

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 36-8666

Exam Date: 7/10/2012
See Narrative

1. Current Owner: VERBREE LAND HOLDINGS LLC
PO BOX 30
WENDELL ID 83355
(208)536-6539

2. Accompanied by: See Narrative

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

- Other water rights with the same place of use: 36-15999
- Other water rights with the same point of diversion: none (unless tied together w/36-15999)

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

GROUND WATER

NW1/4SW1/4

Sec. 25, Twp 07S, Rge 14E, B.M.

GOODING County

Method of Determination: site visit; GPS point gathered by IDWR staff/MMIS points (400090)

2.

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	
07S	14E	25												X					

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	
07S	14E	25												X					

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07S	14E	25												X					

Method of Determination: site visit , 2011 IDWR aerial photography

3. _____ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ___X___ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ___X___ Aerial Photo Attached (required for irrigation of 10+ acres).
- ___X___ 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>
A0011857 (submers.)	?	5	?	?	?

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

D. FLOW MEASUREMENTS

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>
Magmeter	Portaflow	Fugi	Magmeter	240332	3 in	3/2012

2. Measurements:

A0011857 measured at 14 gpm (0.03 cfs), only 1 hose running (maximum instantaneous flow = 126.7 gpm) or **0.28 cfs****E. FLOW CALCULATIONS**

_____ Additional Computation Sheets Attached

Measured Method: Theoretical Equation

$$Q = \frac{(8.8) \times (H.P.) \times (Eff.)}{(Lift) + (PSI \times 2.31)} = \frac{(8.8) \times (5) \times (0.70)}{(99) + (9 \times 2.31)} = \frac{30.8}{119.8} = \mathbf{0.26 \text{ cfs}}$$

*(figures obtained from Stanton's Dairy worksheet in file)

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses:

Stockwater: 430 dairy cows X 35 gpday X 365 days divided by 325,850 gper AF = **16.86 AFA**100 dry cows X 12 gpday X 365 days divided by 325,850 gperAF = **1.34 AFA****Total Volume for Stockwater = 18.20 AFA**Commercial: See attached Dairy Worksheet - **26.9 AFA**

System Capacity: 0.27 cfs X 1.9835 AF/cfs X 365 days = 195.47 AF

Domestic: Domestic in home and yard (2 homes) = **2.4 AFA****Total Volume: 47.5 AFA**

G. NARRATIVE/REMARKS/COMMENTS

Visited Dairy #2 on 7/10/2012 with fellow IDWR Agent Jana Reeder. We measured the well but only 1 small hose was running at the time and we recorded 14 gpm but the instantaneous maximum diversion rate is 126.7 cfs. Proof was submitted in 1995. (There is another well at this dairy under right 36-15999 which is authorized for the diversion of 0.30 cfs and 45.00 AF for stockwater and commercial uses. We actually measured about 2.00 cfs on that well but 36-15999 was transferred in through approved transfer 5538 as a portion of 36-7554B for an expansion of the existing dairy. The second well was drilled in 2002. It is unclear if these two wells are currently tied together and if so, when that occurred? I think this right should only be for the first well and if they are tied together, a transfer should be filed.) Meters are being installed in this Dairy.

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>
STOCKWATER	01/01 to 12/31	0.270 CFS	18.20 AF
COMMERCIAL	01/01 to 12/31	0.270 CFS	26.90 AF
DOMESTIC	01/01 to 12/31	0.060 CFS	2.40 AF
<u>Totals:</u>		0.270 CFS	47.50 AF

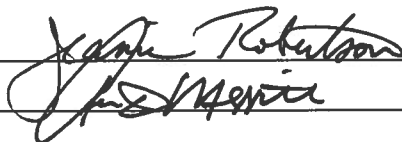
2. Recommended Amendments

☐ 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



Date

8/31/2012

Reviewer



Date

9/14/2012

36-8666

Verbee Dairy #2

priority date 7/10/92

0.27 cfs for Dom (2 homes), S, Comm. (430 milking, 100 range)

well was drilled 8/11/92

(as dom. originally, additional fees were collected when proof was submitted in 1995)

- ⁵⁵³⁵ transfer was received 7/14/99 and approved 6/19/2000
it split off a portion of irig. st. 36-75348 to create
36-15999 for a dairy expansion; eft of time till 3/28/2003
- ^{new} well was drilled in 2002

Amenda Tolson scheduled a field exam in Aug. 2000 & met with
May. Verbee who informed Amenda that they were waiting
for a 2nd. well to be drilled

- ? are the two wells tied together?
? when?
? before or after proof was filed?

2nd. well was measured @ 90 gpm on 7/10/12 = 2 cfs
(only st. for 36-15999 = 0.3 cfs)

* Dairy worksheet in file shows 0.26 cfs + 46.9 AF needed
- meters being installed

FILE NUMBER 36-08667
REVIEWER je stanton

DAIRIES: WATER USE WORKSHEET

REQUIRED DAIRY DATA

NUMBER OF MILKING CATTLE 463
NUMBER OF NONMILKING CATTLE 0
IF LAGOON IS AEROBIC, ENTER ITS SURFACE AREA IN ACRES;
IF ANAEROBIC, ENTER ZERO 1.0
EVAPOTRANSPIRATION FACTOR FOR AREA (AC-FT/AC-YR) 4
ENTER 1 FOR MANUAL COW WASHING, 2 FOR AUTOMATIC, OR 3 IF
SPRINKLERS ARE USED TO FLUSH HOLDING PEN AND WASH COWS 3
NUMBER OF MILKINGS PER DAY 3

CALCULATIONS

DIVERSION RATE FOR STOCKWATER (CFS):

MILKING CATTLE @35 GPD/HD 0.30
MILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * 0.32
NONMILKING CATTLE @12 GPD/HD 0.00
NONMILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * 0.00
TOTAL (BASED UPON ROUNDED NUMBERS) 0.32

DIVERSION VOLUME (AFA):

STOCKWATER
MILKING CATTLE @35 GPD/HD 18.2
MILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * 20.0
NONMILKING CATTLE @12 GPD/HD 0.0
NONMILKING CATTLE (NUMBER OF CATTLE ROUNDED UP) * 0.0
TOTAL (BASED UPON ROUNDED NUMBERS) 20.0

COMMERCIAL

WASHING OF BULK TANK AND RELATED EQUIPMENT 0.5
PARLOR FLOOR AND MILKHOUSE FLOOR 0.1
CATTLE WASHING BASED UPON METHOD OF WASHING 26.2
TOTAL 26.9

TOTAL DIVERSION VOLUME 46.9

CONSUMPTIVE USE VOLUME (AFA):

STOCKWATER
MILKING 2.9
NONMILKING 0.0
TOTAL 2.9

COMMERCIAL 4.0

TOTAL CONSUMPTIVE USE 6.9

* NUMBER OF CATTLE ROUNDED UP TO AGREE WITH EXISTING TABLES.

THEORETICAL FLOW ESTIMATION WORKSHEET

REQUIRED PUMP INFORMATION

PUMP HORSEPOWER (HP) 5.00
LIFT (FT) 98
DISCHARGE PRESSURE (PSI) 9
FRICTION LOSSES (FT) 0.0
PUMP 1 5.00
PUMP 2 0.00
PUMP 3 0.00

CALCULATIONS

THEORETICAL FLOW RATE (CFS) * 0.26
DIVERSION VOLUME (AFA) ** 186.1
PUMP 1 0.26
PUMP 2 0.00
PUMP 3 0.00

* PUMP EFFICIENCY WAS ASSUMED TO BE 70%.
* DIVERSION VOLUME IS THE ABSOLUTE MAXIMUM VOLUME BASED ON THE
THEORETICAL FLOW RATE ASSUMING PUMP RUNS CONTINUOUSLY EVERY
DAY OF THE YEAR.

Dairy #2

11.7 ac. ~ 12 ac

7/10/12



36-8666



tag A0011857

36-8666

36-15999 tag D0023261

Commercial = yellow

25

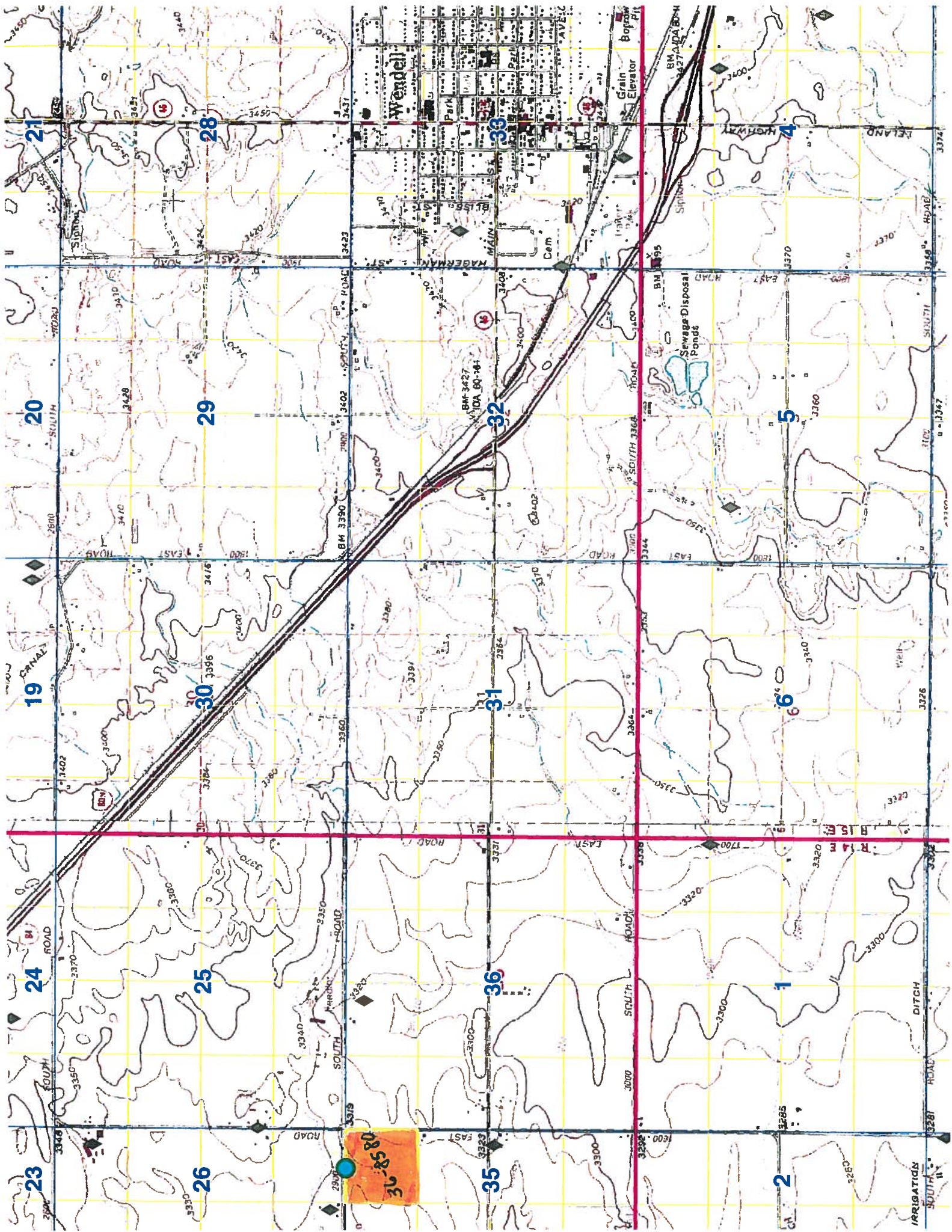
26

36-8666 tag A0011857

Stockwater = orange

domestic = red

Bing Maps
2010



Verbrec #1 WMIS 400090
A0011857

Fuji Portaflow Ser. 240332
calibrated 3/2012

36-8666 2.5" pipe diam
151 ^{thickness} ~~spacing~~

14 gpm / only hose running;

5 min average: instantaneous max 126.7

Verbrec #2 WMIS 401161
A0007896

last

Verbrec A0007897

micrometer
ser # 98 103725
tot = 148290 gal X 16
(broken meter)

Verbrec #3 S0023261

micrometer

36-15999

.193 thickness

pipe diameter: 2.9"

ser. # 01 0874525

237793 gal X 100

spacing

~~47.78~~
~~47.64~~

sound speed

psi 70

10 min. 29 sec.

(Bryan says 35% off?)

meter: beg. 237819 end. 237827

meas = 901 gpm

$\frac{19}{800}$

(off 100 gpm / 10%?)

#4 Lloyd well

A0005535 ✓

Verbrec A0011815

pld # 07514E3512

broken seismos meter

submersible - not on

(hwy down)

will turn on if nec.

07514E3512

Verbrec A0007898

micrometer
meter

532002 X 10

TPCD 45581768

inult x 1

KH 21.6

0 demand

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState 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>Jack Verbree</u> Address <u>1574 East 2900 South Wendell, ID</u> Drilling Permit No. <u>36-92-S-224-000</u> 83355 Water Right Permit No. <u>36-8666</u>	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 _____ OF. Quality _____ Describe artesian or temperature zones below _____																																																																																																																
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	8. WELL TEST DATA ☐ Pump ☐ Baller ☐ Air ☐ Other _____ Discharge G.P.M. _____ Pumping Level _____ Hours Pumped _____																																																																																																																
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG <u>89056</u> <table border="1"><thead><tr><th rowspan="2">Bore Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>8"</td><td>0</td><td>6</td><td>Sand & gravel</td><td></td><td>x</td></tr><tr><td></td><td>6</td><td>18</td><td>Lava</td><td></td><td>x</td></tr><tr><td></td><td>18</td><td>20</td><td>Broken lava</td><td></td><td>x</td></tr><tr><td></td><td>20</td><td>22</td><td>Lava</td><td></td><td>x</td></tr><tr><td>6"</td><td>22</td><td>25</td><td>Lava</td><td></td><td>x</td></tr><tr><td></td><td>25</td><td>30</td><td>Cinders (no circulation)</td><td></td><td></td></tr><tr><td></td><td>30</td><td>45</td><td>Lava</td><td></td><td>x</td></tr><tr><td></td><td>45</td><td>54</td><td>Cinders & clay</td><td></td><td>x</td></tr><tr><td></td><td>54</td><td>69</td><td>Lava</td><td></td><td>x</td></tr><tr><td></td><td>69</td><td>78</td><td>Cinders</td><td></td><td>x</td></tr><tr><td></td><td>78</td><td>100</td><td>Lava</td><td></td><td>x</td></tr><tr><td></td><td>100</td><td>107</td><td>Cinders</td><td>x</td><td></td></tr><tr><td></td><td>107</td><td>125</td><td>Lava</td><td></td><td>x</td></tr><tr><td></td><td>125</td><td>132</td><td>Cinders & clay</td><td>x</td><td></td></tr><tr><td></td><td>132</td><td>148</td><td>Lava</td><td></td><td>x</td></tr><tr><td></td><td>148</td><td>163</td><td>Cinders</td><td>x</td><td></td></tr><tr><td></td><td>163</td><td>170</td><td>Lava</td><td></td><td>x</td></tr></tbody></table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	8"	0	6	Sand & gravel		x		6	18	Lava		x		18	20	Broken lava		x		20	22	Lava		x	6"	22	25	Lava		x		25	30	Cinders (no circulation)				30	45	Lava		x		45	54	Cinders & clay		x		54	69	Lava		x		69	78	Cinders		x		78	100	Lava		x		100	107	Cinders	x			107	125	Lava		x		125	132	Cinders & clay	x			132	148	Lava		x		148	163	Cinders	x			163	170	Lava		x
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	163	170	Lava		x																																																																																																												
4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were completed with at the time the rig was removed. Firm Name <u>Elsing Drilling</u> Firm No. <u>31</u> P.O. Box <u>919</u> Address <u>Twin Falls, ID 83303</u> Date <u>8-13-92</u> Signed by (Firm Official) <u>Arnold Elsing</u> and (Operator) <u>Mark Elsing</u>																																																																																																																
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness Diameter From To <u>.250</u> inches <u>6-5/8</u> inches + <u>1</u> feet <u>22</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☐ Yes ☒ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation _____ inches by _____ inches Number From To _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ 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>23'</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Puddling clay ☐ _____ 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 <u>Well Cap</u>	6. LOCATION OF WELL Sketch map location <u>must</u> agree with written location. N W 25 E X S County <u>Gooding</u> Subdivision Name _____ Lot No. _____ Block No. _____ NW ¼ SW ¼ Sec. <u>25</u> , T. <u>7</u> N ☐ S ☒ R. <u>14</u> E ☒ W ☐																																																																																																																

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

Idaho Department of Water Resources

WMIS

Water Management Information System



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WMIS Number

400090

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Point Of Diversion

You are viewing 400090; A0011857

Edit WMIS Number 400090 Network Well No
Reporting District North Snake GWD Access Power Yes
Measurement Option Flowmeter (8) Water District 130
Metal Tag Number A0011857 ✓ Tag Location well casing
Followup Date 1/1/2014 12:00:00 AM Comments TWO WELLS USED (SKING,5.16) EXEMPT PER
Diversions Name Dairy 2 Hospital Barn PUMP CURVES (5.15.95 GARYS Waived status
removed - Dairy to be expanded and use covered by
permit and pending transfer 5538. (cjh 3.3.00) Site
Tag went missing and was replaced. (old tag no.
A0011813)

*meter: 975484 (not moving) but water
in pipe*

#98 885925

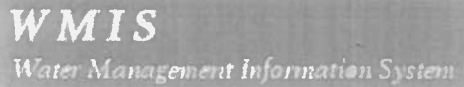
gel. x10

14gpm w/hose only running

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Water Right Number	Owner Type	Owner Name	Address	Phone	City/State/ Zip	Email
36-8666	Current Owner	NORTHWEST FARM CREDIT SERVICES FLCA	PO BOX 5059	(208) 732-1000	TWIN FALLS, ID 83303-5059	
36-8666	Current Owner	VERBREE LAND HOLDINGS LLC	PO BOX 30	(208) 536-6539	WENDELL, ID 83355	verbreedairies@msn.com

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Edit	Delete	Report Year*	Visit Date*	Examiner	Reason for Visit
		2011	11/02/2011	JDHIGGS	Flowmeter Calibration
Comments Well just north of barn, meter on north wall just inside front doors of barn. rate needle and totalizer never moved in 5 min measurement. Meter broken.					
Edit	Delete	Report Year*	Visit Date*	Examiner	Reason for Visit
		2008	12/15/2008	BHIGGS	Flowmeter Calibration
Comments Meter broken during visit.					