

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 67-14322

Exam Date: 8/26/2010

1. Current Owner: JAMES ECKHARDT
1275 JENKINS CREEK RD
WEISER ID 83672
(208)549-1754
2. Accompanied by: James Eckhardt
Phone No: (208) 549-1754, cell: (208) 870-2477
Address: 1275 Jenkins Creek Rd., Weiser, ID 83672
Directions: N. on I-84, Hwy 95 to Weiser, east on E. Park St., north State St., west on W. Galloway St., north on W. 9th St., west on Indianhead Rd, north on Jenkins Ck. Rd, on left side 1275 Jenkins Ck. Rd. (up the hill)
Relationship to Permit Holder: self

3. SOURCE TRIBUTARY
GROUND WATER N/A

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 67-4485 Stockwater in the same QQ (springs source, further south)
2. Other water rights with the same point of diversion: NONE

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

GROUND WATER WASHINGTON County SE1/4SE1/4 Sec. 36, Twp 12N, Rge 06W, B.M.

Method of Determination: Garmin GPS

2. PLACE OF USE: IRRIGATION

Twp RgeSec		NE				NW				SW				SE				
		NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
11N 06W	1	.8	.6															1.4
		L 1	L 2															
12N 06W	36															3.5	3.2	6.7

Total Acres: 8.1

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 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>
D0018208	Grundfos	5 Hp	variable speed		2 inches

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

D. FLOW MEASUREMENTS

- There was no access for conducting a polysonic. Sprinkler/handline system was dismantled and stacked, so no physical measurement was taken.
- Administrative Memo, Application Processing #51 and, Permit Processing #16 Appendix 1 Flow Chart for Determining if Flow Measurement is Required states: "Ground Water, less than 0.20 cfs, No Measurement Required." For this reason, Nozzle Conversions, and a Theoretical on the well were used.

E. FLOW CALCULATIONS

Measured Method:

Theoretical on Well:

$$(8.8) (5.0 \text{ Hp}) (0.7 \text{ eff.}) / (2.31 \times 42 \text{ psi}) + 200 = 0.103 = 0.10 \text{ cfs.}$$

Well Drillers Report: 5/14/2001 Treasure Valley Drill, Firm No 560, Well Test = 75 gpm (0.17 cfs) for 3 hrs.**Nozzle Discharge Calculations:** 20' sections, average 18 sections with 5/16 inch nozzles with 3 gpm restrictors.**Without the restrictors:** 0.04 cfs/nozzle X 18 nozzles = 0.72 cfs

$$0.04 \text{ cfs} = 18.98 / 448.8 = 30.0 \times (0.09765625) \times 6.48$$

With 3 gpm restrictor: 3gpm/448.8 = 0.0066 X 18 nozzles = 0.12 cfs**RECOMMEND 0.10 cfs.****F. VOLUME CALCULATIONS**

- Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 8.1 \times 4 = 32.4 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.10 \text{ cfs} \times 230 \times 1.9835 = 45.6 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 32.4$$

RECOMMEND TOTAL VOLUME: 32.4 af

G. NARRATIVE/REMARKS/COMMENTS

Mitigation condition left on license, due to being on approved Permit.

System Description: 8" casing, 5 Hp Grundfos variable speed submersible pump, 65 ft static, 42 psi, 2" inch discharge to house, ¾" buried PVC to variable pop-up Toro sprinklers and drip system throughout the yard/garden area, gate valve to buried 4 inch PVC to POU southwest of house, to 4" buried PVC that runs north to south on the east border, with 15 risers for attaching 4" aluminum handline, 20 ft. sections, 5/16" nozzles with 3 gpm restrictors.

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>
IRRIGATION	03/15 to 10/31	0.100 CFS	32.40 AF
	<u>Totals:</u>	0.100 CFS	32.40 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

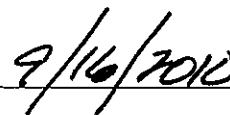
☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name



Date



Reviewer

Date



Exempt
POU:
Domestic
internal
use
Irr. POU
External
includes
in
irrigation
use



gate
valve
to 4"
buried
PVC to
POU



auxiliar
booster
for
2400
gallon
storage
tank
for
fire
protection
(spring
source
diff.
water
right)



40
gallon
pressure
tank



POU

08/26/2010

POD



3" casing
217' deep
65' static
75gpm

POD
with
control
valves
in
pit

08/26/2010

67-14322 Elkhardt

Fig. #3

S. Hemmick



control
valve
in pit
at POU



POU

167-14322 Eckhardt

Fig. #4

S. Hemmen



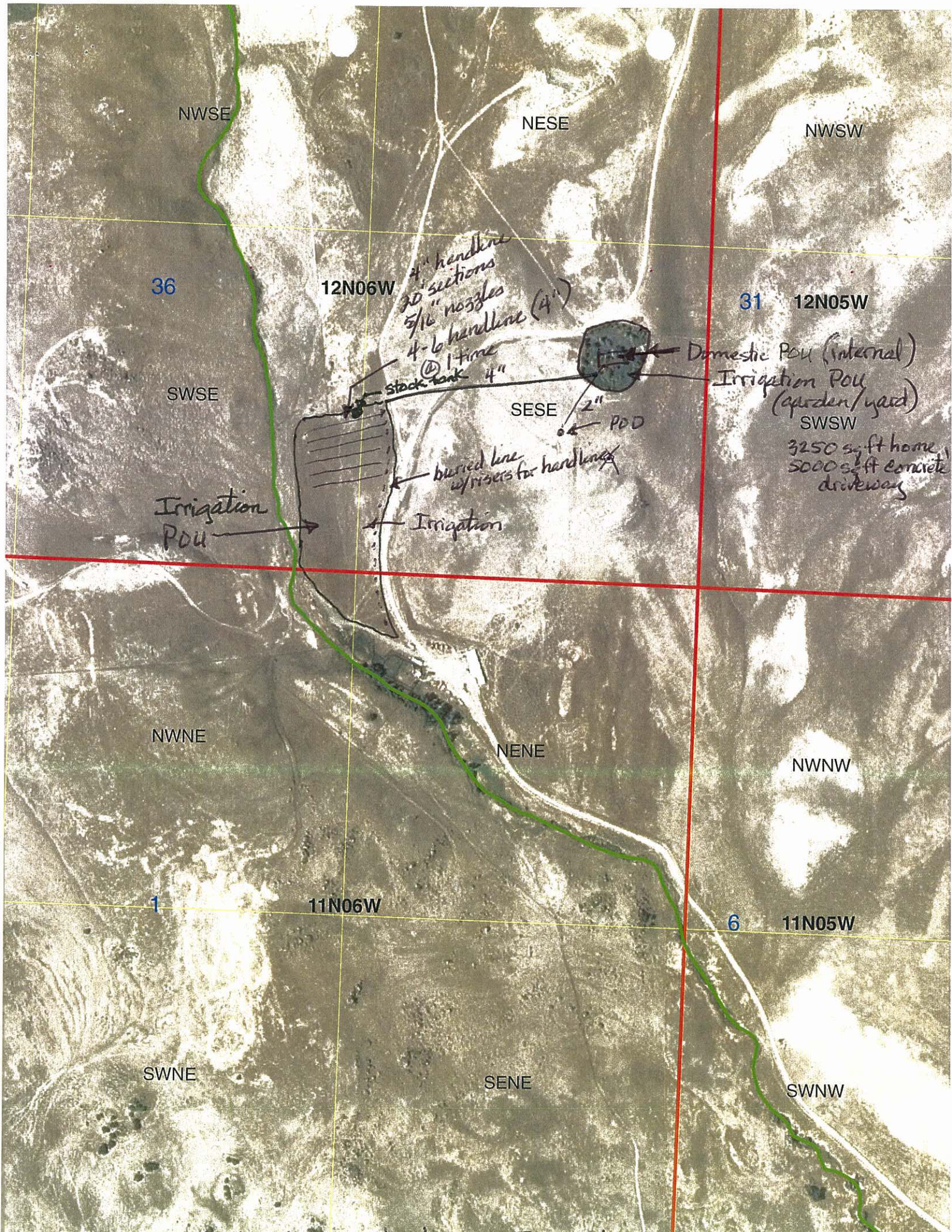
15
risers
running
off of
4" pipe
line (PVC
running
north to
south on
east
border
of POU

4"
handho

67-14322 Eckhardt

Fig. #5

S. Hemerway



67-14322 POU Reference Map
Lansat Spot Imagery
Date Taken: 8-6-2002
Reference: 0537261a_20020810

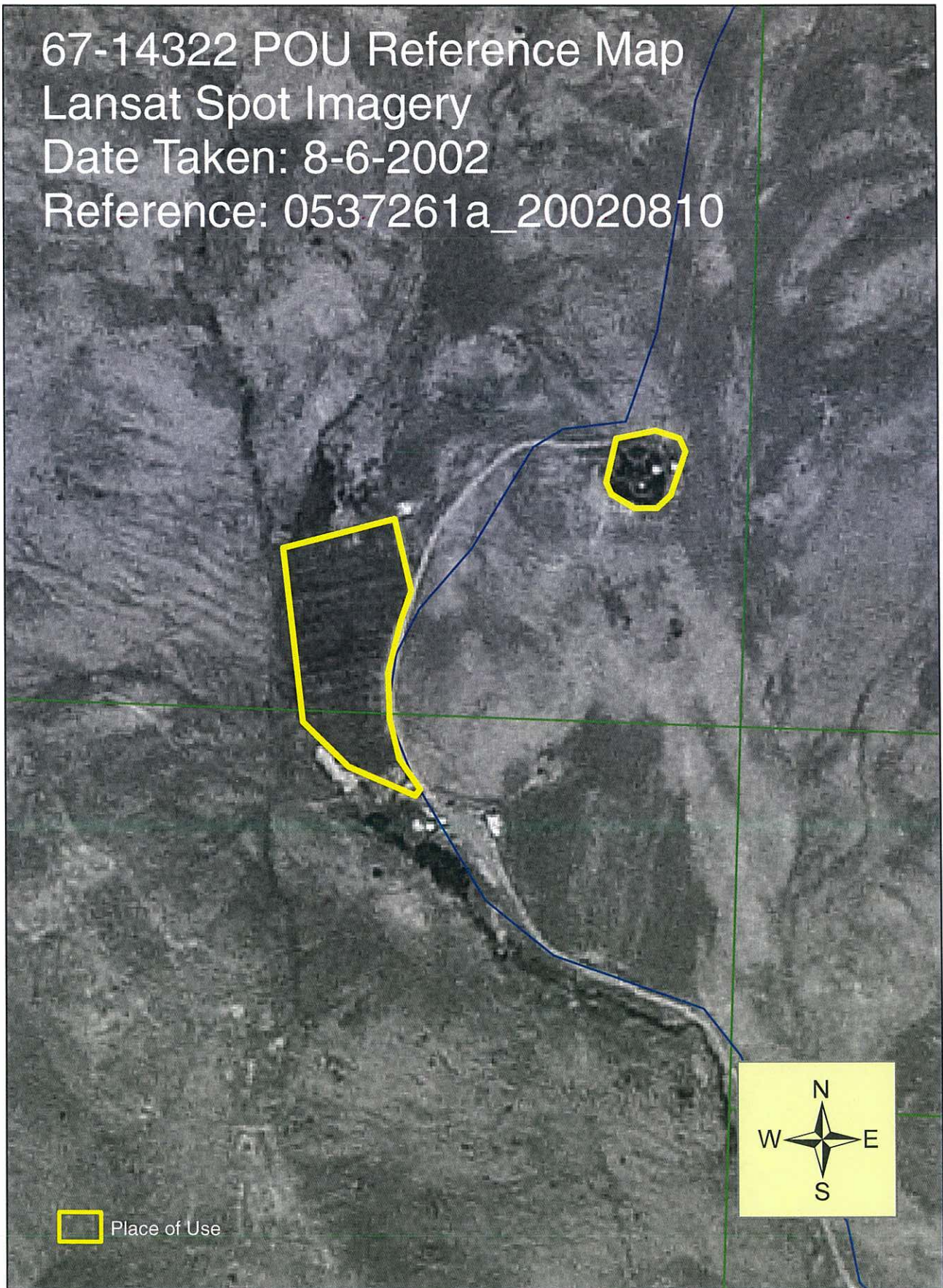


Fig. #7



DRILLING PERMIT FEES
EXEMPTED DOMESTIC WELLS
FOR WR FILINGS

DRILLING PERMITS REQUIRED FOR ALL WELLS DRILLED ON OR AFTER 7/1/1987.

USE PRIOR FEE SCHEDULE TO DETERMINE DP FEE UPGRADE FOR EXEMPTED DOMESTIC WELL INVOLVED IN WATER RIGHT FILING (PERMIT, TRANSFER ETC.) WHERE \$200 DP REQUIRED.

REGIONAL OFFICE SHOULD SOLICIT DP FEE UPGRADE IN WR PROCESSING (OFFICE VISIT, TELEPHONE CALL OR LETTER OK).

APPLICANT NOT REQUIRED TO PAY UNTIL LATER IN PROCESS, REGION CANNOT VOID WR FILING BASED ON NONPAYMENT.

CONTINUE PROCESSING WR APPLICATION, DOCUMENT THE FILE AND LET STATE OFFICE RESOLVE THIS.

EXEMPTED DOMESTIC FEES:

7/1/1987 TO 6/30/1990 \$10 UPGRADE = $200 - 10 = \$190$

7/1/1990 TO 6/30/1996 \$35 UPGRADE = $200 - 35 = \$165$

ON/AFTER 7/1/1996 \$75 UPGRADE = $200 - 75 = \$125$

WR processing/dp fee upgrade SL 10/7/04

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

768519

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

1. WELL TAG NO. D 0018208

DRILLING PERMIT NO. _____

Other IDWR No. _____

2. OWNER:

Name Jim Eckhardt

Address 1275 Jenkins Creek Road

City Weiser State ID Zip 83672

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Sketch map location must agree with written location.

Twp. 13 North ☐ or South ☐
Rge. 6 East ☐ or West ☒
Sec. 36 1/4 SW 1/4 SW 1/4
Gov't Lot _____ County Washington
Lat: _____ Long: _____
Address of Well Site Jenkins Creek Road
just past Warm Springs. City Weiser
(Give at least name of road + distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other 6/25/2002
W029374 paid \$125

5. TYPE OF WORK: check all that apply

☒ New Well ☐ Modify ☐ Abandonment ☐ Other upgrade fee

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	18	200 lbs		Pour

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
8	+2	121	250	Steel	☒	☐	☒	☐
4.5	109	219	188	PVC	☐	☒	☒	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS:

☒ Perforations Method Saw
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
179	219	.25/6	36	4.5	PVC	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

65 ft. below ground Artesian pressure _____ lb.
Depth flow encountered 185 ft. Describe access port or control devices: Cap

11. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
75	200	200	3 hours

Water Temp. 56 Bottom hole temp. 56

Water Quality test or comments: _____

Depth first Water Encounter 98

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water
				Y N
10	0	2	Top Soil	
10	2	4	Hard Pan	
10	4	35	Brown Clay	
10	35	98	Blue Clay	
10	98	112	Broken Blue Clay	X
8	112	120	Blue Clay Hard	
8	120	130	Sand Stone 15 Gal.	X
8	130	185	Blue Clay	
8	185	200	Sand Stone 50 Gal	
8	200	204	Blue Clay	
8	204	217	Sand Stone 25 Gal	
8	217	226	Blue Clay	

RECEIVED

MAY 31 2001

WATER RESOURCES
WESTERN REGION

RECEIVED

JUN - 4 2001

Department of Water Resources

Completed Depth 217 (Measurable)

Date: Started 5/10/2001

Completed 5/14/2001

13. DRILLER'S CERTIFICATION:

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

Company Name Treasure Valley Drilling

Firm No. 560

Firm Official [Signature]

Date 5/15/2001

and

Driller or Operator _____

Date 5/15/2001

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

DIRECTOR'S MEMORANDUM

TO: Regional Offices, Water Allocation Bureau and
Adjudication Bureau

FROM: R. Keith Higginson *R. K. Higginson*

RE: Rate of Flow and Volume for Water Rights With Source
of Ground Water

DATE: May 7, 1991 Application Processing No. 51
Permit Processing No. 16
Adjudication Memo No. 31

A review of field examination procedures relative to measurement of rate of flow for diversions from ground water has resulted in the identification of certain water uses for which a theoretical computation is an acceptable substitute for measurement of rate of flow. The purpose of this memorandum is to describe situations where utilization of the theoretical computation is permissible.

The determination of which situations require measurement of rate of flow for a ground water right is outlined in Appendix 1. The procedure for determining rate of flow is described in Appendix 2. This memorandum shall be the authority for removal of flow measurement requirements from water right permits that are shown by Appendix 1 not to require measurement.

This procedure applies to rate of flow determinations for the preparation of water right licenses and adjudication Director's Reports.

Appendix 1 - Flow Chart for Determining if Flow Measurement is Required

Appendix 2 - Procedure for Determining Rate of Flow

APPENDIX I

FLOW CHART FOR DETERMINING IF FLOW MEASUREMENT IS REQUIRED

