



State of Idaho

DEPARTMENT OF WATER RESOURCES

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GARY SPACKMAN
Director

C.L. "BUTCH" OTTER
Governor

May 12, 2015

MITCHELL D SORENSEN
3871 W 2500 N
MOORE, ID 83255

RE: Water Rights 34-2428 and 34-12416

Dear Mr. Sorensen:

For some time I have been examining the water right files associated with a portion of your suite of water rights. It is ultimately my goal to license your permit 34-7247. My review has covered the following rights:

Water Right No.	Source	Priority	Current Owner
34-7035B	Ground Water	04/12/1973	Sorensen (prev. Perkes)
34-7096A	Ground Water	01/31/1975	Perkes (prev. Sorensen)
34-7097A	Ground Water	01/31/1975	Perkes (prev. Sorensen)
34-2428	Ground Water	04/01/1979	Sorensen
34-7223	Ground Water	04/16/1979	Perkes (prev. Sorensen)
34-12416	Ground Water	05/01/1982	Sorensen

During this research, I have come across an error in the conditions on two of your decreed rights. Because the changes in ownership and transfers (shown above) occurred close to the time that the rights were decreed in the Snake River Basin Adjudication, some of the conditions on your rights erroneously include combined limits with Mr. Perke's water rights. Specifically, rights 34-2428 and 34-12416 include the following condition:

Use of the 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.: 34-2428, 34-07096A, 34-07097A, and 34-07223.

Rights 34-07096A and 34-07097A are held by Mr. Perkes. The Department does not consider combined limits amongst rights held by different owners ideal for enforcement or regulatory purposes. If you are interested in taking corrective action to revise this error, please contact me by June 12, 2015. Thank you.

Best regards,

Ashley Newbry
Associate Engineer
(208) 287-4800

Step 0: Original Suite

PPU	Source	Right	POU (ac.)	PPU (ac.)	Acre Limit	Priority	Div. Rate	Div. Limit	Div. Limit	Div. Limit	Acre Feet	AF Limit	AF Limit
Retained by Sorensen	Big Lost River	34-692D	828	945	60	7/15/1884	1.2				no limit		
Retained by Sorensen	Big Lost River	34-496A	828	945	60	6/1/1896	1.2				no limit		
Transfer to Sorensen	Groundwater 1	34-7035B	828	945	369.5	4/12/1973	4.98		8.83		1293.3		3751.6
Ownership Chg to Perkes	Groundwater 3	34-7096A	561		92	1/31/1975	1.84				322		
Ownership Chg to Perkes	Groundwater 3	34-7097A	561		79	1/31/1975	1.58				276.5		
Retained by Sorensen	Groundwater 2	34-2428	945	945	193	4/1/1979	3.85				no limit		
Ownership Chg to Perkes	Groundwater 3	34-7223	561		80	4/16/1979	1.58	5.0			280	878.5	
Retained by Sorensen	Groundwater 2	34-12416	945	945	no limit	5/1/1982	3.85				no limit		

Step 1: Assume Todd Perkes Uses the Entirety of his rights

PPU	Source	Right	POU (ac.)	PPU (ac.)	Acre Limit	Priority	Div. Rate	Div. Limit	Div. Limit	Div. Limit	Acre Feet	AF Limit	AF Limit
Retained by Sorensen	Big Lost River	34-692D	828	945	60	1884	1.2				no limit		
Retained by Sorensen	Big Lost River	34-496A	828	945	60	1896	1.2				no limit		
Transfer to Sorensen	Groundwater 1	34-7035B	828	945	369.5	1973	4.98		8.83		1293.3		3751.6
Retained by Sorensen	Groundwater 2	34-2428	945	945	193	1979	3.85				no limit		1293.25
Retained by Sorensen	Groundwater 2	34-12416	945	945	no limit	1982	3.85				no limit		675.5
Needs the Following: *											1338.75	3751.6	3307.5 Enlrgemnt
*assume surface water rights get curtailed											1338.75	3751.6	3307.5 Combined GW

Step 3: Limit Proposed License 34-7247 to the Beneficial Use and remove WR Overlap (with 34-13841)

Beneficial Use	Groundwater 2	34-7247		945	188.4	1980	3.77				659.4		3966.9 Combined GW
WR Overlap (20 acres)	Groundwater 2	34-7247		945	168.4	1980	3.37				589.4		3896.9 Combined GW

Step 4: Allow for 70% Conveyance Efficiency

WR Overlap	Groundwater 2	34-7247		945	168.4	1980	3.37				589.4		3896.9 Combined GW
30% Loss	Groundwater 2	34-7247		945	168.4	1980	1.01				176.8		
Sum	Groundwater 2	34-7247		945	168.4	1980	4.38				766.2		4073.7 Combined GW

Step 5: Compare the Proposed License 34-7247 to the Permitted Amount

Sum	Groundwater 2	34-7247		945	168.4	1980	4.38				766.2		4073.7 Combined GW
Permit 34-7247	Groundwater 2	34-7247		945	200	1980	4.49						

KDN
6/10/2015

PPU

Right	Decreed							
34-692D	5/22/2001	34-469A	34-692D	34-2428	34-7096A	34-7097A	34-7223	34-12416
34-496A	5/22/2001	34-496A	34-692D	34-2428	34-7096A	34-7097A	34-7223	34-12416
34-7035B	2/15/2002	34-496A	34-692D	34-2428				34-12416
34-7096A	2/15/2002							
34-7097A	2/15/2002							
34-2428	11/13/2000	34-496A	34-692D	34-2428	34-7096A	34-7097A	34-7223	34-12416
34-7223	2/15/2002							
34-12416	5/9/2001	34-496A	34-692D	34-2428	34-7096A	34-7097A	34-7223	34-12416

9/20/15
X
N