

8694

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM.

CIVIL CASE NUMBER: 39576

Ident. Number: A36-04051
Date Received: 8/28/1989
Receipt No: 5009050
Received By: Adm

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: MICKELSEN FARMS INC.
Address: RT. 4 BOX 214
RUPERT, ID 83350

208-531-5597

RECEIVED

2. Date of Priority: MAY 01, 1949

SEP 5 1989

3. Source: GROUNDWATER Trib. to:

Department of Lands & Resources
Bozeman Region Office

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
08S	25E	16	NW	NW	NE		MINIDOKA
			NW	NE	SE		MINIDOKA

5. Description of diverting works:
TWO WELLS & PUMPS DELIVERING TO SPRINKLER SYSTEMS.

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
IRRIGATION	03/15	11/15	12.800		

7. Total Quantity Appropriated is:
12.800 C.F.S. (and/or) A.F.A.

8. Total consumptive use is 1932.0 Acre Feet Per Annum.

9. Non-irrigation uses:
NONE

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
08S	25E	15	NE	NW		IRR	5.0
			NW	NW		IRR	15.0

A36-04051

Page 1

Date: 08/28/89

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10. Place of Use: Continued

Township	Range	Section	1/4	of	1/4	Lot	Use	Acres
08S	25E	15	SW		NW		IRR	34.0
			SE		NW		IRR	1.0
			NW		SW		IRR	1.0
							Section Acres	56.0
		16	NE		NE		IRR	40.0
			NW		NE		IRR	40.0
			SW		NE		IRR	40.0
			SE		NE		IRR	40.0
			NE		NW		IRR	40.0
			NW		NW		IRR	40.0
			SW		NW		IRR	40.0
			SE		NW		IRR	40.0
			NE		SW		IRR	40.0
			NW		SW		IRR	40.0
			SW		SW		IRR	40.0
			SE		SW		IRR	40.0
			NE		SE		IRR	25.0
			NW		SE		IRR	40.0
			SW		SE		IRR	37.0
			SE		SE		IRR	6.0
							Section Acres	588.0
							Total Acres	644.0

11. Place of use in counties: MINIDOKA

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:
NONE

14. Remarks:

15. Basis of Claim: STATUTORY CLAIM

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do _____ do not X wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: 1

For Organizations:

I do solemnly swear or affirm that I am President of _____ Title

MICKERSEN FARMS, Inc., that I have signed the foregoing Organization

document in the space below as President of _____ Title

MICKERSEN FARMS, Inc. and that the statements contained in the Organization

foregoing document are true and correct.

David R Mubels
Signature of Authorized Agent

Pres. MICKERSEN FARMS
Title and Organization

8-29-89

Date

State of Idaho)

County of minidoka)

SS.

Subscribed and sworn (or affirmed) before me this 30th day

of August 19 89

Jan High
Notary Public

Seal

Residing at Lurest, ID

My Commission Expires 12-17-93

ACEQUIA QUADRANG
IDAHO
7.5 MINUTE SERIES (ORTHOGRAPHIC)

290

291

32' 30"

293

630 000 FEET



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FEB 05 1953



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 2148 4th Ave. East, Twin Falls, Idaho 83301 (208) 734-3578

CECIL D. ANDRUS
Governor

R. KEITH HIGGINSON
Director

Sept. 7, 1989

MICKELSEN FARMS INC
RT 4 BOX 214
RUPERT ID 83350

Re: A36-11763
A36-11762
A36-11761
A36-04051

Dear Claimant(s):

Please find enclosed your receipt and a copy of a computer generated claim based on the information from your original claim(s) which has been entered in our computer records.

Please review the computer generated claim for accuracy. In a few instances clarifications may have been added by the Department at the time of data entry. If you have any questions or objections regarding the computer record of your claim(s), please contact this office.

Yours truly,

A handwritten signature in dark ink, appearing to read 'Judy Givens', written over a horizontal line.

Judy Givens
Adjudication Secretary

/jg

Enclosures:

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FEB 05 1993



State of Idaho
DEPARTMENT OF WATER RESOURCES
Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 734-3578

CECIL D. ANDRUS
Governor

R. KEITH HIGGINSON
Director

October 3, 1990

A36-04051
MICKELSEN FARMS INC..
RT. 4 BOX 214

RUPERT

ID 23350

Dear Claimant(s):

In the past you submitted the claim(s) identified with the number(s) shown above your name and address at the top of this letter. You indicated on the claim(s) that the basis for establishing the water right(s) was Beneficial Use, meaning the water right was not previously confirmed by a decree, water right license or permit before you filed the claim(s).

The purpose of this letter is to request evidence supporting the priority date(s) you have claimed. The enclosed pamphlet describes what this means. While I encourage you to read all of the pamphlet, I direct your attention to the right-hand half of the pamphlet after you open it. There you will find two sections: What Kind of Evidence is Required, and Some Examples of Documents which May Be Evidence of the Priority Date. These sections tell you what must be submitted. The other sections tell you why the evidence is necessary and what the consequences of not submitting the evidence could be.

Please submit the requested evidence by November 1, 1990. When returning to the Department please reference all documents with the claim(s) identification number(s) listed above.

If you have questions not addressed by the pamphlet or need other technical assistance, please feel free to contact this office. For advice on your water right(s), please contact your attorney.

Sincerely,

Allen Merritt, P.E.
Water Rights Supervisor

Enclosure

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RECEIVED

JAN 10 1991

Department of Water Resources
Southern Region Office

David Mickelsen
Rt. # 4 Box 214
Rupert, Idaho 83350
January 3, 1991

Department of Water Resources
222 Shoshone St. E.
Twin Falls, Idaho 83301

Dear Mr. Worstell,

I am writing regarding claim A36-04051 on Section 16,
Township 8 South, 25 E.B.M.

I John Trevino have personal knowledge that
irrigated crops were first produced on this section during
the growing season of 1949. This section has been under
continuous production since that date.

As an equipment dealer in the area, I was acquainted with
the owners of this property.

STATE OF IDAHO

COUNTY OF MINIDOKA

On this 4th day of January 19 91
I am a notary public in and for the said State personally
appeared John Trevino

known to me to be the
persons) whose (name/names) (is/are) subscribed
this instrument and acknowledged to me that
they executed the same.

Mary Alice Sanders

Notary

MY COMMISSION EXPIRES 12-05-95
NOTARY PUBLIC
RESIDING AT RUPERT, IDAHO

John Trevino
John Trevino

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FEB 05 1993

RECEIVED

JAN 10 1991

Department of Water Resources
Southern Region Office

Rt. #4 Box 214

Rupert, Idaho 83350

Jan. 9, 1991

Dear Mr. Worstell,

I am sending the notarized letter from Mr. John Trevino. I am sorry that it has taken so long. The person I first contacted to do this for me wasn't feeling well and so I had to get another man to help me out. I hope this was all that you needed.

I am also enclosing a copy of a Claim to Water Right filed with your department. Also you had asked for copies of the irrigation audit report conducted in the year of 1990. It shows the current gallons being produced by the pumps. These audits were supervised by Idaho Power Company.

Thank you for your patience.

Sincerely,



David Mickelsen

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JAN 10 1991

Department of Water Resources
Southern Region Office

IRZ CONSULTING

115 W. Hermiston Ave. Suite 210
Hermiston Oregon, 97838.
(503)567-3584

IRRIGATION AUDIT REPORT

Dave Mickelsen
Rt 4 Box 214
Rupert, ID 83350

DATE :August 16, 1990
AUDIT # :IP5-90

Dear Mr. Mickelsen:

Enclosed please find the results of the Irrigation System Analysis which was conducted during the summer of 1990. The purpose of this audit is to determine the Potential energy savings of your irrigation system, as guidelined by the Idaho Power Company. I hope you will take the time to review this report, and that it will be helpful in reducing your irrigation costs.

RESULTS OF ENERGY SAVINGS

From our analysis of the 200 and 125 horsepower pumps (Labor House well) it was determined that 17,715 Kilowatt-hours per year of energy could potentially be saved by enlarging certain mainlines and by installing flow control nozzles. Your pump and motor found to be very efficient. This savings represents a reduction of 4% of your present energy use or a total annual savings of \$600.00, based on the past few years of electrical usage. The only mainline bottleneck that we recommend you replace is 1280 feet of 12 inch steel with 14 inch PVC. All other mainlines are within our design criteria and will not be cost shared (see page 4 of the report for eligibility criteria).

If these savings seem cost effective for your operation you may then take the following actions, and need to consult your dealer.

PUMP EFFICIENCY TEST

The pump test was conducted using an accurate ultrasonic flow meter to measure the flow rate of the pump. Electrical readings consisting of voltage, amperage, power factor, and kilowatt (electrical horsepower) on all three legs were made using electrical measurement instrumentation.

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During our test the well pump was discharging 2810 gallons per minute from a depth of 175 feet (estimated), with 22 psi of pressure and it was drawing 220 horsepower. It achieved an overall efficiency (combined efficiency of pump and motor) of 74.5%, which is rated as "EXCELLENT" efficiency. All electrical readings were found to be balanced. The fact that this pump was never worked on since 1949 and still achieves high efficiency is very interesting. I guess they knew how to build a pump back then.

The Booster pump was also discharging 2810 gallons per minute with 80 psi of pressure and it was drawing 121 horsepower. It achieved an overall efficiency (combined efficiency of pump and motor) of 78.5%, which is rated as "EXCELLENT" efficiency. All electrical readings were found to be balanced.

For more detailed information, please refer to the enclosed pump efficiency field sheet.

PUMP MODIFICATION

Installation of mainlines by themselves will not result in any significant energy savings, unless the pumps are modified to use less horsepower and therefore less energy. Normally with new mainlines the pressure will be much higher than in the past and thus the pumps can be modified to output less pressure at the discharge.

The method of pump modification is fairly simple and can be done by an experienced pump shop. I recommend that you pull the booster pump and have the shop trim its impeller so to reduce the total dynamic head by 15 feet (TDH = 120 feet). Your pump will then draw 107 horsepower instead of the present 121 horsepower.

If for the past 5 years you have not done so, you may have the motor dipped and baked to restore it to the original efficiency. A new motor in this case will not be required, since motors can be underloaded without any significant efficiency losses.

I suggest you consult your pump dealer on the details of the modification, before taking any action.

FLOW CONTROL NOZZLES

Due to existing low sprinkler pressure which at the critical high point of the field was measured as 36 psi, no further energy savings could be achieved by converting to the low pressure nozzles. Attempts should be made to maintain at least 50 psi of pressure in all cases. You can do this by: running fewer lines at the time, reducing leaks, installing larger mainlines, using smaller nozzles, replacing worn nozzles, or by installing flow control nozzles. With the flow control nozzles each sprinkler will discharge the same gallonage regardless of the field slope, pressure, or how close it is to the pump. This will result in much more uniform irrigation and a better crop yield. We have estimated another 23,052 kwh per year of energy could be saved by install-

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ing the flow control nozzles. Idaho Power Company will pay up-to 50% of the cost of these flow control nozzles.

COST SHARING PROGRAM

To receive financial incentives, you need to notify Idaho Power Company for approval, before proceeding with the recommendations in this report (i.e. mainline replacement, etc.).

After all measures have been installed you should contact and bring all receipts to Mr. Rex Winn at Idaho Power. Idaho Power will pay up to 50% of the actual cost of modifications recommended in this report, not to exceed \$3,543 per system (see page 6 of the report). To establish the actual energy saving, we need to retest the pump after all the measures have been installed.

We encourage you to take advantage of this opportunity, and if you have further questions concerning this report please feel free to contact me, or Rex.

Sincerely,



Fred Ziari
IRZ Consulting

Note: This is not a complete redesign of your systems.

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IRZ CONSULTING

115 W. Hermiston Ave. Suite 210
Hermiston Or, 97838
(503)567-3584

IRRIGATION AUDIT REPORT

Dave Mickelsen
Box 214
Bupert, ID 83350

DATE :August 16, 1990
AUDIT # :IP4-90

Dear Mr. Mickelsen:

Enclosed please find the results of the Irrigation System Analysis which was conducted during the summer of 1990. The purpose of this audit is to determine the Potential energy savings of your irrigation system, as guided by the Idaho Power Company. I hope you will take the time to review this report, and that it will be helpful in reducing your irrigation costs.

RESULTS OF ENERGY SAVINGS

From our analysis of the 200 horsepower pump (Shop well) it was determined that 45,524 kilowatt-hours per year of energy could potentially be saved by enlarging certain mainlines and by installing flow control nozzles. Your pump and motor found to be very efficient. This savings represents a reduction of 15% of your present energy use or a total annual savings of \$1550.00, based on the past few years of electrical usage. We recommend that you replace the 1600 feet of 10 inch steel with 12 inch PVC, and the 1695 feet of 8 steel with 10 inch PVC. Any other mainlines will not be cost shared in this pilot project (see page 4 of the report for eligibility).

If these savings seem cost effective for your operation you may then take the following actions, and need to consult your dealer.

PUMP EFFICIENCY TEST

The pump test was conducted using an accurate ultrasonic flow meter to measure the flow rate of the pump. Electrical readings consisting of voltage, amperage, power factor, and kilowatt (electrical horsepower) on all three legs were made using electrical measurement instrumentation.

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During our test the pump was discharging 2040 gallons per minute from a depth of 169 feet, with 63 psi of pressure and it was drawing 235 horsepower. It achieved an overall efficiency (combined efficiency of pump and motor) of 70%, which is rated as "EXCELLENT" efficiency. The motor was operating at 17% over-load, however since it has a good shading it should be o.k.. All electrical readings were found to be balanced. For more detailed information, please refer to the enclosed pump efficiency field sheet.

PUMP MODIFICATION

Installation of mainlines by themselves will not result in any significant energy savings, unless the pumps are modified to use less horsepower and therefore less energy. Normally with new mainlines the pressure will be much higher than in the past and thus the pumps can be modified to output less pressure at the discharge.

The method of pump modification is fairly simple and can be done by an experienced pump shop. I recommend that you pull the pump and have the shop trim the impellers so to reduce the total dynamic head by 48 feet (TDH=271 feet). Your motor will then draw 199 horsepower instead of the present 235 horsepower and will eliminate the over-load.

If for the past 5 years you have not done so, you may have the motor dipped and baked to restore it to the original efficiency. A new motor in this case will not be required, since motors can be underloaded without any significant efficiency losses.

I suggest you consult your pump dealer on the details of the modification, before taking any action.

FLOW CONTROL NOZZLES

Due to existing low sprinkler pressure which at the critical high point of the field was measured as 36 psi, no further energy savings could be achieved by converting to the low pressure nozzles. Attempts should be made to maintain at least 50 psi of pressure in all cases. You can do this by: running fewer lines at the time, reducing leaks, installing larger mainlines, using smaller nozzles, replacing worn nozzles, or by installing flow control nozzles. With the flow control nozzles each sprinkler will discharge the same gallonage regardless of the field slope, pressure, or how close it is to the pump. This will result in much more uniform irrigation and a better crop yield. We have estimated 14,919 kwh per year of energy could be saved by installing the flow control nozzles. Idaho Power Company will pay up-to 50% of the cost of these flow control nozzles.

COST SHARING PROGRAM

To receive financial incentives, you need to notify Idaho Power Company for approval, before

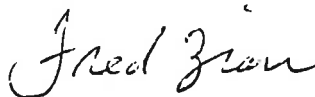
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FEB 05 1993

proceeding with the recommendations in this report (i.e. mainline replacement, etc.).

After all measures have been installed you should contact and bring all receipts to Mr. Rex Winn at Idaho Power. Idaho Power will pay up to 50% of the actual cost of modifications recommended in this report, not to exceed \$10,000 per system (seepage 6 of the report). To establish the actual energy saving, we need to retest the pump after all the measures have been installed.

We encourage you to take advantage of this opportunity, and if you have further questions concerning this report please feel free to contact me, or Rex.

Sincerely,



Fred Ziari
IRZ Consulting

Note: This is not a complete redesign of your systems.

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FEB 05 1993

SEP 8 1976

Department of Water Resources
Southern District Office

36-4051

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Section 42-225a, Idaho Code

CLAIM TO A WATER RIGHT

Under the provisions of Section 42-225a, Idaho Code, a person may file a claim to a right to use water which has been established by diversion and application to beneficial use. The filing of this claim does not confirm the water right but will serve for information purposes only. It may, however, become the basis for future adjudication of the water right by the Court.

Notice is hereby given that MICKELSEN FARMS, INC., an Idaho Corporation
(name of claimant)
of Route 4, Rupert, Idaho
(mailing address), claims a right to the diversion and beneficial use of
the public water of the State of Idaho

The extent and nature of said claim is as follows:

- (1) Describe source of water: (name of stream, lake, spring, etc., or ground water) ground water
, tributary to ,
(2) Describe the purpose for which the water has been used and the time during the year when you have used the right claimed:

Amount	<u>12.8</u>	Use	<u>irrigation</u>	Period of Use: From	<u>March 15</u>	To	<u>Nov. 15</u>
Amount		Use		Period of Use: From		To	
Amount		Use		Period of Use: From		To	
	(cfs, gpm or a/f)		(dom., irri., stock, etc.)				(both dates inclusive)

- (3) Total quantity of water claimed: 12.8 cubic feet per second, or 8/1990 Tests by Idaho Power Consultants .017 cfs/acre
per annum, and/or 12.8 gallons per minute.

- (4) Priority claimed: (the date water was first applied to beneficial use) May 1, 1949

A claim is not acceptable on a ground-water source with a priority later than March 25, 1963 or on a surface-water source with a priority later than May 20, 1971. An exception to this rule is that a claim may be filed on domestic use from a ground-water source.

- (5) A) Point of diversion: (give location of point where water is diverted from its source)

NE 1/4 SE 1/4, Sec. 16 Twp. 8 S Rge. 25 E, B.M. County of Minidoka
Additional points of diversion: NW 1/4 of the NE 1/4 of Section 16, Twp. 8 S. Range 25, E., B.M., County of Minidoka

B) Describe means of diversion of water: (pump and pipeline, well, diversion dam, reservoir, length of ditch and field, etc.) Give sizes and capacities; be as specific as possible. Two 20 inch irrigation wells, each 200' deep - 163 & 165" to water, equipped with 200 HP electric motors, Layne & Bowler pumps with 12" column, 4 stage bowl assembly.

- (6) A) Describe location of use by listing number of irrigated acres within each 40-acre tract in appropriate box. If use is not for irrigation, place an "X" in appropriate box to show location.

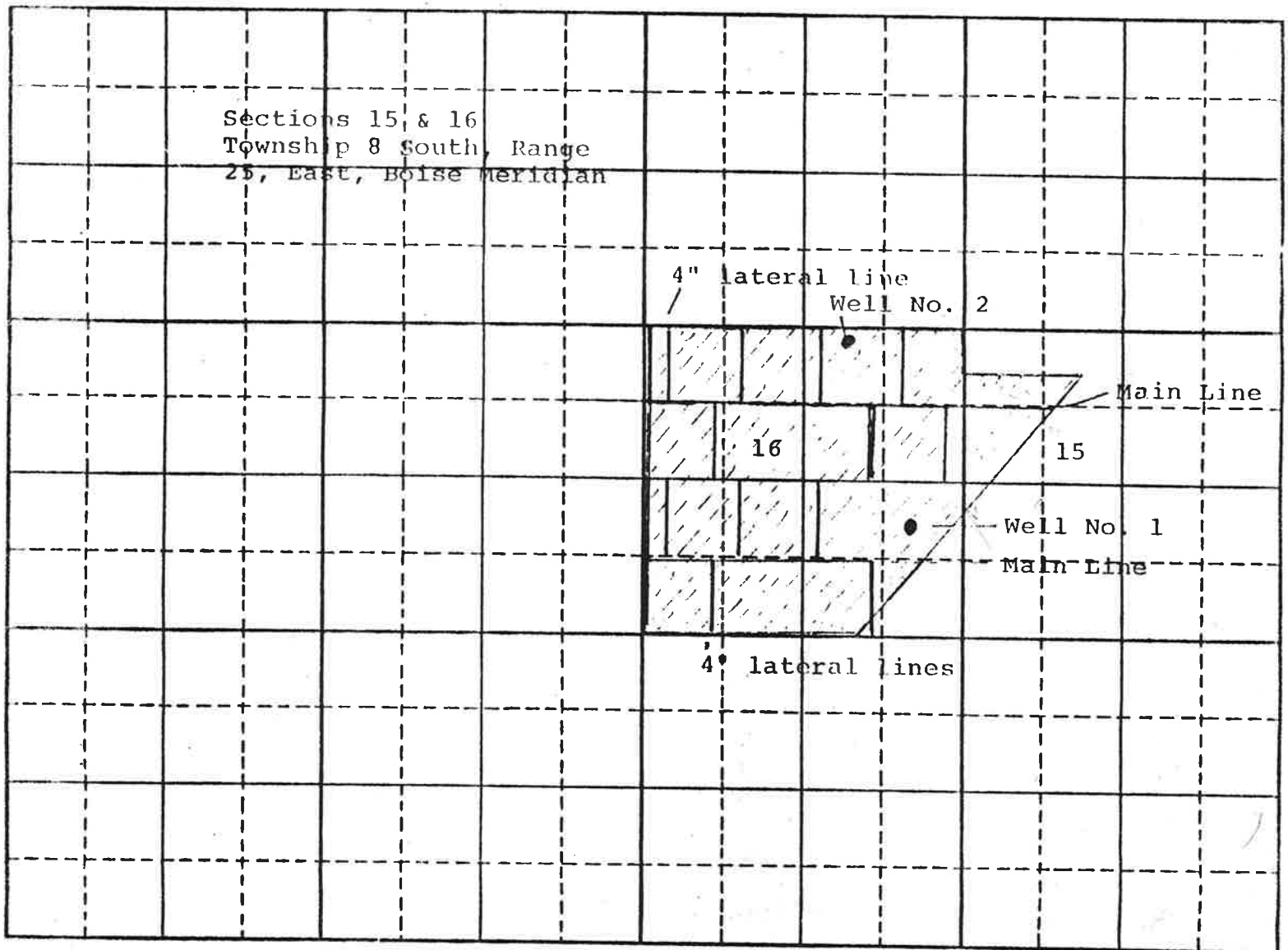
T	R	SEC.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTAL
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
8S	25	16	40	40	40	40	40	40	40	40	40	40	40	40	35	35	35	5	590
8S	25	15					5	5	38	1		1							50

Total No. of acres 640

- B) If the water is used for other than irrigation, fully describe that use, being as specific as possible:
Not applicable

- (7) If you are claiming water as a member of an organization, list name of organization:
Not applicable

(8) Remarks Irrigated portions are cross-hatched. Each pump delivers 2600 g.p.m. Sprinkler system consists of 2- 8" main lines and one 4" rotating line for each forty acres.



Scale: 2 Inches equal 1 mile.

Map should show the location of the point of diversion and the place of use of the water by 40-acre subdivisions, section, township and range of the public land survey system.

State of Idaho)
) ss.
County of Cassia)

Be it known that the undersigned, being duly sworn, deposes and says that he, she, they subscribed the foregoing claim to a water right, together with all attached information, and that the matters and facts therein are true to the best of the affiants knowledge.

Michael J. ...
Leg. Council P. J. ...
PRESIDENT (Claimant)

Sworn to before me this 7th day of September, 1976.

...
Notary Public
Residing at Burley

My commission expires ...

For Department Use Only

Received by <u>AM</u>	Date <u>9-10-76</u>	Exception filed by:	Forwarded to	Date
Prelim. check by <u>R.J.N.</u>	Date <u>9-13-76</u>		claimant by:	
\$10.00 fee received by <u>P.J.N.</u>	Date <u>1-10-76</u>			
Approved for publication by <u>TGB</u>	Date <u>1-14-76</u>			
Published in <u>The Minidoka County News</u>				
Dates <u>9-21 & 9-28, 1976</u>				
<u>10-12</u> <u>10-19</u>				

AJ5809NP
No. R36-04051

IDAHO DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM PROFILE REPORT

DATE: 12/02/97
PAGE: 1

OWNER CODE	NAME & ADDRESS	PRIORITY DATE	WATER USE	USE PERIOD FROM TO	DIVERSION RATE	DIVERSION VOLUME
C	MICKELSEN FARMS INC RT 4 BOX 214 RUPERT ID 83350 (208) 531-5597	05/01/1949	IRRIGATION	04-01 10-31	10.90 CFS	2572.00 AFA
					TOTAL DIVERSION:	10.90 CFS 2572.00 AFA
					CONSUMPTIVE USE:	1929.00 AFA

Water Source: GROUNDWATER

Tributary to:

Stage: BENEFICIAL USE

Point(s) of Diversion: T08S R25E S16 NENWNE NWNESE MINIDOKA County

Place of use Legal Description for: IRRIGATION

NE				NW				SW				SE												
NENE NWNE SWNE SENE				NENW NWNW SWNW SENW				NESW NWSW SWSW SESW				NESE NWSE SWSE SESE												
T	R	S	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	: Lt Ac Lt Ac Lt Ac Lt Ac	SUM										
08S	25E	15	:					05	20	28	01	:		03	:	57.0								
08S	25E	16	:	39	40	39	40	:	38	38	39	40	:	40	39	40	40	:	32	40	37	05	:	586.0
													TOTAL ACRES			643.0								

POU County: MINIDOKA

Other Rights: NONE

Dates: Exam Made Date: Verified Date: Objection Filed Date:

Misc: Water District Number: Field Inspection Flag:
Presumption Flag:

updated
12-2-97
KKE

NO. OF CLAIMS IN POLYGON 1

CLAIM NUMBERS 36-04051

DATE 7/17/97

AGENT J

TRANSFER NUMBER

OBJECTION FILED no

TOTAL ACRES FROM RECOMMENDATION 643

GEOGRAPHIC INFO SYSTEM 648.74

RIGHT NO				NE				NW				SW				SE			
	TNS	RNG	SEC	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
RECOM	08S	25E	15					5	20	28	1		3						57
GIS								6.47	15.92	30.31	9.2		30.3						56.65
								+1	-4	+2									
RECOM	08S	25E	16	39	40	39	40	38	38	39	40	40	39	40	40	32	40	37	5
GIS				38.73	39.04	39.88	39.88	38.76	38.35	39.83	39.85	39.83	39.81	39.81	39.81	34.51	39.85	37.5	6.67
					-1	+1		+1		+1			+1			+3			+2
RECOM																			
GIS																			
RECOM																			
GIS																			

UPDATED

B36-DBPOU.DBF 195 ✓

B36-DBPOD.DBF 207, 208 ✓ ✓

POLYGON #

UPDATED

ATTRIBUTES OF B36-POU.SHP (195) ✓

ATTRIBUTES OF B36-POD.SHP (207) NENWNE-16

208 NWNNESE-16

- overall acreage under 5% over (.93%)

P/U CONFLICT yes () no (✓)

P/D CONFLICT yes () no (✓)

SENT FOR DECREE yes (✓) no ()

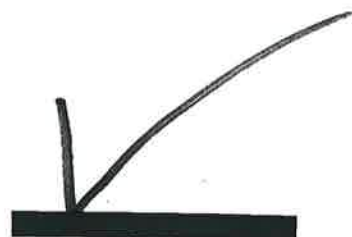
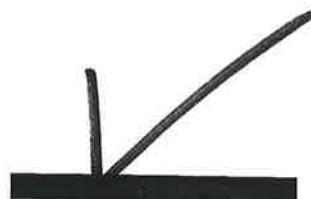
R PROOF

CVR

MAPS

PHOTOS

MISC



VERIFIED BY See

Water Right Number - R36-04051

Prefix Translation: RESEARCH

Old (D) Number -

+ - - - - Last Name - - - - + + - First Name - - + + - - - - - Address - - - - - +

*** C - CURRENT OWNER ***
MICKELSEN FARMS INC

1 - RT 4 BOX 214
2 -
3 -
City- RUPERT
Phone - 208-531-5597

State- ID Zip- 83350

+ - - Priority Date - - + + - - - Region - - - + + - - - Stage - - - + + - - - Status - - - +
05/01/1949 17 SOUTHERN J - BENEFICIAL USE

+ - - - - Source - - - - + + - - - - - Tributary - - - - - +
GROUNDWATER

+ - - - - Point of Diversion - - - - - +
Twn Rng Sec Tract Lot RFlg County

08S 25E 16 NE NW NE (67) MINIDOKA
08S 25E 16 NW NE SE (67) MINIDOKA

+ - - - - Water Use - - - - - +
Code Description Period From Period To Diversion Rate Diversion Volume
01 - IRRIGATION 03/15 11/15 10.900 2572.00

+ - Total Div. Rate - + + - Total Div. Volume - + + - Total Consumptive Use - + + - KW Usage - +
10.900 2572.00 1929.0

+ - - - - Place of Use - - - - - +
Twn Rng Sec Tract Lot Acres Code Description County

08S	25E	15	NE NW		5.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	15	NW NW		20.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	15	SW NW		28.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	15	SE NW		1.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	15	NW SW		3.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	NE NE		39.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	NW NE		40.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	SW NE		39.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	SE NE		40.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	NE NW		38.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	NW NW		38.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	SW NW		39.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	SE NW		40.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	NE SW		40.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	NW SW		39.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	SW SW		40.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	SE SW		40.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	NE SE		32.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	NW SE		40.0	01	IRRIGATION	(67) MINIDOKA
08S	25E	16	SW SE		37.0	01	IRRIGATION	(67) MINIDOKA

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FEB 05 1993

Water right number - R36-04051

Prefix Translation: RESEARCH

Twn	Rng	Sec	Tract	Lot	Acres	Code	Description	County
08S	25E	16	SE SE		5.0	01	IRRIGATION	(67) MINIDOKA

Total Acres: 643.0

+ - - Diversion Means - TWO WELLS, TWO 200 HP PUMPS, 125 HP BOOSTER, TO SPRINKLER SYSTEMS

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use - NONE

+ - - - - - Remarks - - - - -
No Remarks found.

+ - - - - - Old Water Right Numbers - - - - -
No Old Water Right Numbers Found

+ - - - - - Conditions of Approval - - - - -
No Conditions of Approval found.

+ - - - - Decree Plaintiff - - - + + - - - - Decree Defendant - - - + + - Decree Date - +
00/00/0000

+ - - - - - Comments - - - - -
Date: 01/16/1991 User Id: BEDKE Subject: RVW-STAFF REVIEW

+ - - Audit Fields - - +
10/01/91 CLELLAND

VERIFIED BY

+ - - - - - Adjudication Rights Dates and Flags Area - - - - -

Court Report Filing	- 00/00/0000	Field Inspection Made	- 12/13/1990	Civil Case Number	- 39576
Objection Filed Date	- 00/00/0000	Field Inspection Flag	-	Old Case Number	-
Response Filed Date	- 00/00/0000	Verified Date	- 10/01/1991	Old Judicial District	-
Claim Received Date	- 09/05/1989	Last Amended Date	- 00/00/0000	Temporary Right	- P
		Receipt Number	- S009050	Water District	-
		POU Ownership Flag	- Y	Federal/State Indicator	- S
		Name Connector	-	Presumption Flag	-
				Notice of Error Flag	-

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FEB 05 1993

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

13:45:14
08/17/90

PAGE: 12
QUICKLOOK INFORMATION

CLAIM NUMBER: A36-04051

WR ELEMENT	FIELD EXAM Y/N	CORRESPONDENCE SENT/RECEIVED BY WHOM/DATE	FIELD EXAM BY WHOM/DATE	CHANGE CLAIM Y/N	VERIFIED BY CODE	COMPLETED REVIEW WHOM/DATE	COMPLETED DATA ENTRY WHOM/DATE	VERIFIED DATE WHOM/DATE
PRIORITY DATE			12-13-90	N		SW 10-1-91	DB	
POINT OF DIV	Y			~~N~~ (Y)	1			
SOURCE				N				
PLACE OF USE	Y			(Y)	1, 6			
DIV. AMOUNT CFS/VOLUME				(Y)	1, 4, 6			
CONSUMPTIVE USE	-			(Y)				
PURPOSES				N				
PERIOD OF USE				N				
BASIS OF CLAIM				N				
REMARKS				N	6			

"VERIFIED BY" CODES

TOPO MAP/ORTHO-PQ = 1
ASCS MAP = 2
WATERMASTER RECORDS = 3
NAAPP PHOTOS = 4
FIELD EXAM = 5
OTHER (SEE REMARKS) = 6

THESE CODES ARE USED TO INDICATE HOW THE FIELD EXAMINER VERIFIED THE INFORMATION
USED FOR THIS FIELD EXAMINATION. INDICATED ARE ALL CODES WHICH APPLY.

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FEB 05 1992

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

13:45:14
08/17/90

PAGE: 1
GENERAL INFORMATION

CLAIM NUMBER: A36-04051

LAST: MICKELSEN FARMS INC.
ADDRESS: RT. 4 BOX 214
CITY: RUPERT
PHONE NUMBER: 208-531-5597

FIRST:
STATE: ID ZIP: 83350

OWNER CODE: C

FIELD EXAM REQUIRED?

VERIFICATION REQUIRED DUE TO REMARKS?

DATABASE
N

FIELD
EXAMINER

NO REMARKS IN CLAIM

FIELD EXAMINATION INFORMATION

CONTACT PERSON: DAVID MICKELSEN

PHONE NUMBER: () -

DATE OF FIELD EXAM: 12/13/90

APPOINTMENT MADE: Y() N(☒)

TIME: 1:00 A() P(☒)

ACCOMPANIED BY: —

PHONE NUMBER: () -

RELATIONSHIP TO CLAIMANT: —

DIRECTIONS TO PROPERTY / REMARKS:

checked on letter to verify date of priority (affidavit)
checked Location of second well
Inquired about H.P. of each well + lift

R.V. 12/14/90

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FEB 05 1993

A. AJ CLAIM: # A36-04051 PRIORITY DATE: 05-01-1949

STAGE: ~~S~~

A to J

B. WR RECORD: # 36-04051 PRIORITY DATE: 05-01-1949

STAGE: S

C. FIELD EXAM REQUIRED?

DUE TO PRIORITY DATE DISCREPANCY? (Y/N)

DATABASE
N

FIELD
EXAMINER
N

ARE THERE OBVIOUS REASONS TO QUESTION THE PRIORITY DATE CLAIMED? Y() N(☒)
IF YES EXPLAIN.

REMARKS:

Reminded MICKELSEN to RETURN PRIORITY date Affidavit 12/12/90
affidavit from equipment dealer with personal knowledge since 1949
P.O. 2K

=====

RECOMMENDED PRIORITY DATE:
05-01-1949

REVIEWED BY

SCC

DATE

10-1-91

=====

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FEB 05 1993

A. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
A36-04051	08S	25E	16	NE	NW	NE		MINIDOKA
A36-04051	08S	25E	16	NW	NE	SE		MINIDOKA

OTHER AJ CLAIMS WITH SAME AJ POD
A PREFIX R PREFIX
NONE NONE

RU24
NE
NW
NE
SE

WR RECORDS IN SAME 40 ACRE TRACT
NONE

SOURCE: GROUNDWATER

TRIB:

B. WR POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
36-04051	08S	25E	16		NE	SE		MINIDOKA
36-04051	08S	25E	16		NW	NE		MINIDOKA

OTHER WR RECORDS WITH SAME WR POD

AJ CLAIMS IN SAME 40 ACRE TRACT
A PREFIX R PREFIX
A36-11762 NONE
A36-11761

NONE

SOURCE: GROUNDWATER

TRIB:

C. FIELD EXAM REQUIRED?

DUE TO POD DISCREPANCY? (Y/N)
DUE TO SOURCE DISCREPANCY? (Y/N)

DATABASE
Y
N

FIELD
EXAMINER
Y
N

REMARKS:

MICROFILMED

FEB 05 1998

RECOMMENDED POINT(S) OF DIVERSION AND SOURCE:

TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	COUNTY
8S	25E	16	Same	NE	NW	NE	Same
8S	25E	16	same OK	NW	NE	SE	

SOURCE: GROUNDWATER

TRIB:

REVIEWED BY:

DATE:

12/14/90

Revised SW 10-1-91
by OPQ

MICROFILMED

FEB 05 1993

A. ROOT WATER RIGHT NUMBERS: A36-04051

B. POU LISTING

TWP	RNG	SEC	1/4	1/4	LOT	NAME	AJ #/ACRES	WR #/ACRES	LANDSAT DATA	2ND Review ↓ FIELD EXAM.	RECOMM. ACRES
08S	25E	15	NE	NW		MICKELSEN FARMS INC. ALLEN, RICHARD M.	A36-04051 / 5.0 A36-11623	36-04051 / 5.0 -		6	5
08S	25E	15	NW	NW		MICKELSEN FARMS INC. STEWART, JAMIE	A36-04051 / 15.0 A36-13325	36-04051 / 5.0 -		20	10
08S	25E	15	SW	NW		MICKELSEN FARMS INC.	A36-04051 / 34.0	36-04051 / 38.0		28	27
08S	25E	15	SE	NW		MICKELSEN FARMS INC.	A36-04051 / 1.0	36-04051 / 1.0		1	1.0
08S	25E	15	NW	SW		MICKELSEN FARMS INC.	A36-04051 / 1.0	36-04051 / 1.0		3	2.5
08S	25E	16	NE	NE		MICKELSEN FARMS INC.	A36-04051 / 40.0	36-04051 / 40.0	38.0	39	40
08S	25E	16	NW	NE		MICKELSEN FARMS INC. MICKELSEN FARMS INC.	A36-04051 / 40.0 A36-11761	36-04051 / 40.0 -	42.0	39	40
08S	25E	16	SW	NE		MICKELSEN FARMS INC.	A36-04051 / 40.0	36-04051 / 40.0	37.0	39	40
08S	25E	16	SE	NE		MICKELSEN FARMS INC.	A36-04051 / 40.0	36-04051 / 40.0	40.0	40	40.0
08S	25E	16	NE	NW		MICKELSEN FARMS INC.	A36-04051 / 40.0	36-04051 / 40.0	38.0	39	38
08S	25E	16	NW	NW		MICKELSEN FARMS INC.	A36-04051 / 40.0	36-04051 / 40.0	39.0	38	40
08S	25E	16	SW	NW		MICKELSEN FARMS INC.	A36-04051 / 40.0	36-04051 / 40.0	39.0	39	40
08S	25E	16	NW	SE		MICKELSEN FARMS INC.	A36-04051 / 40.0	36-04051 / 35.0	41.0	40	40
08S	25E	16	SW	SE		MICKELSEN FARMS INC.	A36-04051 / 37.0	36-04051 / 35.0	23.0	37	38
08S	25E	16	SE	NW		MICKELSEN FARMS INC.	A36-04051 / 40.0	36-04051 / 40.0	39.0	40	40
08S	25E	16	NE	SW		MICKELSEN FARMS INC.	A36-04051 / 40.0	36-04051 / 40.0	43.0	40	40
08S	25E	16	NW	SW		MICKELSEN FARMS INC.	A36-04051 / 40.0	36-04051 / 40.0	37.0	39	40
08S	25E	16	SW	SW		MICKELSEN FARMS INC.	A36-04051 / 40.0	36-04051 / 40.0	41.0	38	40
08S	25E	16	SE	SW		MICKELSEN FARMS INC.	A36-04051 / 40.0	36-04051 / 40.0	38.0	40	40
08S	25E	16	NE	SE		MICKELSEN FARMS INC. MICKELSEN FARMS INC.	A36-04051 / 25.0 A36-11762	36-04051 / 35.0 -	31.0	32	33
08S	25E	16	SE	SE		MICKELSEN FARMS INC.	A36-04051 / 6.0	36-04051 / 5.0	4.0	5	5
TOTAL ACRES							A36-04051	644.00	640.00	570.00	642

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FEB 05 1993
643

ARE IRRIGATED ACRES FOUND IN TRACTS OTHER THAN INDICATED ABOVE, Y() N(X)
IF YES SEE ATTACHED SHEET:

C. FIELD EXAM REQUIRED?

DUE TO POU DISCREPANCY? (Y/N)

DATABASE
Y

FIELD
EXAMINER
N

PRESUMPTION FLAG: C

REMARKS:

*Some tracts appear within tolerances but the total acreage would be over estimated if
allowed at full 40 Acre tracts.*

RECOMMENDATIONS:

TOTAL ACRES:

~~640~~ 643

REVIEWED BY:

R.V. 2K

DATE:

12/14/90

SC 90-1-91

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FEB 05 1991

A. AJ CLAIMED USES:

PURPOSES	MONTH/DAY	DIVERSION QUANTITY
A36-04051 IRRIGATION	FROM 03-15 TO 11-15	12.800 CFS
TOTAL DIVERSION RATE/VOLUME CLAIMED		12.800 CFS 2560

B. WR RECORDED USES:

PURPOSES	MONTH/DAY	DIVERSION QUANTITY
36-04051 IRRIGATION	FROM 03-15 TO 11-15	12.800 CFS
TOTAL DIVERSION RATE/VOLUME CLAIMED		12.800 CFS

PRESUMPTION FLAG: C

C. FIELD EXAM REQUIRED?

	DATABASE	FIELD EXAMINER
DUE TO WATER-USE DISCREPANCY? (Y/N)	N	
DUE TO DIVERSION RATE DISCREPANCY? (Y/N)	N	X
DUE TO PERIOD FROM/TO DISCREPANCY? (Y/N)	N	X

D. PERIOD OF USE:

RECOMMEND AS CLAIMED?

Y(✓) N()

RECOMMEND TO WR STANDARDS OR OTHER?

Y() N() Explain in remarks, below.

REMARKS:

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FEB 05 1993

A. DOES DIVERSION RATE CLAIMED AGREE WITH EXISTING RECORDS?

Y() N(☒)

AJ TOTAL CLAIMED DIVERSION RATE: 12.800 CFS
WR ROOT RIGHT TOTAL DIVERSION RATE: 12.800 CFS

*** IF NO or IF STATUTORY CLAIM or BENEFICIAL USE then flow measurement required. ***
** If an amount smaller than the original diversion rate is **
** claimed and an exam is NOT required, explain in remarks. **

FLOW MEASUREMENT REQUIRED?

FIELD
DATABASE EXAMINER

DUE TO STAGE OR DIVERSION RATE DISCREPANCY? (Y/N)

Y

4

B.

FLOW MEASUREMENT

theoretical calc.

= 6.30 + 4.60 = 10.90 cfs

MEASUREMENT METHOD *Idaho Power Well Test*, SEE ATTACHED CALCULATIONS.

Aug. 1990

See Irrigation Audit Reports

C. ARE OTHER WATER RIGHTS USED? Y() N(☒) IF YES COMPLETE OVERLAP REVIEW.

OTHER RIGHTS LISTED IN CLAIM: NONE

NO CLAIMS FOUND WITH SAME POU AND IRRIGATION USAGE

LIST ALL RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION.

CLAIM NO.	PURPOSES	NAME	MONTH/DAY	RATE	VOLUME
A36-11623	DOMESTIC	ALLEN , RICHARD M.	FROM 01-01 TO 12-31	.040 CFS	
A36-11623	STOCKWATER	ALLEN , RICHARD M.	FROM 01-01 TO 12-31	.020 CFS	
A36-13325	DOMESTIC	STEWART , JAMIE	FROM 01-01 TO 12-31	.040 CFS	
A36-13325	STOCKWATER	STEWART , JAMIE	FROM 01-01 TO 12-31	.020 CFS	
A36-11761	DOMESTIC	MICKELSEN FARMS INC.	FROM 01-01 TO 12-31	.040 CFS	
A36-11762	DOMESTIC	MICKELSEN FARMS INC.	FROM 01-01 TO 12-31	.040 CFS	

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D. RATE/VOLUME CALCULATIONS: (IRRIGATION)

1a. IRRIGATION RATE

ACRES 643 x 0.02 CFS/ACRE = 12.86 CFS
(Taken from p/u review)

DOES AMOUNT CLAIMED EXCEED 0.02 CFS/ACRE? Y() N(☒)

*** IF YES ADDITIONAL WATER USE FORM FILED AND ATTACHED? Y() N() ***

1b. CALCULATIONS

$$\frac{10.90 \text{ cfs}}{643 \text{ Ac}} = 0.0169518 \text{ cfs/Ac}$$

2. IRRIGATION CONSUMPTIVE USE

CLAIMED CONSUMPTIVE USE = 1932.0 AF/A

ACRES 643 x CONSUMPTIVE VOL. AF/A FOR AREA 31920 =

TOTAL CONSUMPTIVE USE 1929 AF/A

3. IRRIGATION DIVERSION VOLUME

CLAIMED DIVERSION VOLUME = 4 AF/A

ACRES 643 x DIVERSION VOL. AF/A FOR AREA 4 =

TOTAL DIVERSION VOLUME 2572 AF/A

4. CALCULATIONS FOR USES OTHER THAN IRRIGATION:

SEE ATTACHED SHEET? Y() N()

REMARKS: (Include limitations on CONSUMPTIVE USE for combined rights.)

RECORDED
FEB 05 1993

RECOMMENDATIONS:

REC. PURPOSES	REC. PERIOD FROM TO	REC. DIV RATE CFS	REC. DIV VOL. AF/A	REC. CONS. USE
IRRIGATION	03-15 11-15	DATABASE EXAMINER ~~12.800~~ ~~12.8~~	DATABASE EXAMINER ~~12.8~~ 10.90	DATABASE EXAMINER ~~1932.0~~ ~~1920~~
TOTAL FOR THIS RIGHT		~~12.800~~ 10.8 *	2572	1929
REVIEWED BY: <u>B.V.H.</u>		DATE: <u>12/14/90</u>		

These wells were tested in Aug. 1990. (see enclosed Reports from IRZ Consulting engineer) The combined diversion is 10.8 cfs.
Theoretical calc. = 10.90 cfs

em 10-1-91

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A. CHECK ONLY THE FOLLOWING THAT APPLY:

OWNERSHIP _____
FORFEIT/ABANDON _____
ADDITIONAL DIV. AMOUNT _____

ACCEPTED AS CLAIMED	NEEDS REVIEW
()	()
()	()
()	()

B. SPLIT WATER RIGHT REVIEW

ROOT WATER RIGHT NUMBER: 36-04051

TOTAL DIVERSION RATE OF WR SPLITS

DATABASE
12.800

EXAMINER
10.8

CFS

No SPLITS

SPLITS:

OLD RIGHT NUMBERS	CURRENT CLAIM NUMBERS	DIVERSION RATE	CURRENT "R" CLAIM NUM.	"R" DIV. RATE	WR RIGHT NUMBERS	DIVERSION RATE
-	A36-04051	12.800	-		36-04051	12.800
TOTAL CFS		12.800				12.800

DIVERSION RATE REVIEW

DO THE SUM CFS RATE OF THE SPLITS EQUAL THE ROOT RIGHT CFS RATE? (Y/N)
IF NO, is the written review sheet attached? (Y/N)

DATABASE
Y

FIELD
EXAMINER
Y

REMARKS:

AUTHENTICATION:

SIGNATURE:

DATE:

NAME OF FIELD EXAMINER:

TITLE:

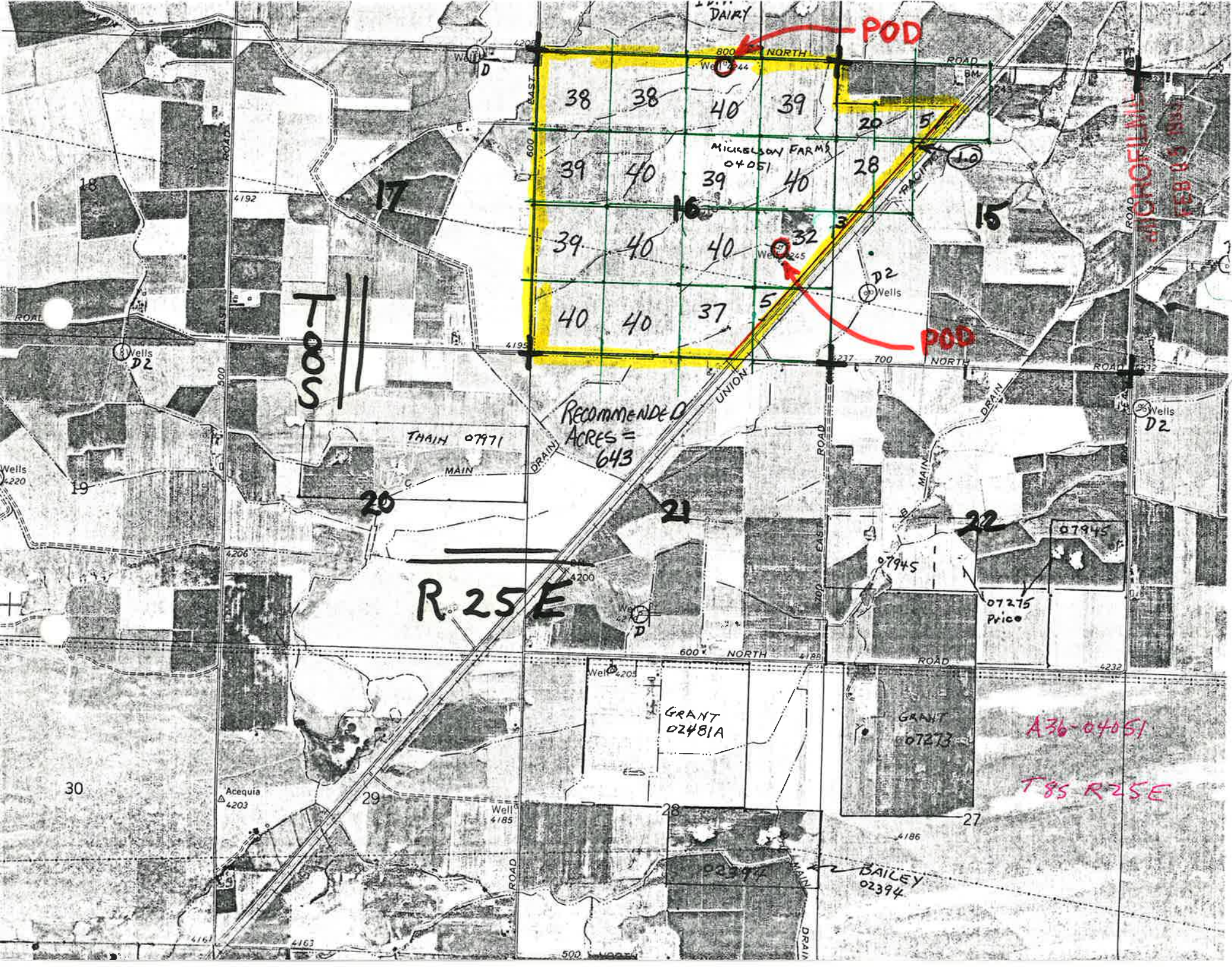
Steve C. [Signature] 10-1-91

R. V. Worstell

12/14/90

R. V. WORSTELL

SR. Water Right Agent



POD

T 8 S

R 25 E

Recommended
ACRES = 643

MICHELSON FARMS
04051

THAIN 07971

GRANT
02481A

GRANT
07213

BAILEY
02394

A36-04051

T 8 S R 25 E

07275
Price

07945

07945

21

22

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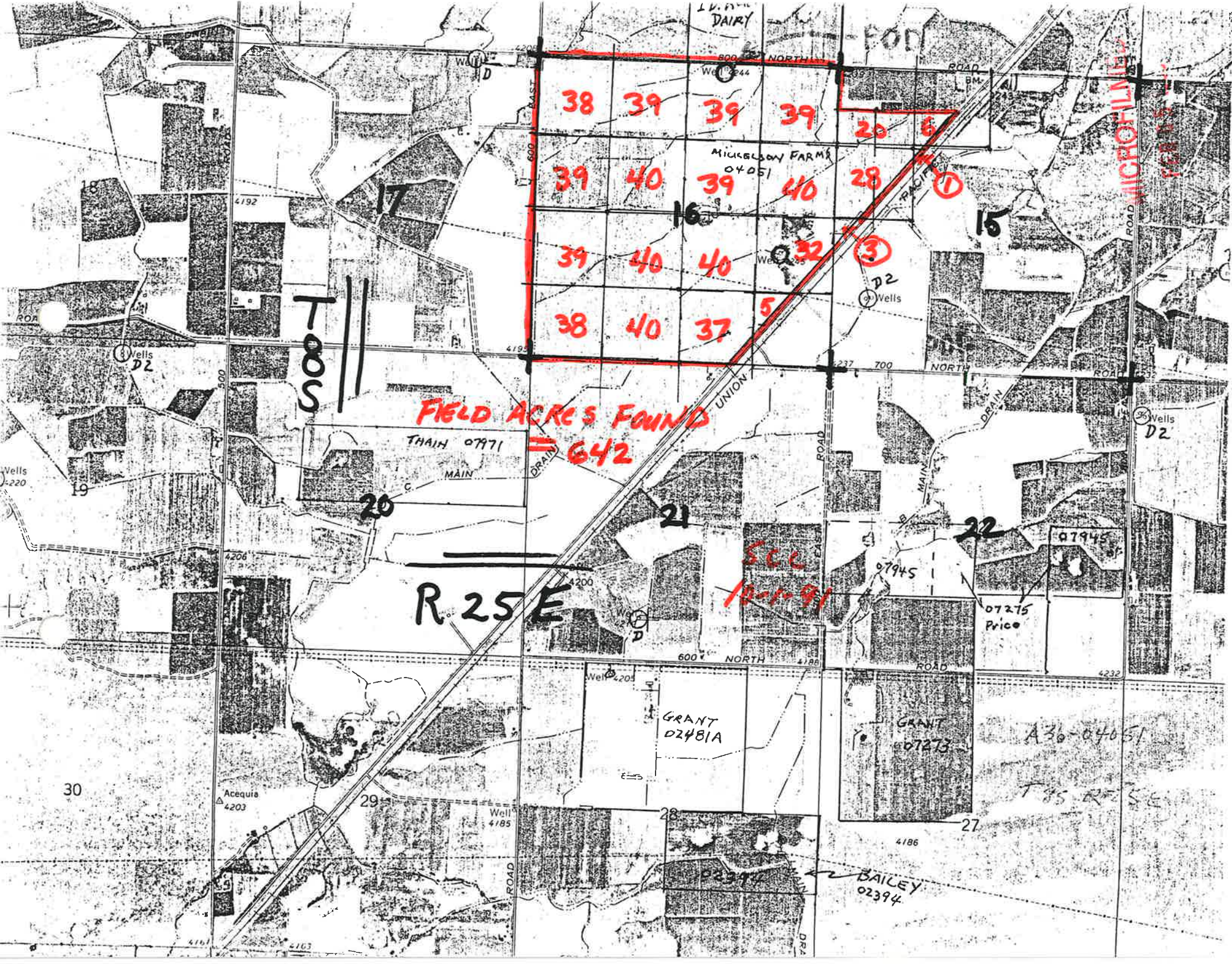
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GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: A-04 A36-04051
 DATE: 12/13/90
 BY: B. V. Kuntz

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8) \times (H.P.) \times (EFF.)}{TDH}$

SCL
10-1-91

Q = CFS

H.P. = Total Brake Horsepower of pumping plant (including booster)

EFF. = Pumping plant efficiency (ASSUME 70% OR 0.70)

TDH = total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = depth to water in FEET from land surface to pumping water level

PSI = pumping pressure measured in psi near pump
 (if open discharge assume zero [0])

$$Q = \frac{(8.8) \times (200 + 125 + 20) \times (0.745)}{[(174) + (80 \times 2.31)]} = \frac{2261.82}{358.8} = 6.30 \text{ cfs}$$

LIFT FROM:

measurement ()

owner ()

area estimate (X)

well logs ()

Booster (Y) (N)

PSI FROM:

measurement ()

owner ()

estimate (X) Pump Test 1990

owner gage ()

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

125 HP Booster rated @ 2600 RPM

REMARKS

*Compare flow rate with pump test made in 1990 = 6.26 cfs

ANNUAL VOLUME ANALYSIS

POTENTIAL Acre Feet/Acre/Annum = $\frac{(\text{DAYS IN SEASON}) \times (1.98) \times (Q)}{(\text{RECOMMENDED ACRES IRRIGATED})}$

(season)	(days)	(...)
3/15 - 11/15	246	(246) X (1.98) X (6.4)
4/1 - 11/1	215	
4/15 - 10/15	184	
3/1 - 12/1	276	(6.44)

POTENTIAL = 4.84 + (3.025) = 7.86

REQUIRED Acre Feet/Acre/Annum = 4
 (AF/Ann/Ac irrigation requirement from chart for area)

NOTE that this is NOT Consumptive use

IF POTENTIAL IS GREATER THAN REQUIRED THEN NO MEASUREMENT NECESSARY ()

IF POTENTIAL IS LESS THAN REQUIRED THEN MEASUREMENT IS NECESSARY ()

AKA: LABOR HOUSE WELL

TOTAL CFS 6.30 + 4.60 = 10.90 cfs

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FEB 05 1991

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: A36-04051
DATE: 12/13/90
BY: AKK

THEORETICAL RATE OF FLOW:

$$Q = \frac{(8.8) \times (\text{H.P.}) \times (\text{EFF.})}{\text{TDH}}$$

500-1-91

Q = CFS

H.P. = Total Brake Horsepower of pumping plant (including booster)

EFF. = Pumping plant efficiency (ASSUME 70% OR 0.70)

TDH = total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = depth to water in FEET from land surface to pumping water level

PSI = pumping pressure measured in psi near pump
(if open discharge assume zero [0])

$$Q = \frac{(8.8) \left(\dots \frac{235}{250} \dots \right) (0.70)}{\left[\left(\dots \frac{169}{169} \dots \right) + \left(\dots \frac{63}{63} \dots \times 2.31 \right) \right]} = \frac{1447.6}{314.53} = 4.60 \text{ cfs}$$

LIFT FROM:

measurement ()

owner (✓)

area estimate (X)

well logs ()

Booster (Y)

PSI FROM:

measurement ()

owner ()

estimate (✓) 1990 test

owner gage ()

(N)

NOTES ON PUMP:

Motor Make, Serial or ID

200 HP

Pump Make, Serial or ID, rating

REMARKS

Motor was operating at 17% overload.

* Compare flow rate with pump test made in 1990 = 4.55 cfs

ANNUAL VOLUME ANALYSIS

$$\text{POTENTIAL Acre Feet/Acre/Annum} = \frac{(\text{DAYS IN SEASON}) \times (1.98) \times (Q)}{(\text{RECOMMENDED ACRES IRRIGATED})}$$

(season)	(days)	
3/15 - 11/15	246	(... 246 ...) x (1.98) x (... 4 ...)
4/1 - 11/1	215	
4/15 - 10/15	184	
3/1 - 12/1	276	(... 644 ...)

$$\text{POTENTIAL} = 3.025 + (4.84) = 7.86$$

REQUIRED Acre Feet/Acre/Annum = 4

(AF/Ann/Ac irrigation requirement from chart for area)

NOTE that this is NOT Consumptive use

IF POTENTIAL IS GREATER THAN REQUIRED THEN NO MEASUREMENT NECESSARY ()

IF POTENTIAL IS LESS THAN REQUIRED THEN MEASUREMENT IS NECESSARY ()

AKA: SHOP WELL

$$\text{TOTAL CFS } 4.60 + 6.30 = 10.90 \text{ cfs}$$

MICROFILMED

FEB 05 1993