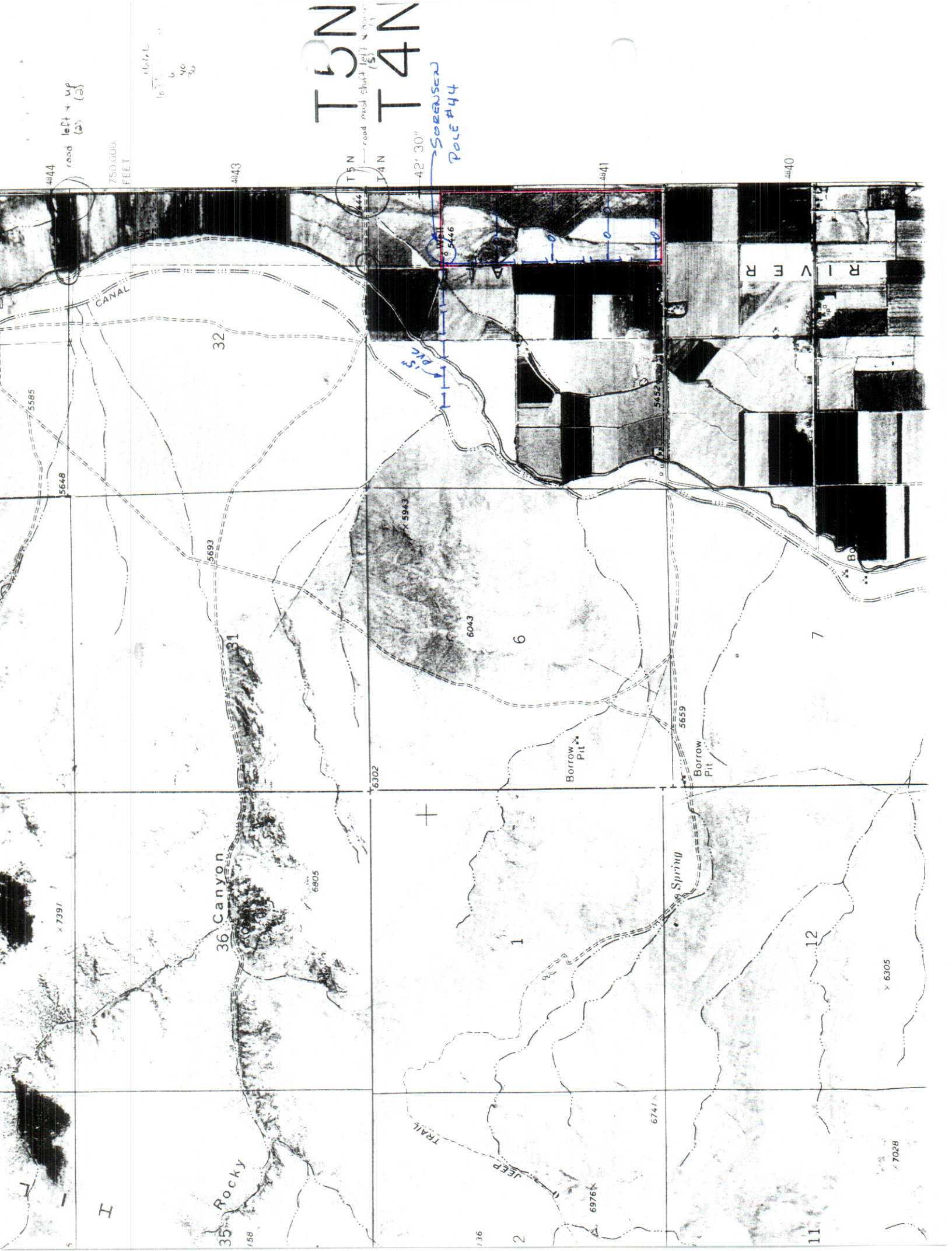




270 NOV 13 PM 1:13

1-SRBA
TWIN FALLS, IDAHO

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

In Re SRBA

Case No. 39576

)
)
)
)
ORDER OF PARTIAL DECREE

For Water Right 34-02428

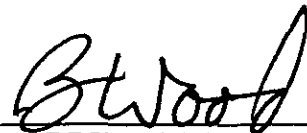
On February 25, 1999, a *Special Master's Report and Recommendation* was filed for the above water right. No Challenges were filed to the *Special Master's Report and Recommendation* and the time for filing Challenges has now expired.

Pursuant to I.R.C.P. 53(e)(2) and *SRBA Administrative Order 1*, Section 13f, this Court has reviewed the Findings of Fact and Conclusions of Law contained in the *Special Master's Report* and wholly adopts them as its own.

On June 24, 1999, in response to the Idaho Supreme Court decision in *A&B Irrigation District v. Idaho Conservation League*, 131 Idaho 411, 423, 958 P.2d 568, 580 (1998), IDWR filed a *Supplemental Director's Report, Reporting Area 1, IDWR Basin 34, Regarding Revision of Period of Use (For Irrigation Water Uses) and Conjunctive Management General Provisions* which included a recommendation for the irrigation season of use for this water right. No objections to this Supplemental Report were filed and the time period for filing objections has now expired.

Therefore, IT IS ORDERED that water right 34-02428 is hereby decreed as set forth in the attached *Partial Decree Pursuant to I.R.C.P. 54(b)*.

DATED NOV 13, 2000.



BARRY WOOD

Administrative District Judge and
Presiding Judge of the
Snake River Basin Adjudication

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

In Re SRBA)
) PARTIAL DECREE PURSUANT TO
Case No. 39576) I.R.C.P. 54(b) FOR
) Water Right 34-02428

200 NOV 13 PM 1:13

FILED
SRBA
IDAHO

NAME AND ADDRESS: MITCHELL D SORENSEN
RT 1 BOX 63-A
MOORE, ID 83255

SOURCE: GROUNDWATER

QUANTITY: 3.85 CFS

USE OF THIS RIGHT WITH RIGHT 34-12416 IS LIMITED TO A TOTAL
COMBINED DIVERSION RATE OF 3.85 CFS.

USE OF THIS RIGHT WITH RIGHTS LISTED BELOW IS LIMITED TO A
TOTAL COMBINED DIVERSION RATE OF 8.85 CFS AND TO A TOTAL
COMBINED ANNUAL DIVERSION VOLUME OF 3229.9 AF.
COMBINED RIGHT NOS.: 34-07096A, 34-07097A, 34-07223 AND
34-12416.

PRIORITY DATE: 04/01/1979

POINT OF DIVERSION: T04N R26E S05 NWSENE Within Butte County

PURPOSE AND PERIOD OF USE:	PURPOSE OF USE	PERIOD OF USE	QUANTITY
	Irrigation	04-01 TO 11-01	3.85 CFS

PLACE OF USE:	Irrigation	Within Butte County
	T03N R25E S02 LOT 03 (NENW)39.0	LOT 04 (NWNW)39.0
		SENE 40.0
	S03 LOT 01 (NENE)39.0	LOT 02 (NWNE)39.0
	T04N R25E S34 NENE 39.0	NWNE 38.0
		SENE 40.0
		NWSE 40.0
		SESE 40.0
	S35 NENW 38.0	NWNW 38.0
		SENE 40.0
		NWSW 40.0
		SESW 20.0
	R26E S05 SENE 39.0	NESE 39.0
		SESE 39.0
	945.0 Acres Total	

USE OF THIS RIGHT WITH RIGHTS LISTED BELOW IS LIMITED TO THE
IRRIGATION OF A COMBINED TOTAL OF 945 ACRES WITHIN THE PLACE OF
USE DESCRIBED ABOVE IN A SINGLE IRRIGATION SEASON.
COMBINED RIGHT NOS.: 34-00496A, 34-00692D, 34-07096A, 34-07097A,
34-07223 AND 34-12416.

THIS RIGHT IS LIMITED TO THE IRRIGATION OF 193 ACRES WITHIN
THE PLACE OF USE DESCRIBED ABOVE IN A SINGLE IRRIGATION SEASON.

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

THIS PARTIAL DECREE IS SUBJECT TO SUCH GENERAL PROVISIONS
NECESSARY FOR THE DEFINITION OF THE RIGHTS OR FOR THE EFFICIENT
ADMINISTRATION OF THE WATER RIGHTS AS MAY BE ULTIMATELY
DETERMINED BY THE COURT AT A POINT IN TIME NO LATER THAN THE
ENTRY OF A FINAL UNIFIED DECREE. I.C. SECTION 42-1412(6).

RULE 54(b) CERTIFICATE

With respect to the issues determined by the above judgment or order, it is hereby CERTIFIED, in accordance with Rule 54(b), I.R.C.P., that the court has determined that there is no just reason for delay of the entry of a final judgment and that the court has and does hereby direct that the above judgment or order shall be a final judgment upon which execution may issue and an appeal may be taken as provided by the Idaho Appellate Rules.

A handwritten signature in black ink, appearing to read "B Wood", is written over a horizontal line.

Barry Wood
Administrative District Judge
Presiding Judge of the
Snake River Basin Adjudication

2000 NOV 13 PM 02:00
DISTRICT COURT - SRBA
TWIN FALLS CO., IDAHO
FILED _____

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

In Re SRBA	)	CERTIFICATE OF MAILING
	)	
Case No. 39576	)	
_____	)	Water Right(s) : 34-02428

CERTIFICATE OF MAILING

I certify that a true and correct copy of the PARTIAL DECREE
PURSUANT TO I.R.C.P. 54(b) for WATER RIGHT 34-02428 was mailed
on November 13, 2000, with sufficient first-class postage prepaid
to the following:

DIRECTOR OF IDWR
PO BOX 83720
BOISE, ID 83720-0098

STATE OF IDAHO
Represented by:
CLIVE STRONG
NATURAL RESOURCES
DEP AG OFFICE OF ATTY GEN
STATEHOUSE MAIL
BOISE, ID 83720-0010
Phone: 208-334-2400

MITCHELL D SORENSEN
Represented by:
KENT W FOSTER
PO BOX 50130
IDAHO FALLS, ID 83405
Phone: 208-523-0620

J DOYLE JENSEN
KIRBY A JENSEN
Represented by:
NORMAN M. SEMANKO
ATTORNEY AT LAW
410 S ORCHARD, STE 144
BOISE, ID 83705
Phone: 208-344-6690

BIG LOST RIVER WTR USERS ASSN
Represented by:
WILLIAM R HOLLIFIELD
249 THIRD AVENUE EAST (83301)
PO BOX 66
TWIN FALLS, ID 83303-0066
Phone: 208-734-5610

DIANA DELANEY
Chief Deputy Clerk

Memorandum

Date: June 6, 2001
To: Mitchell Sorensen
CC to: David Shaw
File
From: Burke H. Scholer, Hydrologist
Subject: Water flow rate measurement
RE: Well located at T04N R26E Sec 05 NWSENE
Pole No. 44 Site Tag No. A0010026

On May 23, 2001 I conducted water measurements from the pump at the POD described above.

This well has a 150 HP well pump and a booster pump. The HP is not discernable on the name-plate of the booster but I believe it is 40 HP. Lost River Electric has this site listed as 190 connected HP. The water pumped from the well is distributed to two locations. One pipeline carries water from the well to a canal about ½ mile to the west. This is a 15" PVC pipeline, which open discharges into the canal. The other pipeline is pressurized from the booster pump and carries water to four, wheel-move laterals, irrigating approximately 120 acres of alfalfa. A shunt-line venturi meter is installed in the discharge pipe going to the 15" PVC pipeline.

Measurements were made using two flow meters. One was a Fuji, ultrasonic-transit time, meter mounted on the 15" PVC and the other was a Polysonic TF-P, ultrasonic-transit time, meter mounted on the 10 ¾" steel pipe. Concurrently with the flow rate measurements, readings were made from the venturi meter to determine the accuracy of it.

The first measurement was made with the well pump and the booster pump both operating. This is considered maximum flow and operating condition. Ten-minute average flow rates were recorded from each instrument. The second measurement was made with the booster pump off and the valve to the booster closed, so as to pump water through the PVC only. Power usage and pressure was recorded under both conditions.

Results of measurements:

Measurement #1: (Percent of seasonal use at this condition is approximately = 80%)

15" PVC =	2165.3 gpm (Going to canal)
10 ¾ " Steel =	<u>865 gpm (Going to wheel-lines)</u>
Total =	3030.3 gpm

Measured kW =	123.4
Measured Pressure =	20 psi
Calculated PCC =	221.16 kWh/ac.ft.
Calculated accuracy of Venturi meter =	+6.38%

Page 2

Measurement # 2: (Percent of seasonal use at this condition is approximately = 20%)

15" PVC = 2801.8 gpm (Going to Canal)

Booster Pump off

Total flow rate = 2801.8 gpm

Measured kW = 97.93

Measured Pressure = 24 psi

Calculated PCC = 189.83 kWh/ac.ft.

Calculated accuracy of Venturi meter = +6.56%

Calculated Weighted PCC = 225.65 kWh/ac.ft.

Pumping water level (depth to water in well) = 92 ft. (both measurements)

Estimated pumping plant efficiency at condition # 1 = 64%

Estimated pumping plant efficiency at condition # 2 = 79%

See attached: Power Consumption Coefficient worksheets for details

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
 Water Measurement Program

POWER CONSUMPTION COEFFICIENT WORKSHEET

District * _____ Inventory Date * _____ Inventory Examiner * _____ PCC ok? *Yes / no

Date of test * 5/27/01 Person performing test * P. SCHOLER Exam complete? *Yes / no

Name:	<u>MITCHELL SORENSON</u>
Water Right No:	<u>34-02428, 7096, 7097, 12416</u>
Legal Description:	<u>T. 04N R. 26E Sec. 05 NW 1/4 SE 1/4 NE 1/4</u>
Site Tag No:	<u>A001002C</u>
Diversion Name:	<u>POLE 44</u>

POLE #
44

WELL #
40

Current Owner

Name _____ Phone _____

Last, First, MI

Address _____ City _____ State _____ Zip _____

Operator (if leased or operated by someone else)

Name _____ Phone _____

Last, First, MI

SECTION I WELL SITE IDENTIFICATION

Global Positioning System Data:

Data Collection Filename * _____ Offset * _____

IDWR Site Tag Identification No. * _____

Site Tag location description: * _____

PLS/USGS Locator _____

Diversion Name * _____

For Department/District Use Only

Received by _____ Date _____

Reviewed by _____ Date _____

Data Entry by _____ Date _____

Well Pump and Motor Information

PUMP DATA		MOTOR DATA	
Manufacturer		Manufacturer	GE
Serial Number		Serial Number	GM1714169
Model Number		Rated Horsepower	* 150
Type		Rated Amps	173
Impeller Diameter		Rated Volts	460
Rated Speed		Rated Speed	1770
Rated Discharge		Phase	3
Rated Head		Service Factor	1.15

Booster Pump and Motor Information

PUMP DATA		MOTOR DATA	
Manufacturer	CORNELL	Manufacturer	BALDOR
Serial Number	30594	Serial Number	
Model Number	4WB40-2	Rated Horsepower	*
Type	CENT.	Rated Amps	
Impeller Diameter	6 7/8"	Rated Volts	
Rated Speed		Rated Speed	
Rated Discharge		Phase	
Rated Head		Service Factor	

Power and Water Metering Information

KILOWATT-HOUR METER		WATER MEASUREMENT EQUIPMENT and PIPE INFORMATION	
Utility	* LOST RIVER	Std Meter Manufacturer	FUJI - POLYSOLIC T.F.P.
Pole No.	* 44	Std Meter Model No.	FUJI 51011 T.F.P.
Meter Manufacturer	* SANGAMO	Std Meter Type	☒ Sonic Pyg Collins Hall ☐ Anub Dye/chem Other
Meter Serial No.	* 84 629 641	Std. Meter Confidence	☒ Excl ☐ Good ☐ Fair ☐ Poor 2% 5% 10% >10%
Disc Constant(Kh)	* 4.8	PSI gauge ID location ~ disch head?	* District / Owner ☒ ☒ Yes / No
Rated Voltage	480	Pipe material	PVC STEEL
Demand	0.772 x 160 = 123.5	Pipe Outside Diameter	PVC 15.3" STEEL 10.83"
Multiplier (Mult)	* 160	Pipe Inside Diameter	14.55 PVC STEEL = 10.62
CTR (Current) PTR (Voltage)	YES -	Distance of straight pipe upstream and down	Upstream / Down 20' + 20' +

crop	acres
ALF	80
2	
3	
4	
total	80

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 = 3 (No. of Disc Rev) Time (sec) = (84.69) + () + () / 3 = Ave BOOSTER OFF
 $3.6 \times \underline{4.8} (Kh) \times \underline{160} (Mult) \times \underline{3} (N) \div \underline{84.69} (T) = * \underline{97.93} KW = \underline{119 BHP}$

Cond.#2 N = 3 (No. of Disc Rev) Time (sec) = (67.41) + (67.03) + () / 3 = Ave BOOSTER ON
 $3.6 \times \underline{4.8} (Kh) \times \underline{160} (Mult) \times \underline{3} (N) \div \underline{67.22} (T) = * \underline{123.4} KW = \underline{148.8 BHP}$
165.4 IHP

Cond.#3 N = (No. of Disc Rev) Time (sec) = () + () + () / 3 = Ave
 $3.6 \times \underline{ } (Kh) \times \underline{ } (Mult) \times \underline{ } (N) \div \underline{ } (T) = * \underline{ } KW$

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* 2165.3 NORTH (PVC) 865.0 SOUTH #2* 2801.8 #3*
PSI Cond. #1* 3030.3 20 PSI #2* 24 PSI + 92' = 147.14 PSI #3*
46.2 + 92 = 138.2 TDH

WR CFS
834
6.75 MENS
1.59 CFS

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

PCC Cond. #1 = * 97.93 (KW) ^{131.2} $\times 5431 \div * \underline{2801.8}$ (gpm) = 189.83 (kWh/ac.ft) BOOSTER OFF
Percent of seasonal use * 20% Description * OPEN DISCHARGE

PCC Cond. #2 = * 123.4 (KW) $\times 5431 \div * \underline{3030.3}$ (gpm) = 221.16 (kWh/ac.ft) BOOSTER ON
Percent of seasonal use * 80 Description * OPEN TO FLOW ON PVC TO WELL AND BOOSTER

WEIGHTED
PCC Cond. #3 = * 118.31 (KW) $\times 5431 \div * \underline{2984.6}$ (gpm) = 215.28 (kWh/ac.ft)
Percent of seasonal use * 100% Description * BOTH CONDITIONS
WEIGHTED BASIS

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 dsch

Water Level Data

Does the well have access to measure water levels? *Yes / No
Is this well part of USGS, DWR, or another network of water level monitoring wells? *Yes / No / Uncertain
Static Water Level * ft Pumping Water Level * 92 ft (at condition #)
Date * Date * 5/23/01

Further describe system operating conditions (if necessary) and how percentage of seasonal use was obtained:

IRRIGATION SYSTEM - 4 A.L. ON 80 AC. W/ 1/2" NOZ. (128 NOZZLES)

PUMPING TO CANAL - ABOUT 1/2 MILE WEST

Sketch of pumping plant layout or attach photograph of pumping plant and piping:

VENTURI SHUNT METER

READING	Time	STOP WATCH	
START	12:55	- 0	435673
	9:59.83		435697
	19:59.45		435720
	40:23		435767
	59:55		435811

20 PSI

VENTURI SHUNT
#1320424 MASTER
10" FLG-SLV

WITH
BOOSTER
ON

$$\frac{811 - 673}{138 \times 1000} = \frac{138,000}{59.92} = \frac{2303 - 2165}{2165} \times 100 = 6.38\%$$

$$\begin{array}{l} \text{START} - 435846 \\ 12:03.41 - 435882 \\ 12:0568 \end{array} \left\} 36 \times 1000 = \frac{36000}{12.0568} = 2986$$

$$\frac{2986 - 2802}{2802} \times 100 = 6.56\%$$

#2

$$\text{IHP } 123.44 \times 1.34 = 165.419$$

BHP
748.8

$$\text{WHP} \rightarrow \frac{(3039)(1382)}{3960} = 105.74$$

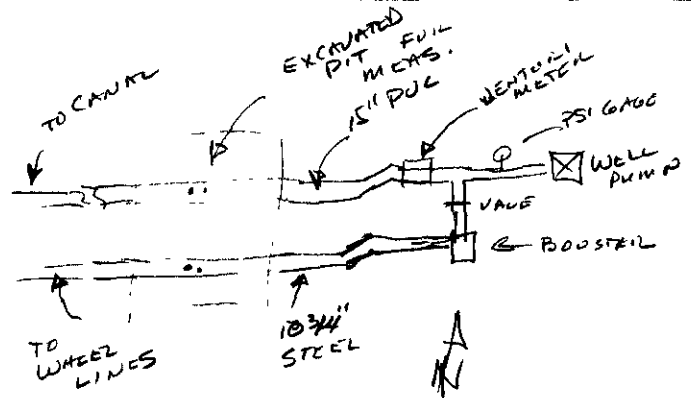
$$\frac{105.74}{165.41} = 64\%$$

IHP PUMPING PLANT EFF.

$$\text{IHP} = 97.93 \text{ KW} \times 1.34 = 131.23 \text{ IHP}$$

$$\text{WHP} = \frac{(2801.8)(147.44)}{3960} = 104.32$$

$$\frac{104.32}{131.23} \text{ IHP} = 79\%$$



Comments:

I certify that the above information is true and correct to the best of my knowledge and ability and the measurements taken and recorded are in accordance with the standards and specifications of the equipment used.

Signature Burke H. Schaefer Date 5-23-01
(person performing measurements)

No 08

Pole # 44 Sorensen, Mitch, PVC Booster Off

LOG

NAME:A0010026SORENSEN

START :05-23 16:05

END :05-23 16:15

INTERVAL:00:01:00

5/23/01 16:05

+5.368E+0 ft/s
+2.797E+3 gal/m
+TOTAL 0000000 gal
-TOTAL 0000000 gal
NORMAL

5/23/01 16:11

+5.399E+0 ft/s
+2.813E+3 gal/m
+TOTAL 0016747 gal
-TOTAL 0000000 gal
NORMAL

5/23/01 16:06

+5.365E+0 ft/s
+2.795E+3 gal/m
+TOTAL 0002748 gal
-TOTAL 0000000 gal
NORMAL

5/23/01 16:12

+5.303E+0 ft/s
+2.763E+3 gal/m
+TOTAL 0019543 gal
-TOTAL 0000000 gal
NORMAL

5/23/01 16:07

+5.347E+0 ft/s
+2.785E+3 gal/m
+TOTAL 0005549 gal
-TOTAL 0000000 gal
NORMAL

5/23/01 16:13

+5.379E+0 ft/s
+2.803E+3 gal/m
+TOTAL 0022328 gal
-TOTAL 0000000 gal
NORMAL

5/23/01 16:08

+5.387E+0 ft/s
+2.806E+3 gal/m
+TOTAL 0008343 gal
-TOTAL 0000000 gal
NORMAL

5/23/01 16:14

+5.361E+0 ft/s
+2.793E+3 gal/m
+TOTAL 0025125 gal
-TOTAL 0000000 gal
NORMAL

5/23/01 16:09

+5.422E+0 ft/s
+2.825E+3 gal/m
+TOTAL 0011135 gal
-TOTAL 0000000 gal
NORMAL

5/23/01 16:15

+5.391E+0 ft/s
+2.809E+3 gal/m
+TOTAL 0027925 gal = 2792.5
-TOTAL 0000000 gal
NORMAL

USG
TOTALIZER 2801.8
+0.33%

5/23/01 16:10

+5.396E+0 ft/s
+2.811E+3 gal/m
+TOTAL 0013943 gal
-TOTAL 0000000 gal
NORMAL

AS-23 1512400 #P
+002.90 % HI2

0405.8 MMSEC
100.46 % T0

OUTER DIAMETER
10.8299 IN

PIPE MATERIAL
CS,SS

WALL THICKNESS
0.0988 IN

KIND OF FLUID
ANOTHER

SOUND VELOCITY
1450 M/S-

SPACING
0.001 IN "

15:40+892.334E 06PM 00R
+00000 *10 G 00R
-00000 *10 G 00R

15:41+872.296E 06PM 00R
+00086 *10 G 00R
-00000 *10 G 00R

15:42+898.713E 06PM 00R
+00172 *10 G 00R
-00000 *10 G 00R

15:43+862.257E 06PM 00R
+00259 *10 G 00R
-00000 *10 G 00R

15:44+827.915E 06PM 00R
+00345 *10 G 00R
-00000 *10 G 00R

15:45+883.391E 06PM 00R
+00432 *10 G 00R
-00000 *10 G 00R

15:46+892.273E 06PM 00R
+00519 *10 G 00R
-00000 *10 G 00R

15:47+862.257E 06PM 00R
+00635 *10 G 00R
-00000 *10 G 00R

15:48+846.143E 06PM 00R
+00692 *10 G 00R
-00000 *10 G 00R

15:49+848.784E 06PM 00R
+00778 *10 G 00R
-00000 *10 G 00R

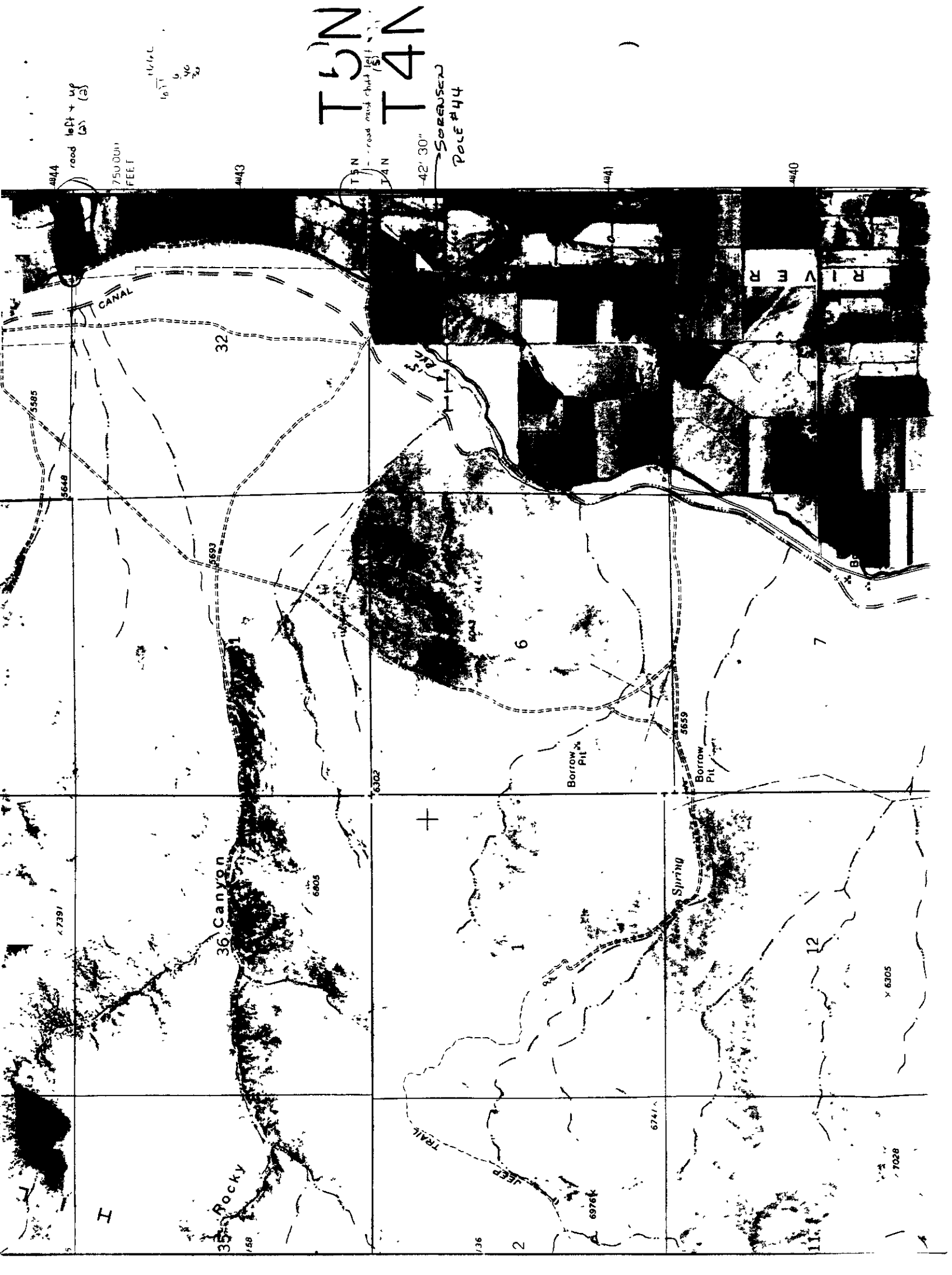
15:50+900.562E 06PM 00R
+00865 *10 G 00R
-00000 *10 G 00R

15:51+860.672E 06PM 00R
+00952 *10 G 00R
-00000 *10 G 00R

15:52+850.634E 06PM 00R
+01038 *10 G 00R
-00000 *10 G 00R

15:53+821.432E 06PM 00R
+01125 *10 G 00R
-00000 *10 G 00R

065 GPM
5/27/01
WILLIAM SOLLERSON
Page #44



MITCH
RT 1 Box 63A
MOORE ID 83255