

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 31-11737

Exam Date: 9/21/07

1. Current Owner: DAVE & KATHERINE VANCE TRUST
1085 PACKER DR
BLACKFOOT ID 83221
(208)785-1796
2. Accompanied by: David Vance
Phone No: same as owner
Address: same as owner
Relationship to Permit Holder: trustee

3. **SOURCE****TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 31-7655 shares QQ, but separate property
2. Other water rights with the same point of diversion: none

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

GROUND WATER

NE1/4SW1/4

Sec. 7, Twp 13N, Rge 37E, B.M.

CLARK County

Method of Determination: GPS Garmin

2.

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	
13N 37E 7									X								

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	
13N 37E 7									X								

Method of Determination: GPS Garmin, 2004 NAIP

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 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 Size</u>
708955					

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements: Flow limited to 0.03 cfs by capacity of system based upon theoretical pump calculation

E. FLOW CALCULATIONS

Measured Method:

☒ Additional Computation Sheets Attached

F. 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: 1 home w/irrigation 1.2 afa, 150 range 300 sheep 6.1 afa for 7.3 total afa

G. NARRATIVE/REMARKS/COMMENTS

well with submerged pump to storage tank and home.

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	0.030 CFS	1.20 AF
STOCKWATER	01/01 to 12/31	0.020 CFS	6.10 AF
<u>Totals:</u>		0.030 CFS	7.30 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 Nate Arave Date 9/21/2007

Reviewer Nate Arave Date 9/24/07

Theoretical Pump Flow Calculation	
$Q = [(Hp) \cdot (8.814) \cdot (eff)] / [Lift + (psi \cdot 2.308)]$	
Permit No. 31-11737	
Hp = horsepower =	0.5
Eff = efficiency =	0.7
Lift =	72
PSI = Pressure =	15
Q =	0.03

Lift = Static water level + assumed draw down
or
Measured dynamic water level

Comment Report

31-11737

1. narave 9/24/2007 Field Report Narrative

Comment: well with submerged pump to storage tank and home.

2. narave 9/24/2007 POD

Comment: Updated shape

3. narave 9/24/2007 POU

Comment: Updated Shape

4. narave 9/24/2007 POU

Comment: Updated Shape

5. narave 9/24/2007 overlap review

Comment: water right 31-7665 overlaps with this QQ, but seperate properties

Type	WR #	Owner	Source	TSS	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
Right	31 4050	USDA FOREST SERVICE,	LAKE CREEK SPRING	13N37E7												X					0
Right	31 10223	ALDEN L RIGBY, ALICE M RIGBY,	LITTLE LAKE CREEK	13N37E7					X	X											0
Right	31 10224	ALICE M RIGBY, ALDEN L RIGBY,	SPRING	13N37E7						X											0
Right	31 10840	UNITED STATES OF AMERICA ACTING THROUGH,	MINERS CREEK	13N37E7											X						0
Right	31 10854	UNITED STATES OF AMERICA ACTING THROUGH,	MINERS CREEK	13N37E7												X					0
Permit	31 11737	DAVE & KATHERINE VANCE TRUST,	GROUND WATER	13N37E7									X								0
Permit	31 11737	DAVE & KATHERINE VANCE TRUST,	GROUND WATER	13N37E7									X								0
Right	31 7655	C MICHAEL BENNETT,	SPRINGS	13N37E7									X			X					0
Right	31 11737	C MICHAEL BENNETT,	SPRINGS	13N37E7									X			X					0
Right	31 11737	DAVE & KATHERINE VANCE TRUST,	GROUND WATER	13N37E7									X								0
Right	31 11737	DAVE & KATHERINE VANCE TRUST,	GROUND WATER	13N37E7									X								0

1 WELL TAG NO.

DRILLING PERMIT NC

Other IDWR NO. D0044046

2 OWNER:

Name: David Vance

Address: 1085 Packer Drive

City: Blackfoot State: ID Zip 83221

3 LOCATION OF WELL by legal description.

N

S		

Twp 13 ☒ North ☐ South
Rge 37 ☒ East ☐ West
Sec 7

Gov't Lot _____
Lat: : : Long: _____

County Clark

10 Acres 1/4 NE 1/4 SW 1/4
 40 Acres 160 Acres

Address of Well Site: 3 miles east of Porcupine

Address of Well Site: 3 miles east of Porcupine

Pass City: Spencer

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

Lot No. Blk No. Subd. Name:

4 USE:

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

5 TYPE OF WORK:

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6 DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7 SEALING PROCEDURES:

SEAL/FILTER PACK			AMOUNT	Method
	From	To		
Bentonite	0	19	5 bags / 250 lbs	Annular

Was drive shoe used? ☐ Yes ☒ No Shoe Depth(s) _____
Was drive shoe seal tested? ☐ Yes ☒ No How? _____

8 CASING/LINER:

Dia.	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6	+1	19	0.25	Steel	☒	☐	☐	☐
4	-10	100	Sch 40	PVC	☐	☒	☐	☒
					☐	☐	☐	☐

Length of headpipe: _____ Length of Tailpipe: _____

9 PERFORATIONS/SCREENS:

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
80	100	1/32 x 2			PVC	☒	☐
						☐	☐
						☐	☐

STATIC WATER LEVEL OR ARTESIAN PRESSURE:

52 ft below ground Artesian Pressure: lb

Describe access port or control devices:

11 WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Flowing Artesian

Yield	Drawdown	Pumping Level	Time
10			

Water Temp	Cold	Bottom hole temp
------------	------	------------------

Water Quality test or comments:

12 LITHOLOGIC LOG:

[illegible]

Completed Depth: 100 ft

Date Started: 09/28/06

Date Completed: 09/29/06

13 DRILLER'S CERTIFICATION:

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

Firm: Independent Drilling MD, Firm No. 343

Firm Official: David Knecht Date: 10/4/2006
and _____

Supervisor/Operator: Mark Durland Date: 10/4/2006





Franklin Electric

MODEL 200105-6915

HP 1/2

VOLTS 200

A 24.100000

800.777.01.01

AC 115V 60Hz

ELECTRIC
ELECTRIC EQUIPMENT
ELECTRIC EQUIPMENT
ELECTRIC EQUIPMENT
ELECTRIC EQUIPMENT

REPAIRS AND MAINTENANCE
ELECTRIC EQUIPMENT
ELECTRIC EQUIPMENT
ELECTRIC EQUIPMENT
ELECTRIC EQUIPMENT

REPAIRS AND MAINTENANCE
ELECTRIC EQUIPMENT
ELECTRIC EQUIPMENT
ELECTRIC EQUIPMENT
ELECTRIC EQUIPMENT

Model Number

Manufacturer's Part No.

