



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: 07/20/1955

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 a portion of the waters of an underground source as heretofore granted under Permit 16628, Certificate 5317, is issued subject to the terms and conditions imposed in said Permit 16628, Certificate 5317 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 and 83122 shall not exceed 173.70 acre-feet annually.

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 0.4859 cubic feet per second or 135.08 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:

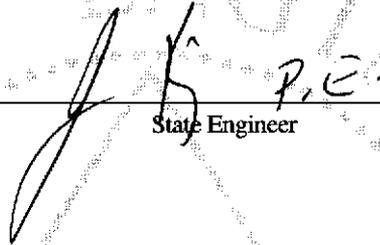
July 22 2017

Map in support of proof of beneficial use shall be filed on or before:

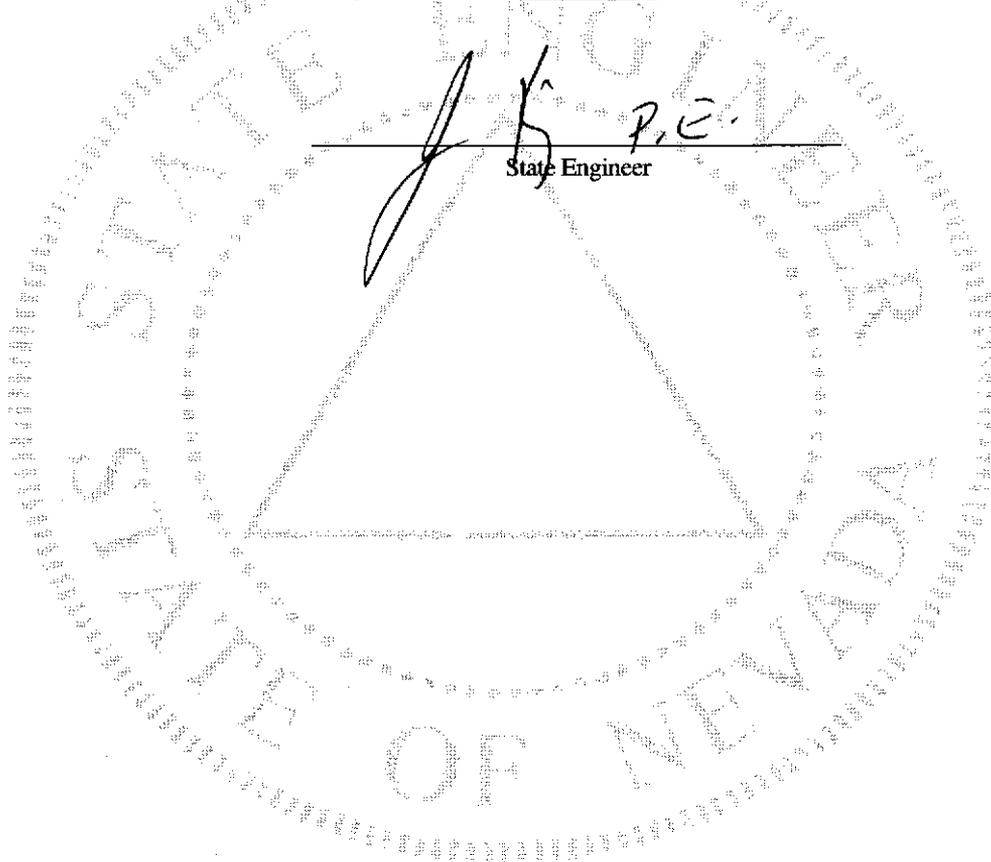
N/A

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



State Engineer



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 SEP 27 2013

The applicant 2008 Vlot Revocable Trust
PO Box 367 of Chowchilla
Street Address or PO Box City or Town
CA 93610 hereby make(s) application for permission to change the
State and ZIP Code

- 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. 16628, Certificate No. 5317

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STATE ENGINEER'S 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 0.4859 cfs, 135.07 AcFe. (SEE #14)
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 Irrigation
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.)
SE1/4NW1/4 Section 36, T12 N., R.23 E., M.D.B. & M., or at a point from which the NW corner of said Section 36 bears N.49°24' W., 2489.2 feet.

Smith Valley
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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.)

This application requests to remove 54.033 Acres total from the NW1/4 NE1/4(38.000ac) and portions of the NE1/4 NW1/4 (4.218ac) and SW1/4 NE1/4(11.815ac) of Section 36, T.12 N., R.23 E., M.D.B. & M. All of the water being removed is from within the boundaries of Parcel Nos. 1, 2 and 3 of Parcel Map #1 recorded October 21st, 2003, under File No. 306665, Lyon County Records.

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

10. Existing use permitted from April 1st to October 31st of each year.
Month and Day Month and Day

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.)

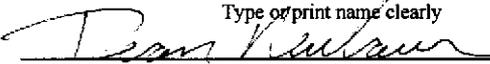
See attached Water Usage Estimate for the Commercial Dairy.

16. Miscellaneous remarks:

Portions of the water from Permit No. 16628, Cert. No. 5317 along with portions of the water from Permit No. 18368, Cert. No. 5689 which are supplemental to each other will be moved to supply water for a new commercial dairy. This application requests to move 0.4859 cfs and 44.013,769 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



4350 Highway 66
 Longmont, CO 80504
 Telephone (970) 535-9318

www.agpros.com

Project Number: Vlot

Date: July 10, 2013

Designed By: Agpro

Sheet: of

Checked By: CTV

Subject: Water Evaluation for Smith Valley ave Milkers only

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
- Are sprinklers in the holding pen going to be used
- Will the milk barn have flush
- Are the compressors water cooled
- Are the vacuum pumps water cooled
- Is fresh water used for plate cooler
- Number of milkings per day
- Number of Bulk Tanks

Yes	Months	6			
No	Months	5			
Yes	Recycled H ₂ O	Yes			
Yes					
No					
Yes	Cont. flow	No	Pipe Dia	1 1/2	
3					
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

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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

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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

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