
	Total			<u>50,242</u>	56.28	38.00	18.28
	Commercial (Milking Parlor)						
	Bulk Tank			140			
	Cow Prep			1,549			
	Pipelines			300			
	Parlor Cleanup			1,600			
	Towel Washing			100			
	Showers & Restrooms			100			
	<u>Milk Truck Wash</u>			<u>50</u>			
	Total			3,839	4.30	3.10	1.20

MURGOITIO WATER RIGHTS

	Rate (cfs)	Rate (gpd)	Volume (afa)
63-17946 (decree)			
stockwater	0.38	21,337	23.9
commercial			
domestic	0.04	13,000	1.2
63-32217 (decree)			
stockwater	0.24	12,588	14.1
commercial	0.1	2,768	3.1
domestic	0.04	1,071	1.2
Total decrees	0.62	33,924	38
stockwater			
commercial	0.1	2,768	3.1
domestic	0.08	2,143	2.4
63-31662 (permit)			
stockwater	0.46		
commercial	0.08		
domestic			
Total decrees & permit	1.08		38
stockwater			
commercial	0.18		3.1
domestic	0.08		2.4

MURGOITIO WATER USE

	number	rate (gpd)	total (gpd)	Water Use (afa)	Decreed volumes (afa)	Difference (afa)
stockwater						
Milking Cows	1,259	34	42,806			
Dry Cows	220	14	3,080			
Helpers	363	12	4,356			
Total			50,242	56.28 ✓	38.00	18.28
Commercial (Milking Parlor)						
Bulk Tank			140			
Cow Prep			1,549			
Pipelines			300			
Parlor Cleanup			1,600			
Towel Washing			100			
Showers & Restrooms			100			
Milk Truck Wash			50			
Total			3,839	4.30 ✓	3.10	1.20

54.0 AF

seems low

63-31662

63-17946

63-32217

23.9 AF includes domestic 0.42 cfs

18.4 AF includes domestic 0.38 cfs

42.3 AF

0.80 cfs

Water use estimate provided by Dan Steenson
via 7/5/2024 e-mail.

63-31662

MURGOITTO FARM
SOUTH PLACE

Murgoitto Farm
7373 S. Maple Grove
Boise, ID 83709
(208) 362-1959
N 48 32 368 W 116 17 668 GPS
Date-----

16 LEGEND

- 1....Dry Storage
- 2....Silage
- 3....Lagoon
- 4....Lagoon
- 5....Lagoon
- 6....Lagoon
- 7....Dry Storage
- 8....Loafing shed
- 9....Loafing shed
- 10....House
- 11....Parlor
- 12....Grain Storage
- 13...Old Building
- 14...Dry Storage
- 15...Dry Storage
- L....Lots
- C....Concrete Ramps
- =...Pipeline
- w...Well



Scale 1"=200'

63-31662
map from
8/8/2024
e-mail

Farm Location
Idaho Transverse Mercator
 Coordinates of the farm center (meters): X = 2307210.72149593, Y = 1377045.42489362
 Map Scale: Unknown

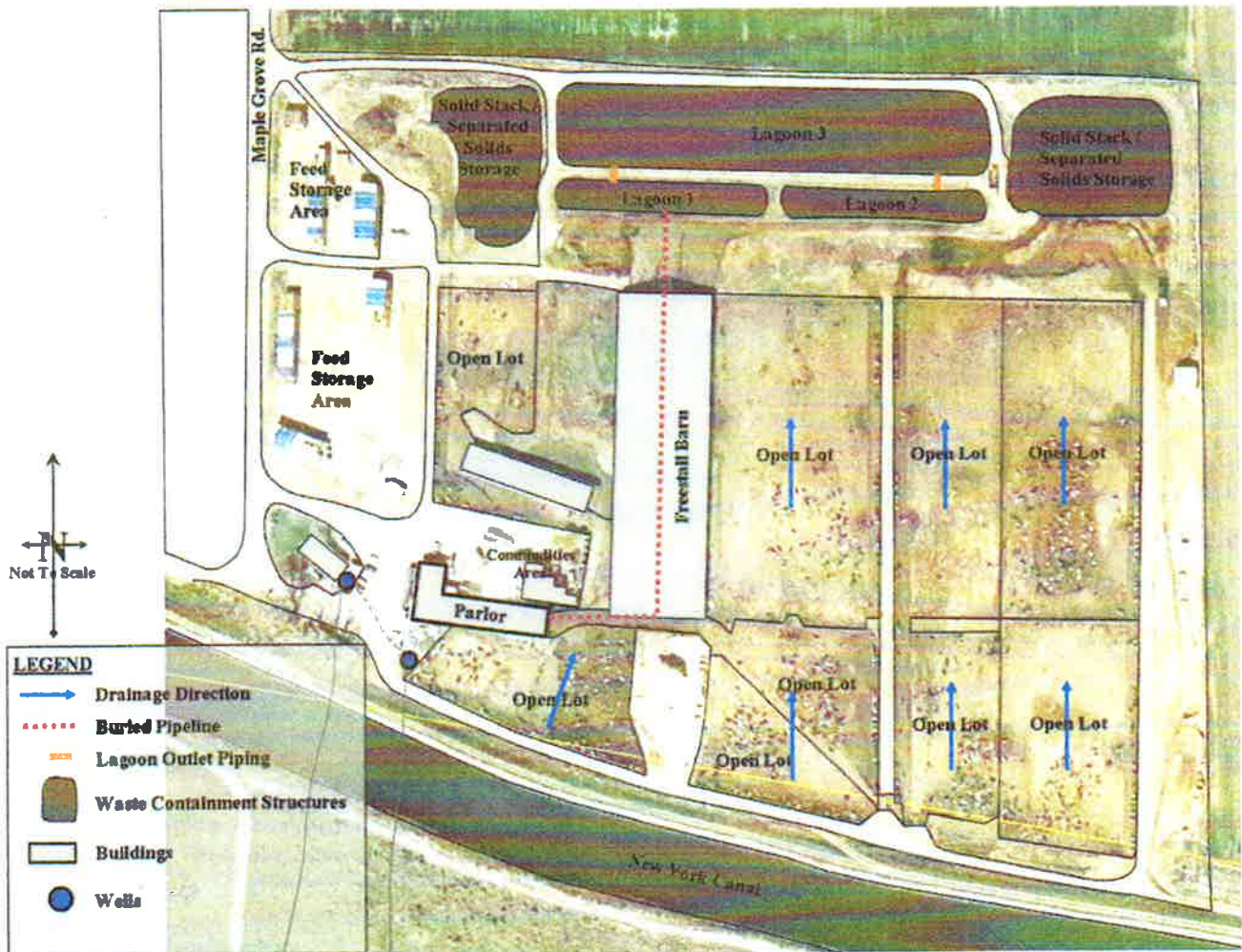
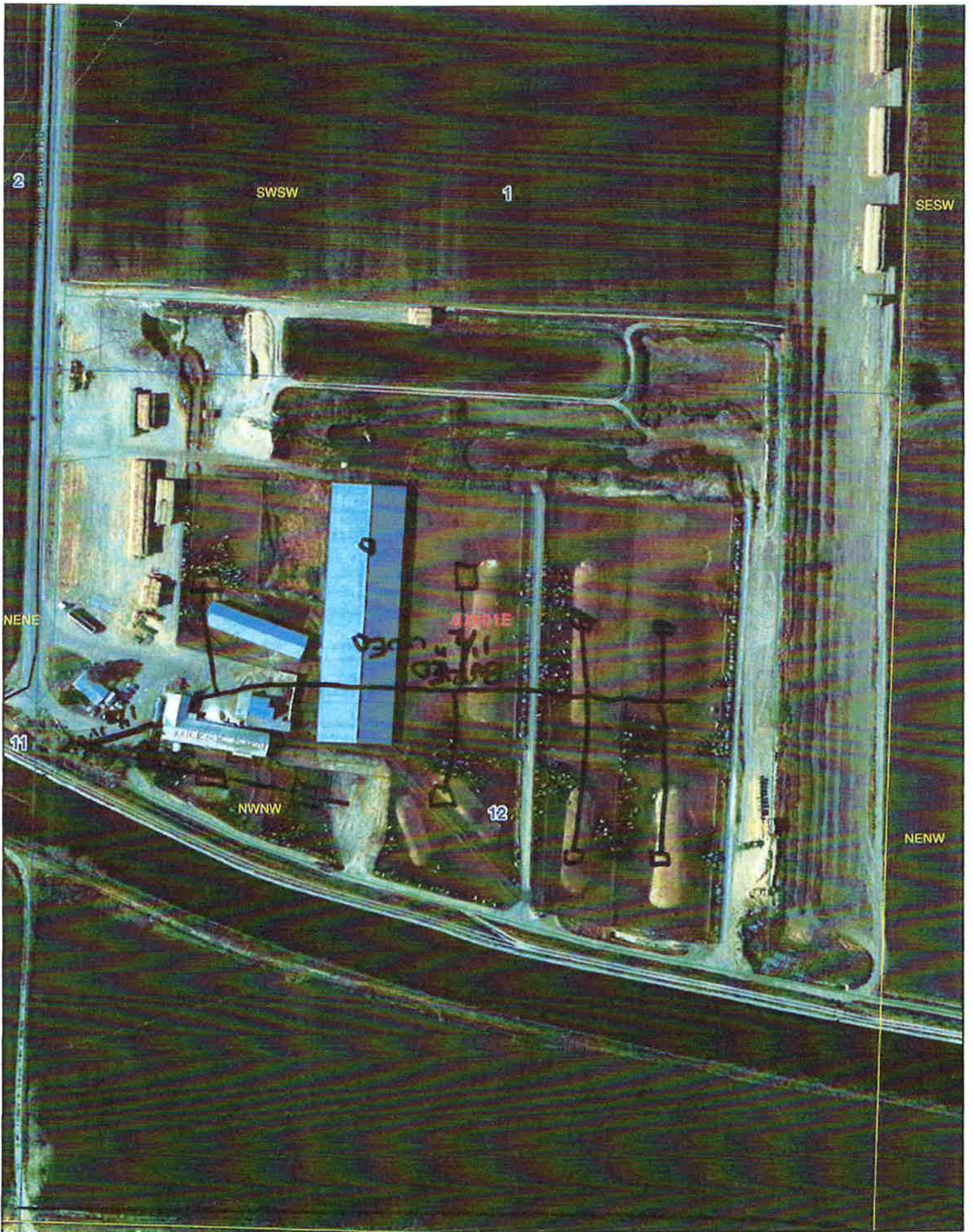


Figure 12. Dairy Facility Map

63-31662
 map from
 8/8/2024 e-mail

Well #1

Well #2



63-31662

AUGUST 2011 PUT IN PIT NOT ON PHOTO
63-31662 map from 8/8/2024 e-mail

Bing (2011?) Aerial Photo

63-31662

well # 1

Closest to
dairy barn

from 8/8/2024

e-mail

63-31662
well #2
close to the
mobile home



from 8/8/2024
e-mail

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-316621. Owner LOUIS + RICHARD MURGOITO Phone No. (208) 362-1262Current address 7373 MAPLE GROVE RD BOISE ID 837092. Examiner's name ANDIE GRIMM EXAM DATE 6/22/20123. Accompanied by LOU + VICTORIA MURGOITO Email _____Address SAME AS ABOVERelationship to permit holder OWNER Phone No. SAME4. Source GROUND WATER tributary to N/A**B. OVERLAP REVIEW**1. Other water rights with the same place of use 63-17946 + 63-322172. Other water rights with the same source and point of diversion 63-17946 + 63-32217**C. DIVERSION AND DELIVERY SYSTEM**

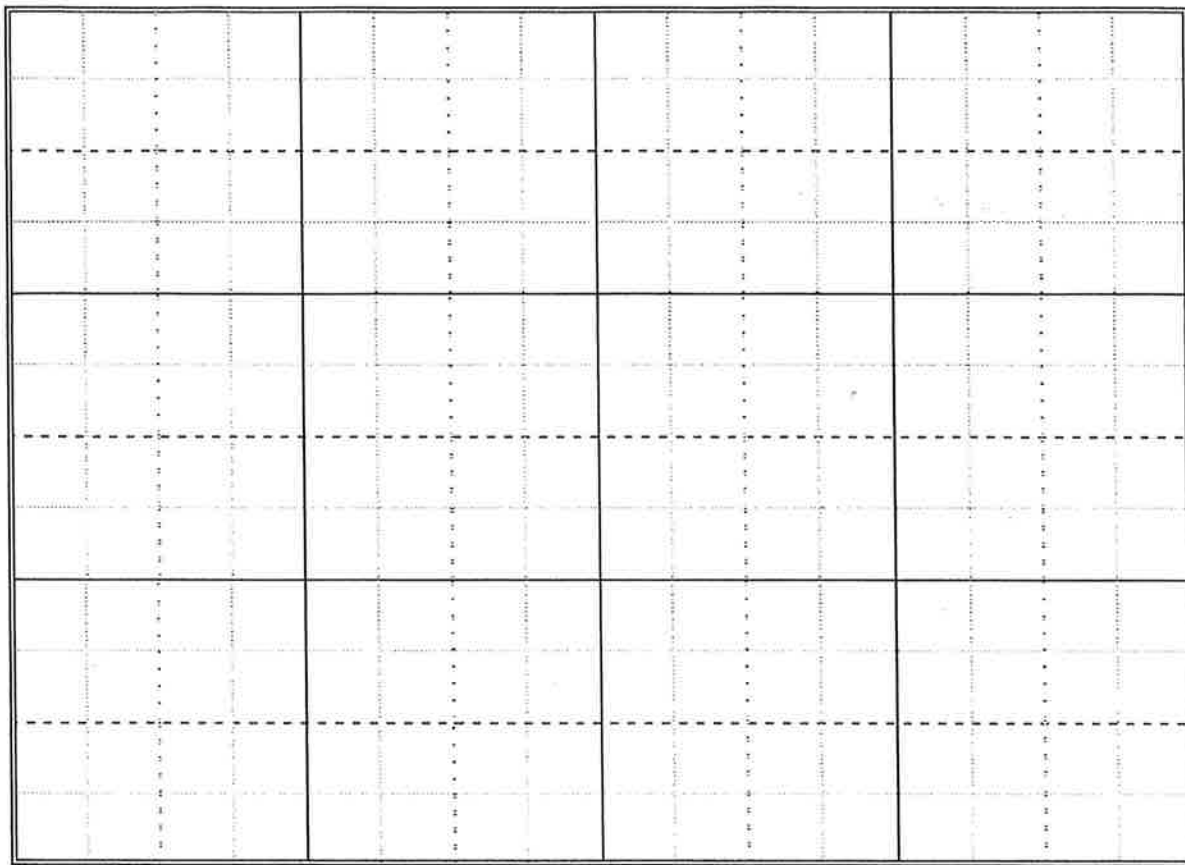
1. Point(s) of Diversion:

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
1									WEU #1 GPS PT 106 N43.53040° W 116.29379°
2									WEU #2 GPS PT 107 N43.53041° W 116.29355°

2. Place(s) of Use: Method of determination GPS - GARMIN NAD83 DATA + FIELD VERIF. W/ AERIAL PHOTO

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
2N	1E	12						S											
2N	1E	12						C											
2N	1E	1							S										
2N	1E	1							C										

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



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 #1 A0013044 D0009346		5+5 HP		Goulds	1 1/2" DISCHARGE 1" DIA
Well #2 NO TAG		5+2 HP		Goulds	1 1/2" DISCHARGE 1" DIA

*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: NO MEASUREMENT TAKEN. NO PLACE FOR POLYSONIC MEASUREMENT. 1 1/2" DISCHARGE PIPES.

E. NARRATIVE/REMARKS/COMMENTS

1/2" lines from wells into barn tied together valves can use either well. use both @ same time.

Pressure gage LOCATED AFTER PSI TANK.

Well #2 5 HP + 2 HP off pressure tank ~55-60 PSI w/ tank. No gage on wells prior to tank/barn system.
Well #1 has 5 HP + 5 HP

Washing milk tanks + pit where cows milked inside barn. No sprinklers in holding pen for washing. No wash pad.

Dry farm operation.

Concrete tanks w/ float system. 1/2" tee off mainline up into tanks w/ floats. When low fill up

=> 2 HOUSES SAME SYSTEM (UNRECORDED WKS) ALL PUMPED TO 2 WELLS

THEO HP EQS:

Well #1 HP: 5 { 2 PUMPS? } PSI = 55 $\therefore$ STATIC WL = 75' + 10' = 85' HYDRAULIC PUMPING CENTER
 $Q = \frac{8.8 \times 0.7 \times 5}{85' + (2.31 \times 55 \text{ PSI})} = \frac{30.8}{212.05} = 0.15 \text{ CFS}$

Well #2 HP: 5 { 2 PUMPS PARALLEL 1 5HP & 2 HP } PSI = 55 STATIC WL = 95' + 10' = 105' $\therefore$
 $Q = \frac{8.8 \times 0.7 \times 5}{105' + (2.31 \times 55)} = \frac{30.8}{232.05} = 0.13 \text{ CFS}$

PUMP CURVES ??

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☐ Yes ☐ No If no, what must be done to meet the permit requirements?

Well #1 deepened in 1999. This permit approved 2003.

Well #2 drilled 1995. Not sure why only one P/A on permit. License amendment to add well.

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 on page 1☐ Add P.D. as reflected on page 1☐ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature _____ Date _____

SEAL

Reviewer _____ Date _____

4/2011

IDAHO DEPARTMENT OF WATER RESOURCES
FIELD EXAMINERS
WELL INSPECTION FORM

1. IDENTIFICATION # D0009346 · WC NEW ID # 377817 DEEPENED WELL ID # 295101 (Tag #, etc.)

OTHER APPLICABLE # 103-17946, 103-32217 + 103-31662 (Water right #, etc.)

2. OWNER LOUIS + RICHARD MURGOITO Phone (208) 362-1262

Address 1373 MAPLE GROVE RD. City BOISE

State ID Zip 83709 Email _____

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

Lat. N 43.530429° Long. W 116.293825°

Twp 2N Rge 1E Sec 12 ¼ NW ¼ NW

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

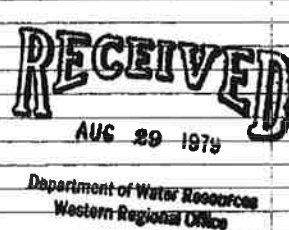
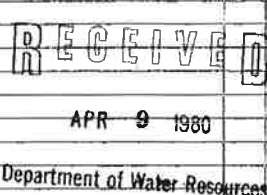
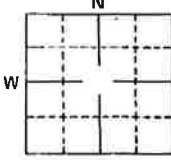
Flowing artesian ☐ Yes ☐ No Pressure if measured _____ psi

NOTES NO MEASUREMENTS TAKEN.

INSPECTED BY Angeli M. Gorman DATE 6/22/2012

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.

1. WELL OWNER Name <u>Louis Murgoitio</u> Address <u>7373 S. Maple Grove Road</u> <u>83709</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>99</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____																																										
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☒ Pump ☐ Bailor ☐ Air ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> <tr> <td style="text-align: center;">60</td> <td style="text-align: center;">114'</td> <td style="text-align: center;">1</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	Discharge G.P.M.	Pumping Level	Hours Pumped	60	114'	1																																				
Discharge G.P.M.	Pumping Level	Hours Pumped																																									
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3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☒ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type) _____	9. LITHOLOGIC LOG 106498 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2">Hole Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th rowspan="2">Water Yes/No</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td>10</td> <td>0</td> <td>3</td> <td>clay topsoil</td> <td>X</td> </tr> <tr> <td></td> <td>3</td> <td>20</td> <td>clay hardpan</td> <td>X</td> </tr> <tr> <td></td> <td>20</td> <td>41</td> <td>clay & gravel</td> <td>X</td> </tr> <tr> <td></td> <td>41</td> <td>67</td> <td>clay, sand & gravel</td> <td>X</td> </tr> <tr> <td></td> <td>67</td> <td>140</td> <td>sand & gravel (water from 99')</td> <td> </td> </tr> <tr> <td></td> <td>140</td> <td>144</td> <td>clay</td> <td>X</td> </tr> <tr> <td></td> <td>144</td> <td>152'6"</td> <td>sand & gravel</td> <td>X</td> </tr> </table>	Hole Diam.	Depth		Material	Water Yes/No	From	To	10	0	3	clay topsoil	X		3	20	clay hardpan	X		20	41	clay & gravel	X		41	67	clay, sand & gravel	X		67	140	sand & gravel (water from 99')			140	144	clay	X		144	152'6"	sand & gravel	X
Hole Diam.	Depth		Material	Water Yes/No																																							
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	144	152'6"	sand & gravel	X																																							
4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☒ Cable ☐ Dug ☐ Other _____	 																																										
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> <tr> <td>.250 inches</td> <td>10 inches</td> <td>1 feet</td> <td>146 feet</td> </tr> <tr> <td>.250 inches</td> <td>8 inches</td> <td>141 feet</td> <td>146 feet</td> </tr> <tr> <td>.250 inches</td> <td>8 inches</td> <td>151'4" feet</td> <td>152'6" feet</td> </tr> </table> Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☒ Yes ☐ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </table> Well screen installed? ☒ Yes ☐ No Manufacturer's name <u>Johnson</u> Type <u>stainless steel</u> Model No. <u>304</u> Diameter <u>8</u> Slot size <u>40</u> Set from <u>146</u> feet to <u>151'4"</u> feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>30</u> Material used in seal: ☐ Cement grout ☒ Puddling clay ☒ Well cuttings Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port _____	Thickness	Diameter	From	To	.250 inches	10 inches	1 feet	146 feet	.250 inches	8 inches	141 feet	146 feet	.250 inches	8 inches	151'4" feet	152'6" feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	10. Work started <u>7/12/79</u> finished <u>7/24/79</u>														
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6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ <u>North of N.Y. Canal</u> County <u>Ada</u> <u>1/4</u> N/W <u>12</u> Sec. <u>2</u> T. <u>2</u> N. <u>1</u> E. <u>10</u>	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>H.E. Stevens & Sons</u> Firm No. <u>153</u> Address <u>3709 Hawthorne Drive</u> Date <u>7/26/79</u> Signed by (Firm Official) <u>[Signature]</u> and (Operator) <u>[Signature]</u> MICROFILMED																																										

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

IDAHO DEPARTMENT OF WATER RESOURCES FIELD EXAMINERS WELL INSPECTION FORM

1. IDENTIFICATION # NO METAL TAG. WELL CONST. WELL ID# 299148

ABANDONMENT PREVIOUS WELL
(Tag #, etc.) WELL ID 299147

OTHER APPLICABLE # 63-17946, 63-32219, + 63-311662 (Water right #, etc.)

2. OWNER LOUIS + RICHARD MURGOITIO Phone (208) 362-1262

Address 7373 MAPLE GROVE RD. City BOISE

State ID Zip 83709 Email _____

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

Lat. N 43.5304° Long. W 116.293549°

Twp 2N Rge 1E Sec 12 ¼ NW ¼ NW

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

Angela M. Quinn

DATE 6/22/2012

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUse Typewriter
or
Ball Point Pen63 95 W 0136 200
000

64005

1. DRILLING PERMIT NO. 63-17946
Other IDWR No. 63-179462. OWNER:
Name MURGOITIC, LOU, VICTORIA, ROSEMARIE, RICHARD
Address 1373 S. MAPLE GROVE RD.
City BOISE State ID Zip 83709

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N		Twp. <u>2N</u>		North ☐	or	South ☐
E		Rge. <u>1E</u>		East ☐	or	West ☐
S		Sec. <u>13</u>		1/4 NW 1/4 NE 1/4 SE 1/4		
W		Gov't Lot <u>ADA</u>		County <u>ADA</u>		

Address of Well Site 7990 S. Maple Grove
City BOISE State ID

Lt. _____ Blk. _____ Sub. Name _____

4. PROPOSED USE: COMMERCIAL/DAIRY☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____5. TYPE OF WORK REPLACEMENT☐ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment6. DRILL METHOD AIR ROTARY☐ Mud Rotary ☐ Air Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
BENTONITE	0	18	600#		POURED

Was drive shoe used? ☐ Y ☐ N Shoe Depth(s) _____
Was drive shoe seal tested? Y ☐ N ☐ How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
18"	1	215	230	STEEL	☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe NONE Length of Tailpipe NONE9. PERFORATIONS/SCREENS NONE☐ Perforations Method _____
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

95 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
14"	0	1	TOPSOIL		X
	1	10	SLTY CLAY		X
	10	15	SLTY CLAY		X
10"	15	20	SLTY CLAY		X
	20	25	SMALL GRAVEL & SAND		X
	25	30	SAND		X
	30	35	SMALL GRAVEL & SAND		X
	35	40	SMALL GRAVEL & SAND	X	
	40	120	BROWN CLAY		X
	120	140	BROWN COARSE SAND	X	
	140	160	BROWN CLAY		X
	160	195	BROWN COARSE SAND	X	
	195	210	BROWN CLAY		X
	210	215	STICKY BROWN CLAY	X	
	215	218	SAND	X	
	218		SAND	X	

RECEIVED
DEC 20 1995
Department of Water Resources

RECEIVED
APR 28 1995
MAR 07 1996
WATER RESOURCES
WESTERN REGION

Completed Depth 218 FEET (Measurable)
Date: Started 4/1/95 Completed 4/9/95

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name PIZZI COPE DRILLING CO. INC. Firm No. 213Firm Official [Signature] Date _____

and Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES



63-31662

AUGUST 2011 PUT IN PIT NOT ON PHOTO

Bing (2011?) Aerial Photo