

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-22596

Exam Date: 10/5/2011

1. Current Owner: LAWRENCE L CALKINS
6970 SW PACIFIC COAST HWY
WALDPORT OR 97394-9135
(208) 316-3658
2. Accompanied by: Jana Reeder, IDWR WR Agent

3. SOURCE**TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Big Wood Canal Company
2. Other water rights with the same point of diversion: 37-21384

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER

L4 SW1/4SW1/4

Sec. 19, Twp 04S, Rge 20E, B.M.

LINCOLN County

Method of Determination: GPS - GARMIN

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
04S	20E	19											X						
												L 4							

Method of Determination: Place of use determined by using Bing Maps satellite imagery in Arcmap and tax lot information. Place of use appears to be in the T04S, R20E, SWSW of Section 19. See attached map.

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**

D0034551

Sta-Rite

5

?

Franklin

30 GPM

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

D. FLOW MEASUREMENTS N/A**E. FLOW CALCULATIONS**

____ Additional Computation Sheets Attached

Measured Method: Theoretical yield: $Q = \frac{8.8 \times (\text{hp}) \times \text{Eff}}{(\text{Lift}) + (\text{psi} \times 2.31)}$

$$Q = \frac{8.8 \times 5 \text{ hp} \times 0.70}{344 + (195 \times 2.31)} = \frac{30.8}{459.5} = 0.067 \text{ cfs or } \mathbf{0.07 \text{ cfs}}$$

3 lots X 0.5 ac/lot = 1.5 acres total allowed irrigation X 0.03 cfs per acre = 0.045 cfs or **0.05 cfs**

30 GPM = 0.066 cfs or **0.07 cfs**

F. VOLUME CALCULATIONS

1.5 acres X 4 AF/ac = **6 AF**

G. NARRATIVE/REMARKS/COMMENTS

Application for permit was submitted by Lawrence Calkins on February 15, 2011. Proof of Beneficial Use was due by July 1, 2014 and was submitted on July 14, 2011.

There are 3 lots in this subdivision; this right is for irrigation around the three homes - 1.5 acres would require 0.05 cfs.

The theoretical equation shows a capacity of 0.07 cfs; the 5 hp pump produced 30 gpm according to the well drillers information.

Recommend a total combined diversion rate of 0.07 cfs and a combined volume of ~~9.8~~^{7.8} AF when combined with 37-21384, with the standard limit of 13,000 gpd and a volume of 6.0 AF.

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>
DOMESTIC	01/01 to 12/31	0.070 CFS	6.0 AF
<u>Totals:</u>		0.070 CFS	6.0 AF

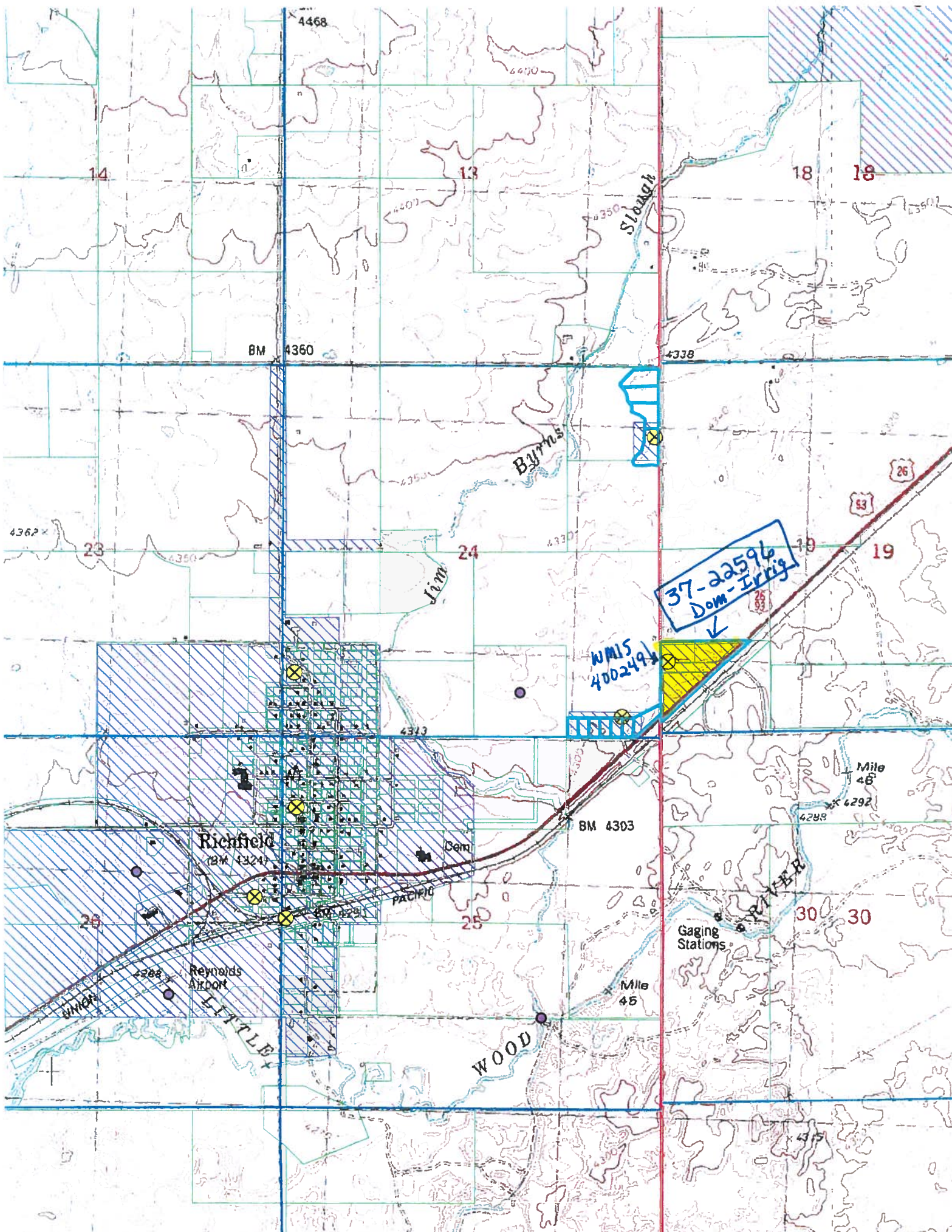
2. Recommended Amendments

____ 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

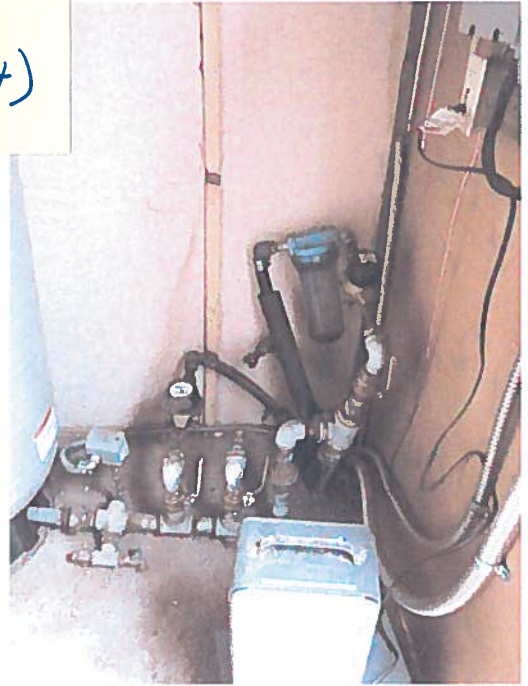
Field Examiner's Name Jeani Robertson Date May 22, 2012
 Reviewer Chris Menta Date 5/29/12



pics:-
6312
6313
6314
6315
(facing east)

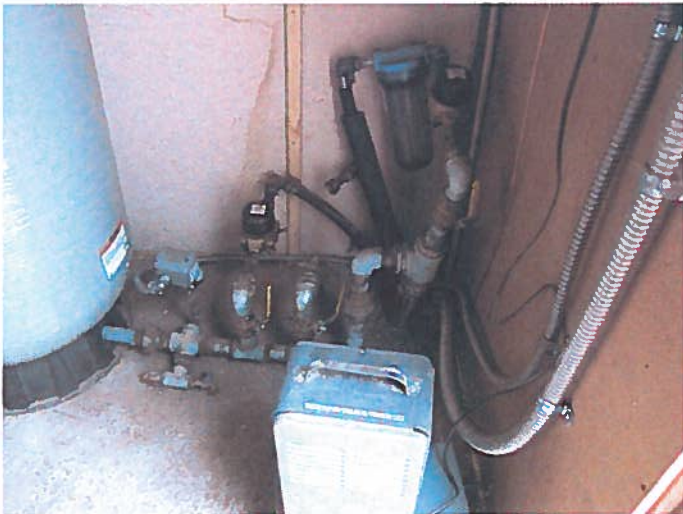


D0034551



37-22596
Dom-irrig

Desert View Subdiv #3
-3 lots-





37-22596

Robertson, Jean

From: Wood River Drilling & Pump [wrdp@qwestoffice.net]
Sent: Friday, April 20, 2012 3:10 PM
To: Robertson, Jean
Subject: Re: pump questions on some wells you drilled??

Here is the information that you requested, I hope that it helps. If you need anything else please feel free to contact me.

Than you,
Joanne

Wood Rive Drilling & Pump Inc

From: Robertson, Jean
Sent: Friday, April 20, 2012 8:27 AM
To: wrdp@qwestoffice.net
Subject: FW: pump questions on some wells you drilled??

Let's try this one!

From: Robertson, Jean
Sent: Thursday, April 19, 2012 3:57 PM
To: 'wrdp@qwest.net'
Subject: pump questions on some wells you drilled??

Hi Joann,
I'm writing up some licenses for wells your company drilled and I need a little information about the pumps for the file.
I'd appreciate it if you could send me any of the information you may have when you have some time!
Thanks, Jeanie Robertson

Tag: **D0034551**; Lawrence Calkins, Desert View Subdivision #3, (3 lots) in Dietrich – T04S, R20E Sect. 19, SWSW (3/24/2005)
Motor make and model? Sta-Rite
Pump make & model? Franklin
HP? 5
Depth? 455'
GPM? 30

Tag: **D0016196**; Lawrence Calkins, Desert View Subdivision #2, (4 lots) in Dietrich – T04S, R19E, Section 24, NENE (3/23/2001)
Motor make and model? Berkeley
Pump make & model? Franklin
HP? 5
Depth? 480'
GPM? 30

Tag: **D0016164**; Lawrence Calkins, Desert View Subdivision #1, (7 lots) in Dietrich – T04S, R19E, Section 24, SESE (2/16/2001)
Motor make and model? Berkeley

— Pump make & model? Franklin
HP? 5
Depth? 420'
GPM? 30

DWR-CPS-02, Ed. 3/93

NAME: _____

PROJECT: _____

RECEIVER SERIAL NO. _____

Date	Time	GPS File Name	Well Owner	T., R., Sec.	Other Well Name	Comments
	12:40	D0016064	[unclear] Colkins	GPS ✓	53 psi	2 pie. (one house) well, 1 (can't measure)
	12:45	D0034551	[unclear]	GPS ✓ W. meter 1. meter (neptune) ser. # 41552971		Gal X 100 T = 176.10 P
			[unclear]	2 meter E. meter neptune ser. # 41248482		pressure gauge 50 psi Gal X 100 T = 196.960 well by shed ?
	1:01	D0016196	[unclear]	GPS ✓ - no meter -		gauge = 195 psi 2 lines going off well under barrels
	2:10	GPS - LDS-CAREY A0017833	LDS Church			tagged well has GO

Entered M

Field Inspection Report

Permit No. 831068

Metal Tag No. D0034551,

Well ID # 401669

Relationship: Owner/Operator

Name: LAWRENCE L CALKINS Phone: (208) 487-3212

Address: 870 N 1250 E

RICHFIELD ID 83349

Well Location: Township 04S, Range 20E, Section 19, SW, SW
COUNTY LINCOLN Sub Name GOVT LOT 11

Address of Well Site: ~~1/4 MILE NORTH AND 1/4 MILE WEST FROM RICHFIELD~~
RICHFIELD ID

Use of Well: Domestic

Activity: New Well

Application Type: Drilling Permit

Region: Southern

Construction Method: Air Rotary,

Const Start Date: Mar 17 2005 Const End Date:

Well Drilling Company: WOOD RIVER DRILLING & PUMP INC (No. 265)

Card Hold Name:

Certifying Official:

Date Received:

Date Approved: Mar 14 2005

Date Inspected:

Completed Depth: Drilled Depth: 420 FT Surface Diameter: 6 inches

Primary Flow Depth: Overall Temp: Static Water Level:

Head Pipe Length: Tail Pipe Length: Production Rate:

Closed in Pressure: Bottom Hole Temp: Low Temp Geothermal: NO

Control Device Desc:

Access Port Desc:

1/8 mile W. of Hwy 26/93
on 1350E Rich

Permit No. 831068

Corrections:

Owner: _____ Address: _____ City: _____ State: _____
Phone: () _____ Legal _____ County: _____ City: _____
Well Address: _____ City: _____
Subd. Name: _____ Lot: _____ Blk: _____ GPS Lat: _____ N Long: _____ W
Casing: 124 Good
Well Seal: Bentonite
Pitless: NA
Sanitary Seal: NA
Septic or other contamination sources location: Not installed

Owner/Driller present: Driller
Remarks: Actively Drilling @ 120' going to 460'

GPS 2489035 / 1317434 03/23/05

336

App 887395

Form 238-7
11/97

Page 1 of 2

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: : : Long: : : :

1. WELL TAG NO. D0034551
DRILLING PERMIT NO. 37 - 21348
Other IDWR No. Permit#831068

2. OWNER:
Name Calkins Lawrence
Address 870 N 1250 E
City Richfield State ID Zip 83349

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

Map grid showing location:
Twp. 04 North ☐ or South ☒
Rge. 20 East ☒ or West ☐
Sec. 19 1/4 SW 1/4 SW 1/4
Gov't Lot _____ County Lincoln
Lat: : : Long: : :
Address of Well Site 1 Mile North & 1/4 West From Richfield City Richfield
(Give at least name of road + Distance to Road or Landmark)
Government Lot
Lt. 4 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/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	19	14Sks	Overbore

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
6"	+1 1/2 20	250	Steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS
Perforations _____ Method _____
Screens _____ Screen Type _____

From To	Slot Size	Number	Diameter	Material	Casing	Liner
					☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
344 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
20			1 hour

Water Temp. _____ Bottom hole temp. _____
Water Quality test or comments: _____
Depth first Water Encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	5	Top Soil		X
10	5	19	Gray Lava		X
6	19	43	Black Lava		X
6	43	46	Creavice		X
6	46	58	Red Sand		X
6	58	72	Black Lava		X
6	72	80	Brown Clay		X
6	80	90	Black Lava		X
6	90	460	No Returns		X
6	90	93	Soft		X
6	93	100	Hard		X
6	100	120	Med Hard		X
6	120	125	Black Lava		X
6	125	130	Soft		X
6	130	160	Med Hard		X
6	160	163	Crevice		X
6	163	178	Med Hard		X
6	178	183	Creavice		X
6	183	200	Med Hard		X
6	200	240	Med Soft		X
6	240	297	Med Hard		X
6	297	303	Soft		X
6	303	312	Med Hard		X
6	312	319	Soft		X
6	319	400	Med Hard	X	
6	400	405	Med Soft	X	
6	405	410	Creavice	X	
6	410	418	Med Soft	X	
6	418	422	Creavice	X	
6	422	434	Med Soft	X	
6	434	440	Med Hard	X	
6	440	442	Soft	X	
			Continued		

Completed Depth 460' (Measurable)
Date: Started 03-21-05 Completed 03-24-05

RECEIVED
APR 12 2005
Department of Water Resources
Southwest Region

13. DRILLER'S CERTIFICATION
We certify that all minimum well construction standards were complied with at the time the rig was removed.
Company Name Wood River Drilling Firm No. 265
& Pump, Inc.
Firm Official Ken Smith Date 04-11-05
and
Driller or Operator Redding Date _____
(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only

Inspected by _____

Twp _____ Rge _____ Sec _____

_____ 1/4 _____ 1/4 _____ 1/4

Lat: : : Long: : :

1. WELL TAG NO. D 0034551
 DRILLING PERMIT NO. - - - 37 - 21384
 Other IDWR No. _____

2. OWNER:

Name Calkins Lawrence
Address 870 N 1250 E
City Richfield State ID Zip 83349

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.


 Twp. 04 North ☐ or South ☒
 Rge. 20 East ☒ or West ☐
 Sec. 19
 Gov'l Lot _____
 Lbl: : : : Long: : :
 County Lincoln

Address of Well Site

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

Li.	Blk.	Sub.	Name
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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/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	

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
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations	Method
--------------	--------

Screens	Screen Type
---------	-------------

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

2.44 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: _____

Depth first Water Encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment) water

[illegible]

Completed Depth 460' (Measurable)

Date: Started 03-21-05 Completed 03-24-05

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Firm Official Ken Smith & Pump, Inc. Date 04-11-05

Driller or Operator RONALD S. S. S. Date _____

(Sign once if Firm Official & Operator)