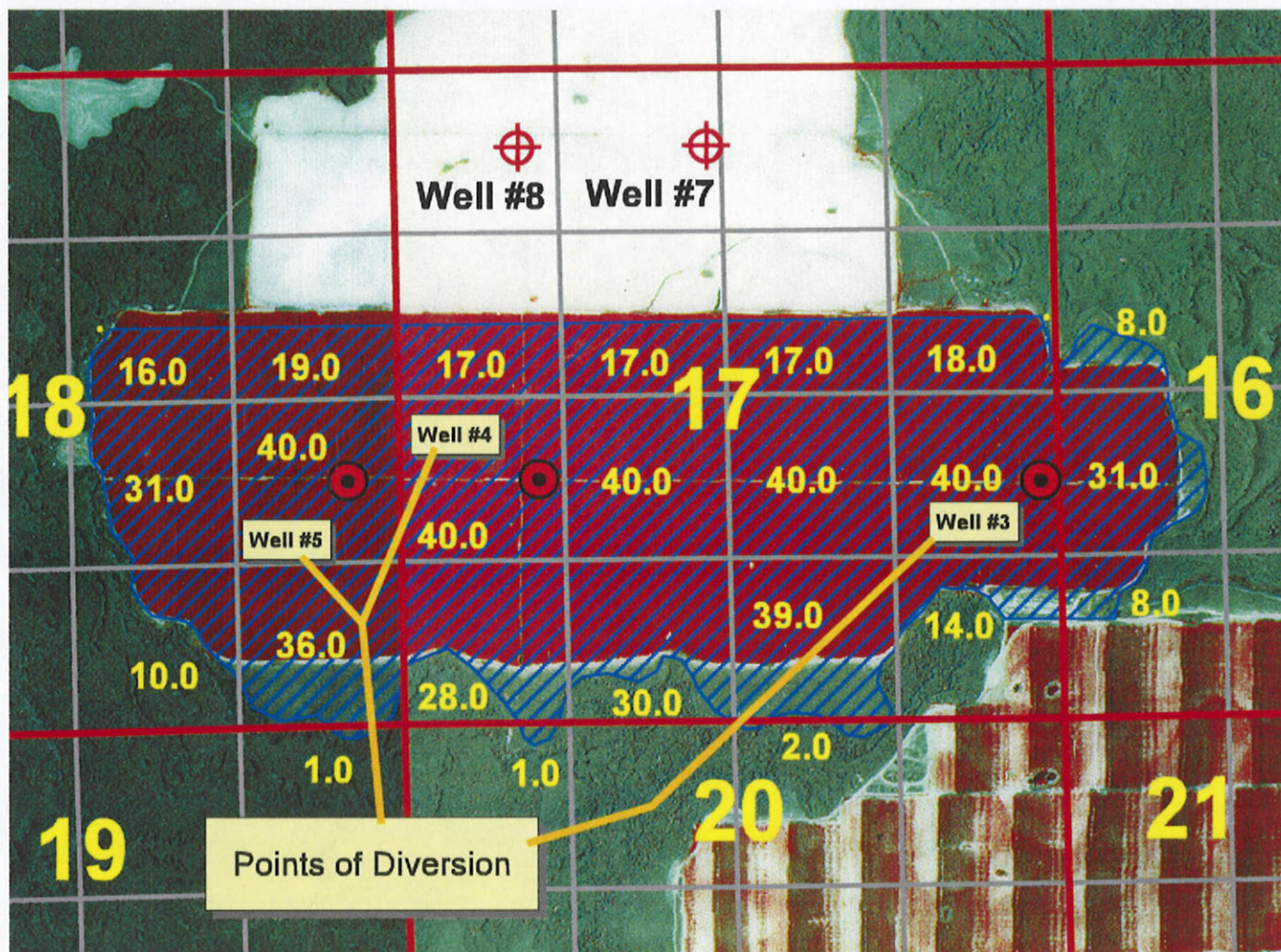




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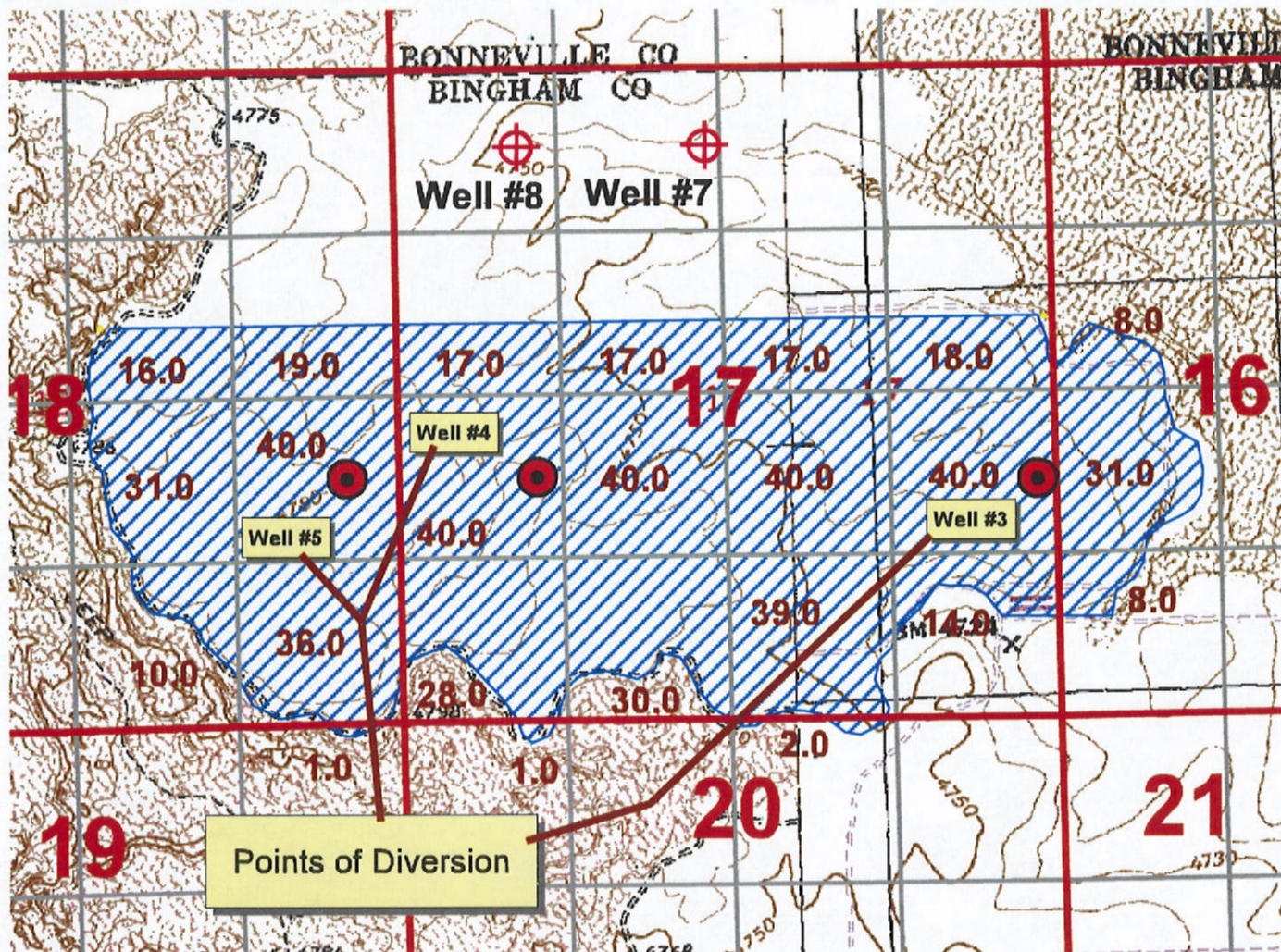
Permissable Place of Use
35-8912, Part 35-8924 (A)
Plus Lic 35-7000C/7368C

Pg 14 **of** 19

MICROFILMED

JUL 10 2002

35-08924A



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Permissable Place of Use
35-8912, Part 35-8924
Plus Lic 35-7000C/7368C

Pg 15 of 19

MICROFILMED
 JUL 10 2002

35-08924A

Pivot # 3



→ well # 3

35-8924 A

Pg 16 of 19

MICROFILMED

JUL 10 2002

Pivot # 3



WELL



WELL

Well # 3
(SYSTEM 3)

35-8924 A

Pg 17 of 19

MICROFILMED

JUL 10 2002

well # 4



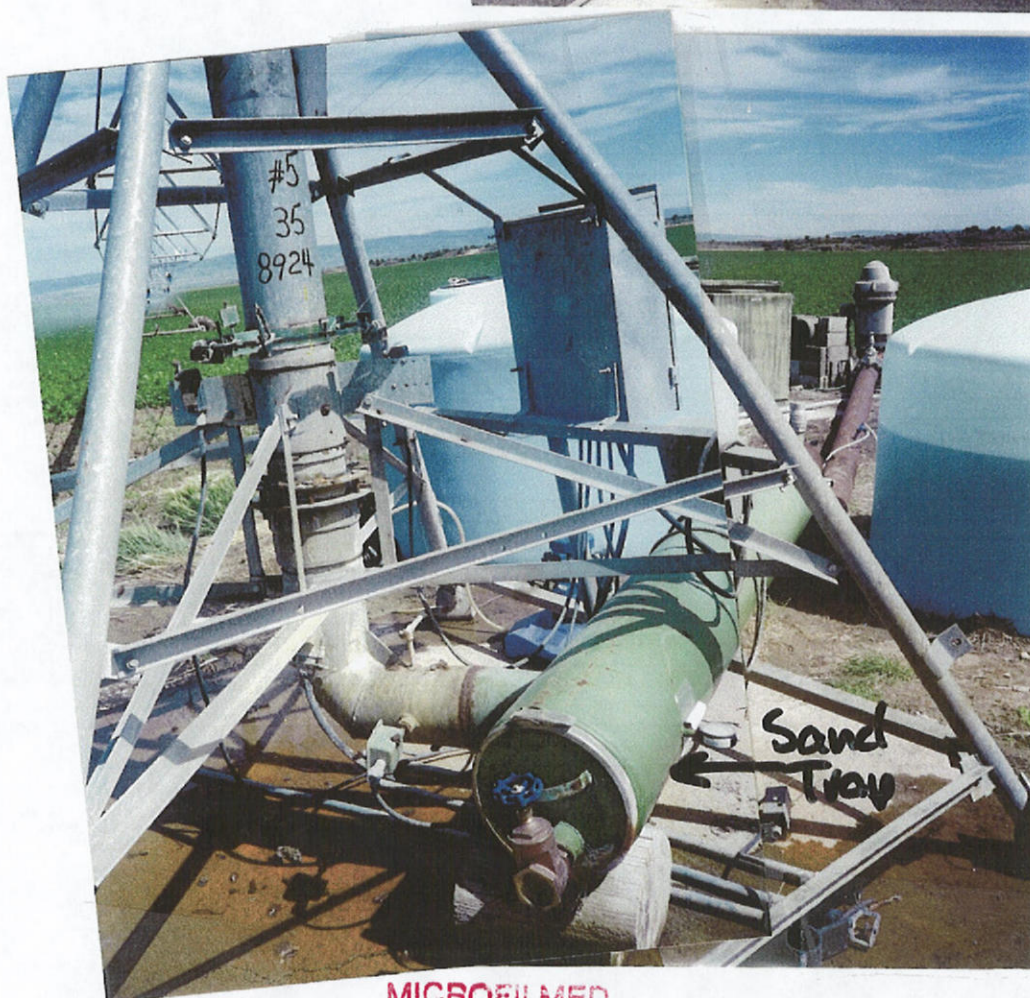
35-8924 A

pg 18 of 19

MICROFILMED

JUL 10 2002

Well
(SYSTEM)
#5



System #5

Pg 19 of 19

35-8924A

MICROFILMED

JUL 10 2002

NONE

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465

T25720
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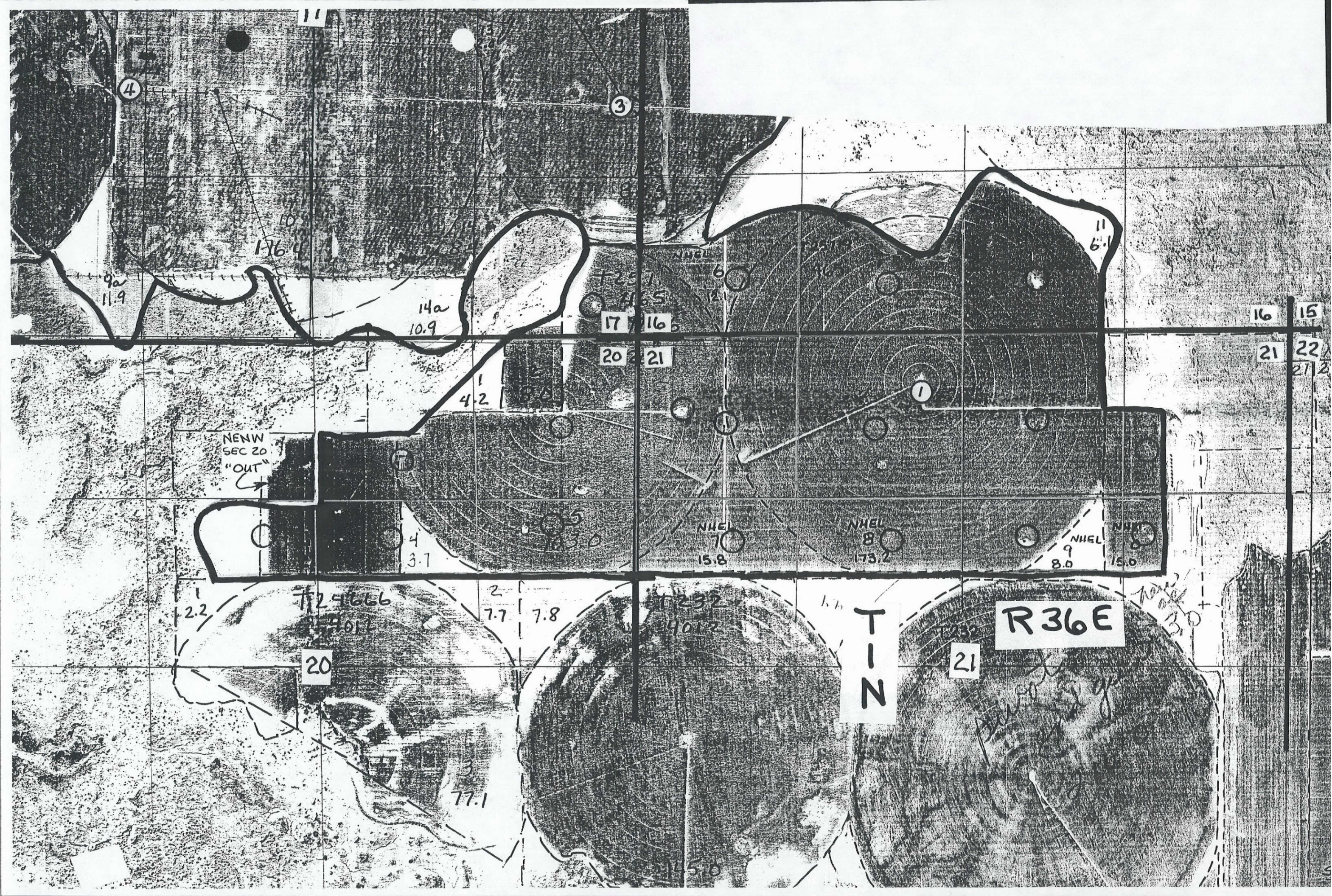
17 16

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State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 35-13377

Priority: September 26, 1990

Maximum Diversion Rate: 0.22 CFS
Maximum Diversion Volume: 48.0 AF

It is hereby certified that JAY L STOLWORTHY
1577 E WOLVERINE RD
FIRTH ID 83236 has complied with the terms and
conditions of the permit, issued pursuant to Application for Permit dated September 26, 1990; and has
submitted Proof of Beneficial Use on June 4, 1993. An examination indicates that the works have a
diversion capacity of 9.96 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	04/01 to 10/31	0.22 CFS	48.0 AF

LOCATION OF POINTS OF DIVERSION:

GROUND WATER	NE $\frac{1}{4}$ SE $\frac{1}{4}$	Sec. 18, Twp 01N, Rge 36E, B.M., BINGHAM County
GROUND WATER	NW $\frac{1}{4}$ SW $\frac{1}{4}$	Sec. 17, Twp 01N, Rge 36E, B.M., BINGHAM County
GROUND WATER	NE $\frac{1}{4}$ SE $\frac{1}{4}$	Sec. 17, Twp 01N, Rge 36E, B.M., BINGHAM County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N 36E 16							8.0			31.0	8.0						47.0
01N 36E 17			17.0	18.0			17.0	17.0	40.0	40.0	28.0	30.0	40.0	40.0	39.0	14.0	340.0
01N 36E 18			16.0	19.0									40.0	31.0	10.0	36.0	152.0
01N 36E 19	1.0																1.0
01N 36E 20		2.0				1.0											3.0

Total Acres: 543

CONDITIONS OF APPROVAL

1. This right is limited to the irrigation of 12 acres within the place of use described above in a single irrigation season.
2. Right 35-07000C, 35-07368C and 35-08912 are also diverted through the points of diversion described above.
3. Rights 35-07000C, 35-07368C, 35-08912 and 35-13377 when combined shall not exceed a total diversion rate of 9.96 cfs, and the irrigation of 543 acres.

MICROFILMED

JUL 10 2002

State of Idaho
Department of Water Resources
Water Right License

WATER RIGHT NO. 35-13377

4. 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.
5. Use of water under this water right will be regulated by the watermaster of State Water District No. 120.
6. 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.

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 26TH day of JUNE, 2002.

Acting for


KARL J. DREHER
Director

MICROFILMED

JUL 10 2002

State of Idaho
Department of Water Resources
APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 35-13377

RECEIVED

JUN 24 2002

RECEIVED

JUN 13 2002

Department of Water Resources
Eastern Region

Date of Priority: September 26, 1990

Maximum Diversion Rate: 0.22 CFS

Maximum Diversion Volume: 48.0 AF

Comes now JAY L STOLWORTHY
1577 E WOLVERINE RD

FIRTH ID 83236 and represents to the Director of the Idaho Department of Water Resources that he is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho No. 35-13377, and requests that the permit be changed as follows:

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 10/31	0.22 CFS	48.0 AF

LOCATION OF POINTS OF DIVERSION:

GROUND WATER	NE $\frac{1}{4}$ SE $\frac{1}{4}$	Sec. 18, Twp 01N, Rge 36E, B.M., BINGHAM County
GROUND WATER	NW $\frac{1}{4}$ SW $\frac{1}{4}$	Sec. 17, Twp 01N, Rge 36E, B.M., BINGHAM County
GROUND WATER	NE $\frac{1}{4}$ SE $\frac{1}{4}$	Sec. 17, Twp 01N, Rge 36E, B.M., BINGHAM County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N 36E 16							8.0			31.0	8.0						47.0
01N 36E 17			17.0	18.0			17.0	17.0	40.0	40.0	28.0	30.0	40.0	40.0	39.0	14.0	340.0
01N 36E 18			16.0	19.0									40.0	31.0	10.0	36.0	152.0
01N 36E 19	1.0																1.0
01N 36E 20		2.0					1.0										3.0

Total Acres: 543

Permit holder asserts that no one will be injured by such change and that such change will be made at permit holder's own risk. Signed this 12 day of June, 2002.


(Signature)

MICROFILMED

JUL 10 2002

State of Idaho
Department of Water Resources
APPLICATION FOR AMENDMENT
(For Licensing Purposes)
WATER RIGHT NO. 35-13377

FOR DEPARTMENT USE ONLY

Preliminary check by bw Fee = 50.00 Received by SC # ED27857 Date 6/14/02

ACTION OF THE DEPARTMENT OF WATER RESOURCES

I, Karl J. Dreher, of the Department of Water Resources hereby approve the above Application for Amendment for Permit No. 35-13377 with the following:

CONDITIONS OF APPROVAL

1. This right is limited to the irrigation of 12 acres within the place of use described above in a single irrigation season.
2. Right 35-07000C, 35-07368C and 35-08912 are also diverted through the points of diversion described above.
3. Rights 35-07000C, 35-07368C, 35-08912 and 35-13377 when combined shall not exceed a total diversion rate of 9.96 cfs, and the irrigation of 543 acres.
4. 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.
5. Use of water under this water right will be regulated by the watermaster of State Water District No. 120.
6. 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.

Witness my hand this 26TH day of June, 2002.

Acting for 
KARL J. DREHER
Director

MICROFILMED

JUL 10 2002

IDAHO DEPARTMENT OF WATER RESOURCES

Water Right Report 35-13377

WATER RIGHT NUMBER: 35-13377

DRAFT

Owner Type Name and Address
 Current Owner JAY L STOLWORTHY
 820 S PARK
 SHELLEY, ID 83274
 (208)357-3808

Priority Date: 09/26/1990

Basis: License

Status: Active DRAFT

Source Tributary
 GROUND WATER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
IRRIGATION	04/01 to 10/31	0.220 CFS	
	<u>Total Diversion:</u>	0.220 CFS	

Location of Point(s) of Diversion

GROUND WATER	NE1/4SE1/4	Sec. 18, Twp 01N, Rge 36E, B.M.
BINGHAM County		
GROUND WATER	NW1/4SW1/4	Sec. 17, Twp 01N, Rge 36E, B.M.
BINGHAM County		
GROUND WATER	NE1/4SE1/4	Sec. 17, Twp 01N, Rge 36E, B.M.
BINGHAM County		

Place of Use

IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
01N	36E	18																	17.0
01N	36E	19	2.0																2.0

Total Acres: 19

Conditions of Approval:

1. 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.
2. 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.
3. 046 Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.

MICROFILMED

MAY 10 2002

IDAHO DEPARTMENT OF WATER RESOURCES

Water Right Report 35-13377

4. 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.
5. 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.
6. 053 The Director retains jurisdiction over this right and may change, add, or remove any requirement as determined to be appropriate.
7. 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.

Remarks:Comments:

1. kwalker 3/7/2002 Split Permit 35-8924

Comment: This right is a split of Permit 35-8924. Permit 35-8924 was split into 35-13377 and 35-13378 at time of licensing. Examiner found 2 separate systems when he conducted his exam.

Dates and Other Information:

Licensed Date:
 Decreed Date:
 Water Supply Bank Enrollment Accepted:
 Water Supply Bank Enrollment Removed:
 Enlargement Use Priority Date:
 Enlargement Statute Priority Date:
 State or Federal:
 Owner Name Connector:
 Water District Number:
 Generic Max Rate Per Acre: 0.02
 Generic Max Volume Per Acre: 4
 Decree Defendant:
 Decree Plaintiff:
 Civil Case Number:
 Judicial District:
 Swan Falls Trust or Nontrust: T
 Swan Falls Dismissed:
 DLE Act Number:
 Carey Act Number:
 Mitigation Plan: False

Permit Issued: 6/24/91
~~App~~ *App Rec'd: 9/26/90*
Proof Due: 11/1/93
Proof Made: 6/4/93
Exam Date: 6/24/94
Exam to SO: 2/1/02

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JUL 10 2002



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

June 28, 2002

JAY L STOLWORTHY
1577 E WOLVERINE RD
FIRTH ID 83236

RE: License No. 35-13377 - 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.

Enclosed is a copy of the approved Application for Amendment.

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)

MICROFILMED
JUL 10 2002

CERTIFICATE OF SERVICE

I hereby certify that on June 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. 35-13377

**JAY L STOLWORTHY
1577 E WOLVERINE RD
FIRTH ID 83236**


**Kari Lynn Townsend
Secretary**

**MICROFILMED
JUL 10 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.

MEMORANDUM

TO: Files 35-08912 and 35-13377

FROM: KAY WALKER

RE: License Recommendations

Date: June 24, 2002

.....

In final review of these permits for licensing, it was determined that the SRBA had decreed more water than the wells could produce. Since we cannot decrease the amount of water the court has decreed, we have changed the combined use limit to 9.96 cfs, which is the combined rates of decrees 35-7000C and 35-7368C.

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JUL 10 2002

May 24, 2002

Jay Stolworthy
1577 E Wolverine Rd
Firth, ID 83236

RE: Licensing Amendments for Permits 35-08912 & 35-13377(part of 35-08924)

Dear Mr. Stolworthy:

I was unable to contact you by phone this morning so I am sending you this letter as a follow up to your request to Kay Walker of the state office.

Kay Walker from the state office contacted me about the conversation that she had with you, and the need for the licensing amendments for permits 35-08912 & 35-13377. She asked that I review the information and contact you.

When these two permits [35-08912 and 35-13377 (part of 35-08924)] were applied for, they listed only one well as the point of diversion. Since all three wells are in a common system, and can be used individually or in combination to irrigate any of the place of use, there needs to be an amendment to each of the permits.

When I wrote up the field examinations I recommended that these licensing amendments were the best way to assist you in the operation of the irrigation system. The state office agreed with my conclusion and issued these licensing amendments for your approval and authorization. I assure you that these licensing amendments are in your best interest. The licensing amendments will allow you much more flexibility in the operation of the irrigation system.

Feel free to contact me if you have additional questions. I will be out of the office until the 4th of June 2002. Hopefully, I have addressed your questions about why the licensing amendments are needed. For your convenience I have enclosed copies of the licensing amendments that you need to authorize with your signature, and return to the state office with the amendment fee of \$100.00 (\$50.00 each).

Your prompt response on or before June 7, 2002, will be appreciated.

Thank you,

Keith C. Wilson
Senior Resource Agent

MICROFILMED

JUL 10 2002



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

April 26, 2002

JAY STOLWORTHY
1577 E WOLVERINE RD
FIRTH ID 83236

RE: Water Right Permits 35-08912 and 35-13377 (portion of Permit 35-08924)

Dear Permit Holder(s):

I previously forwarded to you Applications for Amendment so that you could amend your permits to depict your water rights as it has actually been developed.

As of this date, I have not received the amendments. If I do not receive the amendments within 14 days, Water Right Licenses will be issued for less than could have been allowed. In case the amendment forms I sent you have been misplaced, new ones are enclosed. Please note that the filing fee for each amendment is \$50.00.

If you have any questions regarding this matter, please call me at 208-327-7944.

Sincerely,

KAY WALKER
Sr. Water Resource Agent

KW:klt

Enclosures

MICROFILMED

JUL 10 2002



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

April 1, 2002

JAY STOLWORTHY
1577 E WOLVERINE RD
FIRTH ID 83236

RE: Water Right Permit Nos. 35-08912 and 35-13377 (portion of Permit 35-08924)

Dear Mr. Stolworthy:

The Department of Water Resources is reviewing the above referenced permits prior to issuing water right licenses. By issuing licenses, the Department confirms the extent of development that has been established in compliance with the terms of the permits. The examiner who verified your water use reported that certain elements of the permits were developed differently than described on the permits. Changes that do not increase the authorized use of water under the permits can be requested and approved in accordance with Section 42-211, Idaho Code. Before licenses can be issued, your permits must be amended to depict your water use as actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permits:

Points of Diversion – Adding points of diversion

Place of Use – Describing a permissible place of use under these permits

The enclosed Applications for Amendment forms depict the elements of the water rights as they will appear on the licenses when issued. Please review the amendment forms carefully. If you concur with the information presented, please sign the forms and return them with a **\$100.00 filing fee** (\$50.00 per amendment form) within 14 days.

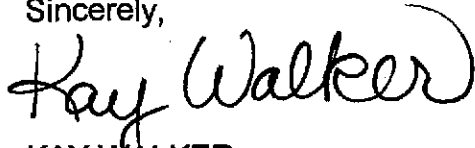
Please be advised that we have found that "Well #3" was decreed under Rts. 35-07000C and 35-07368C as being located in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 16, Twp. 1N, Rge. 36E. We had one of our employees go out and GPS (global positioning system) this well to determine where the actual location was. He found that Well #3 is actually located in the NE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 17, Twp. 1N, Rge. 36E. We have gone ahead and described Rts. 35-07000C, 35-07368C, 35-08912 and 35-13377 as being diverted out of the same three wells but the decreed rights will need to be transferred to correct the location of that well. You should contact our Eastern Regional Office when you are ready to file the transfer.

MICROFILMED

APR 10 2002

If you have any questions in regard to this matter, please do not hesitate to contact me at (208)327-7944.

Sincerely,

A handwritten signature in cursive script that reads "Kay Walker". The signature is written in black ink and is positioned above the printed name.

KAY WALKER
Sr. Water Resource Agent

KW:k
Enclosures

Cc: Ernest Carlsen, IDWR, Eastern Region

MICROFILMED

JUL 10 2002

Comment Report

35-13377

1. kwalker 3/7/2002 Split Permit 35-8924

Comment: This right is a split of Permit 35-8924. Permit 35-8924 was split into 35-13377 and 35-13378 at time of licensing. Examiner found 2 separate systems when he conducted his exam.

2. kwalker 4/1/2002 Point of Diversion #3

Comment: The well described as point of diversion #3 on this exam did not have the same legal description as used in the SRBA on Rts. 35-7000C and 35-07368C which overlap this right. Dennis Dunn went out and GPSd well #3 and found that it is located in the NESE, S17, T1N, R36E rather than the NWSW, S16 as recommended in the SRBA. We will show the rights as overlapping even though the legal descriptions are not consistent and advise Mr. Stolworthy that he should file a transfer to correct the decreed rights.

MICROFILMED

JUL 10 2002

LICENSE REVIEW CHECKLIST

Permit No. 35-8924A Date: 3-1-02 Reviewer: Kay Walker

Change/OK

Name/Address OK

Source OK

Point of Diversion: add

Does change clarify original intended source? If no, void permit.

Change (P39/P49) Add (P45/P44) Feds (P40)

W32 (multiple in 1/4/1/4)

W36 (overlap)

W59 (subdivision description)

Place of Use add
ppu

Change (P41/P49) Add (P41/P44) Feds (P43)

W60 (subdivision description)

W27 (ppu acre limit)

Overlaps: Right(s): 35-7000C/7368C/8912

File reviewed _____ Profile reports printed _____

P/D & P/U amend (P37) Feds (P48)

Rate of Diversion:

Permitted rate 0.24 + 0.14 under B cfs

Fee Limit 1.0 cfs

Measured _____ cfs

Theoretical _____ cfs

Recommended Total Diversion Rate 0.22

Water Uses OK

Change (P46)

Season of Use per new Standards

4-1 10-31

Irrigation 0.22 cfs 48. af

Stockwater _____ cfs _____ af

Domestic _____ cfs _____ af

_____ cfs _____ af

_____ cfs _____ af

Total 0.22 cfs 48. af

Irrigation - overlap(R58-R61, R62-R65, R66-R69)

supp. Gw (WB7/065/104) NO

overlap spec combined rts (W35)

<1 acre (W31)

Domestic (W01/wb5/070/071/075)

Power (W42 or W43/025/027/R22 or R23)

Fish (042)

Fire (077)

Water Quality (106/R07)

Payette - (W22/047/27A)

Stockwater for US (R37)

Volume Determination

_____ cfs x 1.9835 x _____ days = _____ af (vs) 12 acres x 4.0 (FHR) = 48.0 af

Remarks: W27(12), R55, W36, W35

Additional Conditions 120

Watermaster Control

_____ GW Measurement/Measuring Device

Other _____

Trust R55 - remove 051)

Non-trust (048)

GW Dist? _____

Water Msmt. Dist? _____

Crit. GWMA? _____

GWMA? _____

Government Lots? _____

Advance Priority? yes

no

If yes, explain why below.

SRBA Claim? no - not req'd

Adjust memo _____

Amend Letters _____

P87, S06

Second Amendment Notice P44

S06

all fill 35-8912 also in lic process

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORTRECEIVED
FEB 11 2002
DEPARTMENT OF WATER RESOURCES

A. GENERAL INFORMATION

Permit No. 35-8924A1. Owner: JAY STOLWORTHYPhone No. 357-3808Current Address: 820 S Park Shelley Id 832742. Accompanied by: -EXAM DATE: 6-24-1994Meas. Dist 6-29-1998Address: -Phone No. -Relationship to Permit Holder: -3. Source: GROUNDWATER tributary to -

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 35-7000C/7368C/89122. Other water rights with the same point of diversion: 35-7000C/7368C/8912

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
3			NE	SE	17	1N	36E	Bingham	on site FSA record
4			NW	SW	17	1N	36E	BINGHAM	" "
5			NE	SE	18	1N	36E	Bingham	" "

2. Place(s) of Use: Permissible Place of Use Indicate Method of Determination FSA/ARCVIEW

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
1N	36E	16							8			31	8						47
		17			17	18			17	17	40	40	28	30	40	40	39	14	340
		18			16	19									40	31	10	36	152
		19	1																1
		20		2				1											3
																			543

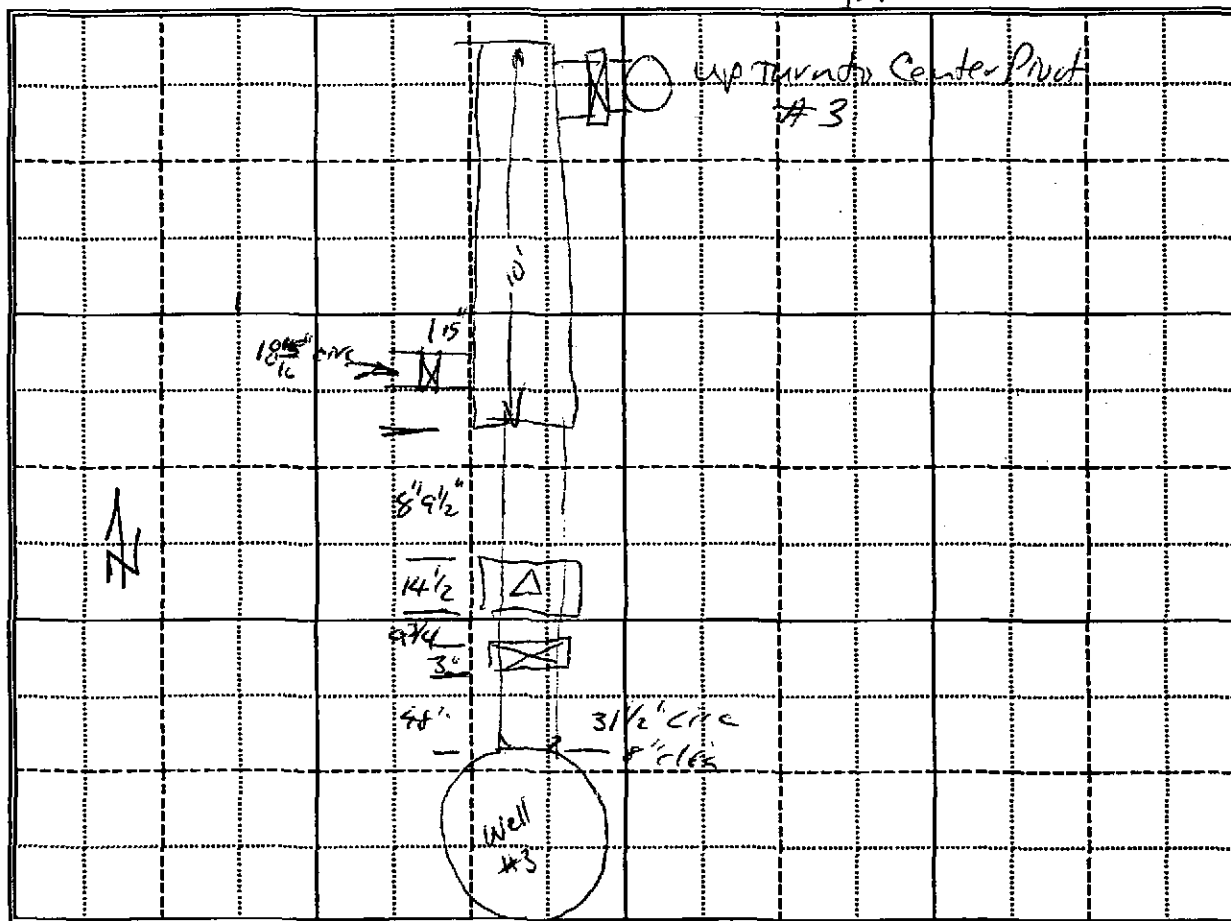
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Pg 1 of 19
35-8924A

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

System # 3



Scale: 1" =

System # 3

Copy of USGS Quadrangle Attached Showing location(s) of point(s) 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
#3	U.S. Electric	150	6350 W01V350 R022R	UNKNOWN	8" / casting # 8WLI8

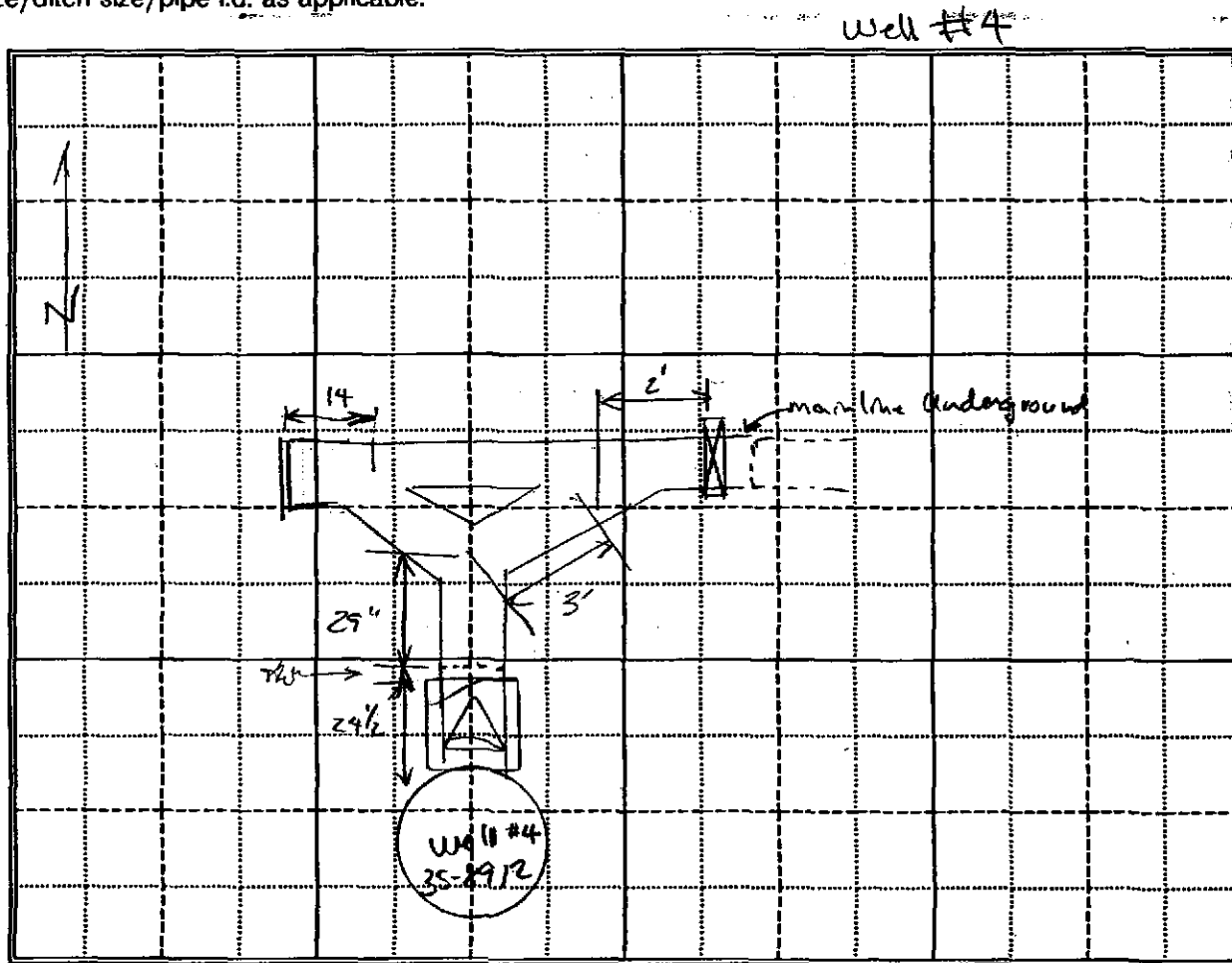
*Code to correspond with No. on map and aerial photo

* < ATTACHMENTS A, B, C >

Pg 2 of 19
35-8924 A

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



Scale: 1" =

Well #4 [EAST WELL (35-7000 C/ 7368 C)]

☒ Copy of USGS Quadrangle Attached Showing location(s) of point(s) 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
# 4	US Electric	200	6349/ V10V245R020R3	Vertiline	53-06704

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

* < ATTACHMENTS A, B, & C >

Pg 3 of 19

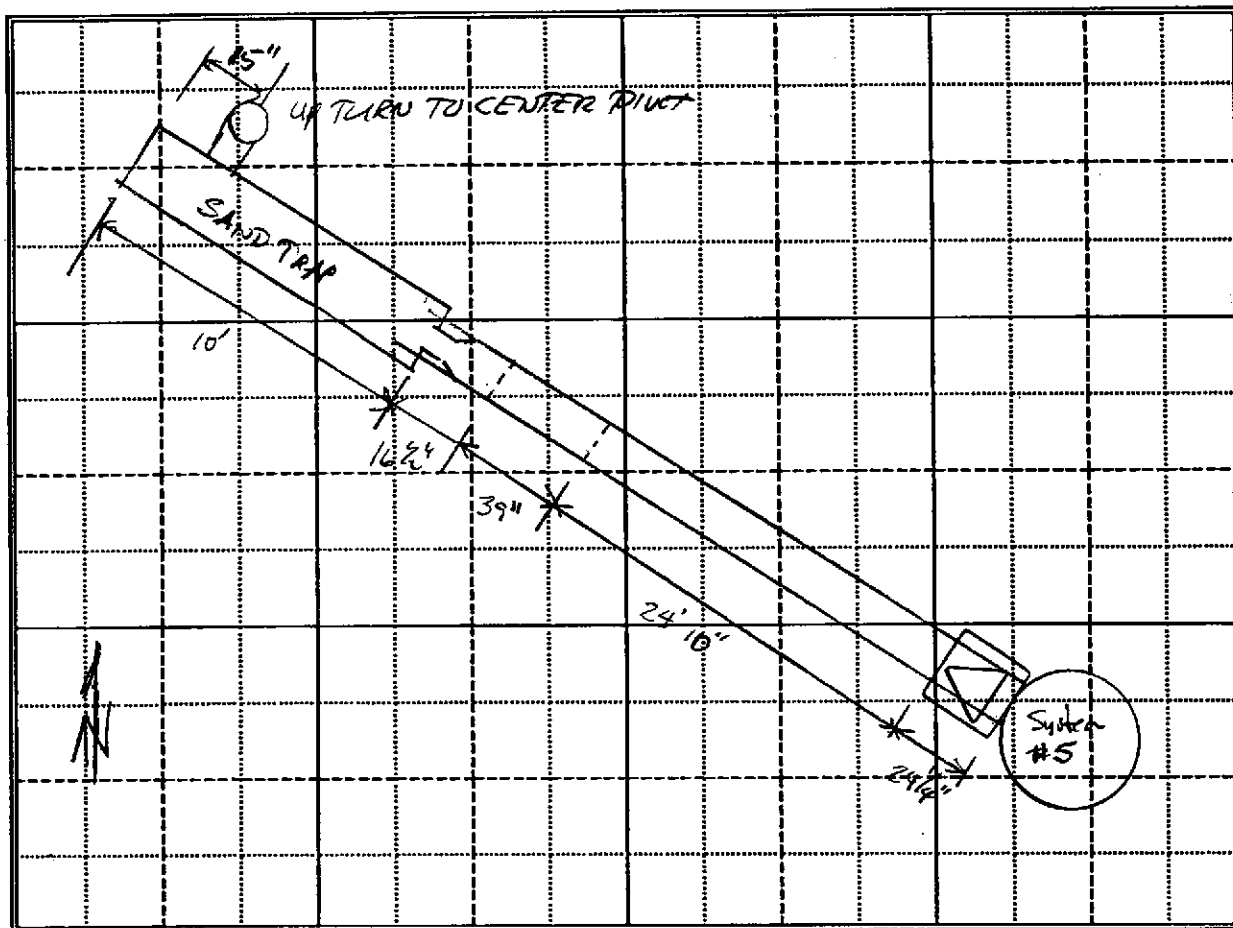
35-8924 A

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

System #5



Scale: 1" =

System #5 [WEST WELL (35-7000 C/7368 C)]

☒ Copy of USGS Quadrange Attached Showing location(s) of point(s) 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
#5	USElectric	200	6349 804R338R114R-4	Layne & Bowler	9 1/2"

*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
Portable Flowmeter	Sonic	Polysones	TF-P2	UNKNOWN	-	-

2. Measurements: $Q_{#3} = 1106 \text{ gpm} = 2.46 \text{ cfs} @ 97 \text{ psi}$ $Q_{TOTAL} = 8.76 \text{ cfs}$
 $Q_{#4} = 1684.6 \text{ gpm} = 3.75 \text{ cfs} @ 76 \text{ psi}$
 $Q_{#5} = 1144 \text{ gpm} = 2.55 \text{ cfs} @ 90 \text{ psi}$
 * ATTACHMENTS A, B, & C
 Pg 4 of 19
 35-8924A

JUL 10 2002

E. NARRATIVE/REMARKS/COMMENTS

3 Wells, pumps and mainline to 4 center Pivots and laterals with sprinklers. NOTE: EAST (#4) WELL & WEST (#5) WELL SYSTEMS CHANGED FROM Exam on 35-7000C/7368R.

FROM Water Measurement District Measurements it appears that the maximum rate of Diversion $Q = 3934 \text{ gpm} = 8.77 \text{ cfs}$

Wells #3, #4, & #5 have been operated together. When measured by Groundwater Measurement District

well #3 diverted water to Pivot #3 & #6

well #4 diverted water to Pivot #4 & handlines

well #5 diverted water to Pivot #5

* Pump theoreticals = $Q_{\#3} + Q_{\#4} + Q_{\#5} = 2.47 \text{ cfs} + 3.29 + 3.29 = Q_{\text{TOTAL}} = 9.05 \text{ cfs}$

* It is My opinion that if Wells #3, 4, & #5 were operated together the total Capacity would equal the licensed amount $Q = 9.96 \text{ cfs}$
(35-7000C = 7.97 cfs & 35-7368C = 1.99 cfs)

Recommend rate/ac = $9.96 \text{ cfs} / 543 \text{ ac} = 0.018 \text{ cfs/ac}$ (0.9"/ac)

35-8912 for 33ac = $0.61 \text{ cfs} = (33 \text{ ac} \times 0.018 \text{ cfs/ac})$

A Bit of 35-8924 for 12ac = $0.22 \text{ cfs} = (12 \text{ ac} \times 0.018 \text{ cfs/ac})$

Limit 35-8924A to 12ac within 543

* SEE PUMP THEORETICALS Pg 13 of 19

$Q_{\text{TOTAL}} = Q_{\#3} + Q_{\#4} + Q_{\#5} = 2.47 \text{ cfs} + 3.29 \text{ cfs} + 3.29 \text{ cfs} = 9.05 \text{ cfs}$

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

Pg 5 of 19

35-8924A

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F. FLOW CALCULATIONS

✓ Additional Computation Sheets Attached

Measured Method:

$$Q_{35-8912} = 0.61 \text{ cfs for } 33 \text{ ac}$$

$$Q_{35-8924A} = 0.22 \text{ cfs for } 12 \text{ ac}$$

$$Q = 0.22 \text{ cfs}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{LR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 12 \text{ ac } (4.0) = 48.0 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.22(214)1.9835 = 93.4$$

$$V = \text{Smaller of } V_{LR} \text{ and } V_{D.R.} = 48.0 \text{ afa}$$

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	4/1	10/31	0.22 cfs	48.0
Totals:			0.22 cfs	48.0 afa

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

Permissible Place of use.

I. AUTHENTICATIONField Examiner's Name KEITH C WILSON Date 6-24-1994Pg 6 of 19

Reviewer _____ Date _____

SEAL

35-8924 A

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JUL 10 2002

Well #3

OWNER = JAY STOLNORTHY
OP. = STAN & KENT SEARLE

Well Pump and Motor Information "#3 + #6"

6-29-98

110 AC
BARELY
2 PIVOTS

PUMP DATA		MOTOR DATA	
Manufacturer	V-LINE	Manufacturer	E.U.S. MOT.
Serial Number		Serial Number	
Model Number		Rated Horsepower	150
Type		Rated Amps	125
Impeller Diameter		Rated Volts	460
Rated Speed		Rated Speed	1775
Rated Discharge		Phase	3
Rated Head		Service Factor	1.015

Booster Pump and Motor Information

PUMP DATA		MOTOR DATA	
Manufacturer		Manufacturer	
Serial Number		Serial Number	
Model Number		Rated Horsepower	
Type		Rated Amps	
Impeller Diameter		Rated Volts	
Rated Speed		Rated Speed	
Rated Discharge		Phase	
Rated Head		Service Factor	

Well #3

Power and Water Metering Information

Well #3

WELL TO
STAN SEARLE
6267 B. 55 W. 19.
I.F. 183402

KILOWATT-HOUR METER		WATER MEASUREMENT EQUIPMENT and PIPE INFORMATION	
Utility	PACIFICORP.	Std Meter Manufacturer	POLYSONICS
Pole No.		Std Meter Model No.	TF-P2
Meter Manufacturer	ABIC	Std Meter Type	Sonic Pyg Collins Hall Anub Dye/chem Other
Meter Serial No.	01509287	Std. Meter Confidence	Exl Good Fair Poor 2% 5% 10% >10%
Disc Constant(Kh)	1.8	PSI gauge ID location = disch head?	Distict Owner No B.V.
Rated Voltage	480	Pipe material	STEEL
Demand	3.73	Pipe Outside Diameter	10"
Multiplier (Mult)	40	Pipe Inside Diameter	t = .106
CTR (Current) - PTR (Voltage)	200	Distance of straight pipe upstream and down	Upstream /Down 6/3

35-8924 A

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JUL 10 2002

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Well #3

Determination of Power Consumption Coefficient

Kilowatts of Energy Consumed

KW = 3.6 x Kh x Multiplier x No. of revolutions(N) ÷ Time(T) in seconds per N

Cond.#1 N = 10 (No. of Disc Rev) Time (sec) = (19.2)+(20.0)+()/3:

3.6 x 1.8 (Kh) x 40 (Mult) x 10 (N) ÷ 19.9 (T) =

Cond.#2 N = 10 (No. of Disc Rev) Time (sec) = (17.5)+(17.6)+(17.5)/3:

3.6 x 1.8 (Kh) x 40 (Mult) x 10 (N) ÷ 17.5 (T) =

Cond.#3 N = (No. of Disc Rev) Time (sec) = ()+()+()/3:

3.6 x (Kh) x (Mult) x (N) ÷ (T) =

OUTER DIAMETER
10.0000 IN

PIPE MATERIAL
CS,SS

WALL THICKNESS
0.1060 IN

SPACING
7.516 IN U

16:15+827.122E 00PM 00R
+00000 *10 G 00R
-00000 *10 G 00R

16:20+838.482E 00PM 00R
+00413 *10 G 00R
-00000 *10 G 00R

16:25+808.630E 00PM 00R
+00825 *10 G 00R
-00000 *10 G 00R

Measured Flow Rate and Discharge Pressure - Enter flow rate as determined by water measurement meter in GPM, and discharge pressure measured in PSI documentation to support data such as notes, printout tapes etc.

GPM Cond. #1 825 #2 1105 #3

PSI Cond. #1 121 #2 97 #3

16:36+ 1.106E 30PM 00R
+00000 *10 G 00R
-00000 *10 G 00R

16:41+ 1.094E 30PM 00R
+00552 *10 G 00R
-00000 *10 G 00R

16:46+ 1.095E 30PM 00R
+01105 *10 G 00R
-00000 *10 G 00R

Power Consumption Coefficient (PCC) = KW x 5431 ÷ GPM

PCC Cond. #1 = (KW) x 5431 ÷ (gpm) = (kWh/ac.ft)

Percent of seasonal use 33% Description

PCC Cond. #2 = (KW) x 5431 ÷ (gpm) = (kWh/ac.ft)

Percent of seasonal use 66% Description

PCC Cond. #3 = (KW) x 5431 ÷ (gpm) = (kWh/ac.ft)

Percent of seasonal use Description

Is the system operator required to track and report changes in system operation? Yes No
(see form PCC3)

System Type (all that apply): Pivot linear / Wheel line / Hand line / Gated pipe, flood / Drip / Open ditch

Water Level Data

Does the well have access to measure water levels? Yes No

Is this well part of USGS, IDWR, or another network of water level monitoring wells? Yes / No / Uncertain

Static Water Level ft Pumping Water Level ft (at condition #)

Date Date

R. D. Hawkes 6-29-98

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JUL 10 2002

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35-8924 A

Well #3

83 AC.
PIVOT
(#3)
EADLEY
83 AC.
PIVOT
26 AC.
PIVOT

44
E.V.

Well #3

probe gets stuck

Well #4

OWNER = JAY STOLWORTHY
OP. = STAN & KENT SEARLE

#4 PIVOT
6-29-98

Well Pump and Motor Information

PUMP DATA		MOTOR DATA	
Manufacturer	V-LINE	Manufacturer	U.S. MOT.
Serial Number		Serial Number	
Model Number		Rated Horsepower	200
Type		Rated Amps	236
Impeller Diameter		Rated Volts	460
Rated Speed		Rated Speed	1770
Rated Discharge		Phase	3
Rated Head		Service Factor	1.15

175 AC
PIVOT
+
23 AC
44-
SEARLEY

Booster Pump and Motor Information

PUMP DATA		MOTOR DATA	
Manufacturer		Manufacturer	
Serial Number		Serial Number	
Model Number		Rated Horsepower	
Type		Rated Amps	
Impeller Diameter		Rated Volts	
Rated Speed		Rated Speed	
Rated Discharge		Phase	
Rated Head		Service Factor	

5/32
NOZ.

Well
#4

Power and Water Metering Information

KILOWATT-HOUR METER		WATER MEASUREMENT EQUIPMENT and PIPE INFORMATION	
Utility	PACIFICORP	Std Meter Manufacturer	POLYSONICS
Pole No.		Std Meter Model No.	TF-PZ
Meter Manufacturer	G.E.	Std Meter Type	Sonic Pkg Collins Hall Anub Dye/chem Other
Meter Serial No.	90128069	Std. Meter Confidence	Excl Good Fair Poor 2% 5% 10% >10%
Disc Constant(Kh)	3.6	PSI gauge ID location = disch head?	Distinct / Owner Yes / No
Rated Voltage	480	Pipe material	STEEL
Demand	5.18	Pipe Outside Diameter	6 5/8
Multiplier (Mult)	40	Pipe Inside Diameter	4.11
CTR (Current) PTR (Voltage)	///	Distance of straight pipe upstream and down	Upstream /Down 20/20+

Well
#4

35-8924 A

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Well #4

Determination of Power Consumption Coefficient

Kilowatts of Energy Consumed

$KW = 3.6 \times Kh \times \text{Multiplier} \times \text{No. of revolutions}(N) \div \text{Time}(T) \text{ in seconds per } N$

Cond.#1 $N = 10$ (No. of Disc Rev) Time (sec) = $(25.4) + (25.4) + () \div 3$

$3.6 \times 3.6 (Kh) \times 40 (Mult) \times 10 (N) \div 25.4 (T) =$

Cond.#2 $N =$ (No. of Disc Rev) Time (sec) = $() + () + () \div 3$

$3.6 \times (Kh) \times (Mult) \times (N) \div (T) =$

Cond.#3 $N =$ (No. of Disc Rev) Time (sec) = $() + () + () \div 3$

$3.6 \times (Kh) \times (Mult) \times (N) \div (T) =$

OUTER DIAMETER
6.6524 IN

OUTER DIAMETER
6.6524 IN

PIPE MATERIAL
CS, SS

WALL THICKNESS
0.1100 IN

SPACING
4.641 IN U

20:22+ 1.345E 36PM 00R

+00000 *10 G 00R

-00000 *10 G 00R

20:34+ 1.338E 36PM 00R

+00073 *10 G 00R

-00000 *10 G 00R

Measured Flow Rate and Discharge Pressure - Enter flow rate as determined by water measurement meter in GPM, and discharge pressure measured in PSI documentation to support data such as notes, printout tapes etc.

GPM Cond. #1 1336+324 #2 76 #3 76

PSI Cond. #1 76 #2 76 #3 76

06-29 20:4000 *R

+ 1.339E 36PM

20:41+ 1.333E 36PM 00R

+00073 *10 G 00R

-00000 *10 G 00R

06-29 20:4100 *R

+ 1.342E 36PM

06-29 20:4200 *R

+ 1.338E 36PM

Well #4

Well #4

Power Consumption Coefficient (PCC) = $KW \times 5431 \div GPM$

PCC Cond. #1 = $(KW) \times 5431 \div (gpm) =$

Percent of seasonal use $()$ Description $()$

PCC Cond. #2 = $(KW) \times 5431 \div (gpm) =$

Percent of seasonal use $()$ Description $()$

PCC Cond. #3 = $(KW) \times 5431 \div (gpm) =$

Percent of seasonal use $()$ Description $()$

Is the system operator required to track and report changes in system operation (see form PCC3)

System Type (all that apply): Pivot linear Wheel in Hand in Gated pipe flood

OUTER DIAMETER
10.000 IN

PIPE MATERIAL
CS, SS

WALL THICKNESS
0.1300 IN

SPACING
7.555 IN U

21:00+332.856E 00PM 00R

+00000 *10 G 00R

-00000 *10 G 00R

21:05+342.631E 00PM 00R

+00162 *10 G 00R

-00000 *10 G 00R

324 AVG.

Water Level Data

Does the well have access to measure water levels? Yes No

Is this well part of USGS, IDWR, or another network of water level monitoring wells? Yes No Uncertain

Static Water Level $()$ ft Pumping Water Level $()$ ft (at condition # $()$)

Date $()$

Date 6-29-98

Clear, easy

35-8924A

R. D. Hawkes 6-29-98

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JUL 10 2002

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Well #5

OWNER = JAY STOLWORTHY
OP = STAN & KENT SEARLE

"PIVOT 5"
6-29-98

Well Pump and Motor Information

PUMP DATA		MOTOR DATA	
Manufacturer	V-LINE	Manufacturer	U.S. MOT.
Serial Number		Serial Number	
Model Number		Rated Horsepower	200
Type		Rated Amps	236
Impeller Diameter		Rated Volts	460
Rated Speed		Rated Speed	1770
Rated Discharge		Phase	3
Rated Head		Service Factor	1.15

190 A,
PIVOT
SPE,
WHT.

Booster Pump and Motor Information

PUMP DATA		MOTOR DATA	
Manufacturer		Manufacturer	
Serial Number		Serial Number	
Model Number		Rated Horsepower	
Type		Rated Amps	
Impeller Diameter		Rated Volts	
Rated Speed		Rated Speed	
Rated Discharge		Phase	
Rated Head		Service Factor	

Well
#5

Well
#5

Power and Water Metering Information

KILOWATT-HOUR METER		WATER MEASUREMENT EQUIPMENT and PIPE INFORMATION	
Utility	PACIFIC	Std Meter Manufacturer	POLYSONICS
Pole No.		Std Meter Model No.	TF-P2
Meter Manufacturer	ABB	Std Meter Type	Sonic Pvg Collins Hall Anub Dye/chem Other
Meter Serial No.	01343441	Std. Meter Confidence	Excl Good Fair Poor 2% 5% 10% >10%
Disc Constant(Kh)	1.8	PSI gauge ID location = disch head?	Distict / Owner Yes / No
Rated Voltage	480	Pipe material	STEEL
Demand	4.38	Pipe Outside Diameter	10"
Multiplier (Mult)	40	Pipe Inside Diameter	t = .135
CTR (Current) PTR (Voltage)	///	Distance of straight pipe upstream and down	Upstream /Down 15/15+

35-8924 A

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MAY 10 2002

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Well #5

Determination of Power Consumption Coefficient

Kilowatts of Energy Consumed

$KW = 3.6 \times Kh \times \text{Multiplier} \times \text{No. of revolutions}(N) \div \text{Time}(T) \text{ in seconds per N}$

Cond.#1 N = 10 (No. of Disc Rev) Time (sec) = 15.5 + 15.6 + 15.6 = 46.7

$3.6 \times \underline{1.8} (Kh) \times \underline{40} (\text{Mult}) \times \underline{10} (N) \div \underline{46.7} (T) = \underline{\hspace{2cm}}$

Cond.#2 N = (No. of Disc Rev) Time (sec) = () + () + () / 3 =

$3.6 \times \underline{\hspace{1cm}} (Kh) \times \underline{\hspace{1cm}} (\text{Mult}) \times \underline{\hspace{1cm}} (N) \div \underline{\hspace{1cm}} (T) = \underline{\hspace{2cm}}$

Cond.#3 N = (No. of Disc Rev) Time (sec) = () + () + () / 3 =

$3.6 \times \underline{\hspace{1cm}} (Kh) \times \underline{\hspace{1cm}} (\text{Mult}) \times \underline{\hspace{1cm}} (N) \div \underline{\hspace{1cm}} (T) = \underline{\hspace{2cm}}$

OUTER DIAMETER
10.0000 IN

PIPE MATERIAL
? CS, SS

WALL THICKNESS
0.1350 IN

SPACING
7.563 IN U

18:33+ 1.144E 3GPM 001
+00000 *10 G 001
-00000 *10 G 001

18:38+ 1.139E 3GPM 001
+00570 *10 G 001
-00000 *10 G 001

18:43+ 1.128E 3GPM 001
+01138 *10 G 001
-00000 *10 G 001

Measured Flow Rate and Discharge Pressure - Enter flow rate as determined by the "standard" water measurement meter in GPM, and discharge pressure measured in PSI. Attach documentation to support data such as notes, printout tapes etc.

GPM Cond. #1 1138 #2 #3

PSI Cond. #1 90 #2 #3

Well #5

Power Consumption Coefficient (PCC) = $KW \times 5431 \div GPM$

PCC Cond. #1 = (KW) $\times 5431 \div$ (gpm) = (kWh/ac.ft)

Percent of seasonal use 100 Description

PCC Cond. #2 = (KW) $\times 5431 \div$ (gpm) = (kWh/ac.ft)

Percent of seasonal use Description

PCC Cond. #3 = (KW) $\times 5431 \div$ (gpm) = (kWh/ac.ft)

Percent of seasonal use Description

Is the system operator required to track and report changes in system operation? Yes / No
(see form PCC3)

System Type (all that apply) Pivot / linear / Wheel in / Hand in / Gated pipe / flood / Drip / Open ditch

Water Level Data

Does the well have access to measure water levels? Yes / No

Is this well part of USGS, IDWR, or another network of water level monitoring wells? Yes / No / Uncertain

Static Water Level ft Pumping Water Level ft (at condition #)

Date

Date

gate stuck

R. D. Hawkes 6-29-98

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JUL 10 2002

Pg ¹² of 19

35-8924 A

THEORETICAL PUMP FLOW CALCULATIONS

$$\text{Formula: } Q_{cfs} = [(Hp)(8.814)(Eff)] \div [\text{Lift} + (\text{psi} \times 2.308)]$$

SYSTEM: #3

$$\begin{aligned} Hp &= \text{Horsepower} = \underline{150} \\ Eff &= \text{Efficiency} = \underline{70\%} \quad (\text{Usually } 70\%) \\ \text{Lift: } &(\text{Static Level} + \text{Assumed Drawdown}) \\ &\text{Static Water Level} = \underline{\hspace{2cm}} \text{ ft.} \\ &\text{Assumed Drawdown} = + \underline{\hspace{2cm}} \text{ ft.} \\ &\text{Lift} = \underline{\hspace{2cm}} \end{aligned}$$

OR

$$\text{Assumed} \\ \text{Measured Dynamic Water Level} = \underline{225} \text{ ft.}$$

$$\text{psi} = \text{Operating Pressure} = \underline{65} \text{ psi} \quad (\text{recorded } 6-24-1994)$$

$$Q_{cfs} = \left[\frac{150}{Hp} \times 8.814 \times \frac{0.70}{Eff} \right] \div \left[\frac{225}{Lift} + \left(\frac{65}{psi} \times 2.308 \right) \right]$$

$$Q_{cfs} = \left[\underline{925.47} \right] \div \left[\underline{375.0} \right]$$

$$Q_{cfs} = \underline{2.47} \text{ cfs SYSTEM } \underline{\#3}$$

SYSTEM: #4 & #5

$$\begin{aligned} Hp &= \text{Horsepower} = \underline{200} \\ Eff &= \text{Efficiency} = \underline{70\%} \quad (\text{Usually } 70\%) \\ \text{Lift: } &(\text{Static Level} + \text{Assumed Drawdown}) \\ &\text{Static Water Level} = \underline{\hspace{2cm}} \text{ ft.} \\ &\text{Assumed Drawdown} = + \underline{\hspace{2cm}} \text{ ft.} \\ &\text{Lift} = \underline{\hspace{2cm}} \end{aligned}$$

OR

$$\text{Assumed} \\ \text{Measured Dynamic Water Level} = \underline{225} \text{ ft.}$$

$$\text{psi} = \text{Operating Pressure} = \underline{65} \text{ psi} \quad (\text{recorded } 6-24-1994)$$

$$Q_{cfs} = \left[\frac{200}{Hp} \times 8.814 \times \frac{0.70}{Eff} \right] \div \left[\frac{225}{Lift} + \left(\frac{65}{psi} \times 2.308 \right) \right]$$

$$Q_{cfs} = \left[\underline{1233.96} \right] \div \left[\underline{375.0} \right] =$$

Pg 13 of 19

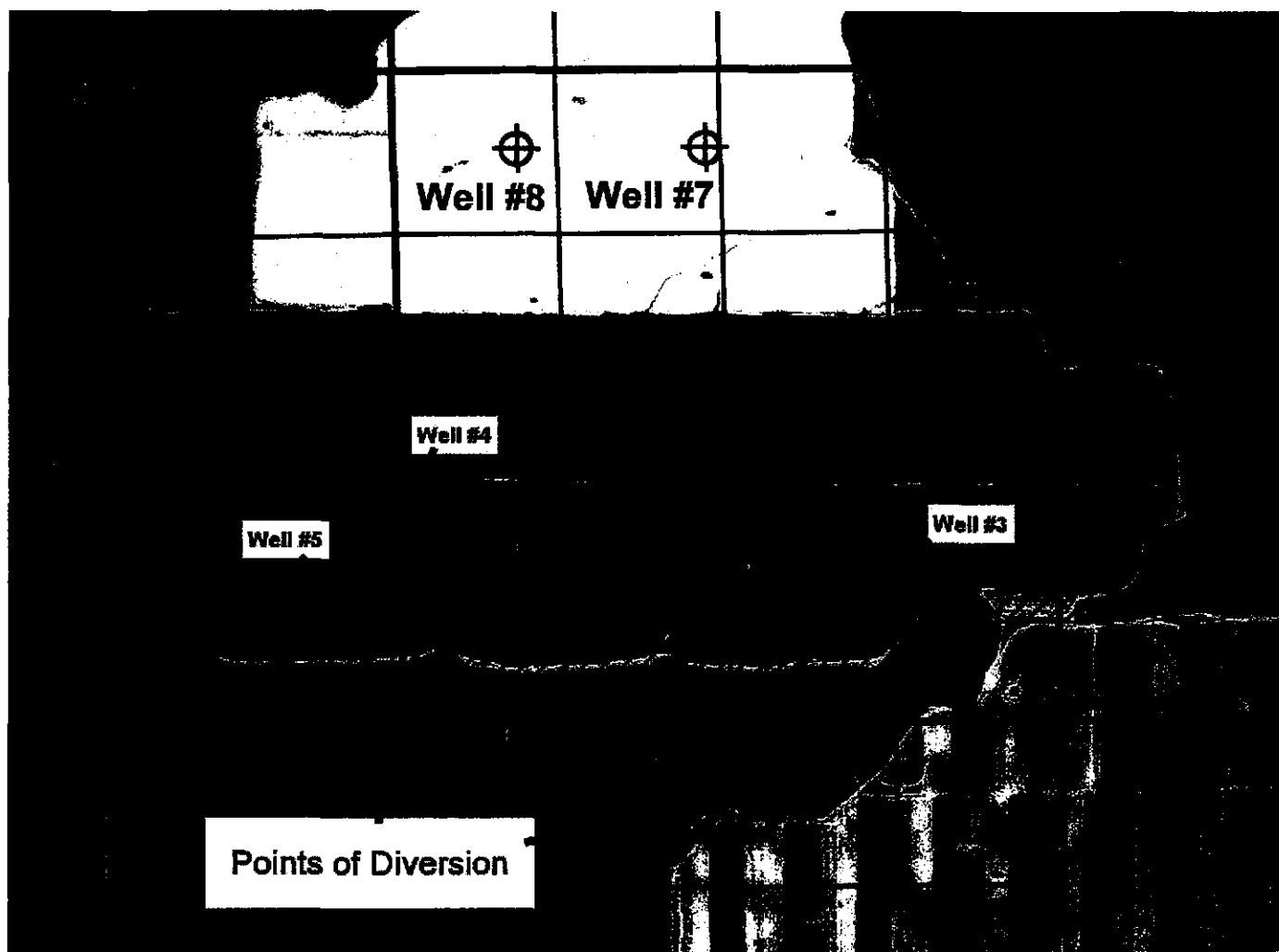
$$Q_{cfs} = \underline{3.29} \text{ cfs SYSTEM } \quad (\#4 \& \#5) \quad Q = 2(3.29 \text{ cfs}) = 6.58 \text{ cfs}$$

Pg 13 of 19

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JUL 10 2002

PERMIT NO. 35-8924A



**T
1
N**

R36E

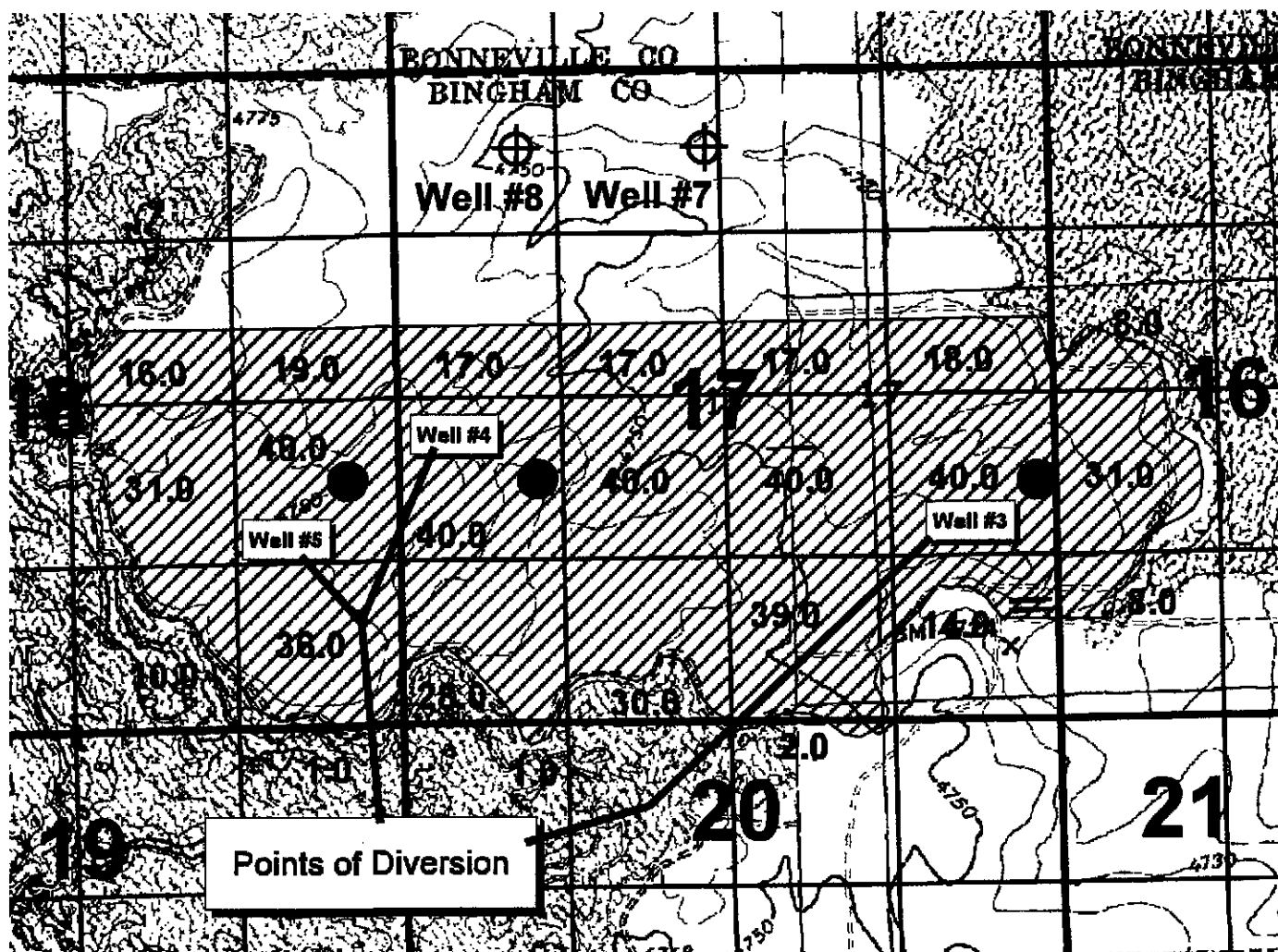
**Permissable Place of Use
35-8912, Part 35-8924 (A)
Plus Lic 35-7000C/7368C**

Pg 14 of 19

MICROFILMED

JUL 10 2002

35-08924A



T R36E
1
N

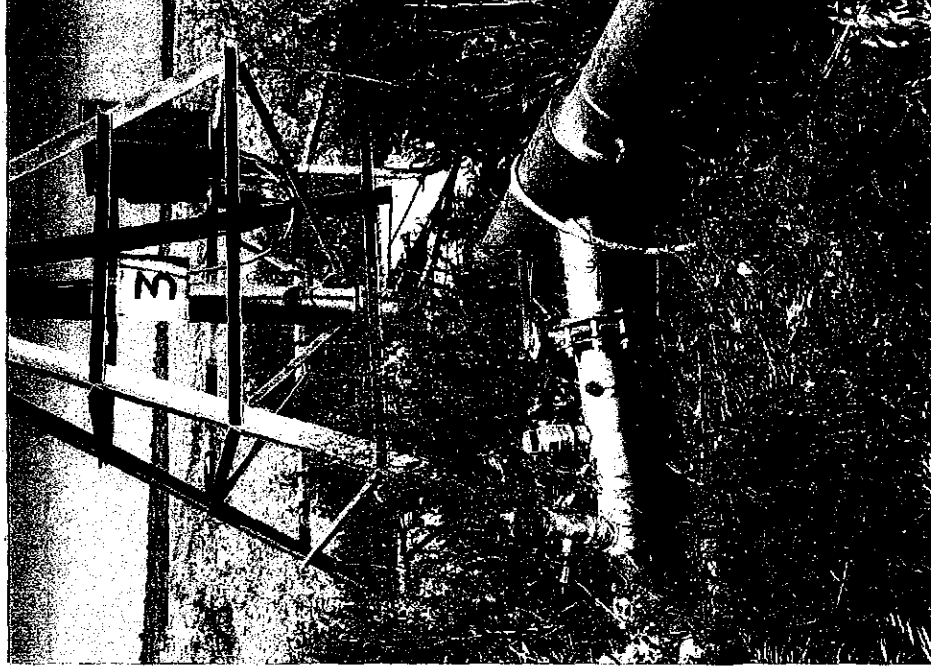
Permissable Place of Use
35-8912, Part 35-8924
Plus Lic 35-7000C/7368C

Pg 15 **of** 19

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JUL 10 2002

35-08924A

Pivot #3



Well #3

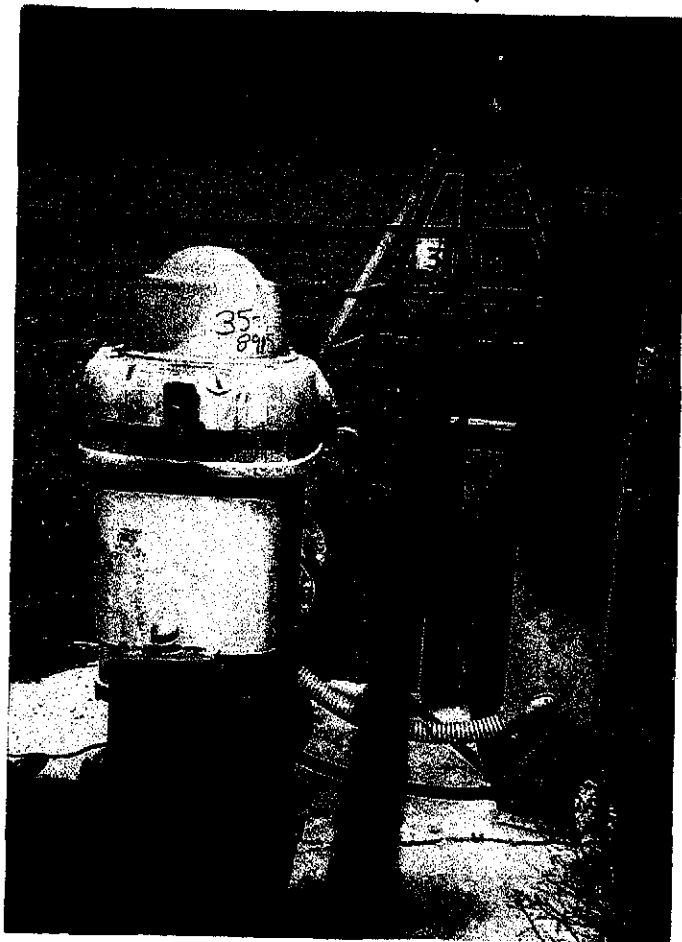
35-8924 A

Pg 16 of 19

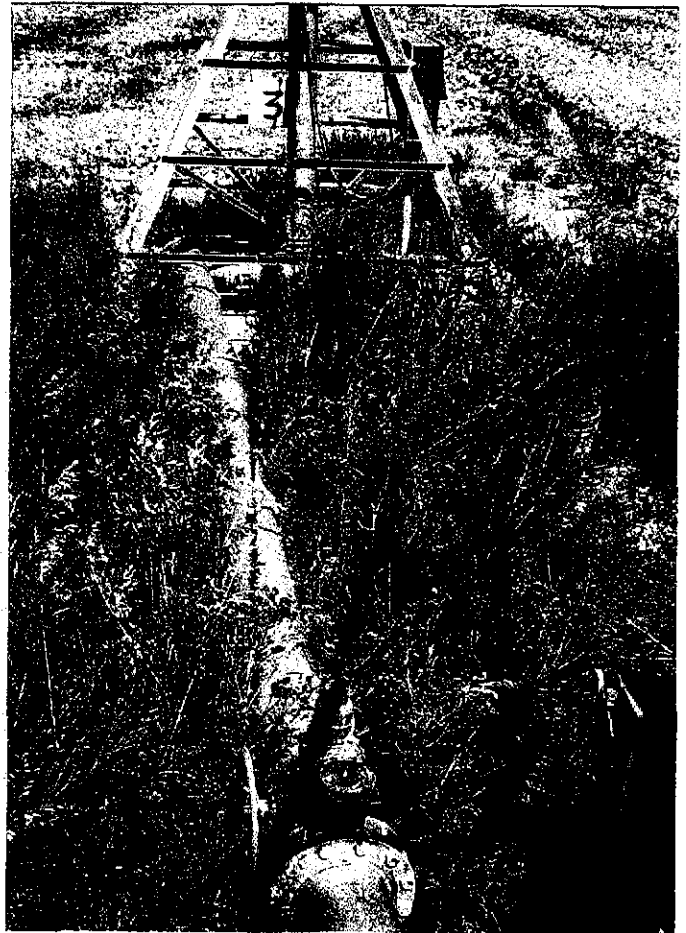
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Pivot #3



WELL



WELL

Well #3
(SYSTEM 3)

35-8924 A

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JUL 10 2002

well # 4



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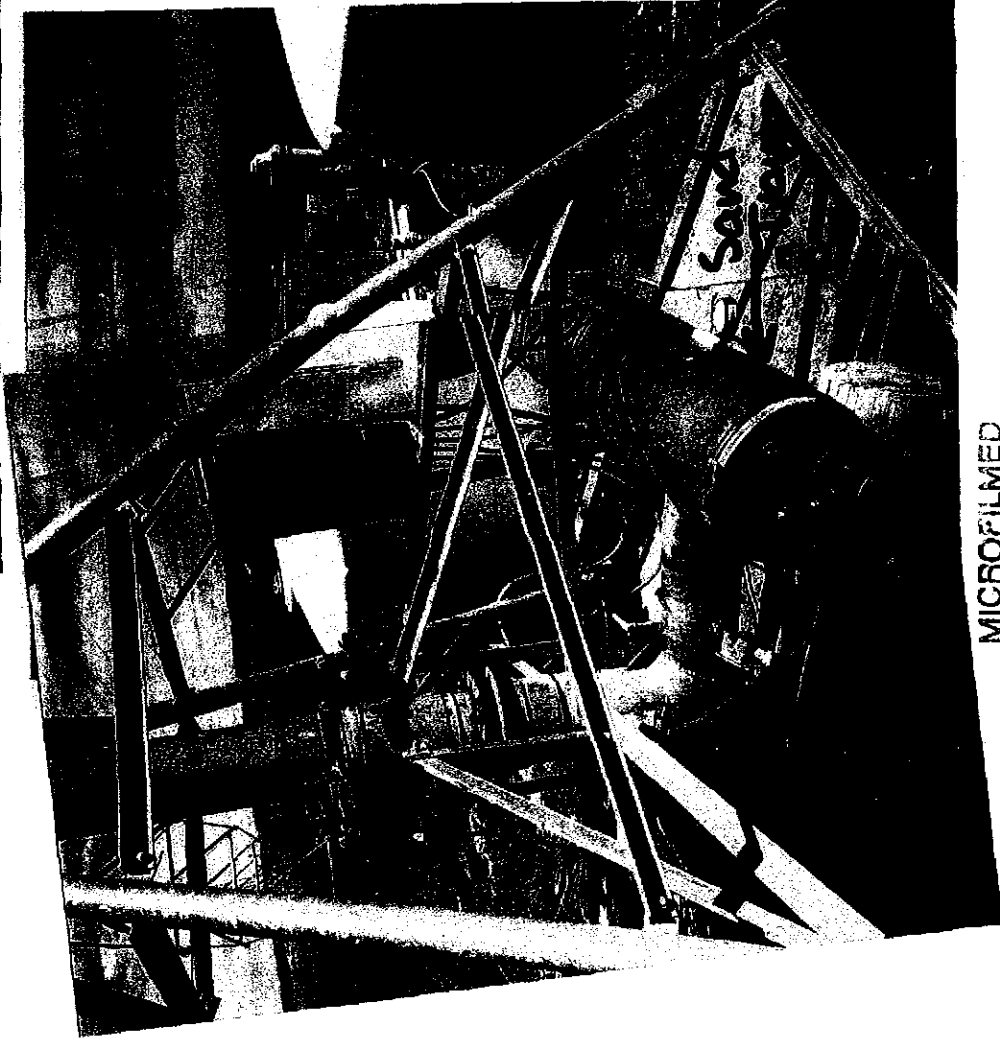
Well
(SYSTEM)
#5



System #5

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35-8924A



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1001E

T25720
465

T25720
465

ALL NEEL

2
11.9

3
5.0

#8

4
36.0

5
95.2

VOM
A9

T
-
N

R36E

18

17

5

4

3

7

8

13 18

24 19

9 18

17

19

20

14a
10.9

17

20

ATTACHMENT "A"
FSA Aerial Info Only

35-8924 A

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JUL 10 2002

R36E

21

T25720
465

#8

8

7

5
95.2

6
VDM
A9

R36E

T
-
N

16

17

4

3

1964

9a
11.9

14a
10.9

11
6.1

17

16

20

21

16

15

21

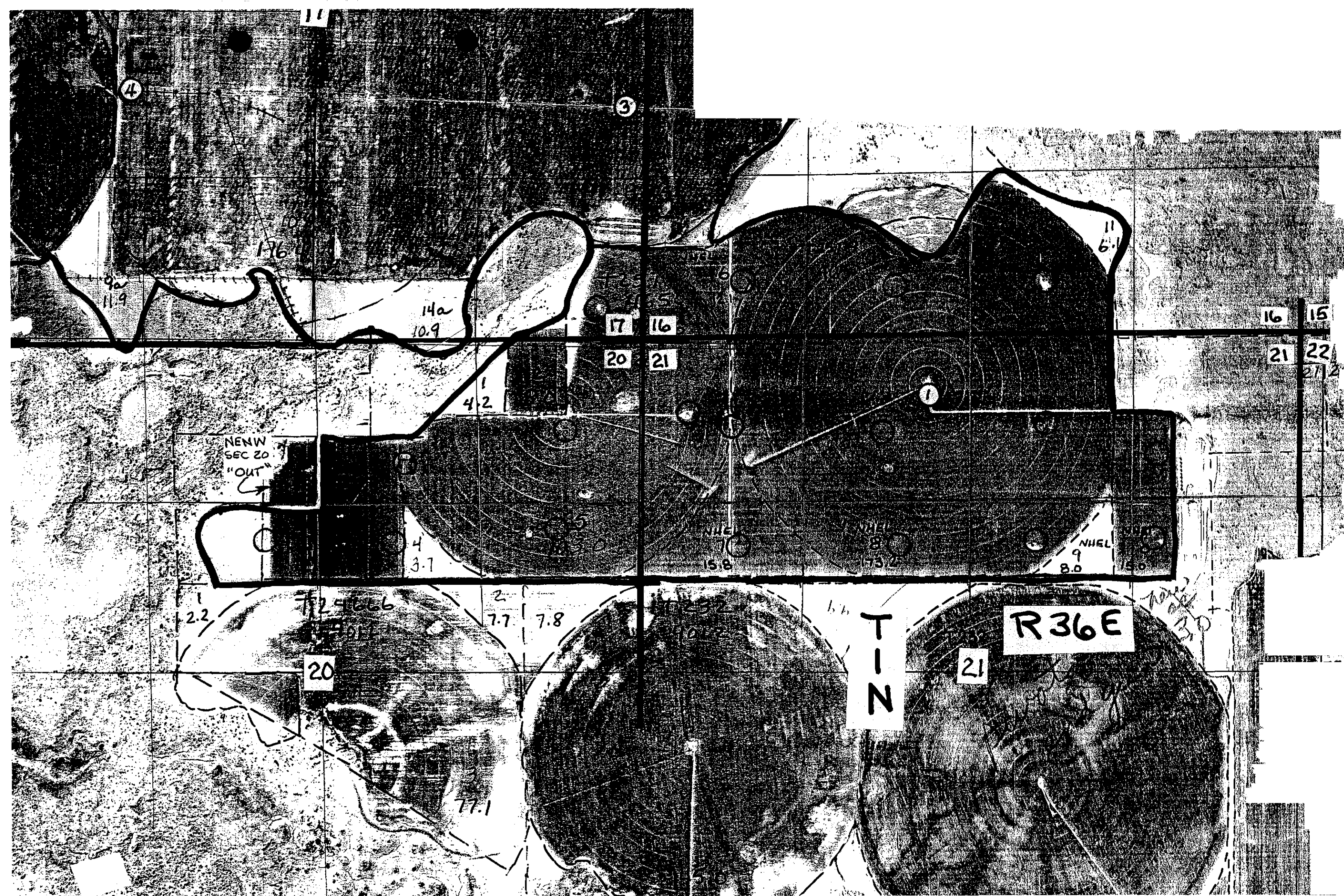
22

21/2

ATTACHMENT "B"
FSA Aerial INFO ONLY

35-8924A

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ATTACHMENT "C"
FSA Aerial INFO ONLY

35-8924 A

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State of Idaho

DEPARTMENT OF WATER RESOURCES

900 N. Skyline Dr., Suite A, Idaho Falls, ID 83402-1718 • Phone: (208) 525-7161 FAX: (208) 525-7177

EASTERN REGION

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

Memorandum

TO:

January 29, 2002

FILES 35-8911, 35-8913, 35-8914, 35-8915, 35-8924B
35-8912, 35-8924A
35-8910, 35-8920

FROM: Keith C. Wilson – Senior Resource Agent – Eastern

RE: Acreage calculations

The total irrigated acres, for each system(s) covered by these permits, was determined using a planimeter and the FSA aerals. Arc View was used to draw the place of use as shown on the FSA aerals and to determine the irrigated acres per quarter-quarter. To insure accuracy, the irrigated acres (determined by using the planimeter) were compared to the acres per quarter-quarter from Arc View.

Keith C. Wilson
Senior Resource Agent

Attachment "D"

35-8924A

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