

[illegible]

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>
<u>WELL</u>	<u>UNKNOWN</u>	<u>5</u>	<u>UNKNOWN</u>	<u>UNKNOWN</u>	<u>UNKNOWN</u>

*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>
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2. Measurements:

NONE TAKEN

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

[1] THEORETICAL CALCULATION: ASSUME 30 PSI, 5 HP, Pump is set at 260 feet according to Mr. Mikelson, so assume pumping level is 15 feet shallower, hence, $Q = 245$ feet.

$$8.8 \times 5 \times 0.7 / 245 + 30 \times 2.31 = 30.8 / 314.3 = 0.098 = 0.10 \text{ cfs}$$

0.097

[2] permittee reports well pumps 60 gpm = $60 / 448.4 = 0.13$ cfs

[2] According to the IDWR reference for pipe flows, a 2 inch diameter pipe is capable of conveying 0.11 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NOT APPLICABLE

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

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

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

2. Volume Calculations for Other Uses:

COMMERCIAL USE

$V_{ir} = 400 \text{ washouts per year at } 3600 \text{ gallons per washout} = 400 \times 3600 = 144,0000 \text{ gpy}/325,850 \text{ gallons per af} = 4.4 \text{ af}$

$$V_{dr} = 0.11 \times 1.9865 \times 365 = 79.6 \text{ af}$$

G. NARRATIVE/REMARKS/COMMENTS

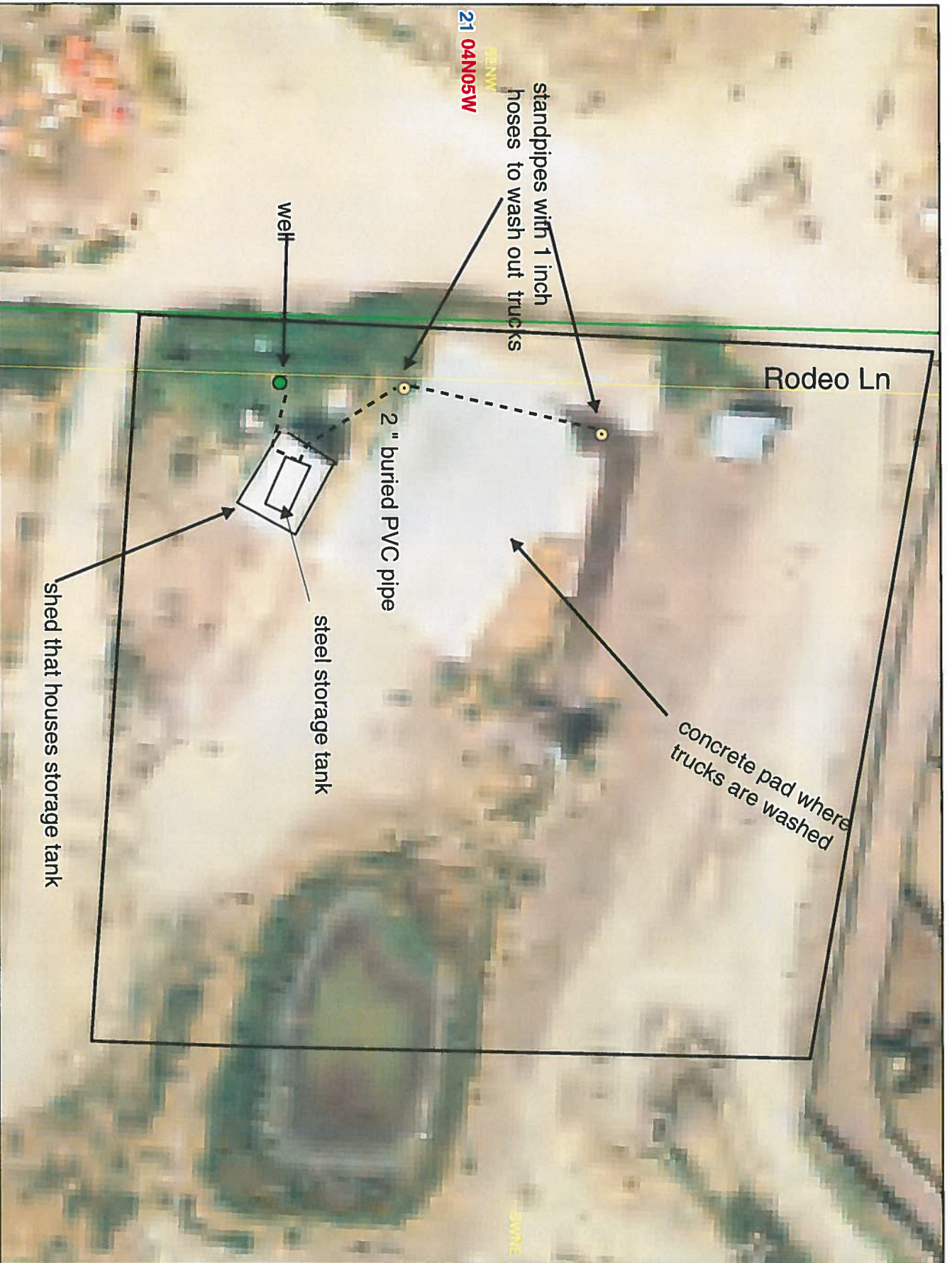
This permit was issued for 0.22 cfs for commercial use. The commercial use is for a truck washing operation, or truck washout. The trucks are used for carrying livestock for commercial clients. The permittee, Shawn Mikelson, accompanied me on the field exam. A condition on the permit state that dust control is part of the commercial use, though Mr. Mikelson said that water was not used for dust control at the permitted place of use. He wanted to use it for dust control in the stockyards surrounding the permitted place of use.

The point of diversion is a 6-inch diameter well. The well log in IDWR files that corresponds with the tag no. obtained in the field exam, D0052222, has an incorrect legal description. The well is in the SWNE of Section 21, but the log states the well is in the NWSW of section 21. The log was routed to IDWR staff to correct in the IDWR well construction database. The point of diversion was also permitted incorrectly, probably because the taxlots and the PLS layer in ArcMap are offset. The POD is in the SWNE of Section 21, not the SENW as permitted, so a permit amendment is needed.

Mr. Mikelson checked his records and indicated that the 5 hp submersible pump was set at 260 feet below the ground surface. He did not provide pump or motor specs. Mr. Mikelson works in Nevada and was not home often to be able to search his record for this information. There is enough available information to be able to calculate a diversion rate and volume without the specs.

The water is diverted from the well via a 2 inch steel pipe to buried 2-inch PVC pipe to a 6000-gallon storage tank. From the storage tank, the water is pumped as needed through buried 2-inch diameter PVC pipe to a standpipe on either side of the concrete pad where the truck park while being washed out. One-inch diameter hoses are attached to the standpipe and used to wash out the trucks.

Regarding the diversion rate, a theoretical calculation, using $Q = 245$ feet, 15 feet above the pump, resulted in a diversion rate of 0.10 cfs. Mr. Mikelson stated the well pumped 60 gpm, or 0.11 cfs. The IDWR reference for pipe flows indicates that a 2 inch diameter pipe can convey 0.11 cfs. I recommend for licensing the 0.11 cfs because the pipe flow reference is the most reliable source of information.



63-32164 -- 2013 NAIP. The commercial use is to wash out livestock trucks. The aerial and the PLS are offset. The entire POU is in the SWNE. The well is not as close to the quarter-quarter line as it appears here.

**IDAHO DEPARTMENT OF WATER RESOURCES
FIELD EXAMINERS
WELL INSPECTION FORM**

* Well 100 - Well location is wrong.

1. IDENTIFICATION # D0052222 (Tag #, etc.)
 OTHER APPLICABLE # 63'32164 (Water right #, etc.)
 2. OWNER SHAWN MILLERSON Phone 880-19420
 Address 20755 ROAD LN City WILDER
 State ID Zip 83676 Email _____

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

Lat. 43.67100 Long. -116.94184
 Twp 4N Rge 5W Sec _____ $\frac{1}{4}$ SW $\frac{1}{4}$ NE *

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 _____

INSPECTED BY Wing Wallace

DATE 6-19-14

Forwarded original to Crystal
on 6-19-14

WELL DRILLER'S REPORT

1. WELL TAG NO. D 0052222
 DRILLING PERMIT NO. _____
 Water Right or Injection Well No. _____

2. OWNER:
 Name Shawn Mikelson
 Address 20755 Rodeo Ln.
 City Wilder State Id Zip 83676

3. LOCATION OF WELL by legal description:
 You must provide address or Lot, Blk, Sub. or Directions to well.
 Twp. 4 North ☒ or South ☐
 Rge. 5 East ☐ or West ☒
 Sec. 21 NW 1/4 SW 1/4 1/4
 Gov't Lot _____ County Canyon
 Lat: _____ Long: _____
 Address of Well Site 20755 Rodeo Ln.
 City Wilder
 (Give at least name of road - Distance to Road or Landmark)
 Lt. _____ Blk. _____ Sub. Name _____

4. USE:
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight (Volume)	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>18'</u>	<u>12</u>	<u>dry pour</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 308'
 Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>6"</u>	<u>2'</u>	<u>306'</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe 5' Length of Tailpipe 0
 Packer ☒ Y ☐ N Type K-pak

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method					
Screen Type & Method of Installation <u>FACTORY</u>					
From	To	Slot Size	Number	Diameter	Material
<u>293'</u>	<u>308'</u>	<u>20</u>		<u>5"</u>	<u>Stainless</u>

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>no</u>				

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>50</u>			<u>1 hr</u>

Water Temp. 55° Bottom hole temp. _____

Water Quality test or comments: good Depth first Water Encounter 245'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water	Y	N
10"	0	12'	Topsoil			
10"	12'	35'	gravel			
6"	35'	145'	Brown clay			
6"	145'	150'	Blue sand			
6"	150'	180'	coarse gravel			
6"	180'	200'	Blue sand			
6"	200'	210'	Broken lava			
6"	210'	230'	Blue sand			
6"	230'	250'	Broken lava			
6"	250'	260'	Black sand			
6"	260'	300'	coarse gravel			
6"	300'	308'	Sand			

RECEIVED

SEP 19 2007

WATER RESOURCES
WESTERN REGION

Completed Depth 308' (Measurable)
 Date: Started 8-27-07 Completed 9-1-07

14. DRILLER'S CERTIFICATION

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

Company Name Clearwater Drilling Inc. Firm No. 382

Principal Driller Blair Kanner Date 9-7-07

Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
 Operator I must have signature of Driller/Operator II.



POD – Well with submersible pump. Steel pipe from well conveys water to buried 2 inch PVC pipe to 6000 gallon storage tank in shed. Storage tank seen in photograph below.





Water is pumped from tank for truck washing. From the pump [seen below] water is pumped through buried 2 inch PVC pipe to standpipes, with one-inch hoses attached, on either side of concrete pad where trucks are washed





This is a photograph of the truck washout area. Trucks are washed with one-inch diameter hoses, one of which is seen in photograph.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

July 22, 2014

SHAWN MIKELSON
21279 RODEO LN
WILDER ID 83676

RE: Water Right Permit No. 63-32164

Dear Permit Holder(s):

The Department of Water Resources is reviewing the permit referenced above prior to issuing a water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permit. Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Section 42-211, Idaho Code. Before a license can be issued, your permit must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permit:

 Point of Diversion

The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when it is issued. Please review the amendment form carefully. If you concur with the information presented, please sign the form and return it with the \$100.00 filing fee within 14 days.

If you have any questions, please call me at (208)334-2190.

Sincerely,

A handwritten signature in black ink that reads "Kay Walker". The signature is fluid and cursive, with the first name "Kay" and last name "Walker" clearly distinguishable.

KAY WALKER
Sr. Water Resource Agent

Enclosure

Music, Vicky

From: Shawn Mikelson [smmikelson@live.com]
Sent: Wednesday, July 16, 2014 8:15 PM
To: Music, Vicky
Subject: Re Permit To Appropriate Water No. 63-32164

Vicky Music,

I am sorry I did not get this information to you by July 11th. I have been splitting my time between here and Nevada, but that is no excuse.

I have calculated these figures and specs. The capacity of the holding tank in the building is 6000 gallons. The pump in the well is set at 260'. It will pump 30 GPM @ 60 PSI It is a 5 horse pump 240 volt 3 phase.

The washout averages 400 washouts / year (365 days 7 days a week) 1500 to 2000 gallon / washout 3 hours / day.

Once again I apologize for being late with these numbers. contact me anytime if you have any further questions.

Sincerely,

Shawn Mikelson
(208) 880-0420



State of Idaho

DEPARTMENT OF WATER RESOURCES

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Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

June 26, 2014

SHAWN MIKELSON
20755 RODEO LANE
WILDER, ID 83676

Re Permit To Appropriate Water No. 63-32164

Dear MR MIKELSON:

Thank you for allowing me to conduct the field exam on 6/12/14, for the permit referenced above, on such short notice. As I explained, a field exam is required by Idaho law before a license can be issued, at which time it becomes a water right. The license is the end product needed for continued water use.

We discussed the requirement that I calculate a diversion rate and volume for the water use. To do that, I must have pump and motor specs, the depth at which the pump is set and the pump curve. Also, please provide how the water is used in the commercial truck wash operation, for instance, the number of days per week or month, and the number of hours per day.

Please submit that information in writing by **July 11, 2014**. Failure to respond to this letter request by the deadline may result in the permit being voided or a license issued for less than the permitted amount.

You also mentioned that the dust control use permitted is not needed for the truck wash station, but for the feedlot, which is not located in the permitted place of use for the truck wash. I checked the stockwater rights that you own, 63-31635 and 63-31636, for a total of 4000 head of cattle. The two rights are limited to 0.49 cfs which is the capacity of your diversion system. Dust control is not a use on those rights. I have enclosed the partial decrees for these rights, issued by the Snake River Basin Adjudication (SRBA) court, for your records.

Please call me at 208.334.2190 if you would like to discuss this further. Thank you.

Sincerely,

Vicky Music
Sr. Water Resource Agent

Enclosures: Partial Decrees for 63-31635 and 63-31636

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