

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
JAN 24 2008

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 65-23072

1. Owner: Daniel and/or Karen Hansen Phone No.: 208-890-2552

Current Address: KD Bar Ranch, 6500 SE 7th Ave, Caldwell, ID 83607

2. Accompanied by: Mark Needs EXAM DATE: September 5, 2007

Address: Same as above Phone No. 208-405-1387

Relationship to Permit Holder: Ranch Manager

3. Source: Ground Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 63-8093

2. Other water rights with the same point of diversion: 65-13933

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
	1		NW	NW	18	6N	3W	Payette	Field Exam, GPS

2. Place(s) of Use:

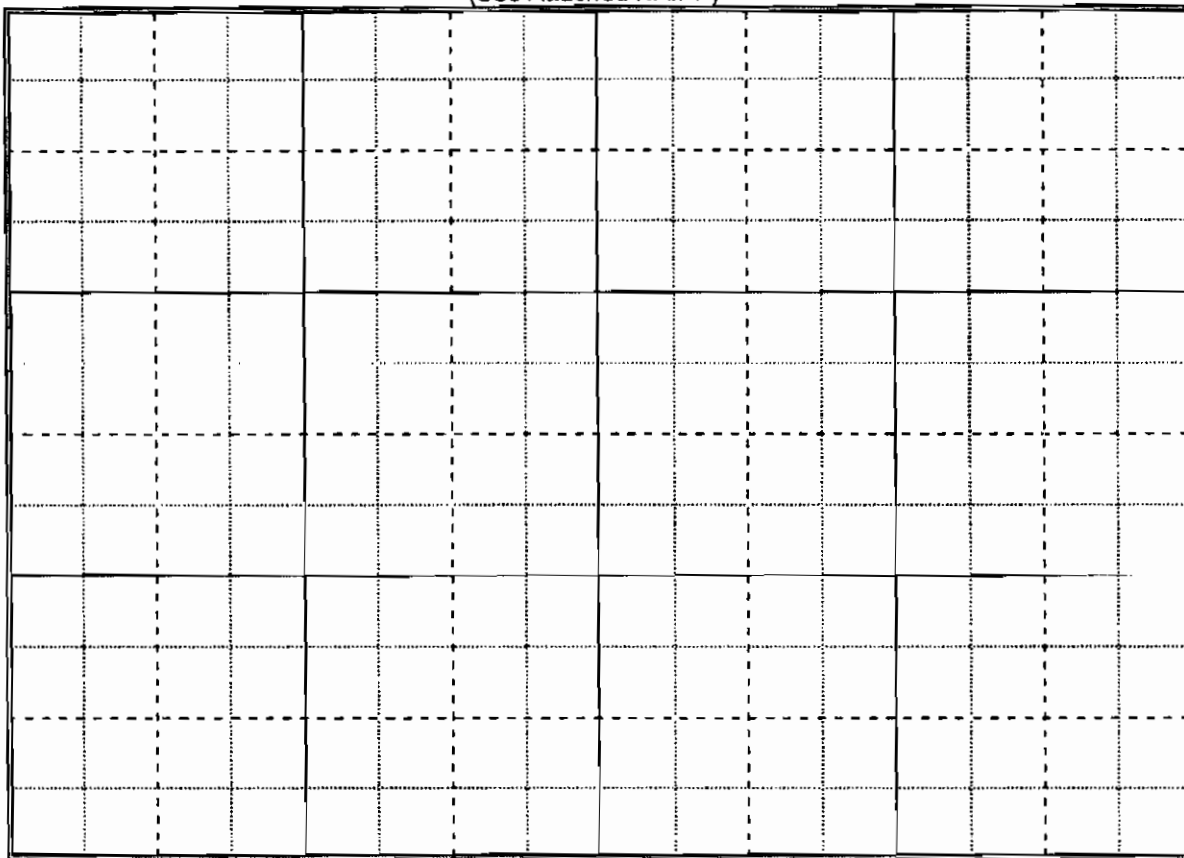
Indicate Method of Determination Field Exam, Aerial
Photography (NAIP 2006)

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
6N	4W	13		22															22

Total Acres 22

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe id as applicable.

(See Attached NAIPP)



Scale: 1" = _____

X Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required)

X Aerial Photo Attached (required for irrigation of 10+ acres)

X 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
Turbine	US Motor Holloshaft 1,770 rpm	300	CC1004186	Goulds	14RJHC, 4-stage, full trim
Booster	Baldor 3,600 rpm	7.5	F0604071499	Berkeley	B2 ½ TPM, 5 ¼ inch impeller

*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
Pump Curve						

2. **Measurements:** Turbine pump provides 2,250 gpm at 15 psi at 2,580' elevation. Booster adds 38 psi at 250 gpm to make discharge pressure 53 psi. Place of use elevation ranges from 2,500' to 2,560'. Therefore delivery pressure, allowing for 10 psi friction loss, ranges from 50 to 75 psi.

E. NARRATIVE/REMARKS/COMMENTS

A 16-inch well (aka Well #1) equipped with a 300-hp Turbine pump and 7.5-hp booster pump supplies supplemental irrigation water to 22 acres owned by Don Helsley. Hansen's have an agreement with Helsley to operate the irrigation system and farm on Helsley's land using water diverted from Hansen's well. A small pivot and hand line sprinklers for the corners are used to irrigate the property.

Water right 63-8093 is also used to irrigate the 22 acres from an unnamed drain tributary to Eagle Creek. No other rights are used.

Well #1 also serves as a point of diversion for right 65-13933 for irrigation of separate lands from a separate system. Riverside Inc. drilled the well and installed the pump. Dave Cleaver with Riverside Inc. supplied the attached pump curve. Valley Irrigation Service & Supply installed the booster pump. The system has the capacity to deliver 250 gpm from the well and booster to the small pivot. Tony B. with Valley Irrigation supplied the attached pump curve.

A completed *Proof of Beneficial Use* form (due 02/01/2012) is also attached.

This right, when combined with 65-13933, will not exceed 5.02 cfs.

[illegible]

Have conditions of permit approval been met? X yes no

F. FLOW CALCULATIONS

Measured Method:

Yes Additional Computation Sheets Attached
(Pump Curve)

Per pump curve: 250 gpm pumping capacity or 0.56 cfs

Limited to 0.02 cfs/acre or 0.44 cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 22 \times 4.5 = 99$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.44 \times 260 \times 1.9835 = 226.9$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 99.0$$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	3/1	11/15	0.44	99.0

2. Recommended Amendments (for stockwater)

☐ 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. AUTHENTICATIONField Examiner's Name Terry M. Scanlan Date 1-22-08Field Examiner's Signature *Terry M. Scanlan*

Reviewer _____ Date _____



CWRE #08-129

[Close](#)IDAHO DEPARTMENT OF WATER RESOURCES
Water Permit Report

07/27/2007

WATER RIGHT NO. 65-23072

Owner Title Name and Address

Current Owner: DANIEL B. HANSEN

Current Owner: KAREN L. HANSEN

1717 CHISHOLM DR

Nampa, ID 83687

(208)890-2552

Representative: SPF WATER ENGINEERING LLC

C/O SCOTT KING

600 E. RIVER PARK LN STE 105

BOISE, ID 83706

(208)383-4140

Priority Date: 03/14/2006

Status: Active

Source Tributary

GROUNDED WATER

Beneficial Use From To Diversion Rate Volume

IRRIGATION 03/01/1975 0.56 CFS

Total Diversion 0.56 CFS

Location of Point(s) of Diversion

GROUND WATER: NWNW 1/4 Sec. 18, Township 06N Range 03W, PAYETTE County

Place(s) of use

Place of Use Legal Description: IRRIGATION PAYETTE County

Township Range Section Lot Tract Acres Lot Tract Acres Lot Tract Acres Lot Tract Acres

06N 04W 13 NWN 1/4 28

Total Acres: 28

Conditions of Approval

1. (2) Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
2. (3) After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to determine the amount of water diverted from power records and shall annually report the information to the Department.
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.
4. (B) This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor exceed a combined annual maximum diversion volume of 126 af at the field headgate for the lands above.
5. (65) The right holder shall make full beneficial use of all surface water rights available to the right holder for irrigation of the lands authorized to be irrigated under this right. The right holder shall limit the diversion of ground water under this right to those times when the surface water supply is not available or the surface water supply is not reasonably sufficient to irrigate the place of use authorized under this right.
6. (104) If the surface water right(s) appurtenant to the place of use is sold, transferred, leased or used on any other place of use, this right to divert ground water shall not be used without an approved transfer pursuant to Section 42-223, Idaho Code, or approval of the Department if a transfer is not required.
7. (R6) This right when combined with all other rights shall provide no more than 4.5 af per acre at the field headgate for irrigation of the lands above.
8. (26A) Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.
9. (004) This right does not grant any right-of-way or easement across the land of another.

Dates

Proof Due Date: 02/01/2012

Proof Made Date:

Approved Date: 02/28/2007

Moratorium Expiration Date:

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Application Received Date: 03/14/2006

Protest Deadline Date: 09/25/2006

Number of Protests: 0

Field Exam Date:

Date Sent to State Off:

Date Received at State Off:

Other Information

State or Federal:

Owner Name Connector: And/Or

Water District Number:

**IRRIGATION WATER SYSTEM
HELSLEY PROPERTY**

Water Right 65-23072

T6N R4W
Section 13

NWNE

Legend

Well #1 & Booster Pump

Irrigation Place of Use

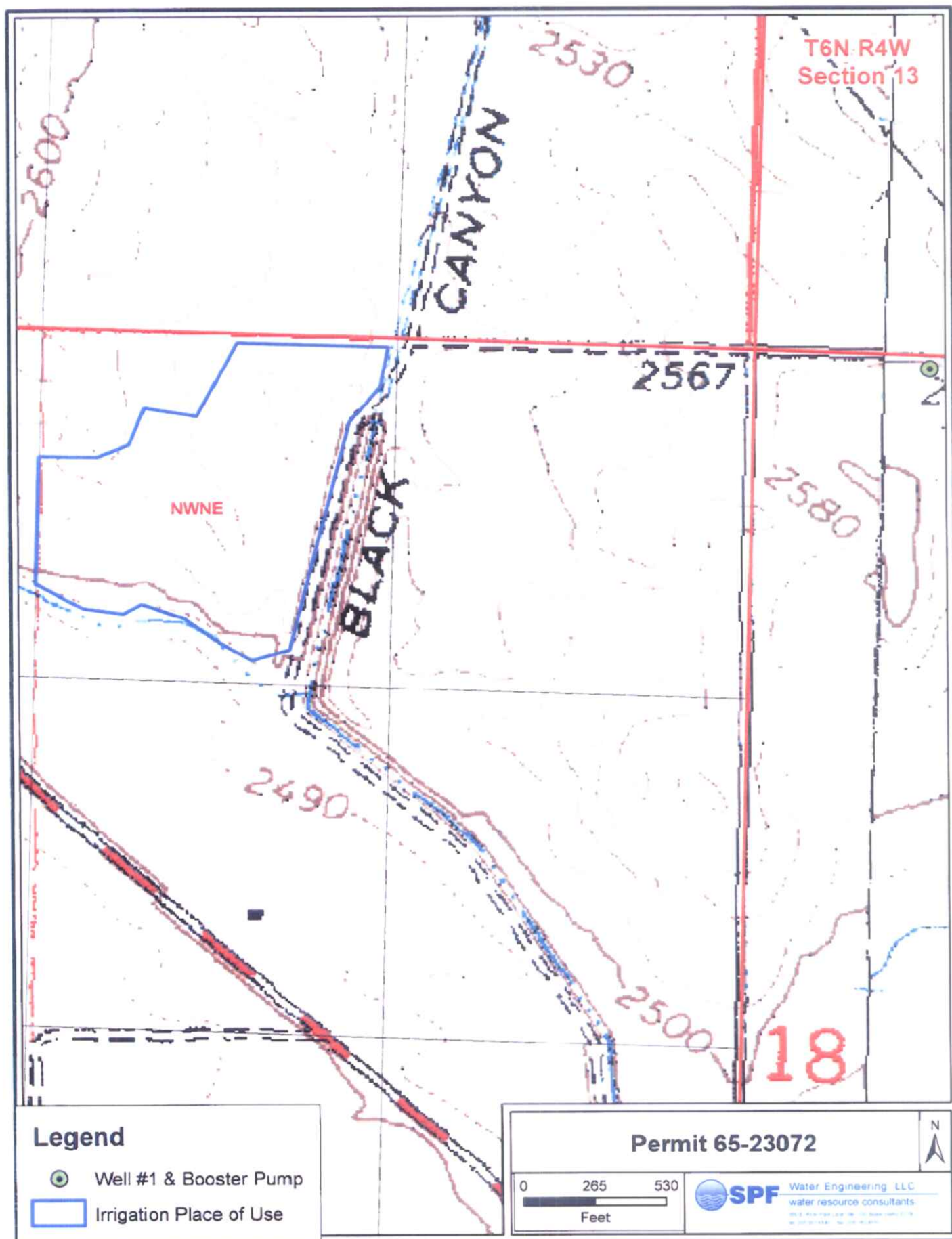
Permit 65-23072
2006 NAIP Photography

0 265 530
Feet



Water Engineering, LLC
water resource consultants
800 E. Main Street, Suite 100, Boise, Idaho 83702
208.333.8888





Permit 65-23072
9/5/2007 Exam Photos



Well #1: 16-inch Casing, 300-hp Turbine Pump
NWNW, Section 18, T6N, R3W (Gov Lt 1)



Booster: 7.5-hp
NWNW, Section 18, T6N, R3W (Gov Lt 1)



Place of Use
NWNE, Section 13, T6N, R4W (facing west)
22 Acres Irrigation

IRRIGATION WELL (WELL #1)

Log and Pump Curve

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

pg 1482

767076

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

1. WELL TAG NO. D 15828
DRILLING PERMIT NO. _____
Other IDWR No. _____

2. OWNER:
Name Daniel Kazen Hansen
Address P.O. Box 337
City Naap State Id Zip 83453

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

Map grid showing location. Twp. 10 North ☒ or South ☐
Rge. 3 East ☐ or West ☒
Sec. 18 1/4 NW 1/4 NW 1/4 SW
Gov't Lot _____ County _____
Lat _____ Long _____
Address of Well Site 1 mile NE Black Canyon exit City Sandwich
LL _____ Bkt. _____ 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 Reverse

7. SEALING PROCEDURES

Material	From	To	Amount	Method
Bentonite 5/8"	0	320'	1000#	Overbore
Bentonite 5/8"	320'	410'	3700#	Overbore
Bentonite	530'	535'	100#	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
11 1/2"	7.2	324'	5.75	SS	☒	☐	☒	☐
10"	354'	368'	5.75	SS	☒	☐	☒	☐
11 1/2"	368'	410'	5.75	SS	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe 10'

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
Screen _____ Screen Type SS Johnson

From	To	Bar Size	Number	Diameter	Material	Casing	Liner
324'	354'	1/8"		11 1/2"	SS	☒	☐
368'	388'	1/8"		11 1/2"	SS	☒	☐
410'	451'	1/8"		11 1/2"	SS	☒	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

205 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: 2" access pipe

11. WELL TESTS:

Yield gal/min	Drawdown	Pumping Level	Time
<u>1800</u>	<u>82</u>	<u>287'</u>	<u>8 hrs</u>

Water Temp. 65° Bottom hole temp. _____
Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
8"	0	12	Sand		
	12	43	Sandy Clay		
	43	515	Coarse Sand, Silty Clay		
	515	520	Thin clay & sand silt		
	520	530	Mud Sand		
	530	533	Thin Clay		
	533	535	Sand & Clay		
	535	538	Mud Sand		
	538	540	Thin Clay		
	540	545	Mud Sand		
	545	546	Thin then Blue Clay		
	546	551	Coarse to medium sand		
	551	551	Blue Clay		
	551	551	Mud Sand		
	551	580	Blue Clay, Silty Sand		

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Idaho Department of Water Resources

Pump test results as required by condition #10.

Completed Depth 530' (Measurable)
Date Started 11-1-00 Completed 12-15-00

13. DRILLER'S CERTIFICATION

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

Company Name Riverside Inc. Firm No. 333

Firm Official _____ Date _____
and _____
Driller or Operator _____ Date 2-15-01
(Sign lines of Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Pg 182

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

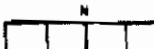
1. WELL TAG NO. D 15828
 DRILLING PERMIT NO. _____
 Other DWR No. _____

2. OWNER:

Name David Eileen Hansen
Address P.O. Box 337
City Minneapolis State Id Zip 83403

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.


 Twp. _____ North ☐ or South ☐
 Rge. _____ East ☐ or West ☐
 Sec. _____
 Gov't Lot _____ 1/4 1/4 1/4
 County _____
 Lat _____ Long _____
 Address of Well Site _____

(Give at least name of road, Distance to Road in (meters))

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK check all that apply (Replacement etc)

☐ New Wall ☐ Modify ☐ Abandonment ☐ Other _____

5. DRILL METHOD

☐ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	METHOD
Material	From	To	Sacks or Pounds	
ESST #1/2	300	452	25191	Over the
ESST #1/2	410	530	37800	Over the
1/2 lb. bag	555	584	21,305	Over the

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	Ceasing	Liner	Welded	Thermod
110"	451'	500'	50"	Steel	A	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Performers	Method
------------	--------

Scraens	Scraen Type
---------	-------------

From	To	Start Size	Number	Diameter	Material	Coating	Linear
500	520	.035		110	SS	☒	☐
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Depth First Water Encounter

[illegible]

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FEB 20 2004

Department of Water Resources

Completed Depth _____ (Measurable)
Date: Started _____ Completed _____

13. DRILLER'S CERTIFICATION

(We certify that all minimum well construction standards were complied with at the time the ng was removed.)

Company Name _____ Firm No _____

Firm Official _____ Date _____

and
Driver or Operator _____ Date _____

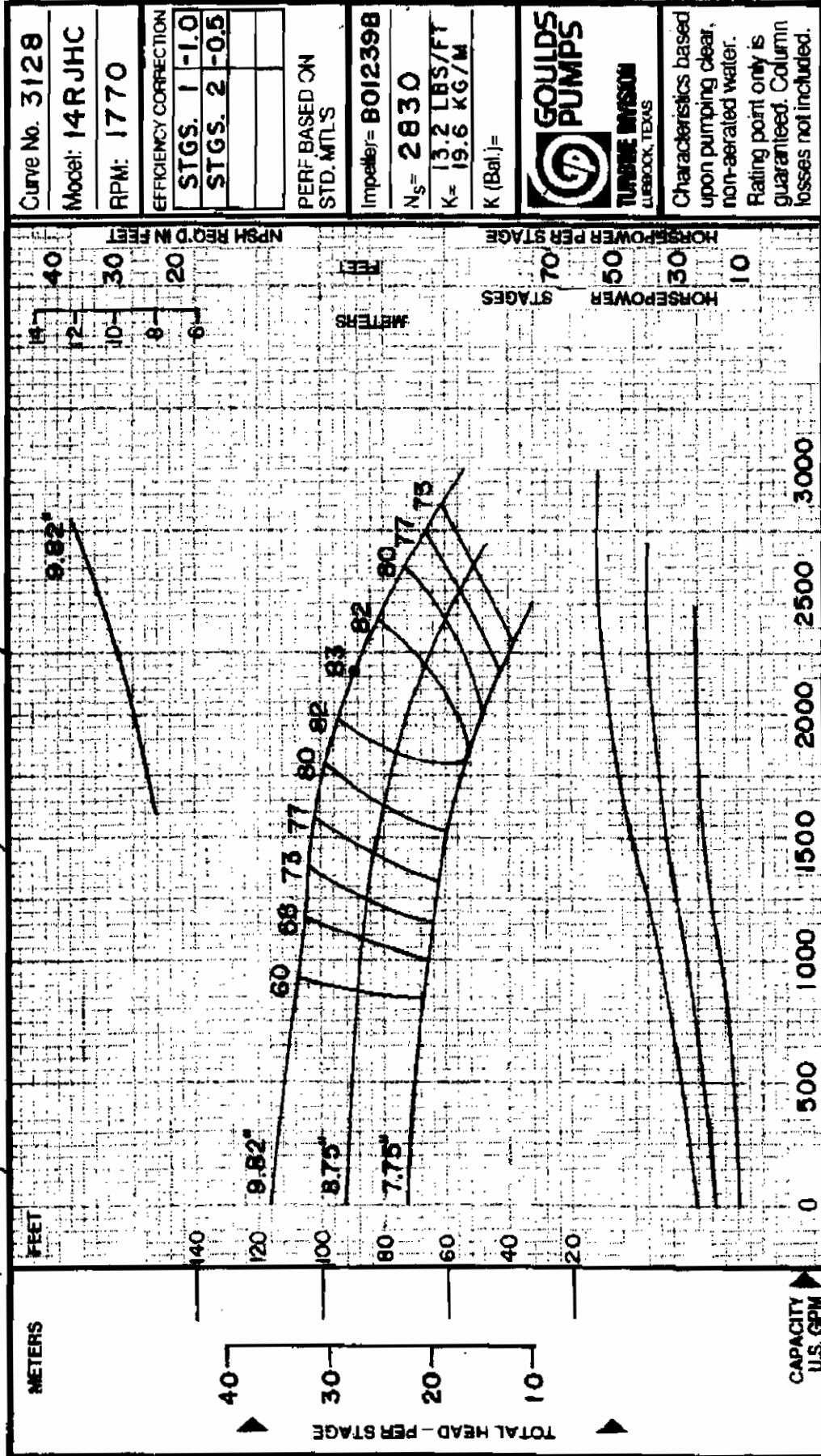
Client name & Firm Contact & Organization

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WELL #1

GOLDS PROPOSAL NO.	GOLDS S.O. NO.	INQUIRY NO.	CUSTOMER P.O. NO.	P.O. DATE	ITEM NO.	CUSTOMER
PROJECT <i>Dep Hansen</i>			SERVICE		CAPACITY	200
			F.T. TDH		335	% EFFICIENCY
			RPM		1770	

4 Stages Full D:4 Pump Set AT 350'



MODEL
14RJHC
DATE
May 2, 1988
SUPERCEDES
July 22, 1977

BOOSTER PUMP CURVE

Valley Irrigation Service & Supply

812 W. Laurel St.

Caldwell, Id 83605

Phone: (208) 453-9155 Fax: (208) 453-9158



PERFORMANCE
IRRIGATION DEALER

Send To:	From: <u>TONY B</u>
Attention: <u>LOLI</u>	Date: <u>10/12/07</u>
Fax Number: <u>383-4152</u>	Phone Number:

Total Pages, Including Cover: 2

Comments

LOLI, I PURSED THE FILE ON THE
HELSING PIVOT IT IS 250 GPM
Any Questions Give me a call



BERKELEY PUMPS TYPE "B" RATING CURVES MOTOR DRIVE

CURVE	4075
DATE	1-27-89
PAGE	4.01
SUPERSEDES	
Curve 4075	Page 4.01
Dated 1-2-86	

