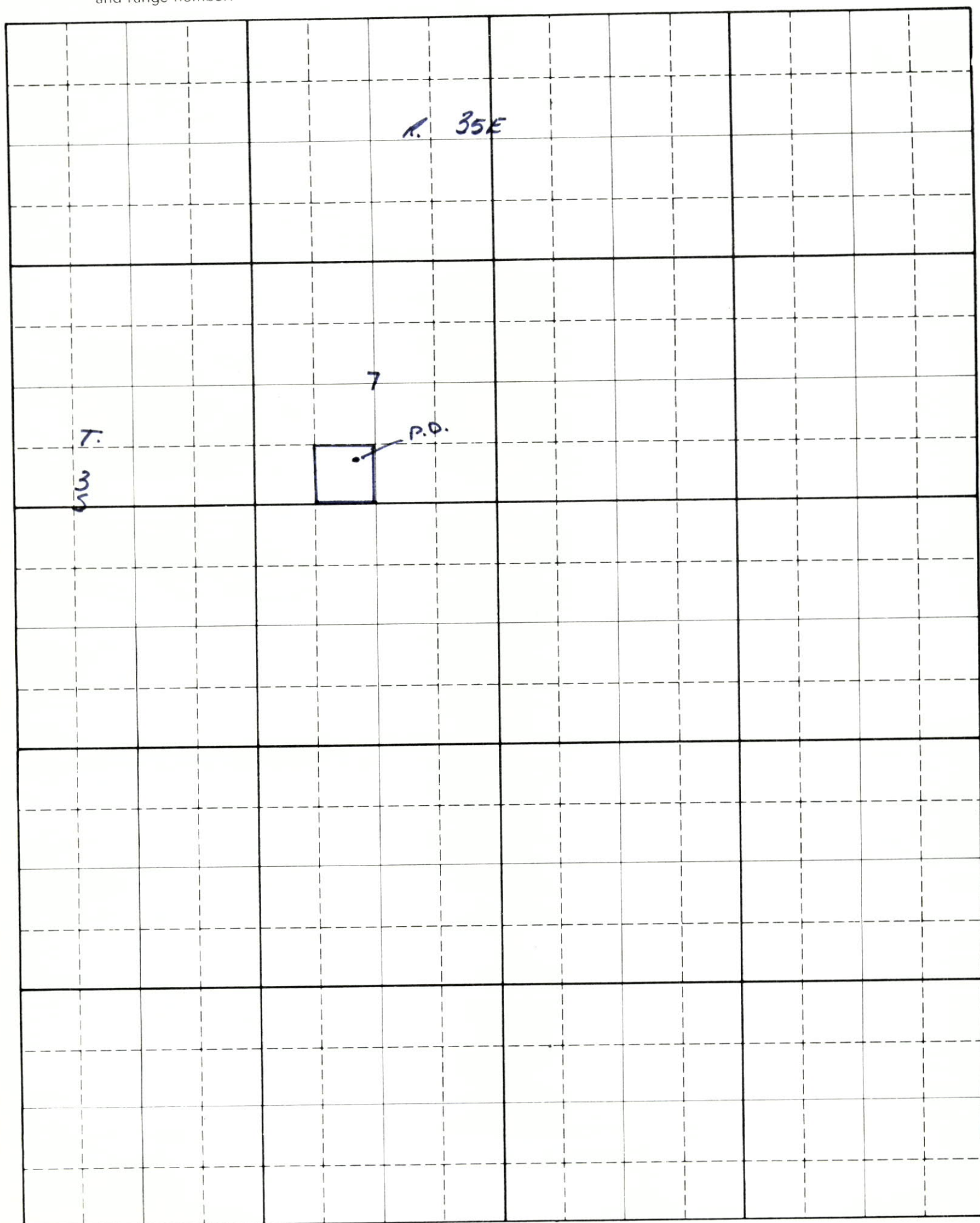


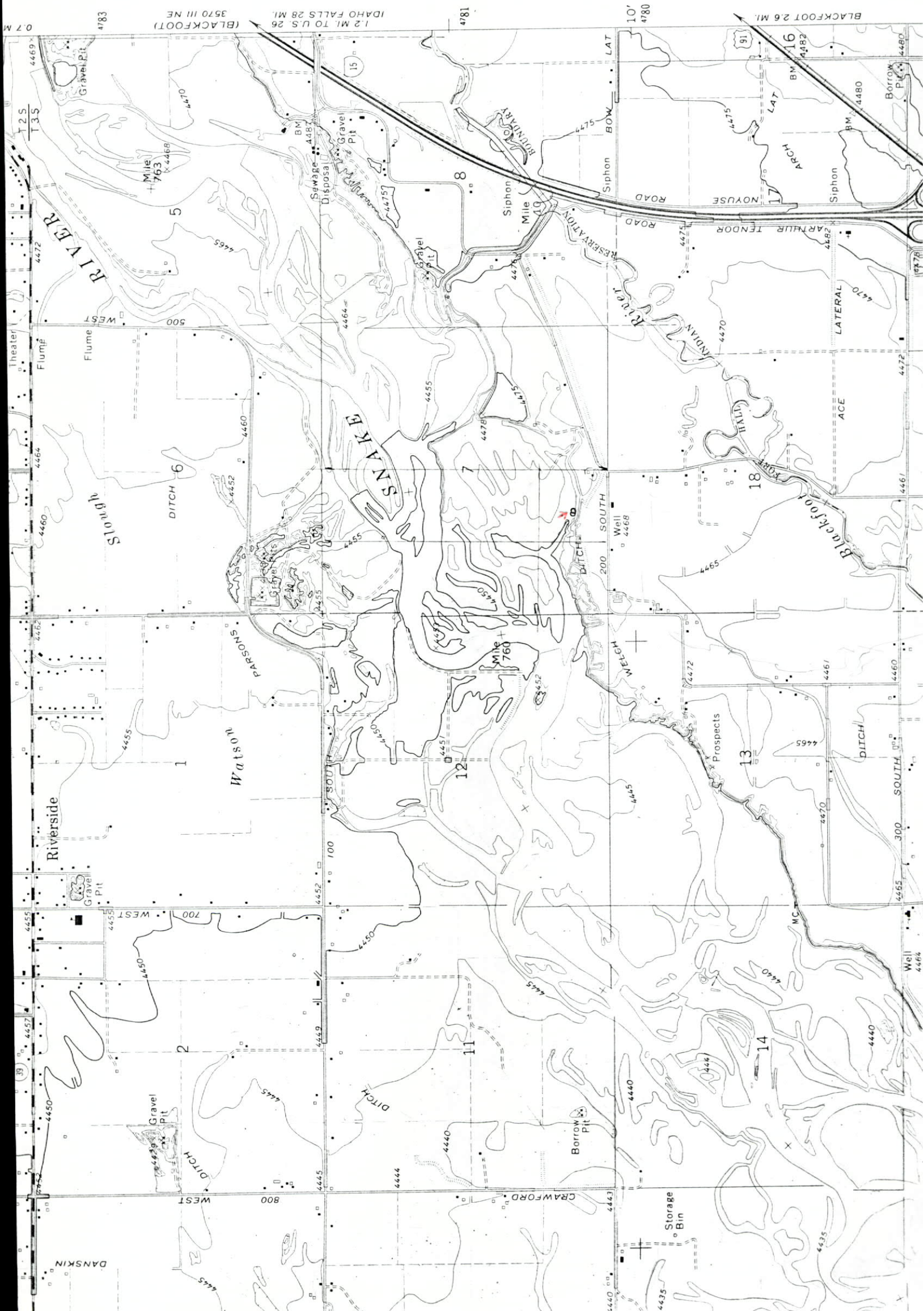
11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.



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.

Marlene Caldwell
(Applicant)



RECEIVED

APR 14 1977

Department of Water Resources
Eastern District Office

AFFIDAVIT of PUBLICATION

County of Bingham)
) ss.
State of Idaho)
I, David Mark Brown do
solemnly

swear that I am the Publisher of
The Blackfoot News which is a daily newspaper of
general circulation published each day except Sunday
at Blackfoot, Bingham County, Idaho, said newspaper
having been so published at Blackfoot, aforesaid for
more than one year past; that said newspaper
heretofore complied with all the provisions of Chapter
154 of the Sessions Laws of Idaho of 1933, approved
March 11, 1933, and duly designated, pursuant to law, a
particular day of the week as the day on which legal
notices required by law or by the order of any Court of
competent jurisdiction within the State of Idaho shall
be published to-wit: Thurs of each week; that the
notice attached hereto and which is a part of this af-
fidavit and part of the proof of publication was,
published in said Thursday

..... issue of said newspaper ...2... consecutive
wks the first publication having been made on
the 24th day of March, 19 77..
and the last publication having been made on the
...31st day of March, 19 77..; that said

notice was published in the regular and entire issue of
every number of the paper as aforesaid during the
period and time of publication, and that notice was
published in the newspaper and not in a supplement.

Subscribed and sworn to before me this 12th

day of April, 19 77..
Patricia A. Johnson
Notary Public for the State of Idaho,
Residing at Blackfoot, Idaho
My commission expires
Oct. 20, ~~1976~~ 1980

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that
Zane Caldwell & or Marlene
Caldwell, Blackfoot, Idaho,
have on 3-14-77, submitted
Application No. 27-7079, for a
permit to appropriate 0.78 cubic
feet per second of water from a
ground-water source by means
of well and pump within the
SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 7, T. 3S, R. 35E,
B.M., Bingham County; to be
used from Apr. 1 to Nov. 1 for

the irrigation of 39 acres within
the SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 7, T. 3S, R.
35E, B.M.

If issued, this permit will be
subject to all prior water rights.
Protests against the granting of
the permit must be filed with
the Idaho Department of Water
Resources, 1515 Lincoln Road,
Idaho Falls, Idaho, 83401, on or
before April 11, 1977.

R. KEITH HIGGINSON
Director
(5021)
Pub.: 3-24-31

307

CEMENTED

R35E

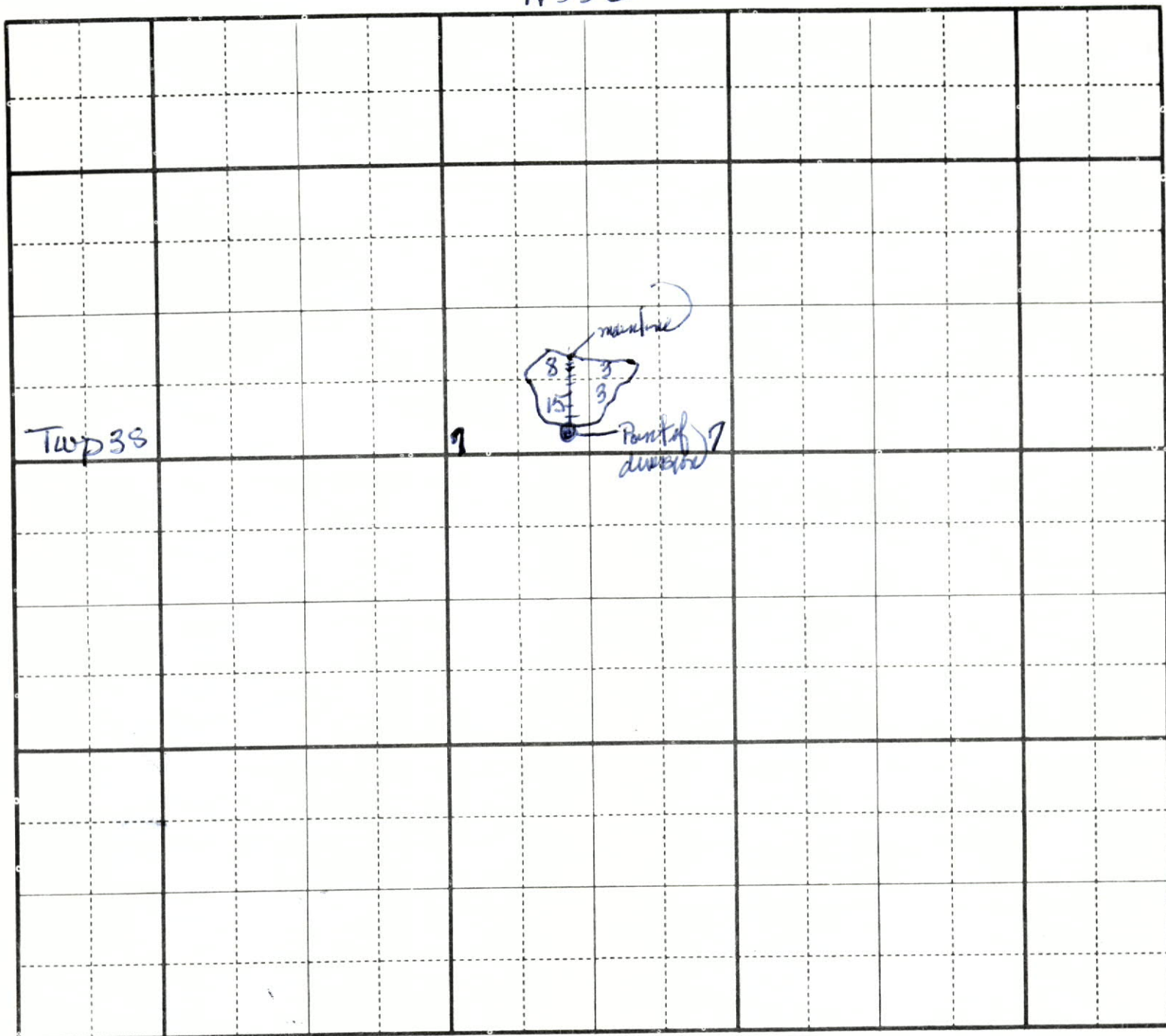
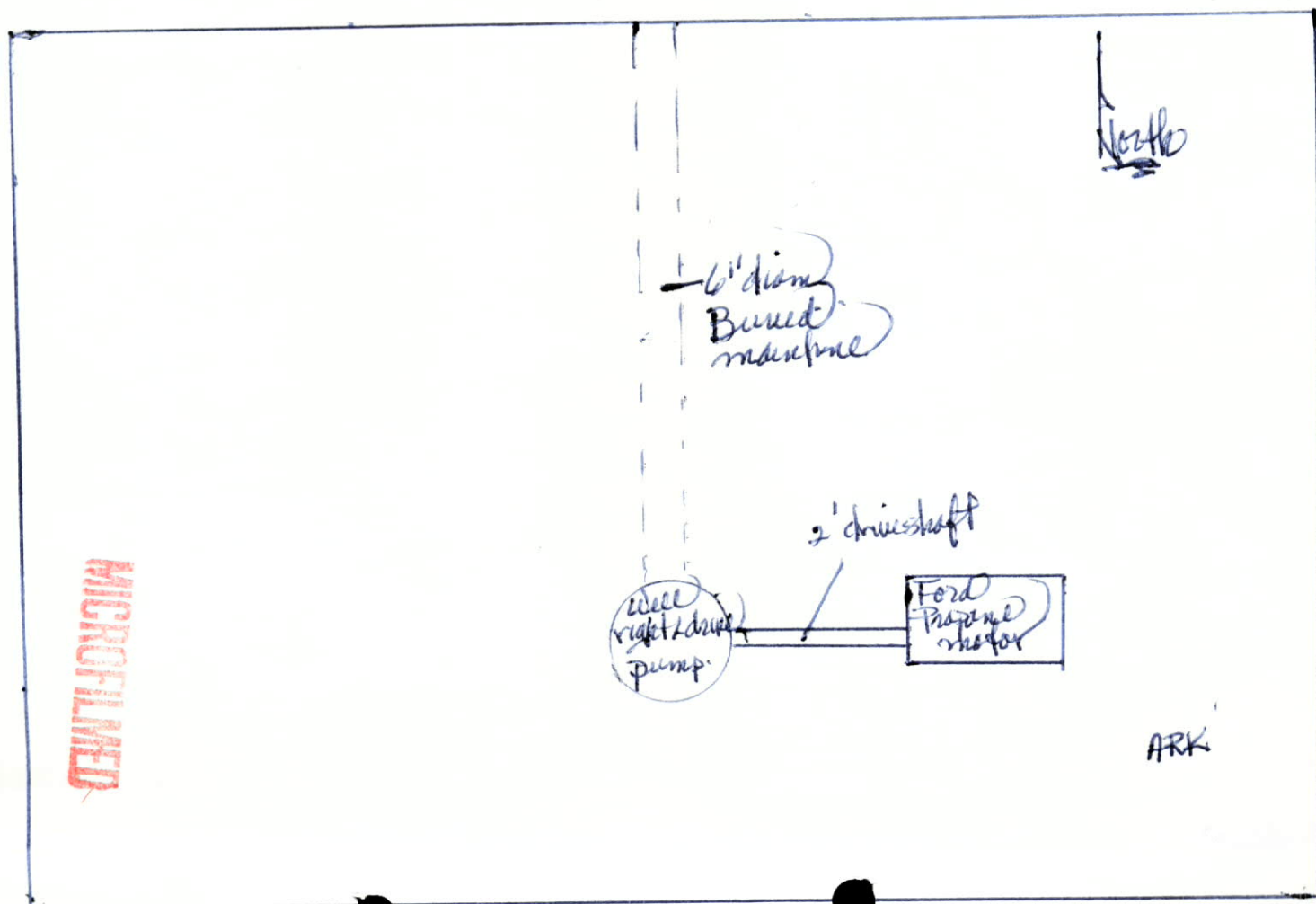
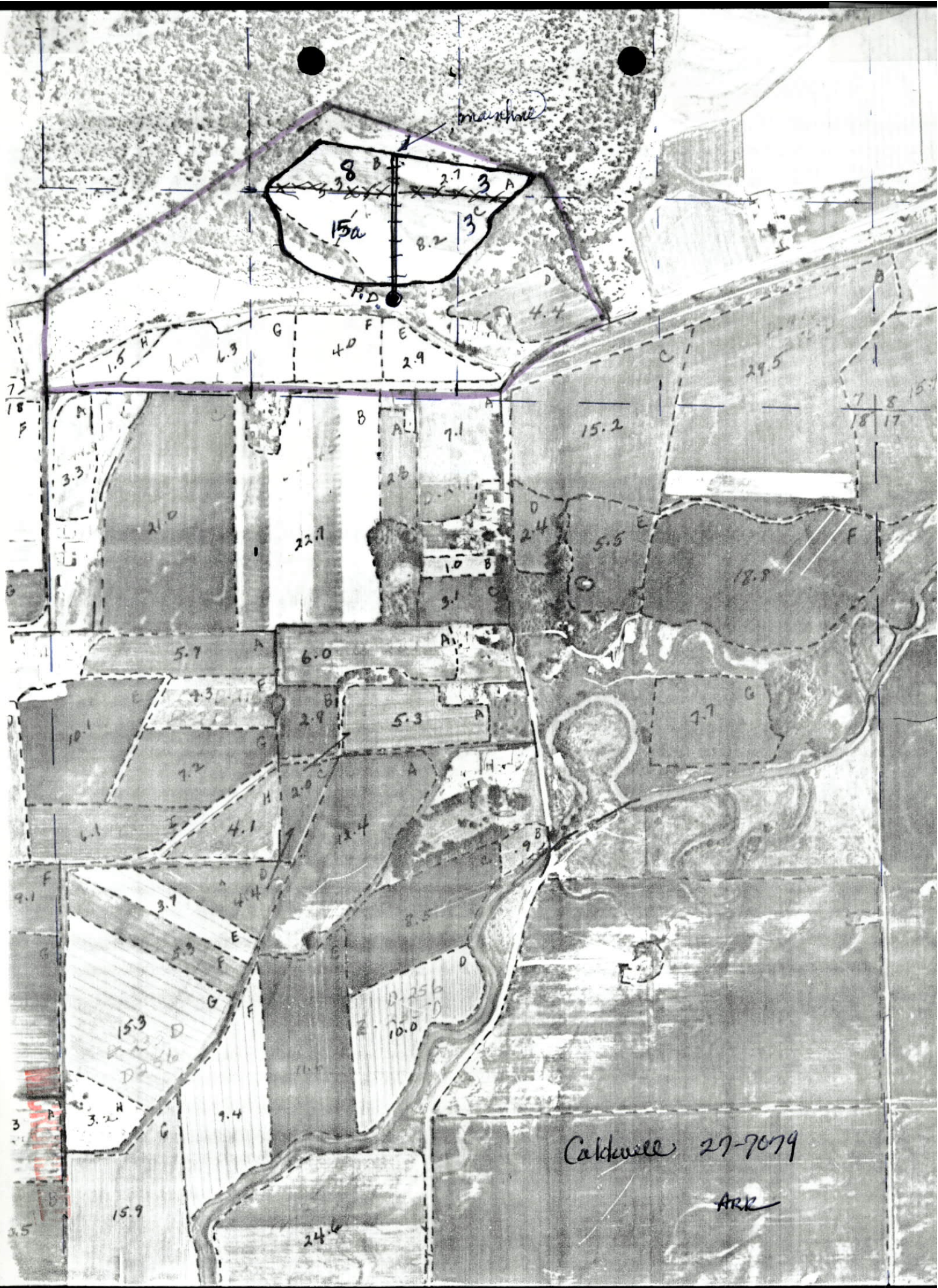


Diagram of System





Caldwell 27-7079

ARK

HARPER MORGAN & ASSOCIATES

800 West Judicial P. Box 441
BLACKFOOT, IDAHO 83221
Phone 785-2977

PROJECT NO.

CALCULATED BY

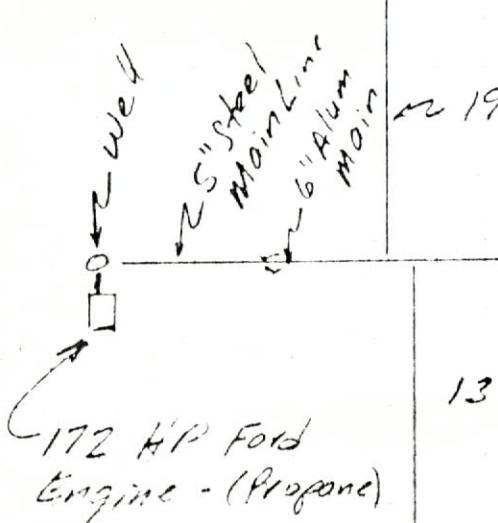
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SCALE

OF

DATE

DATE



19 - 11/64 Rain Bird Nozzels

13 11/64 Rain Bird Nozzels Operating

172 HP Ford Engine - (Propane)

	GPM
9 Nozzels @ 43 psig	9 x 5.6 = 50.4
5 Nozzels @ 44 psig	5 x 5.7 = 28.5
4 Nozzels @ 45 "	4 x 5.8 = 23.2
8 " @ 46 "	8 x 5.9 = 47.2
4 " @ 47 "	4 x 6.0 = 24.0
2 " @ 48 "	2 x 6.1 = 12.2
	<u>185.5</u>

Total Flow = 185.5 gallons per minute

$$185.5 \text{ g/min} \times \frac{1 \text{ min}}{60 \text{ sec}} \times \frac{1 \text{ cft}}{7.48 \text{ gal}} = 0.41 \text{ cfs}$$

MICROFILMED



HARPER MORGAN & ASSOCIATES

800 West Judicial P. O. Box 441

BLACKFOOT, IDAHO 83221

Phone 785-2977

JOB

78274

SHEET NO.

1

OF

1

CALCULATED BY

JJH

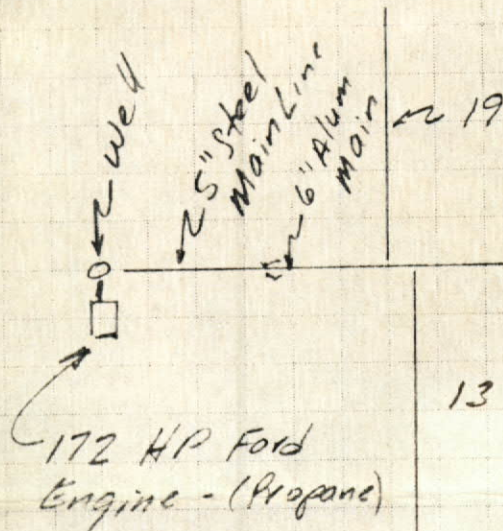
DATE

11-2-78

CHECKED BY

DATE

SCALE



19 - 11/64 Rain Bird Nozzels

13 11/64 Rain Bird Nozzels operating

	GPM
9 Nozzels @ 43 psig	9 x 5.6 = 50.4
5 Nozzels @ 44 psig	5 x 5.7 = 28.5
4 Nozzels @ 45 "	4 x 5.8 = 23.2
8 " @ 46 "	8 x 5.9 = 47.2
4 " @ 47 "	4 x 6.0 = 24.0
2 " @ 48 "	2 x 6.1 = 12.2
	<u>185.5</u>

Total Flow = 185.5 gallons per minute

$$185.5 \text{ g/min} \times \frac{1 \text{ min}}{60 \text{ sec}} \times \frac{1 \text{ cft}}{7.48 \text{ gal}} = 0.41 \text{ cfs}$$



State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

License of Water Right No. 27-7079 Priority March 14, 1977 Amount .41 cfs

THIS IS TO CERTIFY, that Zane Caldwell &/or Marlene Caldwell
of Blackfoot, ID, has complied with the terms and conditions of Permit
No. 27-7079 issued pursuant to Application for Permit dated March 14, 1977,
and has submitted proof to the Department of Water Resources on November 8, 1978,
that he has applied water to a beneficial use; an examination by the Department indicates that the works have a
capacity for the diversion of .41 cfs of water from a groundwater source,
tributary to _____, and that the permit holder has applied to a beneficial use and
established a right to use water as follows:

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
<u>Irrigation</u>	from <u>April 1</u> to <u>Nov 1</u>	at <u>.41</u> cfs and	<u>101.5</u> acre feet
	from _____ to _____	at _____ cfs and	_____
	from _____ to _____	at _____ cfs and	_____

(both dates inclusive)

Subject, however, to the condition that no more than .41 cfs of water be diverted at any one time, and
that the amount of water so diverted and to which such right is entitled and confirmed is for the purpose
aforementioned and is limited to the amount which can actually be beneficially used and shall not exceed
101.5 acre feet per year, said waters to be diverted within the SESW Section 7, Twp 3S,
Rge 35E B.M. in the County of Bingham

Description and location of place of use:

Twp.	Range	Sec.	NEW				NW¼				SW¼				SE¼				Totals
			NEW	NW¼	SW¼	SE¼	NEW	NW¼	SW¼	SE¼	NEW	NW¼	SW¼	SE¼	NEW	NW¼	SW¼	SE¼	
3S	35E	7									8			15			3	2	29

Total number of acres irrigated 29

NOTE: Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho Law. This right may be forfeited by five years of non-use.

The right to the use of the water hereby confirmed is restricted and appurtenant to the lands or place of use herein described, as provided by the laws of Idaho.

Witness the seal and signature of the Director, affixed at Boise, Idaho, this 29TH day of
July _____, 19 82.

For the Director

Der

STATE OF IDAHO

RECEIVED

LICENSING

JUL 19 1982

APPLICATION FOR AMENDMENT OF A PERMIT

Department of Water Resources

To change the point of diversion and/or the place of use.

Comes now Zane Caldwell &/or Marlene Caldwell Phone _____
of (address) Route #3, Box 56, Blackfoot, ID 83221, 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. 27-7079, and requests that the permit and permit map be changed as follows:

- NO CHANGE
1. Point of diversion: SE 1/4 SW 1/4, Section 7, Township 3S, Range 35E B.M.,
County of BINGHAM. Other points of diversion: _____

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)

Amount 0.41 for irrigation purposes from 4/1 to 11/1 (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)

3. Place of use or land to be irrigated:

TWP	RGE	SEC	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTALS
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
3S	35E	7									8			15		3	3		29

Total number of acres to be irrigated = 29

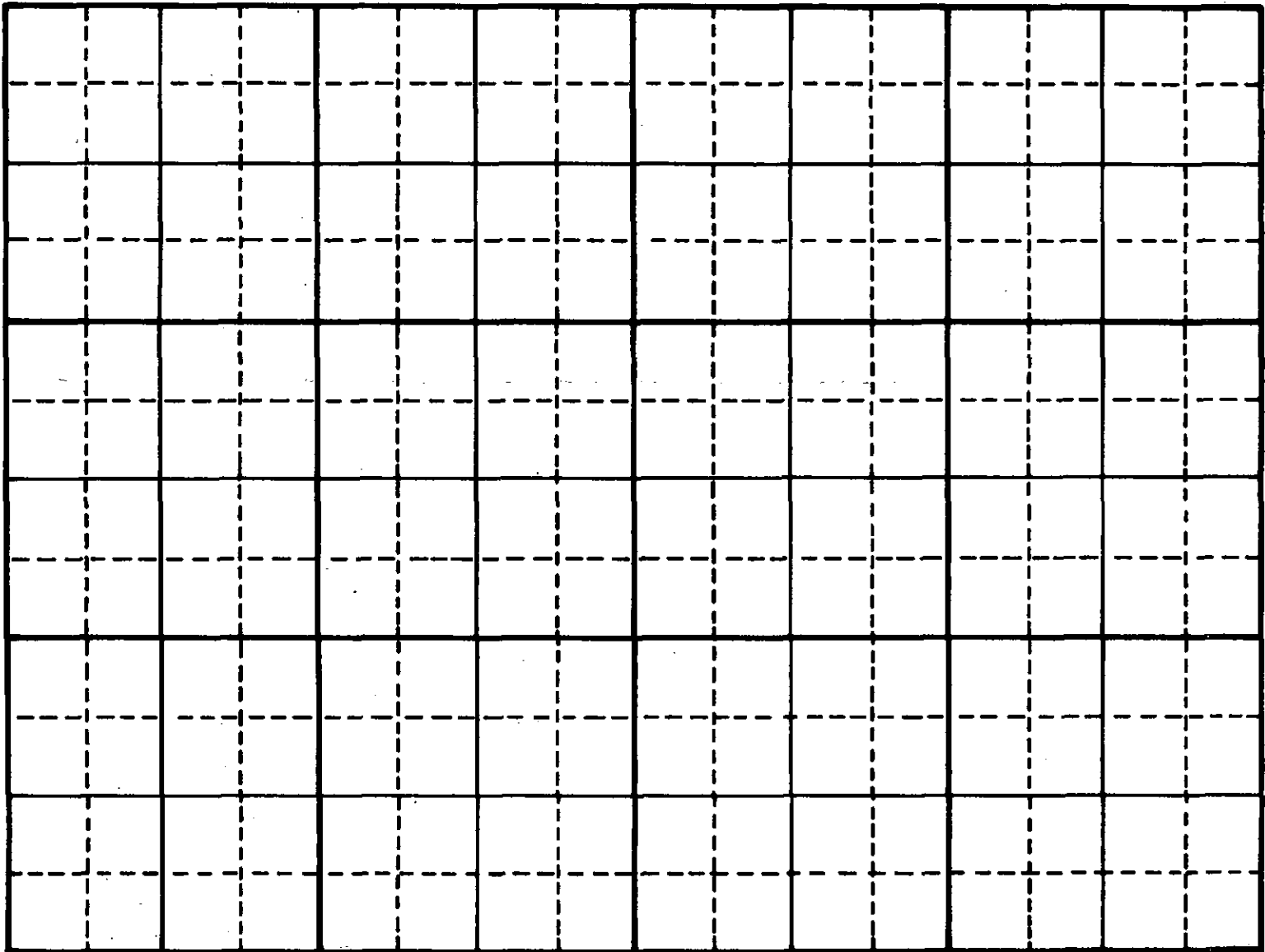
4. a. Who owns the property at the point of diversion? Zane Caldwell &/or Marlene Caldwell
b. Who owns the land to be irrigated or the place of use? Zane Caldwell &/or Marlene Caldwell
c. If the property is owned by a person other than the applicant, describe the arrangement enabling the
applicant to make this filing: _____

MICROFILMED

Complete the following map by showing land and point of diversion as proposed by this amendment.

Show 40-acre subdivisions, townships, ranges and ditches.

NOT NECESSARY



Scale: 2 inches equal 1 mile.

That no one will be injured by such change, and that such change will be made at permit holder's own risk.

Signed at 7:00 A M, this 16 day of July, 19 82

Zane Caldwell
(Signature)
Marlene Caldwell

FOR DEPARTMENT USE ONLY

24524

Preliminary check by RC Fee = \$20.00

Received by sg Date 7-28-82

Publication prepared by W/A Date _____

Published in _____

Publication dates _____

ACTION OF THE DEPARTMENT OF WATER RESOURCES

I, A. KENNETH DUNN, of the Department of Water Resources hereby

APPROVE the above Application for Amendment for Permit No. 27-7079.

Witness my hand this 29TH day of July, 19 82.

Don C. Young
For the Director

DRR

Identification No. 27 7079
Application No. _____

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

APPROVED

To Appropriate the Public Waters of the State of Idaho
(TYPE OR PRINT IN INK)

1. Name of applicant Zane Caldwell &/or Marlene Caldwell Phone: 785-1283
post office address Rt. #3, Box 56, Blackfoot, ID 83221
2. Source of water supply ground water which is a tributary of _____
3. a. Location of point of diversion is SE $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 7 Township 3S
Range 35E B.M. Bingham County; additional points of diversion if any: _____

- b. If water is not consumed, it will be discharged into _____ at a point in _____ $\frac{1}{4}$
of _____ $\frac{1}{4}$ of Section _____ Township _____ Range _____ B.M. _____
4. Water will be used for the following purposes:
Amount 0.78 for irrigation purpose from Apr. 1 to Nov. 1 (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purpose from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
Amount _____ for _____ purpose from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)
5. Total quantity to be appropriated:
a. 0.78 cubic feet per second and/or
b. _____ acre feet per annum.
6. Proposed diverting works:
a. Description of ditches, flumes, pumps, headgates, etc. well, pump and sprinkler system

- b. Height of storage dam _____ feet, active reservoir capacity _____ acre feet; total reservoir
capacity _____ acre feet, materials used in storage dam: _____
Period of year during which storage will occur _____ to _____ inclusive.
(Mo. Day) (Mo. Day)
- c. Proposed well diameter is 12 inches; proposed depth of well is 45 feet.
7. a. Time required for the completion of the works and application of the water to the proposed beneficial use
is 5 years.
b. Estimated construction cost is \$ _____.
8. Description of proposed uses:
a. If water is **not** for irrigation:
(1) Give the place of use of water: _____ $\frac{1}{4}$ of _____ $\frac{1}{4}$ of Section _____ Township _____
Range _____ B.M. _____
(2) Amount of power to be generated: _____ hp under _____ feet of head.
(3) List number of each kind of livestock to be watered _____

(4) Name of municipality to be served _____, or number of families to be
supplied with domestic water _____.
(5) If water is to be used for other purposes describe: _____

MICROFILMED

b. If water is for irrigation, indicate acreage in each subdivision in the tabulation below:

TWP.	RANGE	SEC.	NE¼				NW¼				SW¼				SE¼				TOTALS
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
3S	35E	7												39					39

Total number of acres to be irrigated 39

c. Describe any other water rights used for the same purposes as described above. surface rights

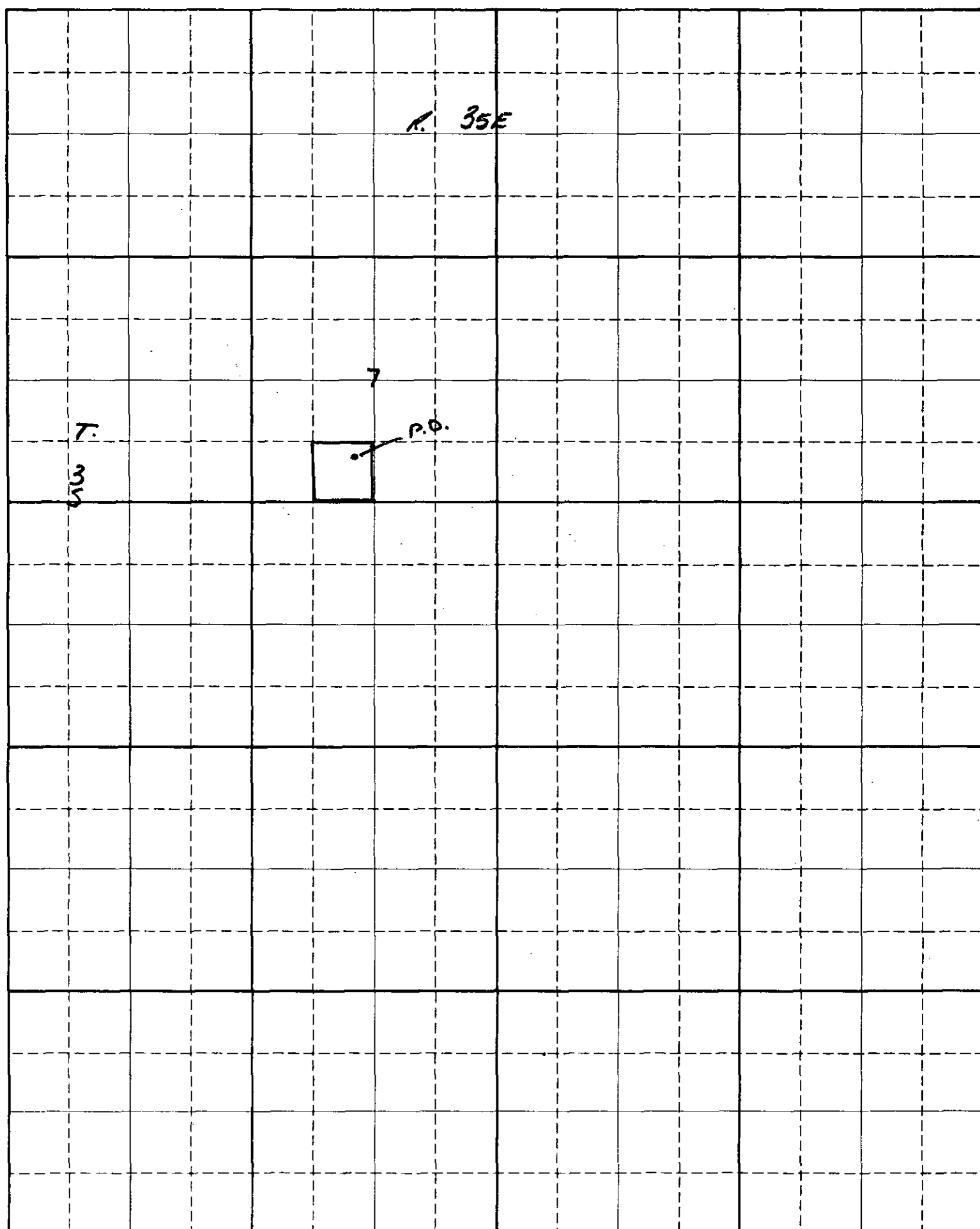
9. a. Who owns the property at the point of diversion Applicant

b. Who owns the land to be irrigated or place of use Applicant

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing _____

10. Remarks _____

11. 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.

Marlene Caldwell
(Applicant)

Proposed Priority 3/14/77

Received by me Date 3-14-77 Time 4:09

Preliminary check by BR Fee \$ 25.00

Receipted by CW Date 3-14-77 # 6443

Publication prepared by CW Date 3-18-77

Published in Blackfoot News

Publication dates Mar. 24+31, 1977

Publication approved me Date 4-14-77

Priority reduced to _____ Reason _____

Protests filed by: _____

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by ig

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. 27-7079, and said application is hereby APPROVED.

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

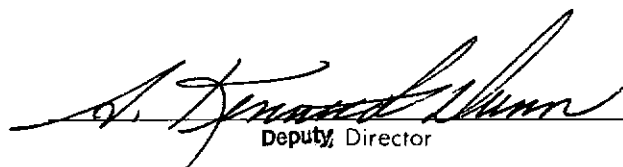
a. SUBJECT TO ALL PRIOR WATER RIGHTS.

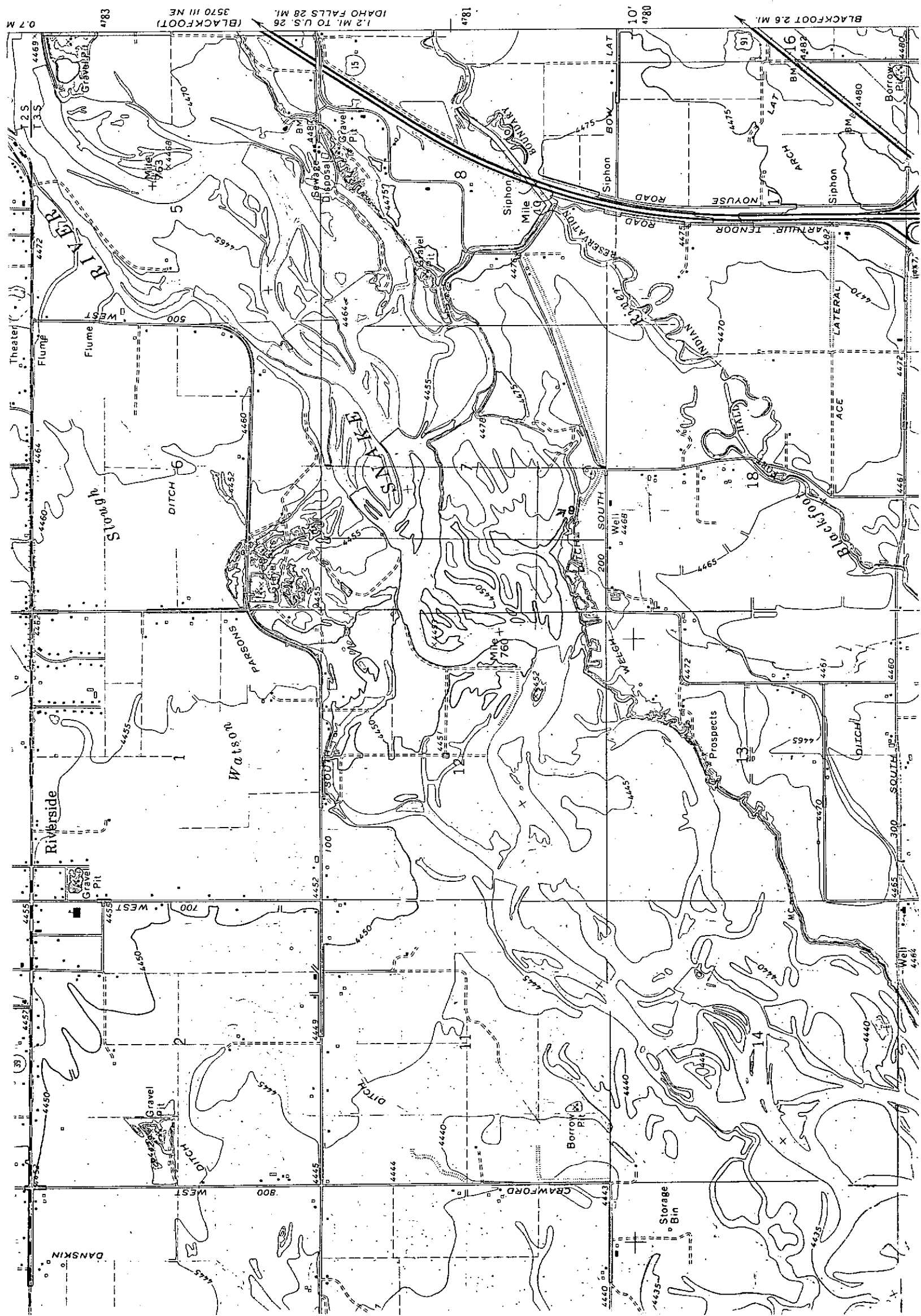
b. Proof of construction of works and application of water to beneficial use shall be submitted on or before May 1, 19 82.

c. Other: A measuring device of a type approved by the Director shall be permanently installed and maintained as part of the diverting works.

The rate of diversion of water for irrigation under this permit and all other water rights on the same land shall not exceed 0.02 cubic feet per second for each acre of land.

Witness my hand this 11 day of May 19 77.


Deputy, Director



RECEIVED
APR 14 1977

Department of Water Resources
Eastern District Office

AFFIDAVIT of PUBLICATION

County of Bingham)

State of Idaho) ss.

I, David Mark Brown do
solemnly

swear that I am the Publisher of
The Blackfoot News which is a daily newspaper of
general circulation published each day except Sunday
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having been so published at Blackfoot, aforesaid for
more than one year past; that said newspaper
heretofore complied with all the provisions of Chapter
154 of the Sessions Laws of Idaho of 1933, approved
March 11, 1933, and duly designated, pursuant to law, a
particular day of the week as the day on which legal
notices required by law or by the order of any Court of
competent jurisdiction within the State of Idaho shall
be published to-wit: THURS of each week; that the
notice attached hereto and which is a part of this af-
fidavit and part of the proof of publication was,
published in said Thursday

..... issue of said newspaper 2 consecutive
wks the first publication having been made on
the 24th day of March, 19 77..
and the last publication having been made on the
31st day of March, 19 77..; that said
notice was published in the regular and entire issue of
every number of the paper as aforesaid during the
period and time of publication, and that notice was
published in the newspaper and not in a supplement.

Subscribed and sworn to before me this 12th
day of April, 19 77.....

Patricia A. Johnson
Notary Public for the State of Idaho,
Residing at Blackfoot, Idaho
My commission expires
Oct. 20, ~~1978~~ 1980

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Zane Caldwell & or Marlene
Caldwell, Blackfoot, Idaho,
have on 3-14-77, submitted
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B.M., Bingham County; to be
used from Apr. 1 to Nov. 1 for

the irrigation of 39 acres within
the SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 7, T. 3S, R.
35E, B.M.

If issued, this permit will be
subject to all prior water rights.
Protests against the granting of
the permit must be filed with
the Idaho Department of Water
Resources, 1515 Lincoln Road,
Idaho Falls, Idaho, 83401, on or
before April 11, 1977.

R. KEITH HIGGINSON
Director
(5021)
Pub.: 3-24-31

RECEIVED

August 6, 1982

RE: Permit No. 27-7079

Zane Caldwell &/or Marlene Caldwell
Route #3, Box 98
Blackfoot, ID 83221

Dear Mr. and Mrs. Caldwell:

Enclosed herewith is a copy of your Water Right License issued on the above referenced permit along with a copy of your approved application for amendment. Also enclosed is Departmental Receipt No. 24524 in the amount of \$20.00.

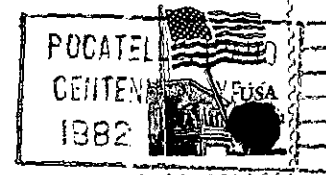
Should you have any questions regarding these documents, please feel free to contact our office.

Sincerely,

JIM JOHNSON
Water Distribution Supervisor

JJ:kw
Enclosures

Gene & Marlene Caldwell
Route # 3 Box 98
Blackfoot, Idaho



MICROFILMED

State of Idaho
Department of Water Resources
450 W. State Street
Boise Idaho
83720



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

Mailing address:

Statehouse

Boise, Idaho 83720

(208) 334-4440

June 29, 1982

RE: Permit No. 2707079

Zane Caldwell &/or Marlene Caldwell
Route #3, Box 56
Blackfoot, ID 83221

Dear Mr. and Mrs. Caldwell:

A representative of this Department made an examination of the works covered by your Permit No. 27-7079 and has found the following:

Amount of water that can be recognized as beneficially used under
Idaho law: 0.41 cfs Source: groundwater

The maximum quantity diverted shall not exceed 101.5 acre feet
per year.

Point of diversion: SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 7, Twp. 3S, Rge. 35E, Bingham County

Beneficial use: Irrigation of 29 acres within the E $\frac{1}{4}$ SW $\frac{1}{4}$, W $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 7,
Twp. 3S, Rge. 35E

Priority date established: March 14, 1977

In order for the Department to issue the above license, it will be necessary for you to amend the permit to correspond with the findings of the field examiner. We are enclosing a partially completed amendment form for your use in this matter.

Please sign the amendment application and return it to this office along with a \$20.00 filing fee within 30 days in order that we might issue your license as set forth above. If you do not concur with these findings or have any questions, please contact us within the 30-day period.

Sincerely,

JIM JOHNSON
Water Distribution Supervisor

JJ:kw
Enclosure

RECORDED

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

Owner's Permit No. 27-92-E-020

☐ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

☐ Domestic ☒ Irrigation ☐ Tank ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other (specify type)

☒ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other

Discriminates access port _____

Describe the position or temperature zones below:

[illegible]

Work started 5/12/92 finished 5/13/92

County Bingham

and

(Operator) *Robert Maxson*

FIELD REPORT

3. Water will be used for the following purposes:

Other uses: _____

4. Total amount to be appropriated:

Max Rate of Diversion 0.78 cubic feet per second and annual volume _____ AF/Annum.

5. Location of Point(s) of Diversion:

Township 35 N/S, Range 35E E/W, B.M., Section 7, Subdivision SE 1/4 SW 1/4 Bingham
County

Township _____ N/S, Range _____ E/W, B.M., Section _____, Subdivision _____ 1/4 _____ 1/4, _____

Township _____ N/S, Range _____ E/W, B.M., Section _____, Subdivision _____ 1/4 _____ 1/4 _____

Other Points of Diversions: _____

Description of diverting works: 20 Hp gear head pump, 17.2 Hp Ford industrial engine motor, 12" x 4.5'

Measuring device required: yes ☒ no ☐

6. Lands to be irrigated or place of use.

[illegible]**TOTAL ACREAGE**

Permit No. 21-1019

Examination for 6/2

R35E

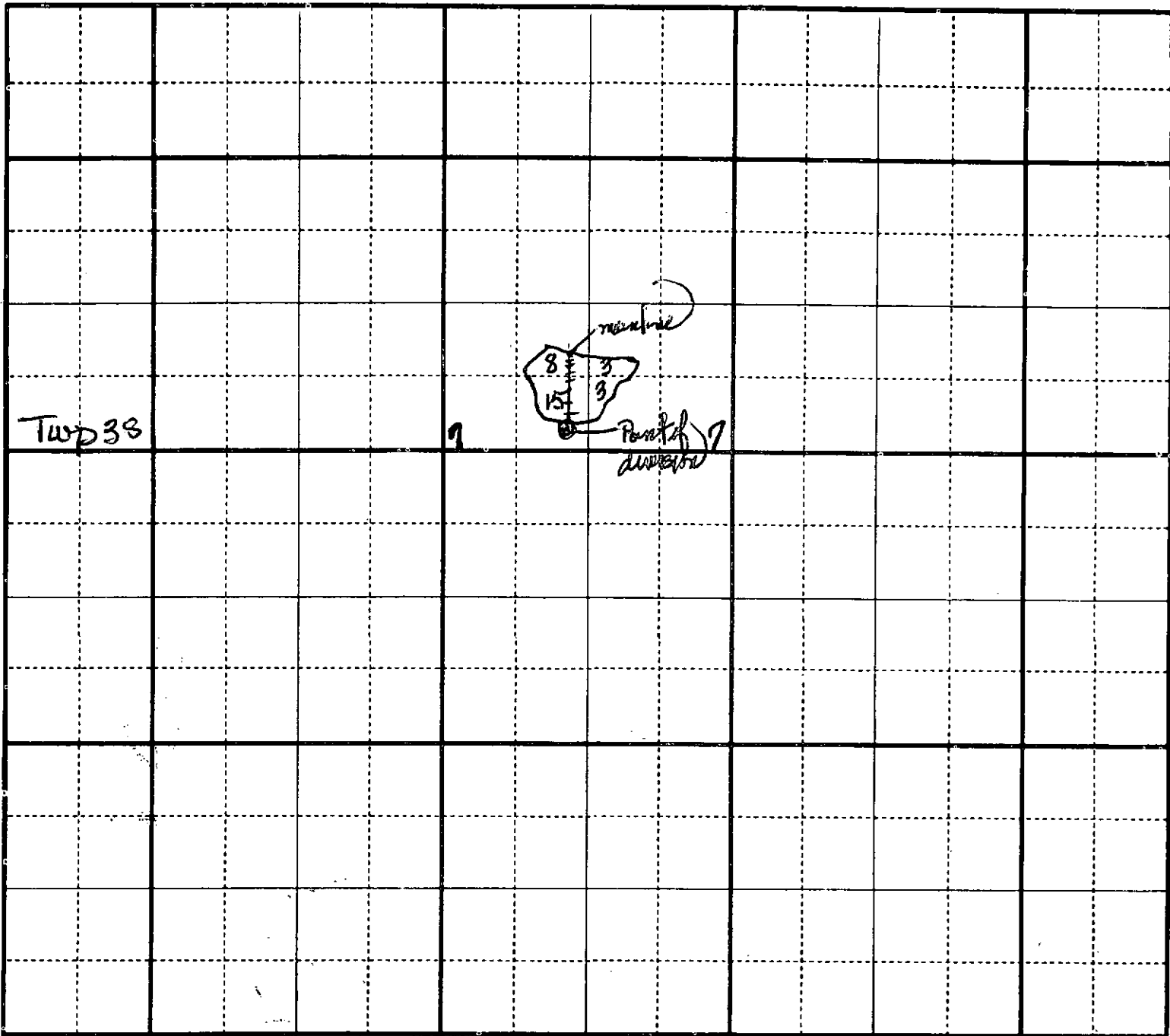
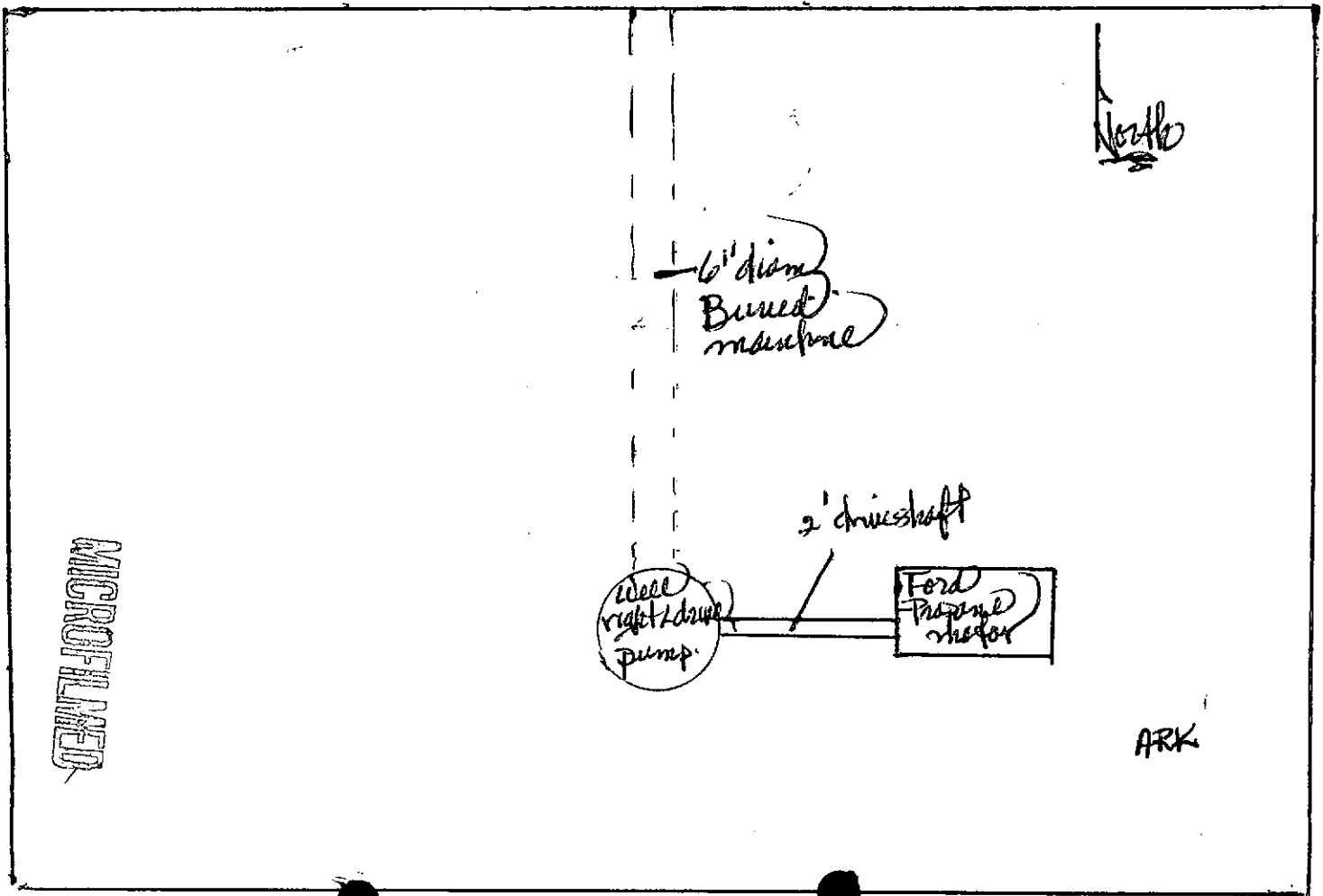


Diagram of System



DATE OF EXAM 17th day of May, 1979

ACREAGE
Found 290
Recommended 290

Irrigation Requirement 3.5 Ac Ft/Ac

USE
Irrigation Q = .41 c.f.s. V = 101.5 AF/Ann. from April 1 to Nov. 1
Domestic Q = _____ c.f.s. V = _____ AF/Ann. from _____ to _____
Livestock Q = _____ c.f.s. V = _____ AF/Ann. from _____ to _____

Is water co-mingled? yes _____ no X

Name source: n/a
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County _____

Exchange? yes _____ no X

Name source exchanged with: n/a
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County _____

Point of injection: n/a
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County _____

Point of exchange: n/a
twp. _____ N/S, Rge _____ E/W, B.M., Sec. _____, Sub. _____ 1/4 _____ 1/4 _____ County _____

Total Q measured .41 cfs Method of measurement Certified Professional Engineer's measurement

Total Q recommended .41 cfs Meter No. n/a Type n/a Condition n/a

Total V recommended 101.5 AF/yr

Recommended Amendments:

P.O. _____
Place of Use See rough draft amendment
Other _____
None _____

MEASUREMENT CALCULATION:

Measurement (pitot tube) submitted by John T. Harper, professional engineer
Capacity $Q = .41 \text{ cfs}$ See attachment.
 $\text{Volume} = 290 \times 3.5 \text{ AF/a/yr} = 101.5 \text{ AF/yr} < 1.9835 \times 214 \times .41 = 174 \text{ AF/yr}$

SYSTEM DESCRIPTION:

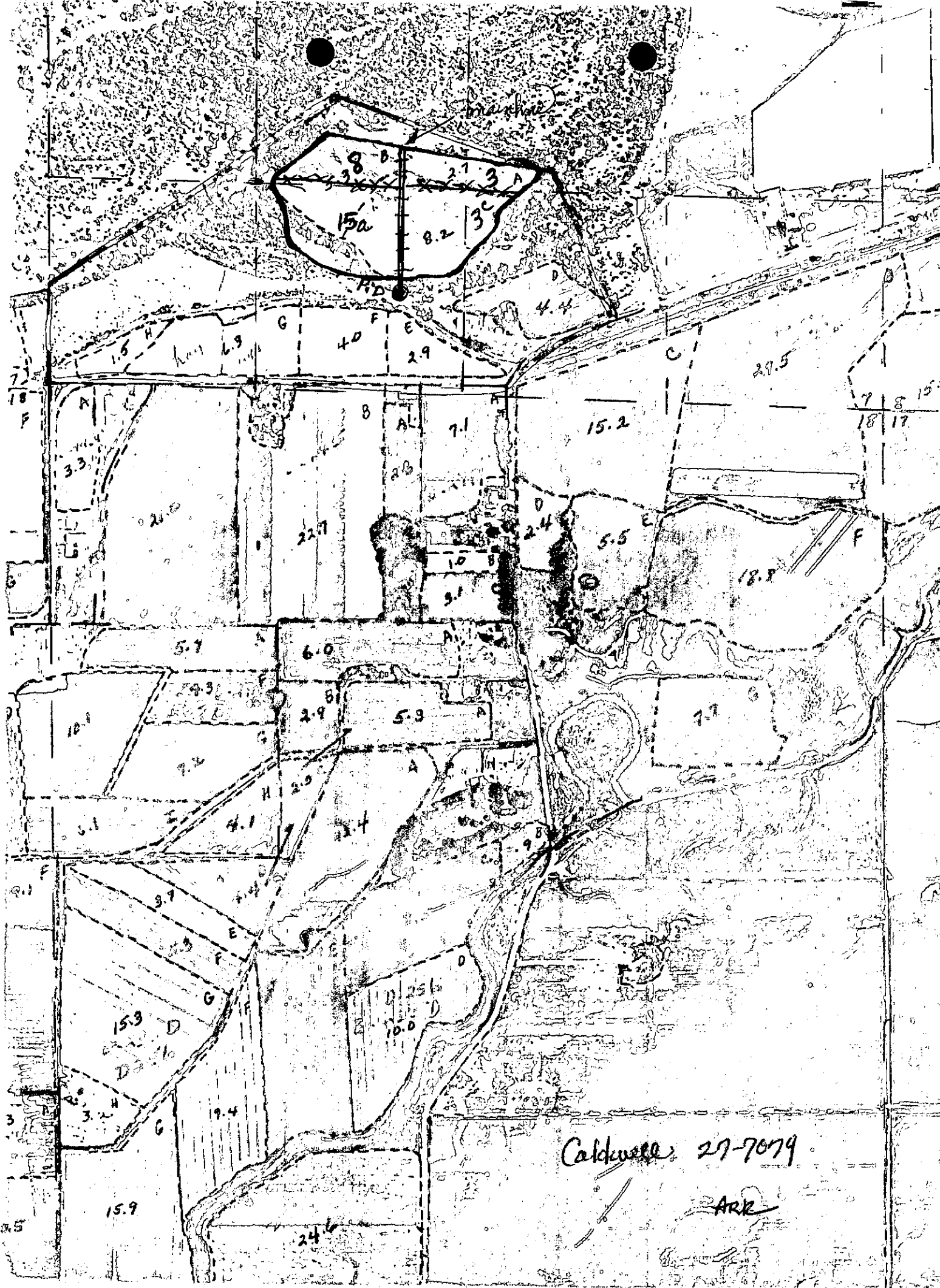
Groundwater is diverted from a 12" diam cased well by a 172 H.P. Ford propane motor equipped with a Rockford P.T.O. Ser - 514917 m/c - HTA-5887 and by a U.S. Motors "Hollowshaft" right angle drive, I.D. # 2100-CO-C-93T B167R021 and by a Walbro vertical turbine pump # 400 - casing extends 3" above ground, 6" buried maximum extends north from the pump. The acreage is irrigated by 1-19 jet. REMARKS: handline and 1-13 jet handline - all nozzles are 1/2".

Examiner's Signature Anthony R. Kozlowski Date Dec 5, 1979

Checked by John D. Corbin Date 4/11/80

Approved by Kozlowski Date 6/24/82

MICROFILMED



Caldwell 27-7079

ARK

HARPER, MORGAN & ASSOCIATES

Engineering and Surveying

800 W. Judicial • P.O. Box 441 • Ph. (208) 785-2977 • Blackfoot, Idaho 83221

CIVIL — STRUCTURAL — BUILDINGS — SUBDIVISIONS

November 2, 1978

RECEIVED
NOV 8 1978

Dept. of Lands & Resources
Eastern District Office

Mr. Zane Caldwell
Route 3, Box 56
Blackfoot, Idaho 83221

Dear Zane:

On November 2, 1978, I measured the pressure at each nozzle of your sprinkler system. The pressure gauge at the pump indicated a pressure of 55 psi. The pressure at the 1 1/64" nozzles varied from 43 psi at the end of the line to 48 psi near the main line as measured with an Ashcroft 3129-405 Pitot tube pressure gauge.

By using a Rain Bird calculator that indicates nozzle flow based upon nozzle pressure the flow was calculated as shown on the accompanying calculation sheet. The flow calculated on this basis is 185 gallons per minute or 0.41 cubic feet per second.

We hope this will be the information you need for your well located in the SW 1/4 of Section 7, Township 3 South, Range 35 East Boise Meridian.

Please call if more information is required.

Thank you for the opportunity to serve you.

Sincerely,

HARPER, MORGAN & ASSOCIATES, INC.

John J. Harper
John J. Harper, P.E.

JJH:ds

Encl

MICROFILMED

MICROFILMED

HARPER MORGAN & ASSOCIATES

800 West Judicial P. Box 441

BLACKFOOT, IDAHO 83221

Phone 785-2977

JOB

10417

SHEET NO.

11

OF

1

CALCULATED BY

JH

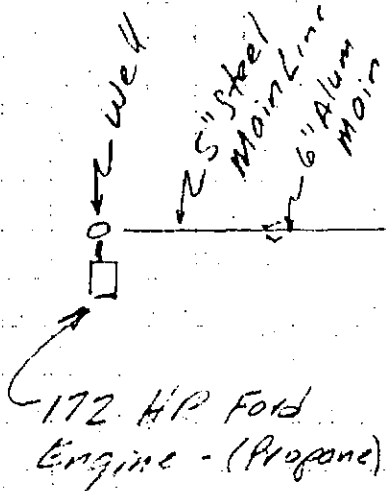
DATE

11-2-78

CHECKED BY

DATE

SCALE



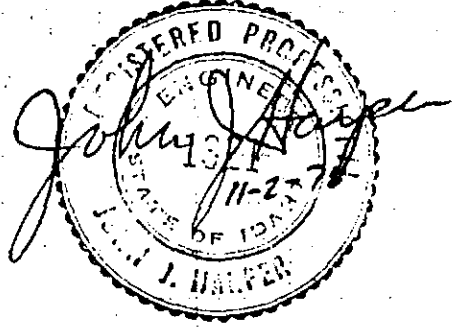
19 11/64 Rain Bird Nozzels

13 11/64 Rain Bird Nozzels Operating

		GPM
9 Nozzels @ 43 psig	$9 \times 5.6 =$	50.4
5 Nozzels @ 44 psig	$5 \times 5.7 =$	28.5
4 Nozzels @ 45 "	$4 \times 5.8 =$	23.2
8 " @ 46 "	$8 \times 5.9 =$	47.2
4 " @ 47 "	$4 \times 6.0 =$	24.0
2 " @ 48 "	$2 \times 6.1 =$	12.2
		<u>185.5</u>

Total Flow = 185.5 gallons per minute

$$185.5 \text{ g/min} \times \frac{1 \text{ min}}{60 \text{ sec}} \times \frac{1 \text{ cfs}}{7.48 \text{ gal}} = 0.41 \text{ cfs}$$



MICROFILMED

IDENT. NO. 22-7079

I D A H O D E P A R T M E N T O F W A T E R R E S O U R C E S

WATER RIGHT
DATA ENTRY LOG

[illegible]



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 373 W. Franklin Street, Boise, Idaho

JOHN V. EVANS

Governor

C. STEPHEN ALLRED

Director

Mailing address:

Statehouse

Boise, Idaho 83720

(208) 384-2215

November 16, 1978

Zane and/or Marlene Caldwell
Route 3, Box 56
Blackfoot, ID 83221

Dear Mr. and Mrs. Caldwell:

Re: Permit No. 27-7079

We acknowledge receipt of the affidavit submitted as proof of beneficial use for the above referenced permit.

Before a license can be issued, a field examination must be made by a representative of this Department. We cannot tell just when this examination will be made, but our examiner will try to contact you at the time he makes the examination so that you may show him the system.

If you have any questions regarding the field examination, please contact our regional office in Idaho Falls.

Sincerely,

RITA FLECK
Water Rights

MICROFILMED

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECEIVED

NOV 8 1978

Department of Water Resources
Eastern District

PROOF OF APPLICATION
OF WATER TO BENEFICIAL USE

1. a) Name of permit holder Zane Caldwell &/or Marlene Caldwell
b) Post office address Rt. #3, Box 56, Blackfoot, Idaho 83221
2. Permit number 27-7079
3. Date of priority that you are prepared to establish 3-14-77
4. a) Source from which water was appropriated groundwater
b) Location of the point of diversion: SE 1/4 SW 1/4, Section 7
Township 3S, Range 35E Boise Meridian. Other points of diversion: _____
5. a) The amount of water and use to which the water has been applied:
Amount 0.41 for Irrigation purposes from Apr. 1 to Nov. 1 incl.
(cfs &/or acre-feet per annum) (month-day) (month-day)
Amount _____ for _____ purposes from _____ to _____ incl.
(cfs &/or acre-feet per annum) (month-day) (month-day)
Amount _____ for _____ purposes from _____ to _____ incl.
(cfs &/or acre-feet per annum) (month-day) (month-day)
b) Total amount appropriated 0.41 cfs and/or acre-feet per annum.
c) Describe how and by whom measurement of rate of flow or amount of storage was made and the qualifications of the person making the measurement:
See attached letter
6. If the means of diversion and conveyance are owned by someone other than the permit holder:
a) Give the name or description of the canal, ditch or other works by which the water is conducted to the place of use:

b) Describe the agreement of understanding by which you take water from the works: _____
7. a) Briefly describe the works for diverting and conveying the water to the place of use, (if from a subterranean source, give the pump size, motor size, size of well casing, depth of well; if from surface water, give brief description of diversion structure and/or canal or ditch):
pump size 20 Hp gear head; motor size 172 hp Ford industrial engine (propane)
12" well casing depth of well is 45 feet
b) Describe the provision for making a measurement which you have at your point of diversion: (i.e., installed measuring device, access port, other) _____

c) Give well driller's name and address and the date the well was completed: _____

Doug Cushman Drilling Co.

945 South Broadway, Blackfoot, Idaho

8. If for other than irrigation, describe the beneficial use to which you have applied the water and the place of use:

9. Irrigation uses: describe the lands irrigated by giving the acreages irrigated within each 40 acre subdivision:

T	R	SEC.	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
3s	35E	7											25						25

Total number of acres irrigated 25

10. Remarks: _____

The above information is a true statement of the extent to which the above numbered permit has been developed.

November 8, 1978

(Date)

Marlene Caldwell
(Signature)

State of Idaho)
County of Bonneville) ss.

On this 8th day of November, 19 78, personally appeared before me the
signer(s) of the above instrument, who duly acknowledged to me that he (she) (they) executed the same.



6/15/81

Chelene Gray
Notary Public
Residing at Idaho Falls, Idaho

HARPER, MORGAN & ASSOCIATES

Engineering and Surveying

800 W. Judicial • P.O. Box 441 • Ph. (208) 785-2977 • Blackfoot, Idaho 83221

CIVIL — STRUCTURAL — BUILDINGS — SUBDIVISIONS

November 2, 1978

RECEIVED

NOV 8 1978

Department of Water Resources
Eastern District Office

Mr. Zane Caldwell
Route 3, Box 56
Blackfoot, Idaho 83221

Dear Zane:

On November 2, 1978, I measured the pressure at each nozzle of your sprinkler system. The pressure gauge at the pump indicated a pressure of 55 psi. The pressure at the 1 1/64" nozzles varied from 43 psi at the end of the line to 48 psi near the main line as measured with an Ashcroft 3129-405 Pitot tube pressure gauge.

By using a Rain Bird calculator that indicates nozzle flow based upon nozzle pressure the flow was calculated as shown on the accompanying calculation sheet. The flow calculated on this basis is 185 gallons per minute or 0.41 cubic feet per second.

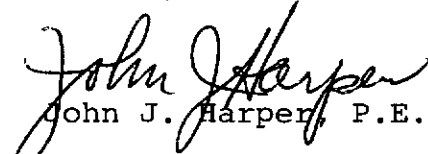
We hope this will be the information you need for your well located in the SW 1/4 of Section 7, Township 3 South, Range 35 East Boise Meridian.

Please call if more information is required.

Thank you for the opportunity to serve you.

Sincerely,

HARPER, MORGAN & ASSOCIATES, INC.


John J. Harper, P.E.

JJH:ds

Encl

MICROFILMED

HARPER MORGAN & ASSOCIATES

800 West Judicial P. O. Box 441
BLACKFOOT, IDAHO 83221

Phone 785-2977

JOB 78274

SHEET NO. 1

OF 1

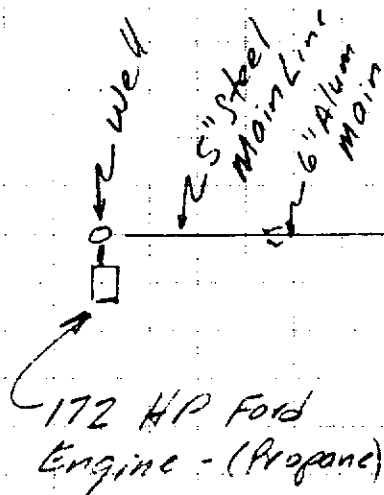
CALCULATED BY JH

DATE 11-2-78

CHECKED BY _____

DATE _____

SCALE _____



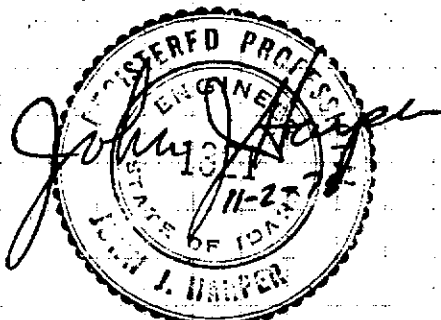
19 - 11/64 Rain Bird Nozzels

13 11/64 Rain Bird Nozzels Operating

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	<u>185.5</u>

Total Flow = 185.5 gallons per minute

$$185.5 \text{ g/min} \times \frac{1 \text{ min}}{60 \text{ sec}} \times \frac{1 \text{ cft}}{7.48 \text{ gal}} = 0.41 \text{ cfs}$$



WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well. MAR 23 1977

1. WELL OWNER

Name ZANE CALDWELL
Address Rt. 3, Box 56, Blackfoot, ID
Owner's Permit No. 27-7079

7. WATER LEVEL

Department of Water Resources
Eastern District OfficeStatic water level 25' feet below land surface
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Temperature _____ ° F. Quality _____
Artesian closed-in pressure _____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning)

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Other Air Test

Discharge G.P.M.	Draw Down	Hours Pumped
200		

3. PROPOSED USE

☐ Domestic ☒ Irrigation ☐ Test ☐ Other (specify type)
☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED

☐ Cable ☒ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 12 inches Total depth 46 feet
Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	12 inches	+ 2 feet	44 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

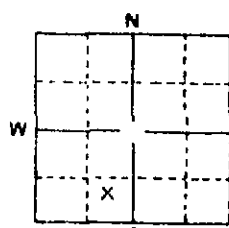
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☒ Yes ☐ No
How perforated? ☐ Factory ☒ Knife ☐ Torch
Size of perforation 1/8 inches by 2 inches

Number	From	To
120 perforations	22 feet	42 feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☐ Yes ☒ No
Manufacturer's name _____
Type _____ Model No. _____
Diameter _____ Slot size _____ Set from _____ feet to _____ feet
Diameter _____ Slot size _____ Set from _____ feet to _____ feetGravel packed? ☐ Yes ☒ No Size of gravel _____
Placed from _____ feet to _____ feetSurface seal depth 18 Material used in seal ☐ Cement grout
☒ Pudding clay ☐ Well cuttings
Sealing procedure used ☐ Shurry pit ☐ Temporary surface casing
☐ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County BINGHAMSE 1/4 SW 1/4 Sec. 3 T. 3 N/S, R. 35 E/W

10.

Work started 3/11/77 finished 3/11/77

11. DRILLERS CERTIFICATION

Firm Name DOUG CUSHMAN DRILLING CO. Firm No. 72Address 945 S. Broadway, Blackfoot Date 3/18/77

Signed by (Firm Official) _____

and

(Operator) _____

March 25, 1977

27-7079

Mr. Zane Caldwell
Rt. #3, Box 56
Blackfoot, ID 83221

Dear Mr. Caldwell:

We have received a well driller's report indicating that a well was drilled for you in the SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 3, T. 3S, R. 35E, B.M., Bingham County. In reviewing Application No. 27-7079 filed by you, we find a discrepancy in the legal description. The permit shows the point of diversion to be located within the SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 7, T. 3S, R. 35E, B.M.

Would you please recheck your records to see which location is correct and notify this office? Your cooperation in this matter will be greatly appreciated.

Very truly yours,

LOY H. JOHNSON
Senior Water Resource Agent

LHJ:ME

CC: IDWR - State Office

May 13, 1977

Re: Permit No. 27-7079

Zane &/or Marlene Caldwell
Route #, Box 56
Blackfoot, ID 83221

Dear Mr. and Mrs. Caldwell;

Enclosed is a copy of your approved Application for Permit No. 27-7079. We direct your attention to the conditions of approval as listed on the fourth page.

Be sure to note that a special condition requiring you to install and maintain a measuring device at your point of diversion has been placed upon your permit. We are enclosing a letter describing different types of measuring devices accepted by this office.

Sincerely,

BOBBY D. FLEENOR
Chief, Water Rights

Enclosure: Copy of permit

MICROFILMED



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
EASTERN DISTRICT

Cecil D. Andrus
Governor

R. Keith Higginson
Director

1515 Lincoln Road
Idaho Falls, Idaho 83401
(208) 523-7186

April 11, 1977

RE: Application for Permit No. 27-7079 CALDWELL
35-7680 WAHLEN
35-7681 NELSON
35-7682 LANKFORD

Blackfoot News
P.O. Box 70
Blackfoot, Idaho 83221

Gentlemen:

Would you please submit an affidavit of publication and certified bill in connection with the above referenced applications. The legal notice was to have been published in your paper on March 24 and March 31, 1977.

Your cooperation in this matter is greatly appreciated.

Very truly yours,

RONALD D. CARLSON
Supervisor,
Eastern Region

RDC:CW

cc: IDWR - State Office

MICROFILMED

March 18, 1977

RE: Application for Permit No. 27-7079 CALDWELL
35-7680 WAHLEN
35-7681 NELSON
35-7682 LANKFORD

Blackfoot News
P.O. Box 70
Blackfoot, Idaho 83221

Gentlemen:

Enclosed you will find a legal notice which we wish to have published once a week for two consecutive weekly issues of your newspaper. We have inserted the publication dates allowing time for you to submit us a galley proof for review before publication.

After sending us a galley proof, proceed with the publication on the dates we have inserted, assuming the notice is correct. If we have any corrections, we will notify you before the first publication. 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.

Very truly yours,

RONALD D. CARLSON
Supervisor,
Eastern Region

Bill submitted 4-14-77 by CW

RDC:CW

Enc: Legal Notice (4)

MICROFILMED

Legals — jackie

**NOTICE OF APPLICATION
FOR WATER PERMIT**

Notice is hereby given that Zane Caldwell &-or Marlene Caldwell, Blackfoot, Idaho, have on 3-14-77, submitted Application No. 27-7079, for a permit to appropriate 0.78 cubic feet per second of water from a ground-water source by means of well and pump within the SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 7, T. 3S, R. 35E, B.M., Bingham County; to be used from Apr. 1 to Nov. 1 for the irrigation of 39 acres within the SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 7, T. 3S, R. 35E, B.M.

If issued, this permit will be subject to all prior water rights. Protests against the granting of the permit must be filed with the Idaho Department of Water Resources, 1515 Lincoln Road, Idaho Falls, Idaho, 83401, on or before April 11, 1977.

R. KEITH HIGGINSON
Director

(5021)

Pub.: 3-24-31

Pub.: 3-21, 24

NOTICE OF APPLICATION FOR WATER PERMIT

Notice is hereby given that Zane Caldwell &/or Marlene Caldwell,
Blackfoot, Idaho

have ??? on 3-14-77 submitted Application No. 27-7079
has on _____ submitted Application No. _____
for a permit to appropriate 0.78 cubic feet per second XXXXXXXXXXXXXXXXXXXX
of water from a ground-water source
by means of well and pump
within the SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 7, T. 3S, R. 35E, B.M., Bingham County;

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If issued, this permit will be subject to all prior water rights. Protests
against the granting of the permit must be filed with the Idaho Department of
Water Resources, 1515 Lincoln Road, Idaho Falls, Idaho, 83401 on or before _____
April 11, 1977

R. KEITH HIGGINSON

Director

Published in the Blackfoot News, Blackfoot, Idaho

on March 24 and March 31, 1977

MICROFILMED

me-C.
me-A.
CW-R.

DEPARTMENT OF WATER RESOURCES
- STAFF ANALYSIS -

Item Initial Date

Application No. Caldwell

☒ Source
☒ Point of Diversion
☒ County
☒ Quantity of Water and Period of Use
☒ Description of Diverting Works
☒ Time required for B/U of water
☒ Place of Use or Acres Irrigated
☒ Map
☒ Signature
☒ Fee

(1) ARK 3/15/77

In form to receipt

(2) ARK 3/15/77

Send Copies to:

☒ Idaho State Health Department
☒ Idaho Fish and Game Department
☒ Bureau of Land Management

(3) ARK 3/15/77

☒ Request Special Use Permit from U.S.F.S.
☒ Request Easement from B.L.M.
☒ Request Information from Applicant
☒ Request Dam Safety Information

(4) ARK 3/15/77

In form for advertising

(5) ARK 3/15/77

Platted on Map No. 3S 35E

(6) ARK 3/15/77

Located within Water District No. Basin 27

(7) ARK 3/15/77

Critical groundwater area: yes ☐ no ☒

(8) ARK 3/15/77

Groundwater levels:

☐ Declining, ☒ Stable, ☐ Increasing

(comment) 33bba is very stable

(9) ARK 3/15/77

Calder Other rights on the same place of use none

(10) ARK 3/15/77

Comments: None

(11) CW 4-14-77

Affidavit of Publication received (date) April 14-1977

(12) CW 4-14-77

Final date for protests April 11-1977

Protests received: yes ☐ no ☒

(13) RDC 4/15/77

All requested information received from agencies or applicant: yes ☐ no ☐

(14) ll ll

Action recommended:

☒ Approve ☐ Deny

3/14/77 Proposed Priority

☐ Reason for Reduction

☒ Measuring device required

☐ See attached sheet for other conditions of approval

☐ No special conditions for approval

(15) District E By RDC Date 4/15/77

MICROFILMED
Supplemental

Copy 1