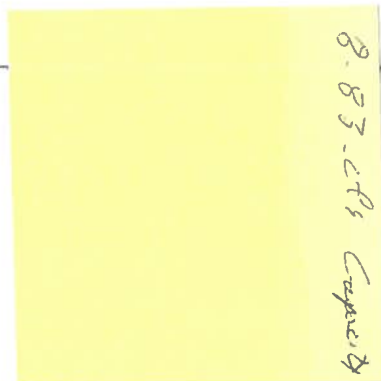


Edl, Michele

From: Walker, Kay
Sent: Tuesday, November 25, 2008 2:48 PM
To: Edl, Michele
Cc: Walker, Kay
Subject: RE: Simplot 63-10034
Attachments: Simplot Capacity.pdf



The capacity for the food processing system is limited to 8.83 cfs based upon discharge records that were given to me as part of their evidence of priority and use. I could send you a copy of my quantity determination memo if that would help you. Since the plant use is all covered under the older rights I have not attached that to this e-mail.

I am glad you questioned the system capacity! In looking through my notes I found that the wells can actually produce 12.48 cfs. I will need to go in and change my combined capacity condition. I am attaching a copy of the information I obtained from our files and information provided at the time of my exam, along with information from Carter's exam, that I based my combined capacity on. If you will notice I am recommending 6 wells for these rights rather than the 5 active wells Carter identified. I added in the "parking lot" well that could be used if they wanted. I did not allow a rate for that well but did see it and there is still electricity connected to it so it could be considered a back-up well in case it was needed.

The change in quantity may also change the combined volume limit since I used the volume limitation based on plant use (8.83 cfs x 1.9835 x 330 days). The volume of 12.48 cfs for irrigation use might allow a higher volume limit than what I determined. Please let me know what you plan to recommend for licensing so I can revise what I need to revise before my meeting with Vic. Thanks!!

From: Edl, Michele
Sent: Tuesday, November 25, 2008 2:04 PM
To: Walker, Kay
Subject: RE: Simplot 63-10034

Kay,

I made a stab at trying to understand this group today and will try to finish my little part of it based on your recommendations. One question I have is **how did you determine the system capacity (9.96 cfs) on the food processing common system?** The field exam I had for 63-10034 gave capacity as 9.36 cfs and a license would have been limited by the exam fee to 5.0 cfs. I recently got Vic Conrad to supply us a check for the additional rate and it looks like I will be returning that \$150 fee.

I haven't found your starting capacity number but I think I can track how we all end up with only 1.94 cfs assigned to 63-10034.

I have no problems with your changes to the shape. I was going to round things when I got back into it for licensing.

Shelley is gone until next Monday. I don't want to sabotage your work. Luckily, Shelley will have to approve anything I come up with for licensing so your work should be safe. But 63-10034 won't be finished here until Tuesday Dec 2 at the earliest.

Michele

From: Walker, Kay
Sent: Monday, November 24, 2008 9:27 AM
To: Edl, Michele
Cc: Walker, Kay
Subject: Simplot 63-10034

Michele: I have made my recommendations on the rights that will overlap with License 63-10034. I have scanned in a copy of my "Simplot" review sheet that may help you in finalizing their license on Permit 63-10034. The way I see it you could go a couple of ways on that one. The system capacity is 9.96 cfs. I have recommended 1" per acre to all the claims they had filed within a 933 acre ppu. The ppu is based upon the shape file you had created and then I removed a portion of it in Sec. 19 (NENE & NENW)

11/25/2008

because it had been sold and I added section 12 (E1/2SE) that was included in Carter's exam recommendation. I also rounded the acres recommended to whole numbers rather than have some 10th's in there. I have made recommendations on 401 acres of the 933 acre ppu. Because I did not have documentation to show exactly how many acres were developed under each priority date I felt I needed to limit the rights to an inch per acre. The surface rights that are older than the groundwater rights made it impossible to determine when each piece of land was added to the groundwater system.

The way I have made recommendations there is no need to allow more industrial water for their waste water from plant. I have covered the water used in the SRBA.

You could either:

License for 97 acres within the 933 acre ppu at 1.94 cfs

Or

License for 532 acres within the 933 acre ppu at 1.94 cfs.

Seeing how they have lots of surface water on this property, along with all the wastewater from their plant, they won't be hurting for water no matter how we license the permit. Hopefully the spread sheet will assist you in seeing what I have done. Also – the recommendations (for all but the permit and 63-21537) are out there on workflow so you can print them out if you want to.

If you have any questions or concerns about my recommendations, please let me know real soon. I am planning on working through their stock water claims the first of next week and then requesting a meeting with Vic so we can discuss what I have done and try to resolve the objections submitted in SRBA.

Thanks!!

Kay

SWNE

1210345
6/24/98
724694
Well #10

1210308
#9
724692
Plant 1
GPS by DEQ

SENE
724693
Well #4
(1210370)

NWSE

NESE

SWSE

SESE

Sec. 19 - 4N-3W

Sec. 20 - 4N-3W

SWNW

1210308
724700
Purifying
for Well

NWSW

SWSW

1210347
#10
724685
Plant 2
GPS by DEQ

NESW

SESW

1210344
#8
724691
Plant 3
GPS by DEQ

Per DEQ & Carter's '87 exam & mt exam 7/24/08 - fu)

Well Name	Date	Status	Location	Quantity	per Don Martin (11/20/1985)	Per DEQ Info in ArcView
Main Well (No. 1)	1943	abandoned	NESE, 19	2.25 cfs		
Supher Well (No. 2)	1942	abandoned	NESE, 19	3.77 cfs		
South Well (No. 3)	1947	Bacteria Lab	NESE, 19	2.25 cfs		
No. 9	1977	Plant 1	NESE, 19			
Hog House Well (No. 4)	1944	Alcohol Plant, etc.	SENE, 19	2.25 cfs		
Park Lot Well (No. 5)	1957	not used	NWSW, 20			
No. 6	1961	Offices & cattle	NWSE, 19			
No. 7	1989	replaced by #8	NWSW, 20			
No. 8	1972	Technical Center	NESW, 20		200-300 GPM (in 1985)	
No. 10	1985	Plant 2	NWSW, 20	>7.0 cfs		

Hog House Well					per Dan Nelson (10/23/2001)	
300 Well			SENE, 19, 4N, 3W		System 1 - Simplot Feedlot	
New Well			NENW, 19, 4N, 3W		System 1	
Hospital Well			NENW, 19, 4N, 3W		System 1	
Pen 315 Well			NWNE, 19, 4N, 3W		System 1	
Pen 401 Well			SESW, 18, 4N, 3W		System 1	
Artesian 500 Well			SWSW, 18, 4N, 3W		System 1	
Post Place Well			NENW, 24, 4N, 4W		System 1	
South Well #3			SWSE, 13, 4N, 4W		System 1	
Hog House Well #4			NESE, 19, 4N, 3W		System 2 - Food Processing	
No. 6			SENE, 19, 4N, 3W		System 2	
No. 8			NWSE, 19, 4N, 3W		System 2	
No. 9			NESW, 20, 4N, 3W		System 2	
No. 10			NWNNW, 19, 4N, 3W		System 2	
			SENW, 20, 4N, 3W		System 2	

Well #9		Plant 1	NESE, 19, 4N, 3W	1500 gpm***	per Carter Fritzsche 7/1/87	DEQ - GPS - E0008481*
Well #8		Plant 2	NESW, 20, 4N, 3W	Estimated 2700 gpm**		DEQ - GPS - E0008482*
Well #10		Plant 2	NWSW, 20, 4N, 3W	Estimated 400 gpm**		DEQ - GPS - E0008483*
Well #4			SENE, 19	Estimated 1000 gpm**		
Well #6			NWSE, 19	no longer in service		
Well #1				no longer in service		
Well #2				no longer in service	can be used in Bacteria Plant**	
Well #3				no longer in service		
Well #5				no longer in service		
Well #7				no longer in service	1985 - Technical Center**	

* Arcview 7/18/2008
 ** per Don Martin
 *** measured by CF

Well #9	1977	Plant 1	NESE, 19, 4N, 3W	3.34 cfs	per Field Exam 7/24/2008	DEQ - GPS - E0008481*
Well #8	1972	Plant 2	NESW, 20, 4N, 3W	6.02 cfs		DEQ - GPS - E0008482*
Well #10	1985	Plant 2	NWSW, 20, 4N, 3W	6.02 cfs		DEQ - GPS - E0008483*
Well #4	1944	Hog House	SENE, 19	0.89 cfs		
Well #6	1961	Offices & Cattle	NWSE, 19	2.23 cfs		
Park Lot Well (No. 5)	1957	Could be used if needed	NWSW, 20	0.00 cfs		
				18.50 cfs		

Note: Wells 8 & 10 are used on alternating basis so total is 12.48 cfs

2008/10/8

Supplemental Information

Simplot has five active wells that are the sources for water rights 63-2731, 63-3107, 63-4968, 63-5036, 63-5037, 63-5039, 63-7244, and this water right. All seven of these water rights overlap this right either for the point of diversion or the place of use or both. However, the actual amount of water being used does not appear to exceed the amount of water licensed for water rights 63-2731 and 63-3107. These two water rights have a combined diversion rate of 12.748 cfs (5721 gpm). The maximum industrial usage appears to be 12.48 cfs (5600 gpm). This makes the industrial portion of the four claims and license 63-7244 superfluous. Also, the extent of the irrigation claimed on 63-5036, 63-5037, and 63-5039 seems unlikely since much of the land claimed has not yet been incorporated into their wastewater reuse system. The following information on the wells was obtained 7-1-87 and 7-8-87. The estimated flow rates were supplied by Don Martin.

Well # 4: Located in the SE 1/4 of the NE 1/4 of Section 19. It has a Fairbanks Morse 60 HP motor (SN 269460) and a Pomona turbine pump with an estimated flow of 400 gpm.

Well # 6: Located in the NW 1/4 of the SE 1/4 of Section 19. It has a General Electric 100 HP motor (SN SVJ 519117) and a Peerless turbine pump with an estimated flow of 1000 gpm.

Well # 8: Located in the NE 1/4 of the SW 1/4 of Section 20. It has a U.S. Motors 125 HP motor (SN C-2949-01-272) and a Peerless turbine pump with an estimated flow of 2700 gpm. This estimate may be too high, since the field exam for 63-7244 shows a flow of 2350 gpm from what appears to be Well # 8.

Well # 9: Located in the NE 1/4 of the SE 1/4 of Section 19. It has a U.S. Motors 125 HP motor (SN R-9982-03-826) and a Peerless turbine pump with a measured flow of 1500 gpm.

Well # 10: Located in the NW 1/4 of the SW 1/4 of Section 20. It has a U.S. Motors 125 HP motor (SN R-9982-05-953) and a Peerless turbine pump with a measured flow of 2700 gpm.

Wells # ^{ok}1, # ^{ok}2, # ^{ok}(3)* # 5, and # (7) are no longer in service.

The water from Wells # 8 or # 10 supply Plant II. The water from Well # 9 supplies Plant I and can be piped to either of two storage tanks. A 250,000 gallon storage tank is west of the well, and a 100,000 gallon storage tank is east of the well. Two 75 HP centrifugal pumps located in the building on the south side of the 100,000 gallon storage tank pump water from the storage tank to Plant I. A 10 HP centrifugal pump is used to supply domestic water when the plant is not in production.

(3)* can be used in Bacteria Lab.

(7)* used in 1985 for Technical Center (200-300 gpm)

Supplemental Information (continued)

The waste water from the processing plants is collected on the south side of State Highway 19, and it is piped through a 20" concrete tile to the recovery plant on the north side of State Highway 19. The five 75 HP Fairbanks Morse centrifugal pumps ("potato pumps") pump the water into an 18" PVC underground pipe with seven discharge points (the lagoon and open ditches). Approximately 75 % of the irrigation water required for these lands can be supplied by the wastewater from the plant. Three relift pumps recirculate the tailwater from the fields back into the irrigation system so none of the wastewater from the processing plants leaves the land as surface runoff. The crops being grown are corn, grass for green chop hay, barley, and a research plot with 12 acres of trees.

I was not shown the well described in water right 63-7678 that is licensed for stockwater use at the feedlot.