



Idaho Department of Water Resources

MEMORANDUM

Date: December 6, 2011

Subject: T77559- ESPA Analysis

This transfer proposes to transfer Dale Cope's canal shares from Producers Irrigation Company water rights to his personal well. Dale Cope has been getting his canal shares historically from Well 10, located in T08N R33E SEC 1 SESW, B.M. On approval of this transfer, Dale Cope will drill a well located in T08N R33E SEC 12 SWSW, B.M. The current POD and the proposed POD are located within the same ESPA Model Cell, (Row 28, Column 158) therefore the ground water model analysis is not required. Producers Irrigation Company provided pump records to support the claim that Dale Cope's shares have been delivered from well 10.

From the desk of Denise Kidman

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Department of Water Resources
Eastern Region

2011 Water Measurement — 2400 acres

	<u>Weir</u>	<u>South Branch</u>	<u>5 Pivots</u>	<u>Total</u>
May	492 in	148 in	258 in	898 in
June	1670	312	572	1954
July	1500	690	645	2835
August	367	150	516	1033
September	233	291	267	791
October	297	76	129	502

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Department of Water Resources
Eastern Region

2010 Water Measurement - 2400 Acres

	<u>Weir</u>	<u>South Branch</u>	<u>5 Pivots</u>	<u>Total</u>
May	970 in	354 in	645 in	1969 in
June	1460	386	645	2491
July	1390	580	645	2615
August	492	388	516	1396
September	545	60	387	992
October	233	388	129	750

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Department of Water Resources
Eastern Region

2009

Water Measurement - 2400 acres

	<u>Weir</u>	<u>South Branch</u>	<u>s Pivots</u>	<u>Total</u>
May	715 in.	382 in.	387 in.	1490 in.
June	745	194	400	1339
July	1280	580	645	2505
August	520	388	516	1424
September	320	97	400	817
October	139	194	0	333

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Department of Water Resources
Eastern Region

Producers Irr. Co.

Water Measurement — May-Oct 2008

<u>May</u>	<u>Main Weir</u>	<u>South Branch</u>
	12.08 — Total of daily weir readings	63.4
810		
388	$12.08 \div 31 = \# \text{ days in May}$	$63.4 \div 31$
1306	.39 — Ave daily weir reading	2.05
<u>2504 in</u>	$.39 = 16.2 - 20\text{-ft weir conversion}$	$2.05 = 7.76$
	$16.2 \times 50 = \underline{810} \text{ inches}$	$7.76 \times 50 = \underline{388} \text{ in}$

$$\begin{aligned}
 11 \text{ Pivots (Diversion wells)} \times 3.2 \text{ cfs} &= 35.2 \text{ cfs} \\
 35.2 \text{ cfs} \times 50 &= 1760 \text{ in} \div 31 \text{ days} = 56.8 \\
 56.8 \text{ in} \times 23 \text{ days (monthly ave)} &= 1306 \text{ in}
 \end{aligned}$$

<u>June</u>	$19.94 \div 30 \text{ days}$	$68.7 \div 30 \text{ days}$
	.53 daily ave = 25.6 chant	2.3 = 8.8 chant
1280	$25.6 \times 50 = \underline{1280} \text{ in}$	$8.8 \times 50 = \underline{440} \text{ in}$
440		
<u>1306</u>	11 Pivots $\times 3.2 \text{ cfs} = 35.2 \text{ cfs}$	
<u>3026 in.</u>	23 days = <u>1306 in</u>	

<u>July</u>	$16.58 \div 31 = .5$	$89.8 \div 31$
	.54 daily ave = 26.3 chant	3 = 11.6 chant
1315	$26.3 \times 50 = \underline{1315} \text{ in}$	$11.6 \times 50 = \underline{580}$
580		
<u>1306</u>	11 Pivots = 23 days	
<u>3201 in</u>	1306 in	

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Department of Water Resources
Eastern Region

2010 Water Measurement - 2400 Acres

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Eastern Region

2009

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Eastern Region

Producers Irr. Co.

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11 Pivots (Diversion wells) $\times 3.2 \text{ cfs} = 35.2 \text{ cfs}$
 $35.2 \text{ cfs} \times 50 = 1760 \text{ in} \div 31 \text{ days} = 56.8$
 $56.8 \text{ in} \times 23 \text{ days (monthly ave)} = 1306 \text{ in}$

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<u>3201</u> in	1306 in	

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Department of Water Resources
Eastern Region

Producers Irr. Co.

Water Measurement - May - Oct. 2007

May

Main Weir

South Branch

1895

895

713

3503 in

21.62 — Total of daily
weir readings

$21.62 \div 31$ - # days in May

.69 - Ave daily weir reading

.69 = 37.9 - 20 ft weir
conversion

$37.9 \times 50 = \underline{1895 \text{ in}}$

$222.8 \div 31 = 7.1$

$17.9 \times 50 = \underline{895 \text{ in}}$

7.1 = 17.9 on
staff gauge chart

6 pivots $\times$ 3.2 CFS = 19.2 CFS

$19.2 \text{ CFS} \times 50 = 960 \text{ in} \div 31 \text{ days} = 31 \text{ in.}$

23 days on = 713 in

June

$15.71 \div 30 \text{ days} = .52 \text{ Ave}$

$24.8 \times 50 = \underline{1240 \text{ in.}}$

$119 \div 30 = .4$

$13.6 \times 50 = \underline{680 \text{ in}}$

1240

680

851

2771 in

7 Pivots $\times$ 3.2 CFS = 22.4 CFS

$22.4 \text{ CFS} \times 50 = 1120 \text{ in} \div 30 \text{ days} = 37 \text{ in}$

23 days on = 851 in

July

$14.22 \div 31 = .46$

$20.7 \times 50 = \underline{1035 \text{ in}}$

$97.7 \div 31 = 3.2$

$12 \times 50 = \underline{600 \text{ in.}}$

1035

600

943

2578 in

8 Pivots $\times$ 3.2 CFS = 25.6 CFS

$25.6 \times 50 = 1280 \text{ in} \div 31 = 41$

23 days on = 943 in

Producers Irr. Co.

Water Measurement → May-Oct 2007

Aug

810
580
1196

Main Weir

$$12.14 \div 31 = .39$$

$$16.2 \times 50 = \underline{810 \text{ in}}$$

South Branch

$$94.8 \div 31 = 3$$

$$11.6 \times 50 = \underline{580 \text{ in}}$$

2586 in

$$10 \text{ Pivots} \times 3.2 \text{ CFS} = 32 \text{ CFS} \times 50$$

$$= 1600 \text{ in}$$

$$23 \text{ days} = \underline{1196 \text{ in}}$$

Sep

122
291
465

878 in

$$3.3 \div 30 = 0.11$$

$$2.43 \times 50 = \underline{121.5 \text{ in}}$$

$$39.5 \div 30 = 1.3$$

$$1.5 = 9.82 \times 50 = \underline{291 \text{ in}}$$

$$9 \text{ Pivots} \times 3.2 = 28.8 \text{ CFS}$$

$$93 \text{ day} \times 10 \text{ days} = 9.29 \text{ CFS}$$

$$9.29 \text{ CFS} \times 50 = \underline{465 \text{ in}}$$

Oct

275
194

469 in

$$5.72 \div 31 = .19$$

$$5.50 \times 50 = \underline{275 \text{ in}}$$

$$28 \div 31 = .090$$

$$1 = 3.88 \times 50 = \underline{194 \text{ in}}$$

0 Pivots on Oct