

TW P	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
16N	01W	11																2.2	
		Lot #																	
																	Total Acres =	2.2	

Method of Determination: Taxlot acres – 9.4 acres PIN RPC012000000CA Approx. 0.8 AC irrigated in 2013 with ground that appears plowed around it. System was not in place in 2013 per request for extension. Assume it was extended to plowed areas in 2014. Used 2015 Lansat to confirm.

Change in POU? ____Y____X____N Amendment Required? ____Y____X____N

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

Indicate weir size/pipe as applicable.

__ 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

*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: < _____ >

E. FLOW CALCULATIONS

____Additional Computation Sheets Attached

Measured Method:

Per App. Processing Memo #17, up to 0.03 cfs/acre for irrigation up to 5 acres acceptable. 2.2 acres(0.03 cfs) = 0.07 cfs

See theoretical pump sheet. Standard 5 HP sufficient.

Measurement = 0.07 cfs

Permit allowed = 0.15 cfs

License recommend for 0.07 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.2 \times 4.0 = 8.8$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.07 \times 246 \times 1.9835 = 34.2$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 8.8$$

2. Volume Calculations for Other Uses:

G. PURPOSE OF USE

Irrigation ____X____Y____N # Stock _____ Domestic # of Homes _____

Other: < >

Change in Purpose of Use? ____Y____N

Method of Determination: Information provided by permit holder.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

- Season of Use: 03/15-11/15 (246 days)
 Headgate: 4.0
 Cons. Use: 3.0
 Water District 67
 GW District: None

Conditions

004	This right does not grant any right-of-way or easement across the land of another.
R68	This right when combined with all other rights shall provide no more than 0.03 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the lands above.
121	The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit. - Use condition 103 on licenses.

- Water district not described as covering GW. No condition.
- No overlap condition – Although POU is indicated overlapped by Lost Valley Res. Co. & Soreenson Rinehart Ditch Co, there is no evidence of water delivery. Irr. Co. POUs actually to the East.

Have conditions of permit approval been met? ☒ Yes ☐ No**I. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	03/15 to 11/15	0.07 CFS	8.8 AF
<u>Totals:</u>		0.07 CFS	8.8 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

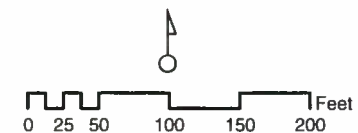
Other: < >

J. AUTHENTICATION

Field Examiner's Name *Donald B. Farnum* Date 07/16/15

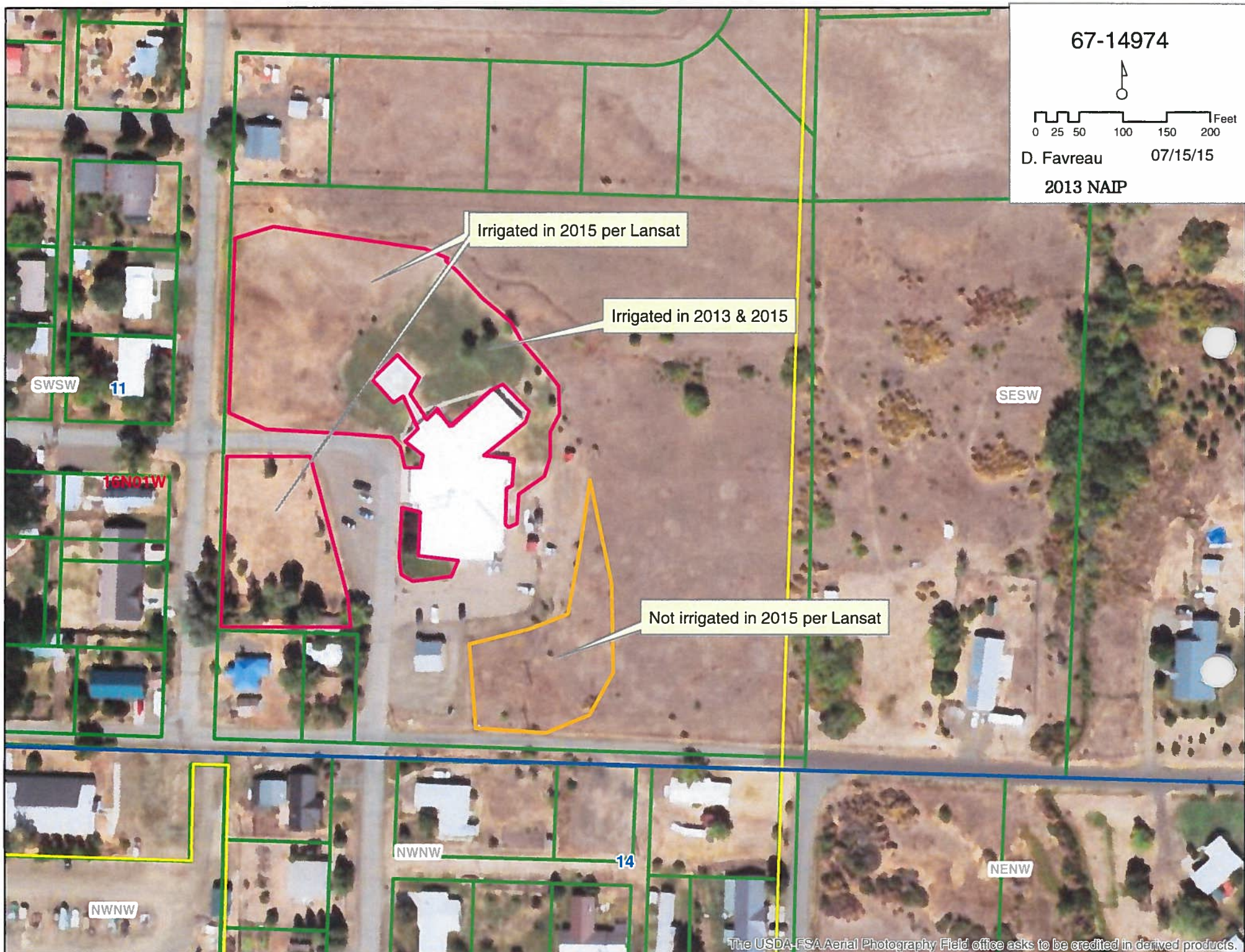
Reviewer *Daniel A. Nelson* Date 7-21-15

67-14974



D. Favreau 07/15/15

2013 NAIP



67-14974



0 15 30 60 90 120 Feet

D. Favreau

07/15/15

ESRI

Preped for Irrigation

Irrigated in 2013

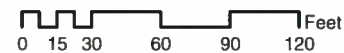
16ND1W

11

SWSW

SESW

67-14974



D. Favreau

07/15/15

2013 NAIP

Preped for Irrigation

Irrigated in 2013

16N01W

11

SWSW

SESW

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 67-14974

Reviewer: D. Favreau

Date of Review: 7/16/2015

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	5	5	5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	190	190	190
DISCHARGE PRESSURE	40	50	60
RATE OF FLOW (cfs)	0.11 49	0.10 45	0.09 42
			0.10 45.42

The above calculates the formula =
$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
No Friction

Examiners Notes:

The horsepower as indicated in field exam. The pressure was estimated by using the standard for pressure tank turn on and shut off of 40 to 60 psi. The lift was estimated using the well log. Well log indicates water from 180 to 240 ft. Casing from 139 to 250 ft. 180 + 10 ft = 190 ft.

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

854002

1. WELL TAG NO. D 0053310
Drilling Permit No. 906596-854002
Water right or injection well # 167-14974 (Pending)
2. OWNER: Adams Co. Health Clinic
Name Adams Co. Health Clinic
Address PO Box 428
City Council State Id Zip 83612

3. WELL LOCATION:

Twp. 16 North ☒ or South ☐ Rge. 1 East ☐ or West ☒
Sec. 11 1/4 SW 1/4 SW 1/4

Gov't Lot _____ County Adams
Lat. 44 ° 43 ' 53.4 (Deg. and Decimal minutes)
Long. 116 ° 25 ' 43.8 (Deg. and Decimal minutes)
Address of Well Site 205 N. Berkley
City Council

(Give at least name of road + Distance to Road or Landmark)

Lot. _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation ☐ Thermal ☐ Injection
☐ Other _____

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other _____

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method/procedure
Bentonite	0	50	1350	over bore + temp casing

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing	Liner	Threaded	Welded
8	2	139	250	Steel	☒	☐	☐	☒
					☐	☐	☐	☐
					☐	☐	☐	☐
4	-1	290	180	PVC	☐	☒	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 139'
X'S under remaining shoe

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method _____
Manufactured screen ☒ Y ☐ N Type Slotted PVC
Method of installation lowered

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
260	290	.020		4	PVC	SDR14 1480

Length of Headpipe 260 Length of Tailpipe _____
Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft ³)	Placement method

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____
Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 95 Static water level (ft) 45
Water temp. (°F) 59° Bottom hole temp (°F) _____
Describe access port _____

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
	<u>45</u>	<u>2 HRS</u>

Test method:

Pump ☐ Bailor ☐ Air ☒ Flowing artesian ☐

Water quality test or comments:

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
12	0	7	Broken Brown + black shale rock		
12	7	18	Brown Clay		
12	18	24	Brown Rock		
12	24	36	Brown Clay		
12	36	60	Black Basalt Rock		
9.5	60	92	Blue clay		
9.5	92	95	Gravel + Silt		☒
9.5	95	112	Broken Brown Rock		
9.5	112	139	Black Basalt		
6	139	180	Black Basalt		
6	180	195	Red + Brown Rock		☒
6	195	237	Black Basalt		
6	237	240	Red Cynders		☒
6	240	282	Green Basalt		
6	282	290	Brown + Red Porous Rock		☒

Completed Depth (Measurable): 290'
Date Started: 10-30-08 Date Completed: 11-10-08

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 Dallas Drilling Co. No. 445

*Principal Driller [Signature] Date 11-12-08

*Driller _____ Date _____

*Operator II [Signature] Date _____

Operator I [Signature] Date 11-12-08

*Signature of Principal Driller and rig operator are required

NOV 19 2008

WATER RESOURCES