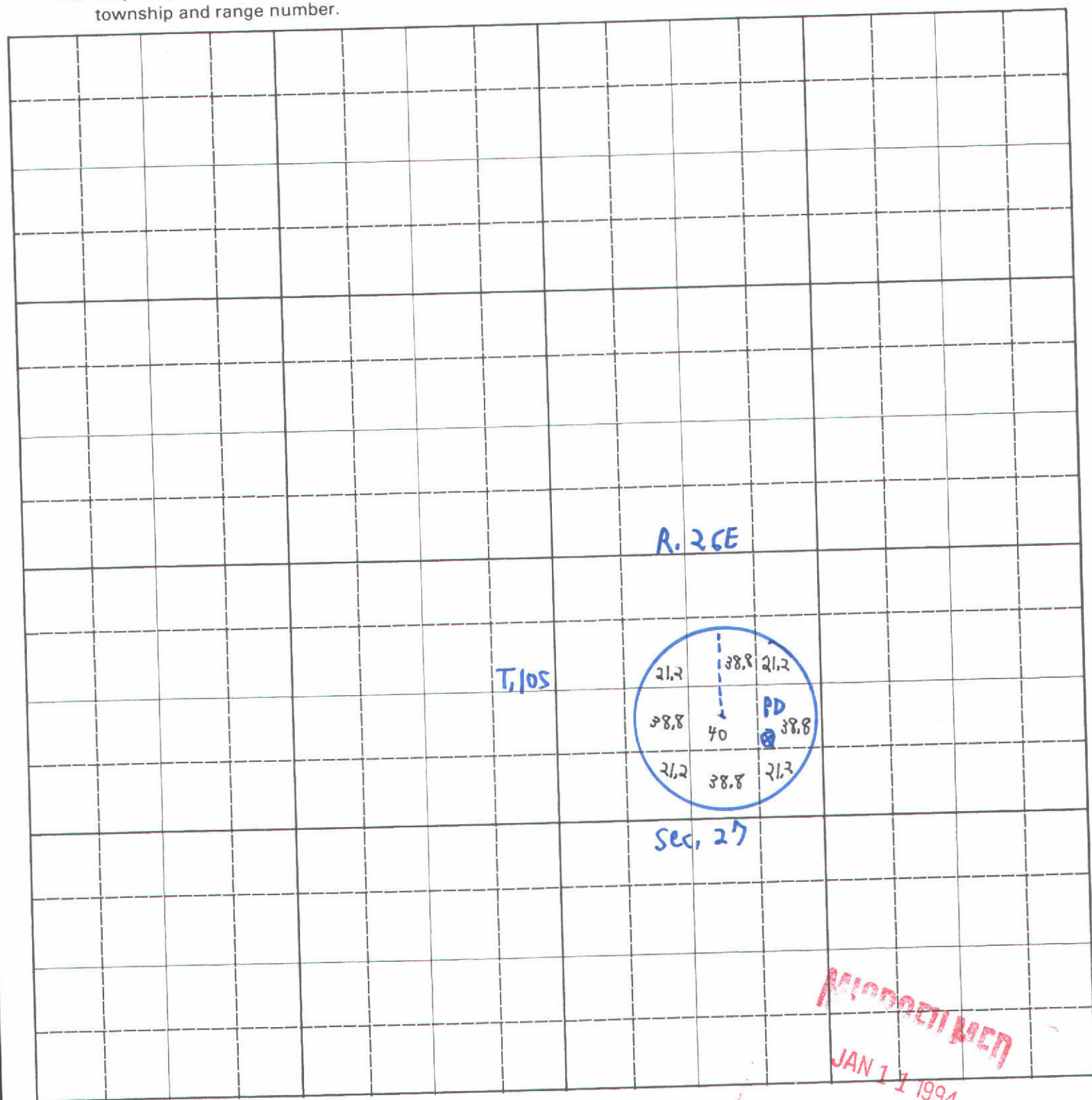


13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile.

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

Philip F. Wheeler
(Applicant)

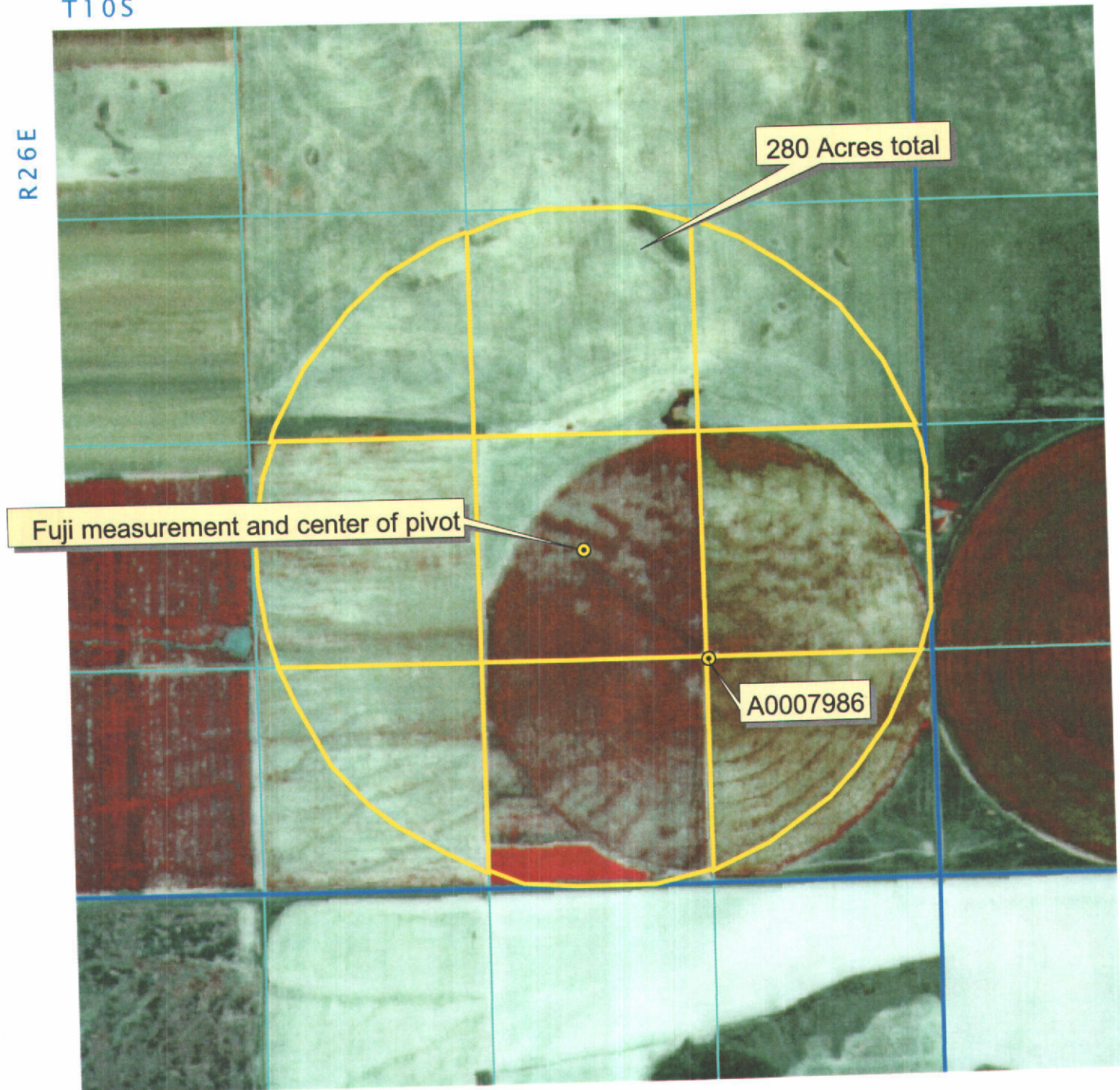
Idaho Department of Water Resource

Recommendation for 43-7319

Wheeler

T10S

R26E



● Point of Diversion

□ Quarter-quarter Lines

□ Section Lines

□ Place of Use

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FEB 25 2002



Point of Diversion

T10S R26E S27

Data entry on July 23, 2001

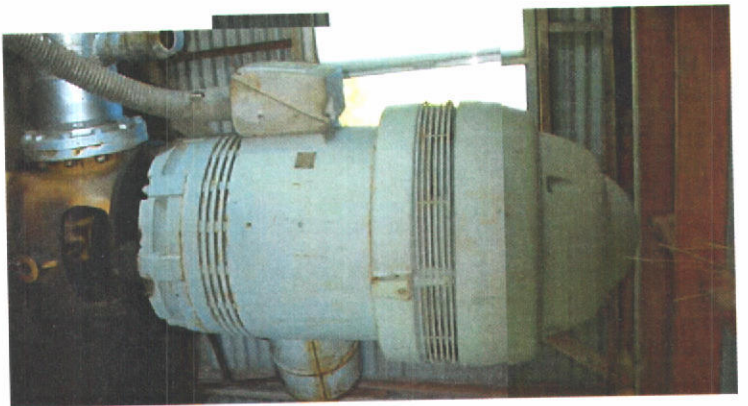
Point of Diversion Presentation
1987/1988 NAPP Photography
Data Entry By: Amanda Folsom



14 story pivot



GPS Tag #A0007986 on
outside of pump house



350hp US Motors

43-7319
Wheeler
July 2, 2001

MICROFILMED
FEB 25 2002

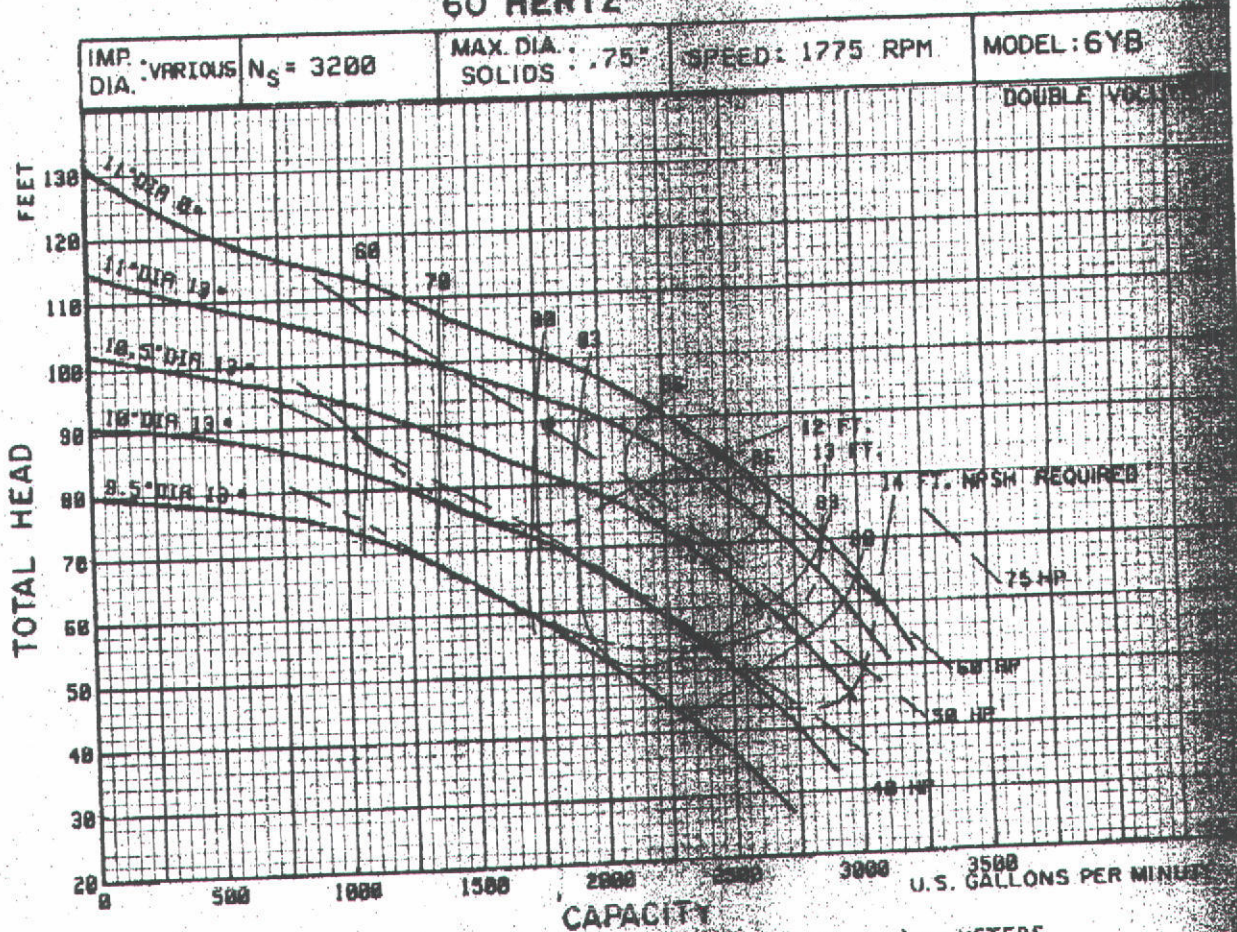
RECEIVED
JUL 13 2001

Department of Water Resources
Southern Region

SUPERSEDES 134-61, 61C
SEPT. 82

APRIL 1985
MODEL 6YB PUMP
SPEED - 1800 RPM
CLOSED IMPELLER
60 HERTZ

134-55



HP	MAXIMUM IMPELLER DIAMETER	
	FOR FULL MOTOR LOAD	FOR FULL MOTOR LOAD + 15% S.F.
75	A (11.0" 0°)	
60	B (11.0" 13°)	B+ (11.0" @ 0°)
50	C (10.56" 13°)	C+ (11.0" @ 13°)
40	D (10.0" 13°)	D+ (10.44" @ 13°)

FT. x (.305) = METERS

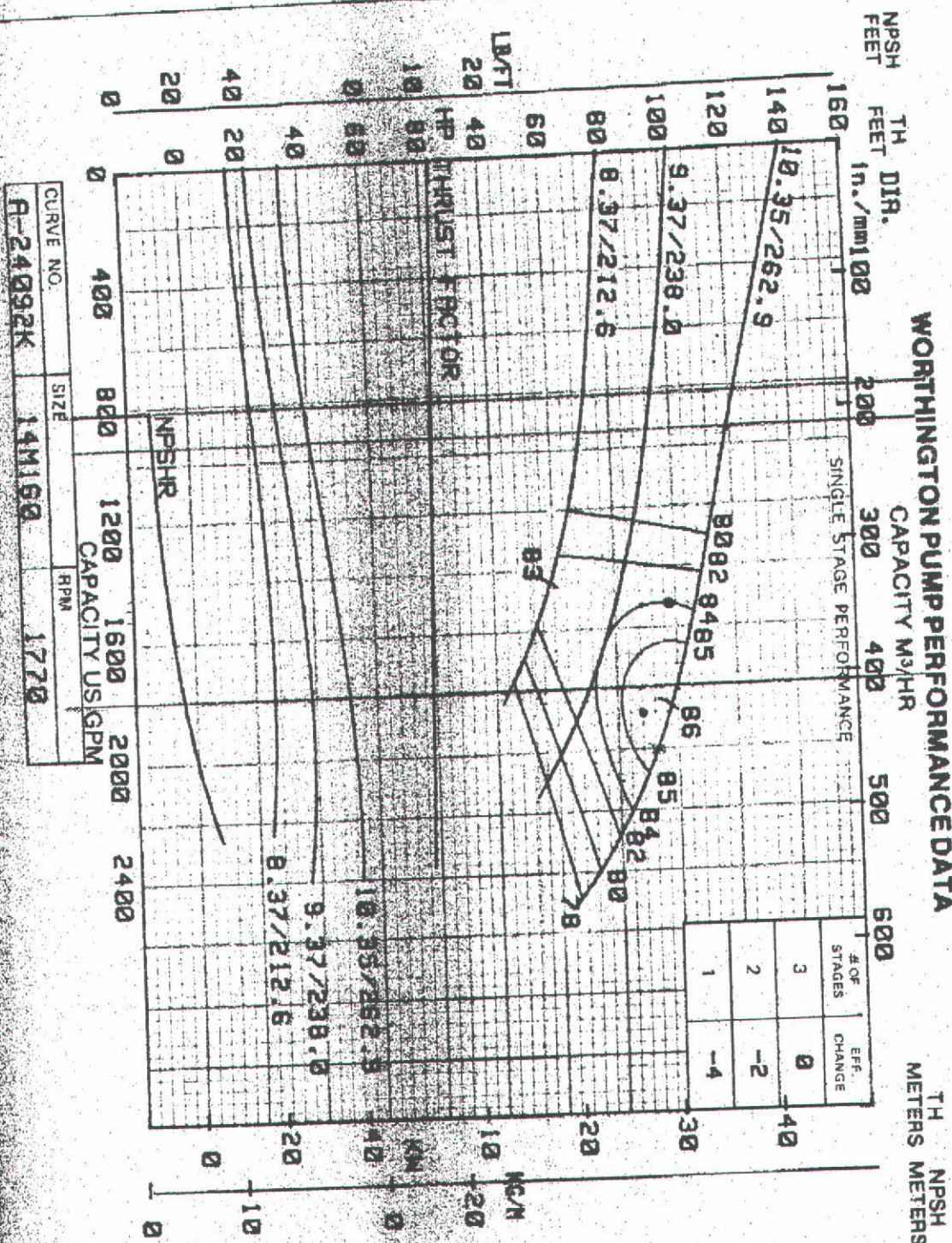
GPM x (.227) = CUBIC METERS PER MINUTE

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FEB 25 2002

Performances shown are for close-coupled electric configuration with packing.
Other mounting styles may require horsepower and/or performance adjustments.

Dresser Pump Division, Inc.



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JUL 13 2001

Department of Water Resources
Southern Region

Customer _____

Project _____

Cust. Proposal/Order No. _____

Customer Item No. _____

Liquid/Service _____

Head _____

Sp. Gr. _____

Temp. _____

Visc. _____

% Consistency _____

SSU _____

Worthington S.O. _____

Proposed/Order No. _____

Certified By _____

Date _____

2400-8 Page 67
June 1988
Supersedes
May 1988
14M160
1770 RPM

MICROFILMED
FEB 25 2002

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 43-07319

Priority: January 9, 1992

Maximum Diversion Rate: 1.79 CFS
Maximum Diversion Volume: 280.0 AF

It is hereby certified that DOROTHY WHEELER
102 S 2250 E
DECLO ID 83323

And/Or

PHILIP F WHEELER
102 S 2250 E
DECLO ID 83323

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated January 9, 1992; and has submitted Proof of Beneficial Use on November 22, 1995. An examination indicates that the works have a diversion capacity of 4.01 cfs of water from:

SOURCE

GROUND WATER

and a water right has been established as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL DIVERSION VOLUME</u>
IRRIGATION	03/15 to 11/15	1.79 CFS	280.0 AF

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 27, Twp 10S, Rge 26E, B.M. CASSIA County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
10S 26E 27			38.8	21.2				21.2	38.8			21.2	38.8	40.0	38.8	21.2	280.0

Total Acres: 280

CONDITIONS OF APPROVAL

1. This right is for the use of trust water and is subject to review 20 years after the issuance of the permit to determine availability of water and to re-evaluate the public interest.
2. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.0 afa per acre at the field headgate for irrigation of the lands above.
3. Right 43-7020D is also diverted through the point of diversion described above.

MICROFILMED

FEB 25 2002

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 43-07319

CONDITIONS OF APPROVAL CONTINUED

4. Rights 43-7020D and 43-7319 when combined shall not exceed the irrigation of 280 acres.

This license is issued pursuant to the provisions of Section 42-219, Idaho Code. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed and sealed this 25th day of January, 2002.


KARL J. DREHER
Director

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FEB 25 2002

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECEIVED

PROOF OF BENEFICIAL USE NOV 22 1995

The Idaho Department of Water Resources considers this form a statement that the permit holder ~~has~~ ^{has} 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 who has been appointed by the department.

1. Permit No. 43-07319 Telephone No. 349-5761

2. Name(s) of Permit Holder(s): Philip / Dorothy Wheeler

3. Mailing Address: Star Rt Box 77 Dello IDAHO 83323

4. Source of Water: Groundwater If GROUNDWATER (well), Date Drilled: mo. 5 / yr. 72

a. Well Driller: C. D. Bishop Drilling Permit Number: N/A

b. **OPTIONAL:**

Pump Horsepower: _____ Pressure (psi): _____ Dynamic pumping level (ft): _____

5. Use(s) (as authorized by the water right permit):

Domestic (No. of households): _____ Stockwater (No. and type of stock): _____

Irrigation (No. of acres): 280 Other: _____

6. Total rate of diversion and/or volume for which proof is submitted: 2.03 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 X

Has the measuring device been installed?

Yes _____ or No X

Flow Measurement Port: Is a flow measurement port required?

Yes X or No _____

Has the measurement port been installed?

Yes X or No _____

8. Fee Enclosed: \$ 150.00 (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: Michael P. Wheeler / Anthony Wheeler Telephone Number: 349-5761

Address: Star Rt. Box 77 Dello IDAHO 83323

10. The information given on this form is my true statement of the extent to which the above numbered permit has been developed and I relinquish any undeveloped portion of the permit to the State of Idaho.

Signature of permit holder: Michael P. Wheeler (include your title, if on behalf of company or organization) Date: 11/20/95

DEC 11 1995

State of Idaho
Department of Water Resources
Permit To Appropriate Water

NO. 43-07319

Proposed Priority: January 9, 1992

Maximum Diversion Rate:

2.03 CFS

This is to certify, that **DOROTHY WHEELER**
PHILIP WHEELER
STAR RT BOX 77
DECLO ID 83323

has applied for a permit to appropriate water from: **GROUNDWATER**

and a permit is **APPROVED** for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
-----------------------	----------------------	--------------------------

IRRIGATION	04/01 to 10/31	2.03 CFS
------------	----------------	----------

LOCATION OF POINT(S) OF DIVERSION:

NESE , Sec. 27, Township 10S, Range 26E
CASSIA County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
10S	26E	27	SWNE 38.8	SENE 21.2	SENE 21.2	
			NESW 38.8	SESW 21.2	NESE 38.8	
			NWSE 40	SWSE 38.8	SESE 21.2	280

Total number of acres irrigated: 280

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before **December 1, 1995**.
2. Subject to all prior water rights.
3. 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.
4. A flow measurement port or other device as specified by the Department shall be installed by the right holder to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.
5. Any license issued by IDWR pursuant to the right or portion thereof for the use of trust water is subject to a term review of 20 years after the date of this approval to determine availability of water for the use and to re-evaluate the public interest at the end of the term.
6. Diversion and use of water under this right is subject to an annual use fee if rules are subsequently promulgated which provide for the submittal of the fee.
7. The Director retains jurisdiction of this right and/or subsequent license issued to change, add or remove any requirement as determined to be appropriate.

JAN 11 1994

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 43-07319

CONDITIONS/REMARKS:

8. The right holder shall use the full allotment of his surface water right, to the extent it is available, in conjunction with groundwater diverted pursuant to this right.
9. The rate of diversion of water for irrigation under this right and all other water rights on the same land shall not exceed 0.02 cubic feet per second for each acre of land.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.
Witness the signature of the Director, affixed at Boise, this

15th day of December, 1993.

R. Keith Higginson
for R. Keith Higginson, Director

RECORDED
JAN 11 1994

RECEIVED

Ident. No. 43-07319

JAN 09 1992

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

Department of Water Resources
Southern Region Office

To appropriate the public waters of the State of Idaho

1. Name of applicant Philip & or Dorothy Wheeler Phone 349-5579
Post office address Star Rt. Box 77, Declo, ID 83323

2. Source of water supply Groundwater which is a tributary of _____

3. Location of point of diversion is _____ 1/4 of NE 1/4 of SE 1/4, Govt. Lot _____
Sec. 27 Township 10S Range 26E B.M. Cassie County; additional
points of diversion if any: _____

4. Water will be used for the following purposes:

Amount 2.03 for Irrig. purposes from 4-1 to 10-31 (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated is (a) 2.03 ^{sub 7/31/92} and/or (b) _____
cubic feet per second acre feet per annum

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Existing well & pump, booster, 13-tower
pivot to be installed

b. Height of storage dam _____ feet; active reservoir capacity _____ acre-feet; total
reservoir capacity _____ acre-feet; period of year when water will be diverted to storage:
_____ to _____ inclusive.

c. Proposed well diameter is 20 inches; proposed depth of well is 700? feet.

d. Is ground water with a temperature of greater than 90°F being sought? No

7. Time required for the completion of the works and application of the water to the proposed beneficial use is
2 years (minimum 1 year).

JAN 11 1992

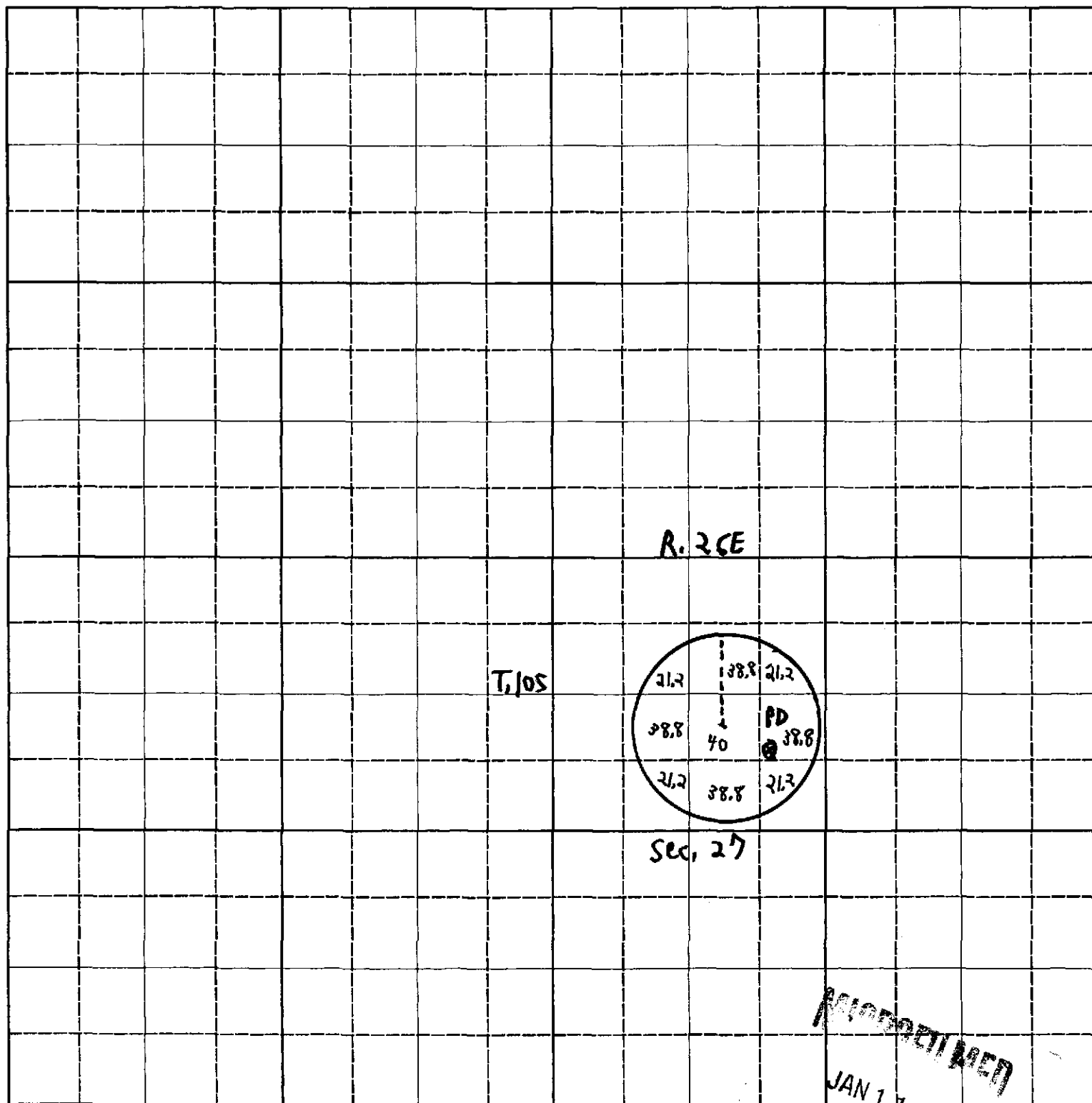
After large pivot is installed, land will be irrigated as described above. System pumping capacity will not be increased, as the pump was tested at 4.25 cfs in 1987. Licensing only measured 2.2 cfs, this application asks for the additional flow rate on the existing 9 new lands to be

082
082

[illegible]

8. Description of proposed uses (if irrigation only, go to item 9):

13. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



Scale: 2 inches equal 1 mile.

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

Philip F. Wheeler
(Applicant)

Received by J. F. Johnston Date 1-9-92 Time 4:20 pm Preliminary check by MTS
Fee \$ 85.00 Receipted by JF # 5014042 Date 1-9-92
Publication prepared by MB Date 9/28/92 Published in So. Id. Press
Publication approved M. Baldwin Date 10-28-92

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. _____, and said application is hereby _____.

1. Approval of said application is subject to the following limitations and conditions:

a. SUBJECT TO ALL PRIOR WATER RIGHTS.

b. Proof of construction of works and application of water to beneficial use shall be submitted on or before _____, 19 ____.

c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

d. The water right acquired under this permit if for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this permit and shall not give rise to any right or claim against any future rights to the use of water, other than hydropower, within the State of Idaho initiated later in time than the priority of this permit.

e. Other:

RECEIVED

JAN 11 1994



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Boise, ID 83706 - P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 327-7900 Fax: (208) 327-7866 Web Site: www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

January 28, 2002

PHILIP F WHEELER
DOROTHY WHEELER
102 S 2250 E
DECLO ID 83323

RE: License No. 43-7319 - Issuance of License

Dear Water Right Holder(s):

The Department of Water Resources has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review the conditions of approval and remarks listed on your license.

The license is a PRELIMINARY ORDER issued by the Department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action by the Department unless a party petitions for reconsideration or files an exception and/or brief within fourteen (14) days of the service date as described in the enclosed information sheet.

Please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Failure to report these changes could result in a \$100 late filing fee. Contact any office of the Department or visit the Department's homepage on the Internet to obtain the proper forms and instructions.

If you have any questions, please contact me at 208-327-7946.

Sincerely,

Shelley W. Keen
Water Rights Supervisor

SWK:klt

Enclosure(s)

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FEB 25 2002

CERTIFICATE OF MAILING

I hereby certify that on January 28, 2002 I mailed a true and correct copy, postage prepaid, of the foregoing PRELIMINARY ORDER(Approved License) to the person(s) listed below:

RE: WATER RIGHT NO. 43-7319

**PHILIP F WHEELER
DOROTHY WHEELER
102 S 2250 E
DECLO ID 83323**

A handwritten signature in cursive script, reading "Kari Lynn Townsend", written over a horizontal line.

**Kari Lynn Townsend
Secretary**

**MICROFILMED
FEB 25 2002**

**EXPLANATORY INFORMATION
TO ACCOMPANY A
PRELIMINARY ORDER**

The accompanying order or approved document is a "Preliminary Order" issued by the department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action of the Department of Water Resources (department) unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the department or the Idaho Water Resource Board (Board) is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its issuance if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) the petition for reconsideration is disposed of; or
- (b) the petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

Comment Report

43-7319

1. afolsom 07/24/2001 Field Exam Narrative

Comment: I conducted this field exam for Dorothy and Philip Wheeler on July 2, 2001. Mike Wheeler, their son, accompanied me on the exam. This permit was issued to increase the diversion rate from an already existing water right, and to add 70 more acres to the system.

WATER RIGHT 43-7020D

Water right license 43-7020D overlaps with the point of diversion and place of use described on this permit. License 43-7020D was issued for 2.22cfs and 840afa for a maximum of 210acres under irrigation. In order for this system to work, permit 43-7319 was issued to increase the diversion rate and to cover the additional 70 acres in the system.

POINT OF DIVERSION

The point of diversion for this system is located in the NESE $\frac{1}{4}$ of Sec 27, Twp 10S, Rge 26E. This was the original position of the well and pivot, however, the Wheelers increased the size of the pivot and transferred water to cover the new land under irrigation, hence License 43-7020D. This license was issued with a diversion rate of 2.22cfs. I took a measurement of the system using the Fuji at the pivot, and Mike Wheeler sent me pump curves and recorded measurements. The highest recorded measurement of the well came to 1800gpm. This calculates to a total system capacity of 4.01cfs. For my recommendation, I subtracted the already licensed portion for this well and will recommend the remainder, which came to a total of 1.79cfs.

PLACE OF USE

The place of use for water right license 43-7020D and this permit are exactly the same. License 43-7020D was issued to irrigate a total of 210 acres. The system total is 280 acres. This permit, 43-7319, was issued to cover the addition 70 acres not covered under the license and to increase the diversion rate. The Wheelers use a 14-story pivot with an end arm to irrigate the 280 acres. The well has a 350 horsepower pump with the main line buried to the pivot.

I recommend that the diversion rate be increased to 1.79cfs and 280afa.

2. S Keen 01/25/2002 License Review

Comment: License review by S. Keen on 1/24/2002.

3. ZIMMERMA 11/24/1993 MORATORIUM EXEMPTION

Comment: This permit is located within the Eastern Snake River Plain Moratorium boundary; however, its pre-1987 development is within the acceptable parameters of the Moratorium guidelines. TRUSTWATER REVIEW This permit proposes to divers 2.03 cfs of trustwater from a groundwater source to irrigate 280 acres located within S1/2NE, SENW, E1/2SW, SE, S27, T10S, R26E. This application, in conjunction with

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FEB 25 2002

S1/2NE, SENW, E1/2SW, SE, S27, T10S, R26E. This application, in conjunction with 43-07020A (2.22 cfs), will irrigate the same 280 acres by center pivot using a total of 4.25 cfs. The acres have been irrigated since 1987 using a different type of delivery system. This application satisfies 42-203A & C requirements. DIVERSION DESCRIPTION Existing 20" by 700' deep well with pump, booster, and 13-tower center pivot.

4. SCURTIS 11/27/1995 Proof of Beneficial Use Rcvd
Comment: Proof of Beneficial Use Rcvd

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FEB 25 2002

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

AUG 3 2001

DEPARTMENT OF WATER RESOURCES

A. GENERAL INFORMATION

Permit No. 43-73191. Owner: Philip and Dorothy Wheeler Phone No. 349-5761Current Address: Star Rt Box 77 Declo ID 833232. Accompanied by: Mike Wheeler EXAM DATE: July 2, 2001Address: Star Rt Box 78 Declo ID 83323 Phone No. 349-5761Relationship to Permit Holder: Son3. Source: Groundwater tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 43-7020 D2. Other water rights with the same point of diversion: 43-7020 D

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
			NE	SE	27	10S	26E	Cassia	GPS Tag # A0007986

2. Place(s) of Use:

Indicate Method of Determination GIS

TWP	RGE	SEC	NE				NW				SW				SE				Totals	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
10S	26E	27			38.8	21.2				21.2	38.8				21.2	38.8	40.0	38.8	21.2	280

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FEB 25 2002

size/ditch size/pipe i.d. as applicable.

Score: 7 =

* Copy of USGS Quadrangle Attached Showing location(s) of points of diversion and place(s) of use (required).

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

★ 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
40007986	US Motors	350	TYHU		
					MICROFILMED

*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
Fuji	FLC			TK0085TB		May 2001

2. Measurements:

Measurements: I measured the flow rate at the pivot, which is approx. $\frac{1}{4}$ mile from the well. Mike Collier has provided me w/ the pump curves as well.

E. NARRATIVE/REMARKS/COMMENTS

PERMIT: 43-7319
FROM: Amanda Folsom
DATE: July 23, 2001

I conducted this field exam for Dorothy and Philip Wheeler on July 2, 2001. Mike Wheeler, their son, accompanied me on the exam. This permit was issued to increase the diversion rate from an already existing water right, and to add 70 more acres to the system.

WATER RIGHT 43-7020D

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The point of diversion for this system is located in the NESE $\frac{1}{4}$ of Sec 27, Twp 10S, Rge 26E. This was the original position of the well and pivot, however, the Wheeler's increased the size of the pivot and transferred water to cover the new land under irrigation, hence License 43-7020D. This license was issued with a diversion rate of 2.22cfs. I took a measurement of the system using the Fuji at the pivot, and Mike Wheeler sent me pump curves and recorded measurements. The highest recorded measurement of the well came to 1800gpm. This calculates to a total system capacity of 4.01cfs. For my recommendation, I subtracted the already licensed portion for this well and will recommend the remainder, which came to a total of 1.79cfs.

PLACE OF USE

The place of use for water right license 43-7020D and this permit are exactly the same. License 43-7020D was issued to irrigate a total of 210 acres. The system total is 280 acres. This permit, 43-7319, was issued to cover the addition 70 acres not covered under the license and to increase the diversion rate. The Wheeler's use a 14-story pivot with an end arm to irrigate the 280 acres. The well has a 350 horsepower pump with the main line buried to the pivot.

I recommend that the diversion rate be increased to 1.79cfs and 280afa.

MICROFILMED

FEB 25 2002

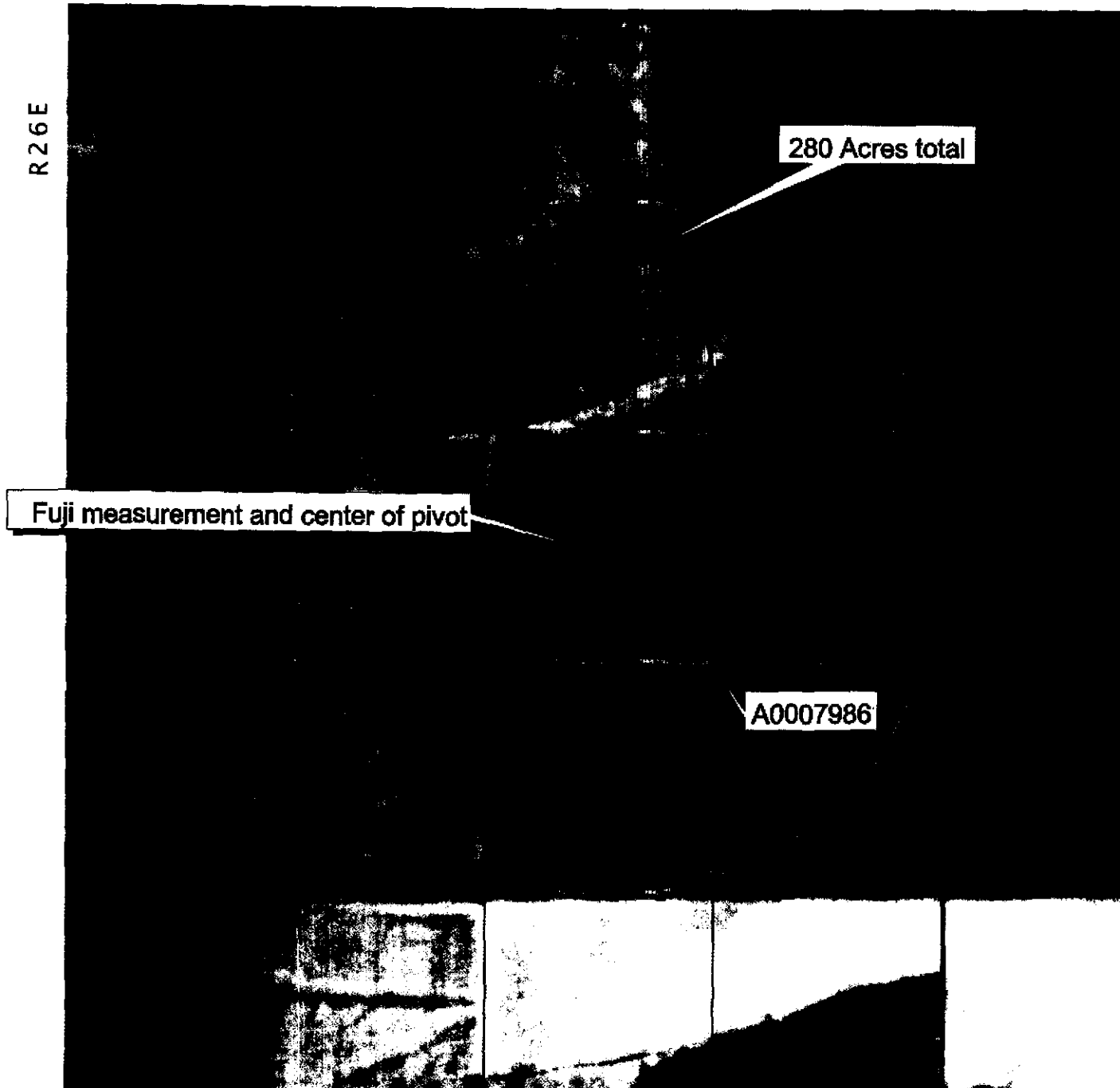
Idaho Department of Water Resource

Recommendation for 43-7319

Wheeler

T10S

R26E



● Point of Diversion

□ Quarter-quarter Lines

□ Section Lines

□ Place of Use

MICROFILMED N
FEB 25 2002

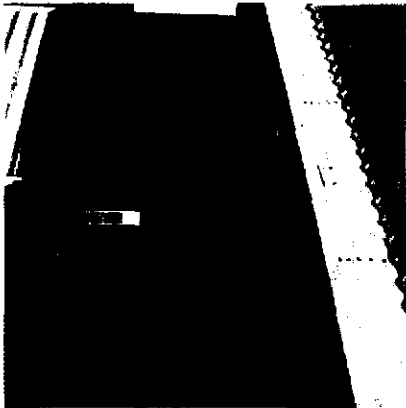


Point of Diversion
T10S R26E S27
Data entry on July 23, 2001

Point of Diversion Presentation
1987/1988 NAPP Photography
Data Entry By: Amanda Folsom



14 story pivot



GPS Tag #A0007986 on
outside of pump house

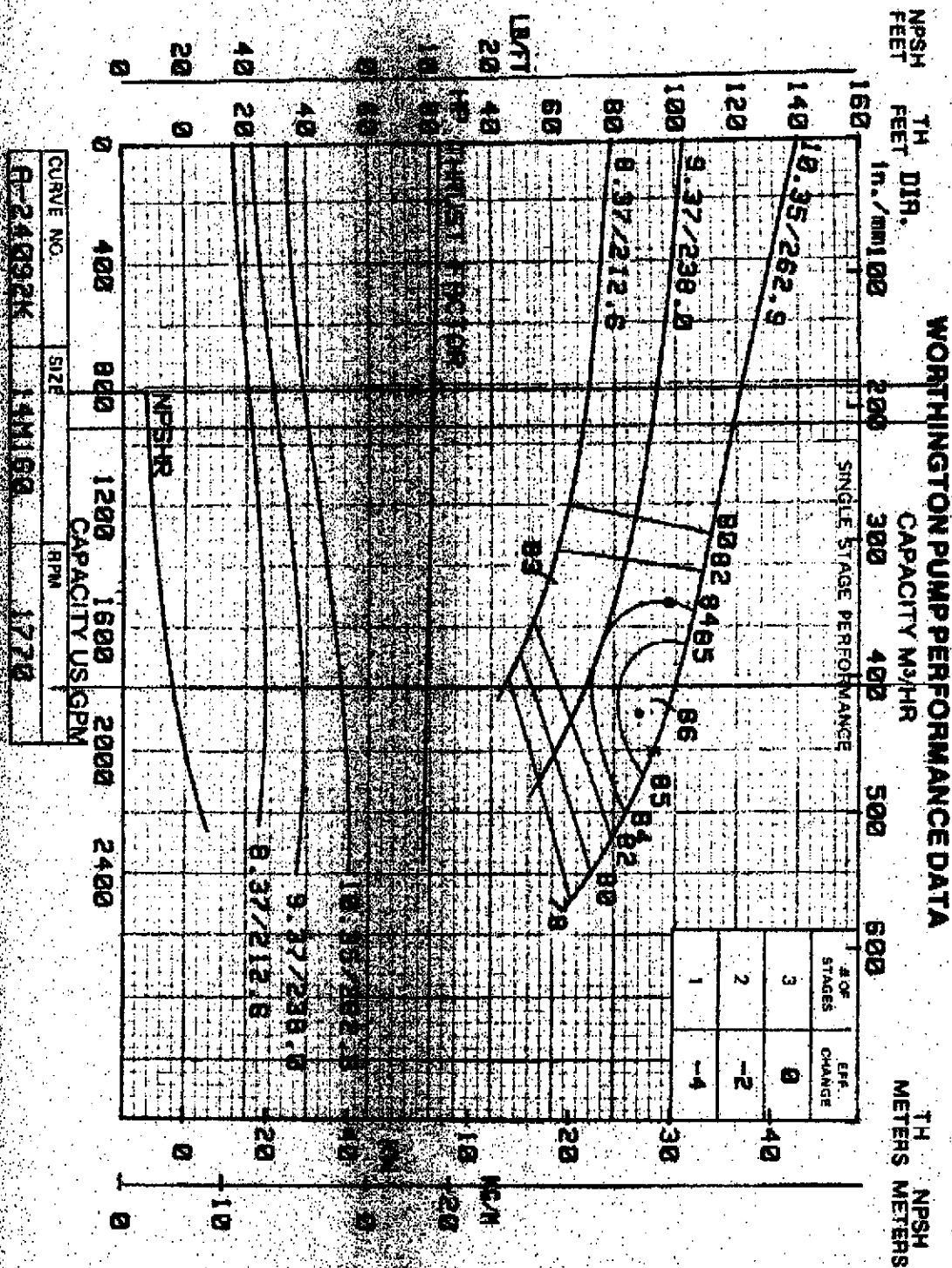


350hp US Motors

43-7319
Wheeler
July 2, 2001

MICROFILMED
FEB 25 2002

Director Philip Johnston, [redacted] [redacted]



of 1961

10/25/01

RECEIVED

JUL 13 2001

**Department of Water Resources
Southern Region**

Customer _____
Project _____
Cust. Proposal/Order No. _____
Certified By _____
Date _____
Liquid/Service _____ Sp. Gr. _____
Capacity _____ Head _____ Temp. _____
Efficiency _____ % SSU _____

2400-8 Page 67
June 1968
Superior
May 1968
14M105
1770 R114

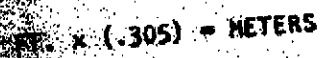
MICROFILMED

FEB 25 2002

Department of Water Resources
Southern Region

MODEL 6YB PUMP
SPEED - 1800 RPM
CLOSED IMPELLER
60 HERTZ

134-5



$\text{BPM} \times (.227) = \text{CUBIC METERS PER MINUTE}$

MICROFILMED

APR 25 2002

Performances shown are for close-coupled electric configuration with packing.
Other mounting styles may require horsepower and/or performance adjustments.

PAGE 04

IDAHO EQUIPMENT

07/03/2001 15:14 2082267774

Have conditions of permit approval been met? ☒ yes ☐ no

Lined area for narrative/remarks/comments.

MICROFILMED
FEB 25 2002

Additional Computation Sheets Attached

System Capacity

$$\frac{1800 \text{ gpm}}{448.83} = 4.01 \text{ cfs}$$

License 43-70200

→ 2.22cts

1.79¢

1. Volume Calculations for Irrigation:

$$V_{LR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 70(4) = 280$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{1.79(215)(1.9835)} = 763.3$$

$$V = \text{Smaller of } V_{I.B.} \text{ and } V_{D.B.} = 280$$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
Irrigation	4/1	10/31	1.79	280
Totals:			1.79	280

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

1. AUTHENTICATION

Field Examiner's Name

Date 4/24/01

Reviewer

Date _____

MICROFILMED

SEAL

FEB 25 2002

**ANALYSIS SHEET
FOR
PROOF OF BENEFICIAL USE**

Permit No. 43-07319 Reviewed by [Signature] Date 12-5-95

GENERAL CONSIDERATIONS

TYPES OF USE

yes Name same as permit?
yes Address same as permit?
yes Proof timely received? Correct Uses? yes
If not, complete calculation below.

SOURCE OF WATER

_____ Surface water source
✓ Ground water source
no Drilling permit required?
_____ Copy in the file? Drilling Permit No. _____
_____ Amount paid for permit _____ Correct?
_____ Well log in the file?

LICENSE EXAMINATION FEE

MEASURING DEVICE

yes Required?
150⁰⁰ Amount Submitted
yes Correct?
yes Required?
yes Installed?
_____ Waiver requested?

PRIORITY CALCULATION

Date proof received	_____	_____
Date proof due	_____	_____
No. of days late	_____	_____
Priority Date	_____	_____
New Priority Date	_____	_____

DEFICIENCIES OR ACTION ITEMS

Proof Acceptable

DATA ENTRY

New Address _____ Proof Made 11-22-95

December 5, 1995

DOROTHY WHEELER
PHILIP WHEELER
STAR RT BOX 77
DECLO ID 83323

PROOF ACKNOWLEDGMENT LETTER

RE: PERMIT NO. 43-07319

Dear Permit Holder:

The department acknowledges receipt of the proof of beneficial use form submitted for the above referenced permit. The next step in the process of developing a water right is for the department to conduct a field examination to determine and confirm the use being made of the water.

If you have questions concerning this matter, please feel free to contact the SOUTHERN Regional Office in Twin Falls at (208) 736-3033.

Sincerely,

JULIE L. YARBROUGH
Senior Secretary

c: IDWR - Region

MICROFILMED
DEC 11 1995

September 30, 1995

DOROTHY WHEELER
PHILIP WHEELER
STAR RT BOX 77
DECLO ID 83323

PROOF DUE NOTICE

RE: PERMIT NO. 43-07319

Dear Permit Holder:

One of the conditions of approval of the above referenced water permit was that proof of the extent of your beneficial use must be submitted to this office on or before December 1, 1995.

(See last page of your approved permit or your last approved extension request.) Enclosed is a form which when accompanied by the license examination fee or a complete field examination report prepared by a certified water right examiner may be used to submit the required proof.

If you have not fully completed your project, and you or a previous owner of this permit have not received a prior extension of time, you may request an extension of time if the delay is for reasonable cause as provided in Section 42-204, Idaho Code. If you have been prevented from proceeding by a governmental agency or by litigation which might bring title to the water in question, more than one extension of time can be granted. An extension of time request form is enclosed for your convenience.

Either an acceptable proof of beneficial use submittal or an acceptable request for an extension of time must be received by this department on or before the above described proof due date. If neither is received, the department will send you a lapse notice. Within sixty (60) days of the mailing of the lapse notice, the permit will no longer be of any force nor effect.

SINCERELY,

JULIE L. YARBROUGH
Senior Secretary

Enclosures

RECEIVED

DEC 11 1995

CERTIFIED MAIL

NO. 142330



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

December 20, 1993

DOROTHY WHEELER
PHILIP WHEELER
STAR RT BOX 77
DECLO ID 83323

PERMIT APPROVAL NOTICE

RE: PERMIT NO. 43-07319

Dear Permit Holder(s):

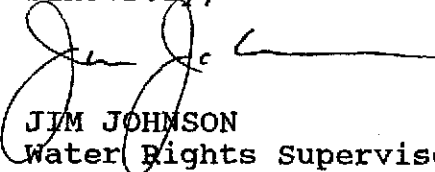
Enclosed is a copy of your approved application for permit. Please be sure to thoroughly review the "CONDITIONS/REMARKS:" listing on the permit.

As a permit owner you must commence the excavation or construction of the diverting works within one year of the date the permit was issued, and you must proceed diligently until the project is completed. The date shown under condition no. 1 is the date when the project must be completed. You will receive a "Proof Due Notice" from this Department approximately 60 days prior to the completion date requiring you to file either a Proof of Beneficial Use form stating that the project has been completed or file a Request for an Extension of Time in which to file the proof statement.

Be sure to note the special condition requiring you to install a measuring device. Enclosed, for your reference, is a list of measuring device options.

This permit authorizes the appropriation of trust water. Trust water is defined as that portion of a particular hydropower water right which exceeds certain minimum stream flows established by state action, and is held in trust by the State of Idaho for the use and benefit of the people within the state. Conditions pertaining to a term review, annual use fee and jurisdiction of the permit are trust water conditions.

Sincerely,


JIM JOHNSON
Water Rights Supervisor

JJ:dc

Enclosure

RECEIVED

JAN 11 1994

**APPLICATION FOR PERMIT
STATE OFFICE REVIEW**

Application #: 43-07319 Date: 11/23/93 Reviewer: Cindy Zimmerman

AREA OF CONCERN? - No/Yes E.S.R.P. Mor + Tw

SYSTEM COMPLETED:

No - 26A-P17

Complete in 1 year - P16

Yes

Proof not submitted - P16

Proof submitted - NA

GROUNDWATER:

+ 0.2 cfs <flo-ch> - 01G-P03 (new), 01C-P03 (existing), NMR

- 0.2 cfs - NMR <flow chart>

Drilling Permit:

Included w/permit - Permit No. _____, P99

Existing well - N/A (if drilled before 7/1/87)

No WD permit? - 046-46A<Irr>-46B-P23 (if drilled after 7/1/87)

SURFACE WATER: not in WD - 01C-P03 (+.2 w/pump), NMR <flow chart>

LOCATION:

Water District - WD No. 43A

Surface water - 005 (req) 01J-P08 <flow chart>

(doesn't sink) or 01H-P01 <flow chart>; NMR

Groundwater - P05 (if well has not been drilled)

In stream channel - 030 (stream channel alteration)

Irrigation Dist. - 023

Canal Co. Areas - 023

Drainage Districts - 024

Flood Control Dist. - 063

Boise Front (63) - 058 (Groundwater temperature)

Swan Falls Flag - 7 <See condition code chart>

Trust - 051-052-053-P74 (Consumptive Uses), NA

Non Trust <1> - 048-049 (Consumptive Uses), NA

RIVER BASINS (Surface): Water District Control Condition (005) &....

Boise (63) - 05A (req), 11E (non-domestic use), NA

Payette (65) - 064(consump. use), 047-P04(Payette Lake), NA

Snake (01, 02 & 03) - 11A-P04 (01), 061-P07 (02/03 No W.D.Cond.), NA

USE:

Fish Propagation - 010/06A/09E-P10(WQ) & 07A-042 (req)

044 (N 1000 Spr)

Irrigation - 803(if GW use SW 1st)(5A do POU comp.), NA

Power - 08A-17K-025-027 (req); 01F-P19; 09E-P10;

+25 cfs-P18; 17G(FERC) or 17M(FERC); 18B-P09

Mining - 06A/010/09E-P10 & 054 (req)

Storage(✓ 3 compo.) - 18A-for multi MD in WD, 18B-P09 (+10' dam), NA

Domestic (surface) - 021(Boise R + L Peak), 27A(Payette R), NA

OWNERSHIP:

Non land owner - 004 (P/D or P/U)

PROTESTED:

Prehearing agreement- 020

OTHER CONDITIONS: - 03A

REMARKS: -

BENEFICIAL USE DUE: - 12-1-1995

COMMENTS: - ① Mor Exempt ② Tw Review ③ Div Desc.

WR0749NP
No. 43-07319

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT
(REGIONAL)

DATE: 11/29/93
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	DOROTHY WHEELER	01/09/1992	IRRIGATION	04-01 10-31	2.03 CFS	
C	PHILIP WHEELER					
	STAR RT BOX 77					
	DECLD ID 83323					
	(208) 349-5579					
				TOTAL DIVERSION:	2.03 CFS	

Water Source: GROUNDWATER

Tributary to:

Stage: PERMIT

Point(s) of Diversion: T10S R26E S27 NE SE

Place of use Legal Description for: IRRIGATION

NE												NW				SW				SE					
T	R	S	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	SUM		
10S	26E	27					38		21					21		38			21		38	40	38	21	280.0
TOTAL ACRES																							280.0		

Pou County: CASSIA

Other Rights: 43-07020A

Other Water Rights with Same Point(s) of Diversion and Source:
43-07020A 43-07319 T43-07020D

Other Water Rights Listing Overlapping Place(s) of use:
43-07020A 43-07319 T43-07020C T43-07020D

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.
- 01C - A flow measurement port or other device as specified by the Department shall be installed by the right holder to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.
- 051 - Any license issued by IDWR pursuant to the right or portion thereof for the use of trust water is subject to a term review of 20 years after the date of this approval to determine availability of water for the use and to re-evaluate the public interest at the end of the term.
- 052 - Diversion and use of water under this right is subject to an annual use fee if rules are subsequently promulgated which provide for the submittal of the fee.
- 053 - The Director retains jurisdiction of this right and/or subsequent license issued to change, add or remove any requirement as determined to be appropriate.
- 803 - The right holder shall use the full allotment of his surface

IDAHO DEPARTMENT OF WATER RESOURCES
WATER RIGHT PROFILE REPORT
(REGIONAL)

Conditions of Approval:

- water right, to the extent it is available, in conjunction with
- groundwater diverted pursuant to this right.
- 03A - The rate of diversion of water for irrigation under this right
- and all other water rights on the same land shall not exceed 0.02
- cubic feet per second for each acre of land.

Dates: App. Received: 01/09/1992 Priority Date: 01/09/1992
Proof Due Date: 12/01/1995 Proof Made Date:
Exam Made Date: Exam Sent to S.O.:
Licensed Date:

Misc: Water District Number: 43A Field Exam Fee:

Comments: Date: 11/24/1993 User-ID: ZIMMERMA Subject: MORATORIUM EXEMPTION
This permit is located within the Eastern Snake River Plain
Moratorium boundary; however, its pre-1987 development is within
the acceptable parameters of the Moratorium guidelines.

Date: 11/24/1993 User-ID: ZIMMERMA Subject: TRUSTWATER REVIEW
This permit proposes to divers 2.03 cfs of trustwater from a
groundwater source to irrigate 280 acres located within S1/2NE,
SE1/4SW, E1/2SW, SE, S27, T10S, R26E. This application, in
conjunction with 43-07020A (2.22 cfs), will irrigate the same 280
acres by center pivot using a total of 4.25 cfs. The acres have
been irrigated since 1987 using a different type of delivery
system. This application satisfies 42-203A & C requirements.

Date: 11/24/1993 User-ID: ZIMMERMA Subject: DIVERSION DESCRIPTION
Existing 20" by 700' deep well with pump, booster, and 13-tower
center pivot.

Audit: 11/29/93 ZIMMERMA

IDAHO DEPARTMENT OF WATER RESOURCES
PLACE OF USE 1/4 1/4 COMPARISON REPORT
(REGIONAL)

(WATER RIGHT NUMBERS THAT BEGIN WITH AN '*' ARE ADJUDICATION CLAIMS)

WR-NUMBER	SOURCE	NE				NW				SW				SE				SUM
		Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	
P4307319	T10S R26E S27 GROUNDWATER																	
	:			38	21					21		38				21		276
4304010	GROUNDWATE :											09	40					49
4304011	GROUNDWATE :											31						65
A4304011	GROUNDWATE :											*40						85
4307020A	GROUNDWATE :													40		32	32	208
A4307020A	GROUNDWATE :													40		32	32	208
T4307020C	GROUNDWATE :													32		32	32	192
T4307020D	GROUNDWATE :				11									38		38	40	207
4307054	GROUNDWATE :											40	40					80
4307116	GROUNDWATE :							40	40			05						85
A4307116	GROUNDWATE :							40	40			05						85
4307319	GROUNDWATE :			38	21					21		38				21	38	276
A4310041	GROUNDWATE :																07	7
	C31Q-BB 81 :			02	01					05	04	38	39	39	37	38	40	320

MEMORANDUM

DATE: November 24, 1993
TO: File No. 43-07319
FROM: Cindy Zimmerman
SUBJECT: Trustwater Review

=====

This application proposes to divert 2.03 cfs of trustwater from groundwater to irrigate 280 acres located within S1/2NE, SENW, E1/2SW, SE, S27, T10S, R26E. This application, in conjunction with pending transfer #3979 on 43-07020A (2.22 cfs) will irrigate the same 280 acres by center pivot using a total of 4.25 cfs. These acres have been irrigated using a different type of system since 1987. This application satisfies 42-203A & C requirements.

RECEIVED
JAN 11 1994

MEMORANDUM

RECEIVED

AUG 23 1993

Department of Water Resources
Southern Region Office

TO: LOREN HOLMES/SOUTHERN REGION

FROM: PAM SKAGGS/^{cb}STATE OFFICE

RE: TRANSFER NO. 3979 & APPLICATION FOR PERMIT NO. 43-07319

DATE: AUG-19-1993

=====

I pulled Transfer No. 3979 for review, and found that both the transfer and Application for Permit No. 43-07319 are necessary to make the proposed project work. A check of the database shows the application has not been approved and the bar code indicates that it was returned to your office on 03-22-93.

Could you check on the status of this application. It appears from the evidence provided in the transfer file that the application could be approved. I have attached a copy of your memo and explanation for your reference, in case a copy was not placed in the application file.

I will withhold the transfer from action until 43-07319 can be processed. Please flag the application file to be routed to me, when approved. Thanks!

RECEIVED

JAN 11 1994

MEMORANDUM

DATE: 25-Sep-1992

FROM: Loren Holmes *LH*

TO: Files 43-7020A (T3979), 43-7319, Wheeler

SUBJECT: Region action on applications

The transfer proposes a change in part of license 43-7020A to enable installation of a new larger center pivot irrigation system to cover area previously covered with a smaller pivot and handlines. The new pivot will cover 280 acres. the portion of the license being transferred covers 210 acres, leaving a deficit of 70 acres to be added by application 43-7319.

The applicant's well has a capacity of 4.25 cfs. The part of the license transferred to this system is 2.22 cfs. The balance of 2.03 cfs is to be made up by application 43-7319.

The applicant has responded to a questionnaire about the status of the project under the Snake River Moratorium Order indicating that the lands have been irrigated with groundwater prior to 1987.

1976 aerial photography on the orthophotoquad shows the subject acreage undeveloped.

1986 satellite mapping data shows essentially no irrigated acres within the subject lands.

7/24/87 NAPP aerial photography shows a cropping pattern consistent with harvested grain on the extra lands. The pattern is the same on an undated ASCS aerial photo in the transfer file.

The aerial photo information supports a conclusion that the lands to be added under application 43-7319 were cropped prior to the moratorium order and may support a conclusion that they were irrigated.

The center pivot cannot selectively apply water to only lands with a valid water right. Issuance of a permit under application 43-7319 is necessary to to make the proposed project function.

Based on the applicant's questionnaire and the aerial photo information, application 43-7319 will be advertised by the region. Application for transfer 3979 will be held until the advertising is complete and both applications submitted for action together.

JAN 11 1994

MEMORANDUM

TO: Loren Holmes
FROM: Brenda Chapman *BC*
DATE: March 22, 1993
RE: Application 43-07319

=====

The above referenced application lists the groundwater source as existing prior to 1987; however, the application is for not only existing irrigated acres, but also for an additional 72 acres not covered under 43-07020A. Also, applications to increase the diversion rate by installing a booster pump cannot be approved.

See the attached copy of Gary Spackman's 7/9/92 letter to an applicant regarding the installation of a booster pump.

Thanks!

RECEIVED

JAN 11 1994



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000

Phone: (208) 327-7900 FAX: (208) 327-7866

CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

July 9, 1992

Avon Wilde
2995 E. 650 N.
Roberts, ID 83444

RE: Application for Permit to Appropriate Water No. 35-8990

Dear Mr. Wilde:

The Department of Water Resources has reviewed application for permit to appropriate water no. 35-08990 which you filed on March 10, 1992. The application seeks diversion of 2.25 cubic feet per second (cfs) for the irrigation of 389 acres. The application seeks to improve the water supply for lands presently irrigated by groundwater right no. 35-02761. The application also seeks to add approximately 69 acres alleged to have been irrigated previously.

Your application, as proposed, is not exempt from the Snake River Basin Moratorium. Although you allege that the entire 389 acres was irrigated previously, you also seek to enhance your groundwater supply by adding a booster pump. The increase in diversion rate and total water volume is prohibited by the moratorium.

The Department of Water Resources will hold your application indefinitely until the Director of the Department determines that there is sufficient water to again begin approving applications to appropriate water.

Sincerely,

GARY SPACKMAN, Manager
Water Right Permits Section

GS:js

cc: Eastern Region

JAN 11 1994

(WATER RIGHT NUMBERS THAT BEGIN WITH AN '*' ARE ADJUDICATION CLAIMS)

WR-NUMBER	SOURCE	NE				NW				SE				SW				SE				SUM			
		NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE								
		Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac	Lt	Ac						
4307319	T10S R26E S27 GROUNDWATER	38	21	:	:	:	:	:	:	21	:	38	21	:	:	:	:	21	:	38	40	38	21	:	276
4304010	GROUNDWATE	:	:	:	:	:	:	:	:	:	:	:	:	09	40	:	:	:	:	:	:	:	:	:	49
4304011	GROUNDWATE	:	:	:	:	:	:	:	:	34	:	:	:	31	:	:	:	:	:	:	:	:	:	:	65
A4304011	GROUNDWATE	:	:	:	:	:	:	:	:	40	:	:	:	*40	:	:	:	:	:	:	:	:	:	:	85
*4307020A	GROUNDWATE	:	:	:	:	:	:	:	:	:	:	:	40	:	:	:	:	40	:	32	32	32	32	:	208
A4307020A	GROUNDWATE	:	:	:	:	:	:	:	:	:	:	:	40	:	:	:	:	40	:	32	32	32	32	:	208
T4307020C	GROUNDWATE	:	:	:	:	:	:	:	:	:	:	:	32	:	32	32	32	32	32	32	32	32	32	:	192
T4307020D	GROUNDWATE	:	:	:	:	:	:	:	:	:	:	:	11	:	38	21	21	21	38	40	38	21	:	207	
4307054	GROUNDWATE	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	40	40	:	:	:	:	:	80
4307116	GROUNDWATE	:	:	:	:	:	:	:	:	40	40	:	:	:	:	:	:	05	:	:	:	:	:	:	85
A4307116	GROUNDWATE	:	:	:	:	:	:	:	:	40	40	:	:	:	:	:	:	05	:	:	:	:	:	:	85
A4310041	GROUNDWATE	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	07	:	:	:	7

1/9/92

STATE OF IDAHO *Wheeler, Phillip for Dorothy*
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT ANALYSIS SHEET

INITIAL REVIEW BY MTS DATE 7-2, 1992
APPLICATION NO. 43-07319

REQUIRED INFORMATION

- ☒ Name (If applicant is a corporation or partnership, names must be provided for the director, officers, & other partners.)
 - ☒ Address
 - ☒ Source (see USGS quad for names of water sources)
 - ☒ Point of diversion (10 Acres for spring, lot & block descriptions for subdivisions, local name, flow &/or volume.)
 - ☒ County
 - ☒ Quantity (flow &/or volume)
 - ☒ Period of use
 - ☒ Nature of proposed use (include description of use)
 - ☒ Description of diverting works.
 - ☒ Time required for beneficial use of water.
 - ☒ Place of use or acres irrigated.
 - ☒ Map
 - ☒ Signature (If applicant is corp., partnership, or municipality, title of signator is required)
 - ☒ Fee
 - ☒ Yes ☐ No* In form to receipt
- ++++PROPOSED PRIORITY DATE
1-9- 1992

ADDITIONAL INFORMATION

- ☒ Overlapping place of use(Describe source & relationship to present application on the back.
- ☒ Overlapping point of diversion.
- ☐ Yes ☒ No Field check required
- ☐ Yes ☒ No Field check by _____
- ☐ Yes ☒ No Field report attached
- ☐ Yes ☒ No Critical Ground water area
- ☐ Yes ☒ No Groundwater management area
- ☐ Yes ☒ No Send Dam safety information
- ☐ Yes ☒ No Send power requirement letter
- ☐ Yes ☒ No Send fish farm requirement letter
- ☐ Yes ☒ No Power residency affidavit.
- ☐ Yes ☒ No Power efficiency form
- ☒ Yes ☐ No Within trustwater boundary(If yes, attach trustwater supplementary analysis sheet.
- ☐ Yes ☒ No Diversion greater than 5 cfs or 500 acre ft. (If yes, attach large diversion supplementary analysis sheet.
- ☒ See reverse side for additional information.

* REQUEST THE FOLLOWING ADDITIONAL INFORMATION FROM THE APPLICANT:

Date Requested 1-9, 1992
RECEIVED
MAR 12 1993
Department of Water Resources

PROCESSING ☒ Yes ☐ No
☐ Yes ☒ No
☒ Yes ☐ No

In form for Advertising
No Statewide Advertising
Fee amount, receipt date & No. recorded on app

SEND COPIES TO: ☐ Idaho Dept of Health & Welfare ☐ USDI BLM
☐ Idaho Dept of Fish & Game ☐ USFS
☐ Idaho Dept of Lands ☐ Water Dist.
☐ Adjudication Bureau Unit ☐ Other _____

FINAL REGIONAL PROCESSING REVIEW

☒ Yes ☐ No Affidavit of publication received.
☒ Yes ☐ No Application published correctly. If not, record action taken.

☒ Yes ☐ No Publication dates and paper, recorded on App.
☐ Yes ☐ No Protests received
Final date for Protest 11/2/92
☐ Yes ☒ No Protests, dates, resolution of protest, recorded on app.
☐ Yes ☒ No Recommendations attached
☐ Yes ☒ No Measuring device required
☒ Yes ☐ No Access port required
☐ Yes ☒ No Will water be delivered by watermaster? If yes, what dist. _____
☒ Yes ☐ No Special conditions of approval or cover letter below. _____

DIG, 26A

See below for additional information

Date of priority recommended 1/9, 1992
By James D. Halpern Date 3/5, 1993

STATE OFFICE REVIEW

See below for additional information

By _____ Date _____, 19 ____

ADDITIONAL INFORMATION:

LOCAL PUBLIC INTEREST

Comments recieved from:

_____ City	_____ Idaho Fish & Game	_____ Irrigation Dist.
_____ County	_____ Idaho Health & welfare	_____ Canal Company
_____ Reservations	_____ Div. of Enviromental Quality	_____ Other _____

PROJECT IMPACTS/IMPLICATIONS REPORT

COMMENTS:

DATE _____, 19____

This permit is an expansion of the current use under
43-7020 A and subject to a pending transfer

SOUTH IDAHO PRESS

BURLEY, IDAHO

AFFIDAVIT OF PUBLICATION

RECEIVED

OCT 28 1992

Department of Water Resources
Southern Region Office

County of Cassia, }
STATE OF IDAHO } ss.

Charlee Still being first
duly sworn, deposes and says that She
is the Clerk of the South
Idaho Press, a daily newspaper published
at Burley, Idaho, in the county aforesaid
and that the paper is of general circulation
therein. Deponent further states that the
printed notice attached hereto was duly
published according to law in the regular
editions of The South Idaho Press for two
consecutive weeks, commencing with the
issue dated Oct 16 1992, and
ending with the issue dated Oct 23,
1992. Charlee Still

STATE OF IDAHO
COUNTY OF Cassia }

On this 26 day of Oct in the year of 1992, before me,
a Notary Public, personally appeared Charlee Still,
known or identified to me to be the person whose name subscribed to the
within instrument, and being by me first duly sworn, declared that the
statements therein are true, and acknowledged to me that he executed
the same.

Kelly Solomon
Notary Public for Idaho

Residing at Burley, Idaho

My commission expires: May 23, 1997

Cost of Publication: 44.28
Notary Fee: .50
Total Cost: 44.78

JAN 11 1994

OK
MB
10/28/92

LEGAL NOTICES

92-341

NOTICE OF APPLICATION FOR TRUST WATER RIGHT

43-07319

Philip &/or Dorothy Wheeler
Star Rt Box 77
Declo, ID 83323

Source: groundwater

Diversion Pt: NE1/4SE1/4, S27,
T10S, R26E; Cassia County.

Use: irrigation (2.03 cfs)
from 4/1 to 10/31

Date Filed: 1/9/92

In: 280 acres located within
S1/2NE1/4, SE1/4NW1/4,
E1/2SW1/4, SE1/4, S27, T10S,
R26E; Cassia County.

The permit (s) will be subject
to all prior water rights.
Protests may be submitted based
on the criteria of Sec.
42-203A, Idaho Code and/or the
new public interest criteria of
Sec. 42-203C, Idaho Code.
Protests must be filed with the
Director, Dept. of Water
Resources, Southern Region, 222
Shoshone Street East, Twin
Falls, ID 83301 on or before
November 2, 1992.

R. Keith Higginson

Published in South Idaho Press
on 10/16 & 10/23/92

NOTICE OF APPLICATION FOR TRUST
WATER RIGHT

43-07319

Philip &/or Dorothy Wheeler
Star Rt Box 77
Declo, ID 83323

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Shoshone Street East, Twin
Falls, ID 83301 on or before
November 2, 1992.

R. Keith Higginson

Published in South Idaho Press
on 10/16 & 10/23/92

RECORDED

JAN 11 1994

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Southern Region
222 Shoshone Street East
Twin Falls, ID 83301
(208)736-3033

SEPTEMBER 28, 1992

SOUTH IDAHO PRESS
PO BOX 190
BURLEY, ID 83318

Gentlemen:

Enclosed you will find a legal notice which we wish to have published on the dates indicated (once a week for two consecutive weekly issues) in your newspaper. If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Your cooperation is appreciated.

Please send the affidavit of publication and publication billing to this office before NOVEMBER 2, 1992.

Yours truly,

Mary Baldwin
Secretary/Office Coordinator

Enclosure

Camera ready

MICROFILMED

JAN 11 1994

NOTICE OF APPLICATION FOR TRUST WATER RIGHT

43-07319

Philip &/or Dorothy Wheeler
Star Rt Box 77
Declo, ID 83323

Source: groundwater

Diversion Pt: NE1/4SE1/4, S27, T10S, R26E; Cassia County.

Use: irrigation (2.03 cfs) from 4/1 to 10/31

Date Filed: 1/9/92

In: 280 acres located within S1/2NE1/4, SE1/4NW1/4,
E1/2SW1/4, SE1/4, S27, T10S, R26E; Cassia County.

The permit (s) will be subject to all prior water rights.
Protests may be submitted based on the criteria of Sec.
42-203A, Idaho Code and/or the new public interest criteria
of Sec. 42-203C, Idaho Code. Protests must be filed with the
Director, Dept. of Water Resources, Southern Region, 222
Shoshone Street East, Twin Falls, ID 83301 on or before
November 2, 1992.

R. Keith Higginson

Published in South Idaho Press on 10/16 & 10/23/92

RECORDED

JAN 11 1994



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 736-3033

28-Sep-1992

CECIL D. ANDRUS
Governor

R. KEITH HIGGINSON
Director

PHILIP &/OR DOROTHY WHEELER
STAR RT BOX 77
DECLO ID 83323

Re: Application for Permit No. 43-07319

Dear Applicant (s):

Due to the connection between the above referenced application and Application for Transfer No. 3979, this office will be advertising Application for Permit No. 43-07319 in the South Idaho Press on 10/16 & 10/23/92. A period of ten days following the second publication will be allowed for the submittal of protests.

If the application is protested you will be sent a copy of the protest. The protest must be resolved before the application is approved or denied. If the protest is not resolved voluntarily, this Department will conduct a conference and/or hearing on the matter.

Please be advised that Application for Transfer No. 3979 will be held until the advertising on Application for Permit No. 43-07319 is complete to enable both applications to be submitted for final action together.

Please feel free to contact this office if you have any questions regarding this procedure.

Very truly yours,

Mel Schulte
Water Right Agent

MS:MB

RECEIVED

JAN 11 1994

MEMORANDUM

DATE: 25-Sep-1992

FROM: Loren Holmes *LH*

TO: Files 43-7020A (T3979), 43-7319, Wheeler

SUBJECT: Region action on applications

The transfer proposes a change in part of license 43-7020A to enable installation of a new larger center pivot irrigation system to cover area previously covered with a smaller pivot and handlines. The new pivot will cover 280 acres. the portion of the license being transferred covers 210 acres, leaving a deficit of 70 acres to be added by application 43-7319.

The applicant's well has a capacity of 4.25 cfs. The part of the license transferred to this system is 2.22 cfs. The balance of 2.03 cfs is to be made up by application 43-7319.

The applicant has responded to a questionnaire about the status of the project under the Snake River Moratorium Order indicating that the lands have been irrigated with groundwater prior to 1987.

1976 aerial photography on the orthophotoquad shows the subject acreage undeveloped.

1986 satellite mapping data shows essentially no irrigated acres within the subject lands.

7/24/87 NAPP aerial photography shows a cropping pattern consistent with harvested grain on the extra lands. The pattern is the same on an undated ASCS aerial photo in the transfer file.

The aerial photo information supports a conclusion that the lands to be added under application 43-7319 were cropped prior to the moratorium order and may support a conclusion that they were irrigated.

The center pivot cannot selectively apply water to only lands with a valid water right. Issuance of a permit under application 43-7319 is necessary to to make the proposed project function.

Based on the applicant's questionnaire and the aerial photo information, application 43-7319 will be advertised by the region. Application for transfer 3979 will be held until the advertising is complete and both applications submitted for action together.

[Stamp]
JAN 11 1994

RECEIVED

AUG 28 1992

Application # 43-07319

Department of Water Resources
Southern Region Office

MORATORIUM EXEMPTION QUESTIONNAIRE

IF YOUR APPLICATION PROPOSES AN IRRIGATION USE, PLEASE COMPLETE AND RETURN THE FOLLOWING:

- Has ALL the land you propose to irrigate been irrigated with surface water in the past?
None - has been watered with ground water.
- Do you summer fallow any of your irrigated land? If so, how many acres? *No*
- List the water right(s) you have used to irrigate the land listed on the application. If you have received water from a canal company or water district, please identify the name of canal or water district.
#43-7020A
- During the last ten years, how many years has your surface irrigation water been available for the entire irrigation season? *Not applicable.*
- What crops have you grown in the past ten years?
beets, potatoes, alfalfa, wheat & barley

I understand if my proposed diversion of groundwater is approved as a supplemental use, that I can only use my well during periods of drought, when a full supply of water is not available. I also agree that my surface water will be fully used to the extent available, will not be sold or used on other lands, and that a change in use of my surface water may result in revocation of any groundwater right granted pursuant to my application for supplemental water.

Dated this 26 day of August, 1992.

(Please sign)

Philip J Wheeler

Surface water source is ground water with existing use prior to 1987.

JAN 11 1994

43-07319



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 736-3033

CECIL D. ANDRUS
Governor

10-Aug-1992

R. KEITH HIGGINSON
Director

PHILIP &/OR DOROTHY WHEELER
STAR RT BOX 77
DECLO ID 83323

Re: Application for Permit No. 43-07319

Dear Applicant(s):

The Department of Water Resources acknowledges receipt of your water right application for permit. The application has been assigned the above referenced identification number. Please refer to this number in all further correspondence.

Please be advised that your application is subject to a moratorium on processing new applications which has been imposed due to drought conditions and may be held in this office without further processing until the Moratorium is lifted. At this time we are unable to give a date for further review of this application.

However, your application may be exempt from the moratorium if it meets one of the following criteria:

-Drought relief-to replace existing surface water supply for a limited time.

-Application represents existing development which occurred prior to November 19, 1987.

Permits granted for drought relief purposes will be limited to the extent of the existing valid surface water rights and will be issued for one (1) irrigation season.

Please complete and return the enclosed questionnaire regarding the proposed project to aid in reviewing your application.

From the information contained in your file, it is not possible to determine whether any of these exemptions apply. If you wish to proceed with your

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JAN 11 1994

Philip &/or Dorothy Wheeler
Page 2
10-Aug-1992

application at this time you must provide additional information about the proposed project. The attached questionnaire is intended to aid in reviewing your application.

If you have any questions or if this office can be of further assistance, please feel free to contact us.

Very truly yours,

Mel Schulte
Water Right Agent

MS:MB

RECEIVED

JAN 11 1994

CHECKLIST FOR APPLICATION ACKNOWLEDGEMENT LETTER

Please check each specialized paragraph to INCLUDE

>

>

Re: Application for Permit No. >

Dear >:

The Department of Water Resources acknowledges receipt of your water right application for permit. The application has been assigned the above referenced identification number. Please refer to this number in all further correspondence.

X >1) Please be advised that your application is subject to a moratorium on processing new applications which has been imposed due to drought conditions and may be held in this office without further processing until the Moratorium is lifted. At this time we are unable to give a date for further review of this application.

X >2) However, your application may be exempt from the moratorium if it meets one of the following criteria:

-Drought relief-to replace existing surface water supply for a limited time.

-Application represents existing development which occurred prior to November 19, 1987.

Permits granted for drought relief purposes will be limited to the extent of the existing valid surface water rights and will be issued for one (1) irrigation season.

Please complete and return the enclosed questionnaire regarding the proposed project to aid in reviewing your application.

X >3) From the information contained in your file, it is not possible to determine whether any of these exemptions apply. If you wish to proceed with your application at this time you must provide additional information about the proposed project. The attached questionnaire is intended to aid in reviewing your application.

>4) We acknowledge receipt of the Snake River Moratorium Questionnaire which you have submitted regarding the above referenced application. It will be reviewed to determine if your application qualifies for a moratorium exemption.

If you have any questions or if this office can be of further assistance, please feel free to contact us.

43-07319

Existing use -
not subject to
Moratorium

Hold for
answer -
JH

Donat & Associates, Inc.

Energy Consultants

RALPH DONAT
President
(208) 773-4260

N. 3850 McGuire Rd., Post Falls, ID. 83854

RON STRAW
Vice President
(208) 773-2702

RECEIVED

RRE-027-86

November 25, 1986

AUG 3 1992

Department of Water Resources
Sawtooth Region Office

Dear Mr. Wheeler:

On July 7, 1986, an evaluation was made of your irrigation system to determine if any recommendations could be implemented that would reduce your electrical energy use.

Your pump is an Aurora Model 1205H. ^{= 4.25 CFS} From the pump test data, your pump was pumping 1906.1 gpm at 303.7 feet of head and was 62.2% efficient. See page 17

With the valve partially closed (normally operated), your pump is pumping 1171.7 gpm at 432.1 feet of head and was 62.8% efficient. For the most efficient operation, your pump should be operated with the valve "wide open".

Based upon the evaluation of your irrigation system, the following efficiency measures are eligible for an incentive payment:

1) Pumping plant modification

This incentive consists of a payment of 50 percent of the actual cost of the installed measures, not to exceed 22 cents per annual kilowatthours (kWh) saved based on tested horsepower reduction. Horsepower will be measured after installation of eligible measures.

The estimated energy savings, if all measures are installed, are 99536 kWh per year. The actual savings may be higher or lower and will depend upon final system design. Based upon this utility's current rate structure, the estimated energy savings should result in an annual reduction of \$1990.72 in pumping costs, providing irrigation practices and acreage served do not change substantially.

If you desire to apply for an incentive payment, you must contact Raft River Rural Electric Co-op., Inc., 645-2211, prior to proceeding with the installation of the measures.

If you have any questions, please contact either Jerry Udy or me.

Sincerely,

Ron Straw

Ron Straw

MAILED

JAN 11 1987

INITIAL PUMP TEST FORM
DISCHARGE SET-UP, PUMP 1

Page 4

Inspection Number: RRE-027A-86

EXISTING DISCHARGE SET-UP SKETCH: - Both centrifugal and turbine pumps.
(Sketch the discharge set-up with dimensions and description of fittings,
pipe sizes between the pump discharge and flow meter/pressure gage.) The
gage elevation, gage centerline to pipe centerline, must be shown.
Attach a picture to this page.

EXISTING DISCHARGE SET-UP DESCRIPTIONS:

H. FRICTION LOSS

1. FLOW: (G1, page 3)

1906.1 gpm

Pipe & Fittings Description	Inside Diameter (inches)	Pipe & Nipple		Fittings		Velocity Head (feet)	Friction Loss (feet)
		Length (feet)	C	K	Velocity (fps)		
<u>PIPE</u>	<u>10.25</u>	<u>4.3</u>	<u>100</u>	<u>0.00</u>	<u>7.40</u>	<u>0.85</u>	<u>0.13</u>
Entrance Loss*							

2. TOTAL FRICTION LOSSES (Total pipe, nipple and fitting losses.) 0.13 ft.

* Use K=0.5 unless known.

Determination of friction loss in the existing discharge set-up is not required,
for manual calculations, unless the inspector suspects excessive friction.

JAN 11 1994

INITIAL PUMP TEST FORM

Page 6

TOTAL HEAD Cont'd, PUMP 1Inspection Number: RRE-027A-86J. TURBINE PUMPS: SUBMERSIBLE AND LINESHAFT

1. Total Head

- | | |
|---|------------------|
| a. Gage Reading: (E5, pg 2) | |
| pressure gage (<u>1.0</u> psi X 2.31=) OR | |
| vacuum gage (<u> </u> in Hg x 1.135) <u>2.3</u> ft. | |
| b. Pumping Water Level | |
| (F2, pg 2) | <u>289.0</u> ft. |
| c. Discharge Head | |
| Friction | <u>0.7</u> ft. |
| d. Column friction | <u>10.8</u> ft. |
| e. Velocity head | |
| (at gage, pg 4) | <u>0.9</u> ft. |
| f. Intake pressure | |
| (psi x 2.31) | <u>- 0.0</u> ft. |
| g. TOTAL HEAD | |
| (sum a thru f) | <u>303.7</u> ft. |

K. COMMENTS

MISCELLANEOUS

JAN 11 1994

CALCULATIONS, PUMP 1Inspection Number: RRE-027A-86L. INPUT POWER

1. Electrical

a. Meter Data

$$\begin{aligned}
 \text{kWe} &= (3.6 \times \text{REV} \times \text{Km} \times \text{CTR} \times \text{PTR}) / \text{SEC} \\
 &= (3.6 \times (\text{D1, pg 2}) \times (\text{D2}) \times (\text{D3}) \times (\text{D4})) / \text{SEC} \\
 &= (3.6 \times \underline{5.0} \times \underline{4.8} \times \underline{80.0} \times \underline{1.0}) / \underline{39.9} \\
 &= \underline{173.5 \text{ kWe}}
 \end{aligned}$$

***** OR *****

b. Multimeter Data (Use this section when multiple pumps on 1 meter.)

$$\begin{aligned}
 \text{kWe} &= \text{avg Volts} \times \text{avg Amps} \times \text{avg pf} \times 1.732 / 1000 \\
 &= (\text{D6, pg 2}) \times (\text{D7}) \times (\text{D8}) \times 1.732 / 1000 \\
 &= \underline{485.7} \times \underline{216.0} \times \underline{0.9650} \times 1.732 / 1000 \\
 &= \underline{175.3 \text{ kWe}}
 \end{aligned}$$

2. Electric Horsepower

$$\begin{aligned}
 \text{hpe} &= \text{kWe} / 0.746 \\
 &= (\text{L1a or L1b}) / 0.746 \\
 &= \underline{175.3} / 0.746 = \underline{235.0 \text{ hpe}}
 \end{aligned}$$

M. OUTPUT POWER

1. Water Horsepower

$$\begin{aligned}
 \text{a. Flow} &= (\text{G1, page 3}) \quad \underline{1906.1 \text{ gpm}} \\
 \text{b. Total Head} &= (\text{I4c, pg 5 or J1h, pg 6}) \quad \underline{303.7 \text{ ft.}} \\
 \text{c. whpe} &= \text{Flow} \times \text{TH} / 3960 \\
 &= (\text{M1a}) \times (\text{M1b}) / 3960 \\
 &= \underline{1906.1} \times \underline{303.7} / 3960 = \underline{146.2 \text{ whpe}}
 \end{aligned}$$

N. PUMPING PLANT EFFICIENCY

$$\begin{aligned}
 \text{1. Plant Efficiency} &= (\text{whpe} / \text{hpe}) \times 100 \\
 &= (\text{M1c} / \text{L2}) \times 100 \\
 &= \underline{146.2} / \underline{235.0} \times 100 = \underline{62.2\%}
 \end{aligned}$$

JAN 11 1994

Inspection Number: RRE-027A-86

NOTE!! These procedures are not sufficient to fully analyse systems with parallel pipe or pump networks.

C. MAINLINE CALCULATION PROCEDURES

1. Calculate the velocity in each mainline section with laterals positioned for maximum head conditions.
2. Calculate friction loss in each mainline section.
3. Resize (or size for parallel pipeline) all mainline sections with a velocity greater than 7 fps to reduce velocity to less than 5 fps, (nearest 0.1 fps).
4. Calculate the effect these changes will have on total head.
5. If the irrigator decides to retrofit and reduce flow, these evaluations must be redone to determine eligibility.

Sec- tion	Length (ft)	Inside Diameter (in)	C* Value	Flow (gpm)	Velocity (fps)	Hf/100 (ft)	Friction (ft)	Tot. Head Reduction (ft)
1. Current	15	10.25	100	1906	7.4	3.0	0.45	
Retrofit	15	14.00	150	1906	4.0	0.3	0.05	0.40
2. Current	0	0.00	0	0	0.0	0.0	0.00	
Retrofit	0	0.00	0	0	0.0	0.0	0.00	0.00
3. Current	0	0.00	0	0	0.0	0.0	0.00	
Retrofit	0	0.00	0	0	0.0	0.0	0.00	0.00
4. Current	0	0.00	0	0	0.0	0.0	0.00	
Retrofit	0	0.00	0	0	0.0	0.0	0.00	0.00
5. Current	0	0.00	0	0	0.0	0.0	0.00	
Retrofit	0	0.00	0	0	0.0	0.0	0.00	0.00
6. Current	0	0.00	0	0	0.0	0.0	0.00	
Retrofit	0	0.00	0	0	0.0	0.0	0.00	0.00
7. Current	0	0.00	0	0	0.0	0.0	0.00	
Retrofit	0	0.00	0	0	0.0	0.0	0.00	0.00
8. Current	0	0.00	0	0	0.0	0.0	0.00	
Retrofit	0	0.00	0	0	0.0	0.0	0.00	0.00
9. Current	0	0.00	0	0	0.0	0.0	0.00	
Retrofit	0	0.00	0	0	0.0	0.0	0.00	0.00
10. Current	0	0.00	0	0	0.0	0.0	0.00	
Retrofit	0	0.00	0	0	0.0	0.0	0.00	0.00

1. POTENTIAL TOTAL HEAD REDUCTION (sum sections 1 thru 10)

0.40

- * Steel: C = 100
- * Aluminum: C = 120
- * PVC: C = 150

$$H_f / (100 \text{ ft}) = 1054 \times \frac{(gpm)^{1.852}}{(C)^{1.852}}$$

JAN 11 1994

Inspection Number: RRE-027A-86A. SUMMARYIDH SAVINGS

- | | |
|--|----------------|
| 1. Retrofit high-energy-loss mainline (C1, pg 11) | <u>0.40 ft</u> |
| 2. Low pressure or reduced pressure sprinklers
(K3, pg 14 or P3, pg 15) | <u>0.0 ft</u> |
| 3. SYSTEM TOTAL HEAD SAVINGS (A1 + A2) | <u>0.4 ft</u> |

B. FINAL PUMP CONDITIONS

- | | |
|---|------------------|
| 1. Final total head (I4c, pg 5 or J1h, pg 6 minus A3) | <u>303.29 ft</u> |
| 2. Estimated pumping plant efficiency after modification or
replacement. (Obtain from achievable pumping plant
efficiency table.) | <u>71.00 %</u> |

C. PUMPING PLANT COMPARISONS

	1. Existing	2. Proposed
a. Flow	<u>1906.1 gpm</u>	<u>1906.1 gpm</u>
b. Total Head	<u>303.69 ft</u>	<u>303.29 ft</u>
c. Pumping Plant Efficiency	<u>62.87 %</u>	<u>71.00 %</u>
d. Input Power	<u>173.45 kW</u>	<u>153.39 kW</u>

D. DETERMINE ADJUSTMENT RATIOS

1. Total Head =
$$\frac{\text{Existing Total Head} - \text{Proposed Total Head}}{\text{Existing Total Head}}$$
- $$= \frac{303.69 \text{ ft} - 303.29 \text{ ft}}{303.69} = 0.0013$$
2. Flow =
$$\frac{\text{Existing Flow} - \text{Proposed Flow}}{\text{Existing Flow}}$$
- $$= \frac{1906.1 \text{ gpm} - 1906.1 \text{ gpm}}{1906.1} = 0.0000$$
3. Efficiency =
$$\frac{\text{Proposed Efficiency} - \text{Existing Efficiency}}{\text{Proposed Efficiency}}$$
- $$= \frac{71.00 - 62.87}{71.00} = 0.1145$$
4. TOTAL ADJUSTMENT (D1 + D2 + D3) 0.1158

RECORDED
JAN 11 1994

INITIAL PUMP TEST FORM

Page 2

Date: 7-07-86Inspection Number: RRE-027-86

A. PUMP NUMBER: 1 Use: Main
(Pages 2 - 7 must be filled out for each pump.)

B. NAMEPLATE MOTOR DATA

1. Make: U.S. MOTORS
2. Frame No.: 1505PH
3. Rated hp: 250
4. Rated Voltage: 460
5. Rated Amperage: 287/175
6. rpm: 1775
7. Meter No.: 4044

C. PUMP DATA

1. Make: AURORA
2. Type: TURBINE
3. Model No.: 120SH
4. Serial No.: 37771544
5. rpm: 1770
6. Number of Stages: 6BIRK
7. Impeller Diameter: _____ in.
8. Column Diameter: _____ in.
9. Shaft Diameter: _____ in.
10. Lubrication: OIL
11. Column Length: _____ ft.
12. Rated Head: 330 ft.
13. Rated Flow: _____ gpm

D. POWER INPUT DATA

1. Disc Revolutions: 5
2. Meter Constant (K_m): 4.8
3. CTR* 80
4. PTR* 1
5. Time: 45.39 sec

OR Multiplier: * 80

6. Line Volts: 1-2 486.00, 1-3 487.00, 2-3 486.00; avg Volts 486.33
7. Amperage: 1 187.50, 2 189.70, 3 182.90; avg Amps 186.70
8. Power Factor: 1 0.9600, 2 0.9690, 3 0.9680; avg pf 0.9660

E. FLOW AND PRESSURE DATA

1. Measurement Device: HALL
2. Inside Pipe Diameter: 10.25 inches; How Determined: MEASURED
3. Pipe Material: Steel
4. Device Reading: 14.2, _____, _____
5. Pressure: 60 psi; _____ in hg

F. PUMPING WATER LEVEL

1. Centrifugal:

N/A

2. Turbine:

(Pumping water level
to gage centerline.) 289.0 ft.

Disch. Head Friction 0.3 ft.
Column Friction 3.9 ft.
Intake Pressure 0.0 psi

* Identify the CTR and PTR if shown. Otherwise fill in the blank for 'multiplier' and put N/A by CTR and PTR. If CTR x PTR does not equal the multiplier, write down all three figures and scratch out the wrong one when it has been determined which is correct. These items should be provided by the utility prior to the initial pump test.

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INITIAL PUMP TEST FORM

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TOTAL HEAD Cont'd, PUMP 1Inspection Number: RRE-027-86J. TURBINE PUMPS: SUBMERSIBLE AND LINESHAFT

1. Total Head

- a. Gage Reading: (E5, pg 2)
pressure gage (60.0 psi X 2.31 =) OR
vacuum gage (in Hg x 1.135) 138.6 ft.
- b. Pumping Water Level
(F2, pg 2) 289.0 ft.
- c. Discharge Head
Friction 0.3 ft.
- d. Column friction 3.9 ft.
- e. Velocity head
(at gage, pg 4) 0.3 ft.
- f. Intake pressure
(psi x 2.31) - 0.0 ft.
- g. TOTAL HEAD
(sum a thru f) 432.1 ft.

K. COMMENTS

MICROFILMED

JAN 11 1994