

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

JUN 16 2008

DEPARTMENT OF
WATER RESOURCES

A. GENERAL INFORMATION

Permit No. 63-31177

1. Owner: Rod & Maureen Frisby Family Ltd. Partnership Phone No.: 208.459.0875

Current Address: 6205 SE 8th Ave., Caldwell, ID 83607

2. Accompanied by: Russell Frisby EXAM DATE: 5/21/2008

Address: Sand Hollow Phone No. 208.941.1210

Relationship to Permit Holder: Son, Farm Manager

3. Source: Ground Water tributary to

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None

2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
			NW	SW	24	6N	4W	Payette	Field Exam

2. Place(s) of Use:

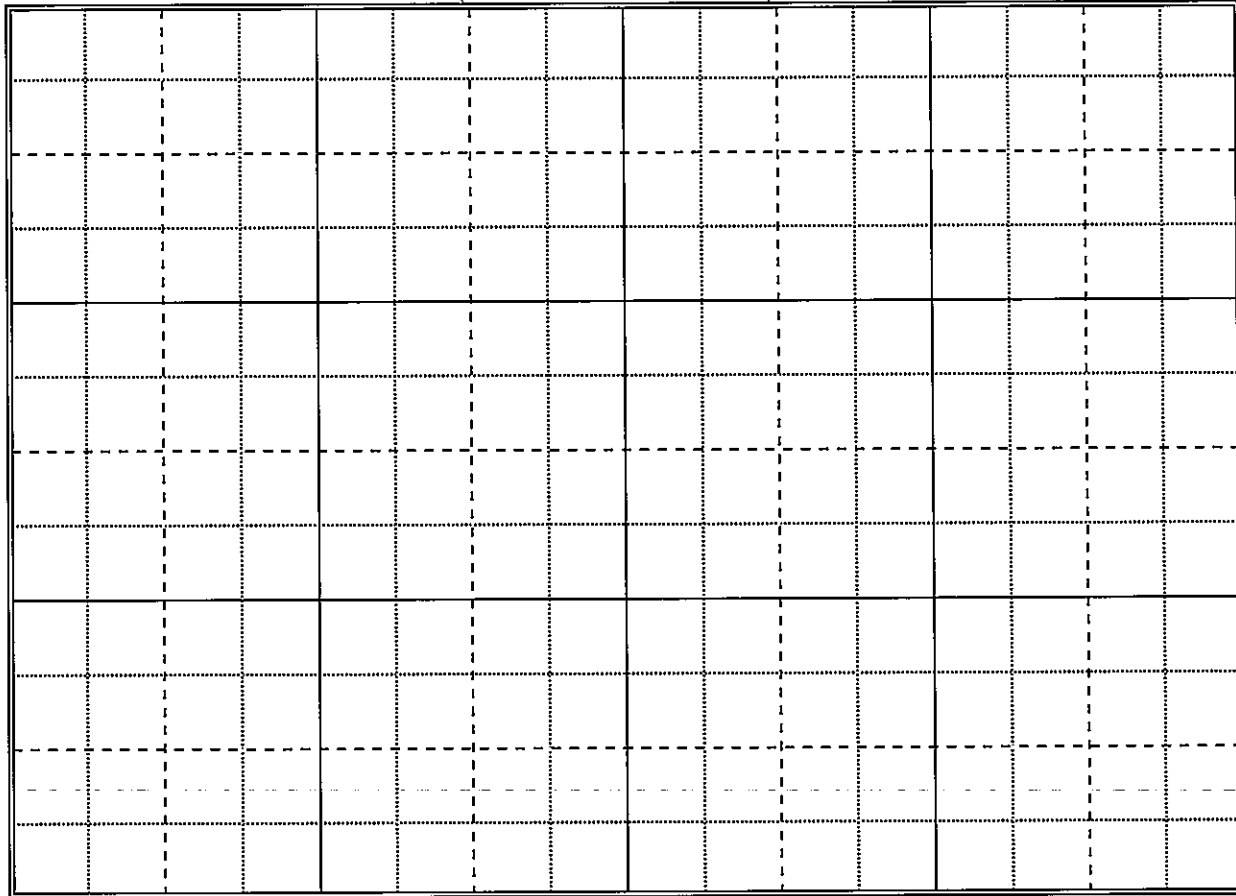
Indicate Method of Determination Field Exam, 2006 NAIP Photo

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	23																23	23
		24							17	11	22	38	35	33					156
		25					9	5											1
		26	5																5

Total 198

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

(See Attached NAIP Photo)



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
West Well	GE	200	GMJ728116	Layne Turbine	12 THC

*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 supplied by Riverside						

2. Measurements:

Pumping Water Level (PWL): The well log for this shows 2,000 gpm with 51' drawdown (39 gpm/ft of drawdown) after 6 hours of pumping. At 1,800 gpm, the drawdown will be 46' (1,800 gpm/39 gpm/ft). Static water level was reported at 101'. PWL calculated to be 147' (101' static + 46' drawdown) To be conservative, PWL is assumed to be 150'.

Total Dynamic Head: 360' (150' PWL, *15' friction loss, 84 psi discharge)

*Friction loss: 260' pump setting, 10" column, 2.5" tube. Head loss (friction) = $6'/100$ or $260'/100 \times 6' = 15.6'$ (assume 15')

E. NARRATIVE/REMARKS/COMMENTS

A 16-inch well (aka west well) equipped with a 200-hp turbine pump supplies irrigation water to 198 acres located west of I-84. The west well irrigation system consists of one 7-tower pivot, a three-quarter 5-tower pivot, and a half 5-tower pivot. Ground water is also provided to portable hand lines and wheel lines to irrigate the pivot corners and small fields. The system operates between 65 and 70 psi.

The associated well log and pump curve for this system are attached. Riverside Inc. drilled the well and installed the pump. Dave Cleaver with Riverside Inc. supplied the attached pump curve. Agri-Lines designed the irrigation system. Russell Frisby provided the mainline information described on the attached system diagram.

The recommended acres only receive irrigation water from the well. Black Canyon irrigation District confirmed that the permit holder is assessed for 656.7 acres irrigation east of the freeway, nothing west of the freeway. Permit condition No. 5 (*The right holder shall use the full allotment of appurtenant surface water rights in conjunction with groundwater diverted for irrigation purposes under this right*) and permit condition No. 6 (*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 groundwater shall not be used without an approved transfer pursuant to Section 42-222, Idaho Code, or approval of the Department if a transfer is not required*) are not applicable because there are no surface water rights appurtenant to the property. Therefore, these conditions should not be included on the license.

Have conditions of permit approval been met? X yes ___ no

F. FLOW CALCULATIONS

Yes Additional Computation Sheets Attached
(Pump Curve)

Measured Method:

Per pump curve: 1,800 gpm capacity or 4.01 cfs

Limited to 3.96 cfs per permit

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 198 \times 4.5 = 891$$

$$V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 3.96 \times 260 \times 1.9835 = 2,042$$

$$V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} = 891$$

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	3.96	891

2. Recommended Amendments

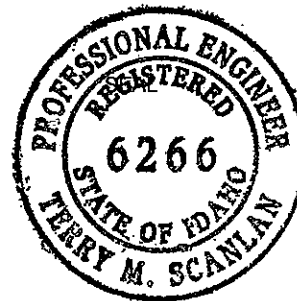
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None
☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Terry M. Scanlan Date 6/12/08

Field Examiner's Signature *Terry M. Scanlan*

Reviewer _____ Date _____



ATTACHMENT A

PERMIT & PROOF OF BENEFICIAL USE RECORDS

Close

IDAHO DEPARTMENT OF WATER RESOURCES
Water Permit Report

05/19/2008

WATER RIGHT NO. 63-31177

Owner Type	Name and Address
Current Owner	ROD & MAUREEN FRISBY FAMILY LTD PARTNERSHIP 6208 S E 8TH AVE CALDWELL, ID 83605 (208)459-0875

Priority Date: 03/30/2001
Status: Active

Source	Tributary
GROUND WATER	

Beneficial Use	From	To	Diversion Rate	Volume
IRRIGATION	03/01	11/15	3.96 CFS	
Total Diversion			3.96 CFS	

Location of Point(s) of Diversion:

GROUND WATER | NENWSW | Sec. 24 | Township 06N | Range 04W | 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	23		SESE	26									
		24		SWNW	6		SENW	10						
		25		NESW	24		NWSW	40		SWSW	33		SESW	31
		26		NENW	21									
				NENE	7									

Total Acres: 198

Conditions of Approval:

- 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 permit holder had no control.
- 046 Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
- 01M 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.
- 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.
- 100 The right holder shall use the full allotment of appurtenant surface water rights in conjunction with groundwater diverted for irrigation purposes under this right.
- 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 groundwater shall not be used without an approved transfer pursuant to Section 42-222, Idaho Code, or approval of the Department if a transfer is not required.
- 020 Use of water under this right may be affected by an agreement between the protestant and the right holder.
- 8 This permit is for the use of ground water and is subject to administration as a water right from connected sources in the Snake River Basin in accordance with applicable law.
- 9 This permit for the use of ground water shall be junior to, and subject to, the water rights of the United States Bureau of Reclamation heretofore appropriated, including, as authorized by applicable law, re-use of water under such water rights.
- R65 This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the lands above.
- 11 Water bearing zone to be appropriated is 100 to 150 feet.

Dates:

Proof Due Date: 07/01/2007
Proof Made Date: 07/02/2007
Approved Date: 07/09/2002
Moratorium Expiration Date:
Enlargement Use Priority Date:
Enlargement Statute Priority Date:
Application Received Date: 03/29/2001
Protest Deadline Date: 11/26/2001
Number of Protests: 2
Field Exam Date:
Date Sent to State Off:
Date Received at State Off:

Other Information:

State or Federal:
Owner Name Connector:
Water District Number:

FOR OFFICE USE ONLY
Amt. of Fee \$: 175.00
Receipt No. 0084466
Receipt By: AMB/dg
Date Received: 7-2-07

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECEIVED

PROOF OF BENEFICIAL USE

JUL 02 2007

DEPARTMENT OF
WATER RESOURCES

The Idaho Department of Water Resources considers this form a statement that the permit holder(s) has/have completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee, when necessary, or be accompanied by a completed field examination report prepared by a certified water right examiner.

1. Permit No. 63-31177 Telephone No. 208-459-0875
2. Name of Permit Holder(s): Rod & Maureen Frisky Family LP
3. Mailing Address: 6205 S.E. 8th AVE
City Caldwell State ID Zip 83607
4. Source of Water: _____ If GROUNDWATER (well), Date Drilled: mo. 12 / yr. 2002
Well Driller: Riverside, Inc Drilling Permit Number: 872078-779206
5. Use(s) (as authorized by the water right permit):
Domestic (No. of households): _____ Stockwater (No. and type of stock): _____
Irrigation (No. of acres): 198 Other: _____
2000 gal/min
6. Total rate of diversion and/or volume for which proof is submitted: 3.96 cfs OR _____ acre-feet
7. Measuring Device Requirement: (refer to the approval conditions on your permit and respond accordingly)
(This question is not optional. Please check either yes or no. Proofs returned not checked accordingly, will be considered incomplete)
Measuring Device: Is a measuring device required? Yes _____ or No /
Has the measuring device been installed? Yes _____ or No /
8. Fee Enclosed: \$ 175.00 (See Fee Schedule on back of the instructions for filing proof of beneficial use)
9. Person to contact to accompany the Department representative during field examination of the water system.
Name: Rod Frisky Telephone Number: 208 459-0875
Address: 6205 S.E. 8th AVE Caldwell ID 83607
10. The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted. I agree to relinquish any undeveloped portion of the permit to the State of Idaho.
Signature of permit holder: Maureen Frisky, Sec Date: 6/30/07
(include your title, if on behalf of company or organization)

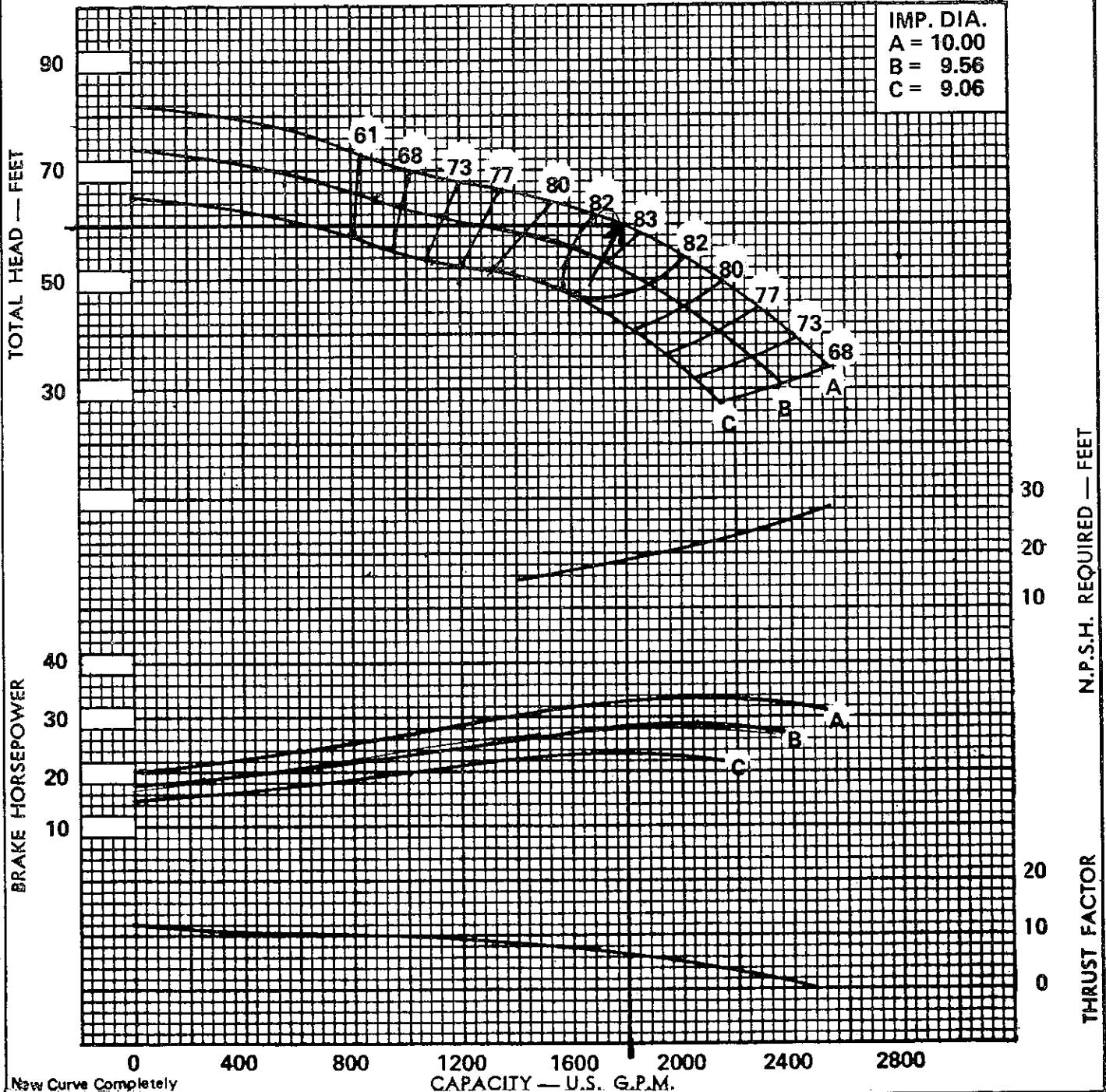
ATTACHMENT B

PUMP CURVE & WELL LOG

West Well

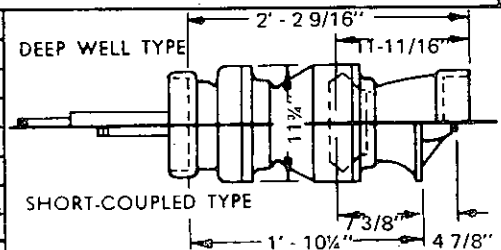
CURVE NO. 18-136 8-1-78	No. Stages	Eff. Change	MATERIAL	Eff. Change	12 THC	1760 R.P.M.
	1	-3	IMP.—C.I.	-1	SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 3 OR MORE STAGES. HORSE POWER SHOWN FOR ONE STAGE BASED ON 3 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.	
	2	-1	IMP.—NI-RI	-2		
	3	0	BOWL—BRZ.	-1		
	4		BOWL—NI-R.	-1		

ONE (6) 1800 GPM 360' TDH 200 HP
STAGE STAGES



New Curve Completely

EYE AREA — SQ. IN. = 29.63	IMPELLER WT.-LBS. = 19.6
WR ² PER IMPELLER = 1.28 LB.-FT. ²	ONE STAGE WT.-LBS. = 328
MAX. SPHERE SIZE = 1.06 in.	ADD'L STAGE WT.-LBS. = 123
MAX. NO. STD. STAGES = 11	IMPELLER NUMBER = 6T17A
MAX. OPERATING P.S.I. = 410	DISCH. SIZES = 8 & 10
STD. LATERAL = 0.50 in.	SUCTION SIZES = 10
STD. SHAFT DIA. = 1.687 in.	MAX. LATERAL = 1.00 in.
MAX. SHAFT DIA. = 1.937 in.	BOWL CONN. THREADED-COLLET
MIN. SUBMERGENCE = 46 in.	ADD 10 " PER ADDITIONAL STAGE.



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 0020354
 DRILLING PERMIT NO. - - - 87278-779206
 Other IDWR No. 63-31177

11. WELL TESTS:

☐ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
2000			6 hrs

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter

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

[illegible]

13. DRILLER'S CERTIFICATION

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

Company Name _____ Firm No. _____

Firm Official _____ Date _____

Driller or Operator _____ Date _____

(Sign once if Firm Official & Operator)

2. OWNER:

Name ROD + MAUREEN FRISBEE FAMILY LTD
Address 6208 SE 8th AVE PARTNERSHIP
City CALDWELL State MD Zip 83605

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

Twp. 6 North ☒ or South ☐
 Rge. 4 East ☐ or West ☒
 Sec. 24 NE 1/4 NW 1/4 SW 1/4
10 acres 40 acres 160 acres
 Gov't Lot _____ County _____
 Lat: _____ Long: _____

Address of Well Site

City _____

[Give at least name of road + Distance to Road or Landmark]

Lt.	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	

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
10	38.3	40.0	36.5	STEEL	PO	☐	☒	☐
10	41.0	41.4	36.5	STEEL	PO	☐	☒	☐
10	43.0	44.4	36.5	STEEL	PO	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations	Method	Reference
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Screens	Screen Type
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From	To	Slot Size	Number	Diameter	Material	Casing	Line
373	383	.035		10"	S.S.	X	☐
400	410	.035		10"	S.S.	X	☐
414	430	.035		10"	S.S.	X	☐
444-454		.035		10"	S.S.	X	

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

FORWARD WHITE COPY TO WATER RESOURCES

ATTACHMENT C

**RECOMMENDED PLACE OF USE & POINT OF DIVERSION
(2006 NAIP PHOTO & TOPO MAP)**



Legend

-  West Well Point of Diversion
-  West Ground Water Irrig.-198 acres
-  Sections
-  40-Acre Tracts

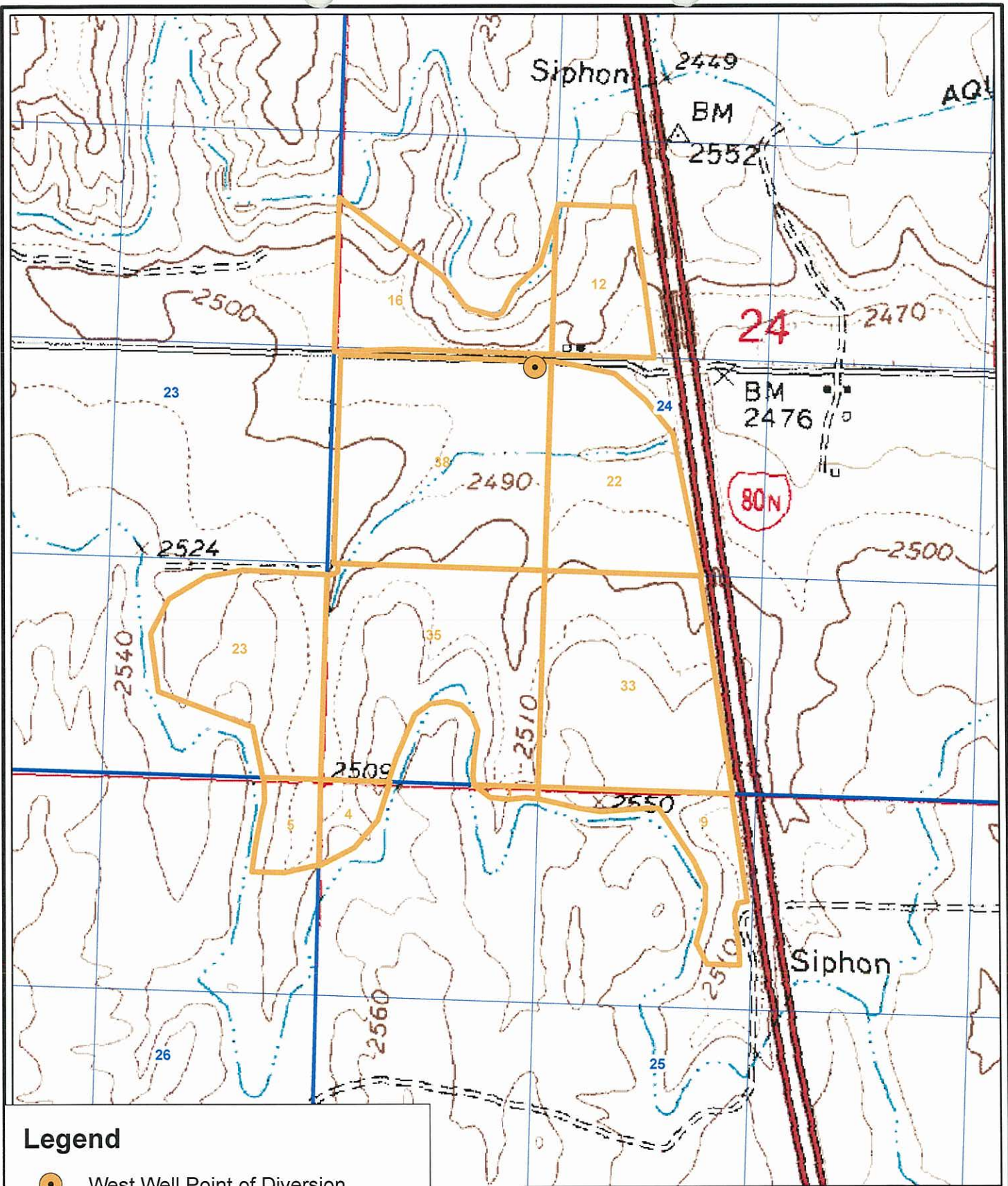
West Well Irrigation System Permit 63-31177

0 500 1,000
Feet



Water Engineering, LLC
water resource consultants
600 E. River Park Lane, Ste. 105, Boise, Idaho 83706
tel: 208.383.4140 fax: 208.383.4156





Legend

-  West Well Point of Diversion
-  West Ground Water Irrig.-198 acres
-  Sections
-  40-Acre Tracts

West Well Irrigation System Permit 63-31177

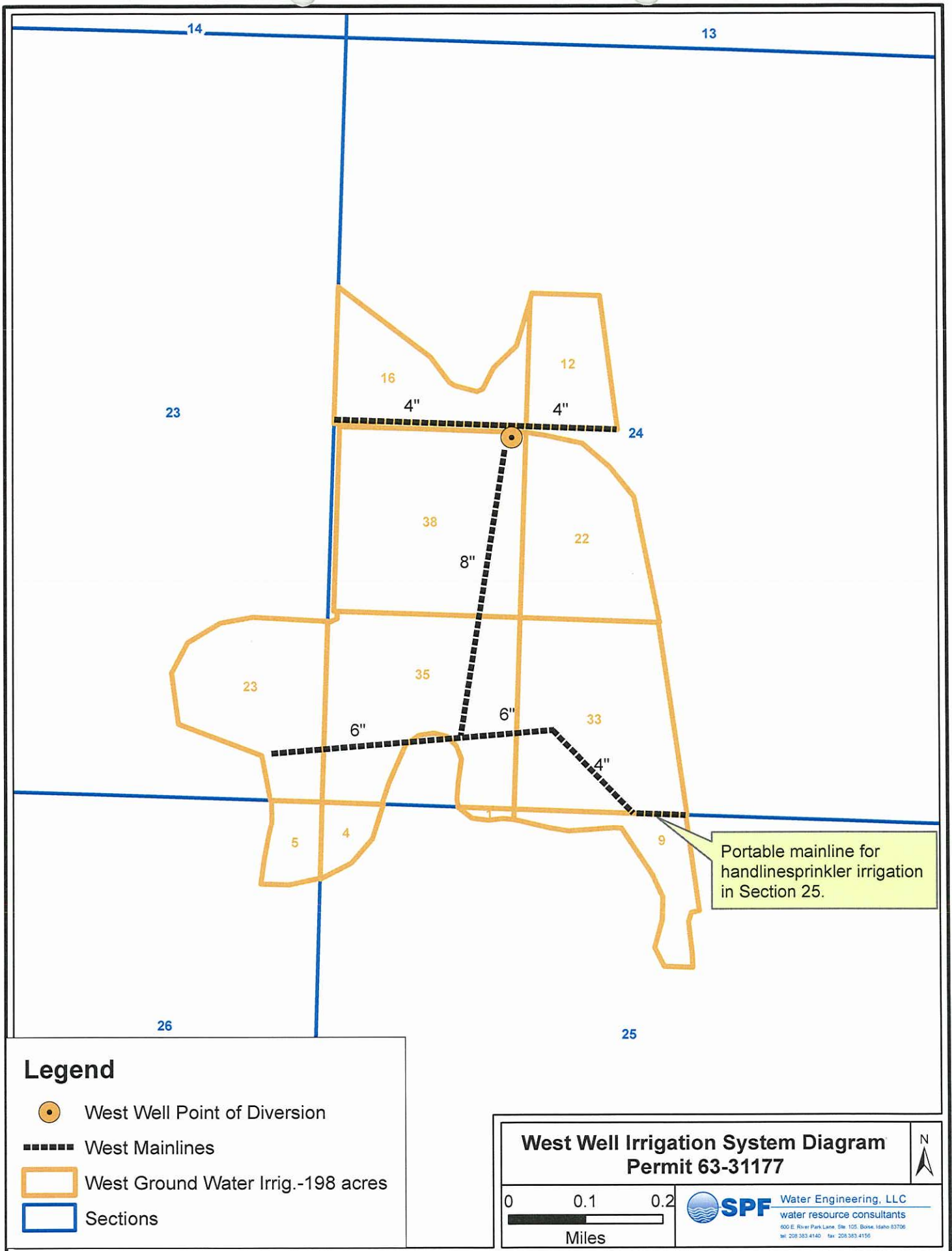
0 500 1,000
Feet



Water Engineering, LLC
water resource consultants
600 E. River Park Lane, Ste. 105, Boise, Idaho 83706
tel: 208.383.4140 fax: 208.383.4155



ATTACHMENT D
SYSTEM DIAGRAM



ATTACHMENT E

SYSTEM PHOTO



16" West Well, 200 HP Pump