Permit No. 83123

THE STATE OF NEVADA

PERMIT TO CHANGE THE PUBLIC WATERS OF THE STATE OF NEVADA HERETOFORE APPROPRIATED

Name of Permittee:	**2008 VLOT REVOCABLE TRUST**
Source:	**UNDERGROUND**
Basin:	**SMITH VALLEY**
Manner of Use:	**COMMERCIAL**
Period of Use:	**JANUARY 1ST THROUGH DECEMBER 31ST**
Priority Date:	**03/03/1948**

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APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit to change the point of diversion, place and manner of use of the waters of an underground source as heretofore granted under Permit 12305, Certificate 3679, is issued subject to the terms and conditions imposed in said Permit 12305, Certificate 3679 and with the understanding that no other rights on the source will be affected by the change proposed herein. This well shall be equipped with a two (2) inch opening for measuring depth to water. A totalizing meter must be installed and maintained in the discharge pipeline near the point of diversion and accurate measurements must be kept of water placed to beneficial use. The totalizing meter must be installed before any use of the water begins or before the proof of completion of work is filed. If the well is flowing, a valve must be installed and maintained to prevent waste. This source is located within an area designated by the State Engineer pursuant to NRS 534.030. The State retains the right to regulate the use of the water herein granted at any and all times.

The permittee shall keep monthly records of the amount of water pumped from this well and the records submitted to the State Engineer on an annual basis by February 15th of each year.

This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The total combined duty of water under Permits 83121, 83122, and 83123 shall not exceed 178.552 acre-feet annually.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies.

If any water under this permit is cancelled or any water is not put to beneficial use, it will revert to the groundwater source and not back to the base water right.

The point of diversion and place of use are as described on the submitted application to support this permit.

(Continued on Page 2)

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, **and not to exceed 0.0067 cubic feet per second or 4.85 acre-feet annually.**

Work must be prosecuted with reasonable diligence and proof of completion of work shall be filed on or before: **July 22 2015**

Water must be placed to beneficial use and proof of the application of water to beneficial use shall be filed on or before: **July 22 2017**

Map in support of proof of beneficial use shall be filed on or before: **N/A**

IN TESTIMONY WHEREOF, I, JASON KING, P.E.,

State Engineer of Nevada, have hereunto set my hand and the seal of my office, this 22nd day of **July, 2014**

P.E.

State Engineer

Application No. 83123

APPLICATION FOR PERMISSION TO CHANGE POINT OF DIVERSION, MANNER OF USE AND PLACE OF USE OF THE PUBLIC WATERS OF THE STATE OF NEVADA HERETOFORE APPROPRIATED

THIS SPACE FOR OFFICE USE ONLY

Date of filing in State Engineer's Office SEP 27 2013

Returned to applicant for correction

Corrected application filed Map filed Sept 27 2013 under 83121

The applicant 2008 Vlot Revocable Trust

PO Box 367 (Street Address or PO Box) of Chowchilla (City or Town)

CA 93610 (State and ZIP Code) hereby make(s) application for permission to change the

☑ Point of diversion ☑ Place of use ☑ Manner of use ☐ of a portion

of water heretofore appropriated under (Identify existing rights by Permit, Certificate, Proof or Claim Nos. If Decreed, give title of Decree and identify right in Decree.)

Permit No. 12305, Certificate No. 3679

RECEIVED 2013 SEP 27 AM 8:

STATE ENGINEERS OFFICE

1. The source of water is Underground

Name of stream, lake, underground, spring or other sources.

2. The amount of water to be changed 0.0067 cfs

Second feet, acre-feet. One second foot equals 448.83 gallons per minute.

3. The water to be used for Commercial

Irrigation, power, mining, commercial, etc. If for stock, state number and kind of animals. Must limit to one major use

4. The water heretofore used for Stockwatering and Domestic

If for stock, state number and kind of animals.

5. The water is to be diverted at the following point (Describe as being within a 40-acre subdivision of public survey and by course and distance to a found section corner. If on unsurveyed land, it should be stated.)

In the SW1/4NW1/4 Section 26, T.12 N., R.23 E., M.D.B. & M., Whence the West quarter corner of said Section 26 bears S.46°19'25"W, 1,625.21 feet distant.

6. The existing point of diversion is located within (If point of diversion is not changed, do not answer.)

SW1/4SW1/4 Section 36, T12 N., R.23 E., M.D.B. & M , or at a point from which the SW Section Corner of Section 12, T.11 N., R.23 E., M.D.B.&M., bears S.00°33'20" W., 11826.40 feet.

S. V. 9/07

88123

7. Proposed place of use (Describe by legal subdivisions. If for irrigation, state number of acres to be irrigated.)
S1/2 of the SW1/4 of Section 23; NW1/4 and N1/2 of the SW1/4 of Section 26, all in T.12 N., R.23E., M.D.B. & M.

8. Existing place of use (Describe by legal subdivisions. If changing place of use and/or manner of use of irrigation permit, describe acreage to be removed from irrigation.)
SW1/4 SW1/4 Section 36, T.12 N., R.23E., M.D.B. & M.

9. Proposed use will be from January 1st (Month and Day) to December 31st (Month and Day) of each year.

10. Existing use permitted from January 1st (Month and Day) to December 31st (Month and Day) of each year.

11. Description of proposed works. (Under the provision of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) (State manner in which water is to be diverted, i.e., diversion structure, ditches, pipes and flumes or drilled well, pump and motor, etc.)
Drilled well with pump and motor then piped throughout the place of use as needed to supply water to a commercial dairy.

12. Estimated cost of works $300,000.00

13. Estimated time required to construct works 3 years
If well completed, describe well.

14. Estimated time required to complete the application of water to beneficial use 8 years

15. Provide a detailed description of the proposed project and its water usage (use attachments if necessary): (Failure to provide a detailed description may cause a delay in processing.)
See attached Water Usage Estimate for the Commercial Dairy.

16. Miscellaneous remarks:
We are requesting to move all of the water from Permit No. 12305, Cert. No. 3679 to be used for a commercial Dairy. 0.0067 cfs and 1,580,564 gpy.

dneubauer@lumosengineering.com
E-mail Address

(775)423-2188
Phone No. Ext.

APPLICATION MUST BE SIGNED
BY THE APPLICANT OR AGENT

Dean Neubauer, P.L.S.
Type or print name clearly

Signature, applicant or agent

Lumos & Associates
Company Name

178 S. Maine Street
Street Address or PO Box

Fallon, NV 89406
City, State, ZIP Code

AGPROfessionals, LLC
4350 Highway 66
Longmont, CO 80504
Telephone (970) 535-9318
www.agpros.com

Project Number: Vlot
Designed By: Agpro
Checked By: CTV
Subject: Water Evaluation for Smith Valley ave Milkers only

Date: July 10, 2013
Sheet: ____ of ____

WATER USAGE ESTIMATE

Nevada, Smith Valley

Inputs 13.33 Calving interval 50% heifers

	HERD COMPOSITION			
	Description	Number	% of Herd	Ave. Weight
1	Milk Cows	3200	83%	1400
2	Dry Cows	656	17%	1550
	TOTAL MATURE COWS	3856		
	Heifers	400		
3	16-24 Months	400	38%	1050
4	13-15 Months	0	12%	800
5	9-12 Months	0	17%	600
6	5-8 months	0	17%	400
7	3-4 Months	0	8%	250
8	0-2 Months	0	8%	150
	TOTAL HEAD OF CATTLE	4256		

MILK HOUSE AND COOLING NEEDS estimated at 16.7 gal/cow/day

Inputs

Are misters over the feed line being used	Yes	Months	6		
Are sprinklers in the holding pen going to be used	No	Months	5		
Will the milk barn have flush	Yes	Recycled H_2O	Yes		
Are the compressors water cooled	Yes				
Are the vacuum pumps water cooled	No				
Is fresh water used for plate cooler	Yes	Cont. flow	No	Pipe Dia	1 1/2
Number of milkings per day	3				
Number of Bulk Tanks	2				

Description	Gal/cow/day
Misters	4.5
Sprinklers	4.0
Hand udder wash	0.7
Compressors	1.5
Vacuum pump	5.0
Per Wash Uses	Gal/Wash
Floor Wash (Hose)	500.0
Pipeline Wash	250.0
Plate cooler	13500.0
Barn Flush	Recycled
Per Day Uses	Gal/Day
Tank Wash	420.0

Misc. Equipment	30.0
Total	53438.2 gal/day

	Animal Description	Ave Milk	80 degrees	T gal/day	60 degrees	T gal/day	40 degrees	T gal/day
1	Milk Cows	75	29.4 /cow	93,987	30.8 /cow	98,468	26.7 /cow	85,346
2	Dry Cows	1550	16.6 /cow	10,860	12.3 /cow	8,041	9.9 /cow	6,511
3	16-24 Months	1050	12.6 /cow	5,020	9.4 /cow	3740	7.5 /cow	3000
4	13-15 Months	800	9.5 /cow	0	7.1 /cow	0	5.7 /cow	0
5	9-12 Months	600	8.4 /cow	0	6.3 /cow	0	5.0 /cow	0
6	5-8 months	400	4.7 /cow	0	3.6 /cow	0	2.9 /cow	0
7	3-4 Months	250	3.3 /cow	0	2.5 /cow	0	2.0 /cow	0
8	0-2 Months	150	2.0 /cow	0	1.5 /cow	0	1.2 /cow	0
	Total			109,867	Gals/Day	110,249	Gals/Day	94,858

Supporting Documents

- *Fresh Water Needs for Dairy Farms* by Dean E. Falk, Estension Dairy Specialist, University of Idaho
- *Water Supply and Distribution* by Douglas J. Reinemann, Ph.D. University of Wisconsin-Madison 2004

Average Usage per month for Livestock waterers				Usage including Barn, etc.		
	Av Hi Temp	Ave. Gal/D	Ave Month	Total	Total Mo	
January	31	87,162	2,702,018	64,383	1,995,885	4,697,903
February	36.3	91,010	2,548,273	64,383	1,802,735	4,351,008
March	41.7	94,858	2,940,587	64,383	1,995,885	4,936,472
April	47.1	98,706	2,961,165	64,383	1,931,502	4,892,667
May	55.3	106,401	3,298,439	64,383	1,995,885	5,294,324
June	64	110,249	3,307,474	64,383	1,931,502	5,238,976
July	70.7	110,058	3,411,804	64,383	1,995,885	5,407,689
August	69.1	110,154	3,414,764	64,383	1,995,885	5,410,649
September	60.8	110,249	3,307,474	64,383	1,931,502	5,238,976
October	49.8	98,706	3,059,871	64,383	1,995,885	5,055,756
November	38.7	91,010	2,730,293	64,383	1,931,502	4,661,794
December	38.7	91,010	2,821,302	64,383	1,995,885	4,817,188

Drinking Water Totals		Barn Water Totals
Peak Month	3,414,764 gal/mo	1,931,502 gal/mo
Total for Year	36,503,464 gal/yr	23,499,938 gal/yr

Full Facility totals

Peak Month 5,410,649 gal/month

Total for Year 60,003,402 gal/year 184 acre-ft 5,346,265 gal/mon

Max flow rate with 121 gallons per minute with 58 000 gallons storage 8 hr fill time