NOV 16 1981

WATER RIGHTS
1636 West North Temple, Rm 220
Salt Lake City, Utah 84116

Form 40

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RIGHTS

DEE C. HANSEN
STATE ENGINEER

EARL M. STAKER
DEPUTY

200 EMPIRE BUILDING
231 EAST 400 SOUTH
SALT LAKE CITY, UTAH 84111
(801) 533-6071

DIRECTING ENGINEERS
HAROLD D. DONALDSON
DONALD C. NORSETH
STANLEY GREEN
ROBERT L. MORGAN

November 13, 1981

Great Salt Lake Minerals & Chemicals Corporation
P. O. Box 1190
Ogden, Utah - 84402

Dear Applicant:

RE: Application No. 37031 (13-1109)

Your proof for the above application was received from your engineer Mr. John A. Bradshaw on February 20, 1981
It will be checked in the field by a representative of this office as part of routine processing. It will then be reviewed and returned to your engineer for any necessary corrections and signatures. The primary responsibility for its form and its accuracy lies with your engineer; however, you will receive copies of the letter or review and any other correspondence related to your proof.

Proofs are normally reviewed as groups from the various areas; therefore, they may be in our possession for several months before being checked and reviewed. During this time, no further action is required on the part of you or your engineer unless notified by this office.

Sincerely,

Joann Padley

PROOF DEPARTMENT

FORM 49

STATE OF UTAH

PROOF OF APPROPRIATION OF WATER

Do not fill out this blank until you have read carefully the Instructions in the body and on the back hereof.

Application No. 37031 (13-1109)

1. Irrigation ☐ Domestic ☐ Stockwatering ☐ Municipal ☐ Power ☐ Mining ☒ Other Uses ☐.
2. The name of the appropriator is Great Salt Lake Minerals & Chemicals Corporation
3. The post-office address of the appropriator is P.O. Box 1190, Ogden, Utah 84402
4. The quantity of water appropriated is - second-feet or 17,792 acre-feet
5. The water is used each year for Flushing of Evaporation Ponds from Jan. 1 to Dec. 31
   other use period ..... from ..... to .....
   and stored each year (if stored) ..... from ..... to .....
   (MONTH/DAY) (MONTH/DAY)
6. The drainage area to which the direct source of supply belongs is: ..... (LEAVE BLANK)
7. The direct source of supply is† Bear River Bay (NAME OF STREAM OR OTHER SOURCE)
   which is tributary to ....., tributary to .....

†Note—When diverted from underground sources list as "underground water" and show the means by which it is diverted such as well, underground drain, or tunnel. If the water is to be taken from a stream, spring, spring area, or surface drain, so indicate, giving its name, and the stream channels to which it is tributary.

8. The point of diversion from stream, spring, spring area, drain, well (flowing or pump), tunnel, or Bear River Bay is in Box Elder (STRIKE WORDS NOT NEEDED) county, situated at a point* as follows: (See Paragraph 8 continued under General Remarks)

*NOTE—Locate the point at which water is first diverted from its source or channel with reference to the same tie corner used in the approved application. In case of storage on the natural channel, or diversion by means of dam, describe the point of intersection of stream bed with the center line of the impounding or diverting dam. If a spring area, describe the point at which water is collected and diverted therefrom, and under General Remarks give a description of closed traverse by metes and bounds of said area.

9. The diverting and carrying works consist of Pumps, pipes, flumes, weirs and canals. (Refer to Proof drawing)
10. If water is used for irrigation purposes, give legal subdivisions of land irrigated .....
    ..... Total area irrigated is ..... acres.
11. If water is used for power purposes, describe the type of power plant used .....
12. If water is used for mining purposes, give the name of the mine, the mining district, and the uses made of the water Great Salt Lake Minerals & Chemicals Corporation uses - flushing and dissolving salts from solar evaporation ponds.
13. If water is used for stockwatering purposes, give the number and kind of stock watered .....
14. If water is used for domestic purposes, give number of families served .....
15. If water is used for municipal purposes (a) give name of municipality ..... (b) If municipality serves areas outside of corporate limits, describe legal subdivision served and uses made of water .....
16. If water is used for other purposes, give a general description of such uses .....
17. Give place of use by legal subdivisions for all uses described in paragraphs 11 to 16 inclusive .....
    The water is conveyed and used on the following areas: T7N R3W, SLB&M Sections 17,18,19,20,29,30,31 and approx 1/2 of 32. (See para. 17 continued under General Remarks.)
18. The point where the water is returned to the natural channel, if returned, is situated at a point S. 5,700' and W. 27,060' from NE Cor. Sec. 24 T6N R4W SLB&M. (See para. 18 continued under General Remarks.)
19. The water is used suplementally to the following rights .....
20. Construction of works was commenced* June 1965, and completed Still expand 19.....
    *Date of first work subsequent to aproval of application.
21. Works were first used to convey water March, 1968
22. Water was measured by Layne & Bowler Pump Company (NAME OF HYDROGRAPHER) Date November, 1967
23. Water was measured by vessel, weir, reservoir capacity, or by‡ See Para. 23, continued. (STRIKE WORDS NOT NEEDED)

‡(Give sufficient data under "General Remarks" to enable State Engineer to check the water measurements. It is necessary that the results of a series of such measurements be given.)

GENERAL REMARKS

(See Instructions on page 4)

Paragraph 8 continued - (1) At point of diversion at pump station PS-2 location N 7,560' and W. 33,088' from the NE Cor. of Section 24, T6N, R4W, SLB&M, pump station consisting of two 30,000 gpm vertical lift pumps. (2) At a point of diversion at at pump station PS-3 location N. 26,250' and W. 15,532' from the NE Cor. of Section 24, T6N, R4W, SLB&M, pump station consisting of two 30,000 gpm vertical lift pumps. (3) Any point or points along the North Section lines of the following Sections - 17 & 18, T7N, R3W, Section 13 to 18 incl., T7N, R4W SLB&M.

Paragraph 17 continued - T7N, R4W, SLB&M - Sections 13, 14, 22 to 28 incl., 32 to 36 incl. T6N, R3W Section 6. T6N, R4W, SLB&M Sections 1 to 12 incl., and 15. T6N, R5W, SLB&M, Sections 10,11,W 1/2, 14,15,22, W 1/4, 23. The total present solar pond area consists of 16,759 acres, plus conveyance works and feed canals.

Paragraph 18 continued - The use of water as set forth in this proof of appropriation will consume only (estimated at less than 1%) water lost through evaporation, seepage and transpiration and 17,792 acre feet less amounts lost as above stated will be returned to the natural stream or source at points indicated heretofore.

Paragraph 23 continued - The water appropriated is 17,792 acre feet. The water used was pumped with vertical lift pumps at diversion points 1 and/or 2. Diversion point #1 referred to as pump station PS-2 and diversion point #2 referred to as pump station PS3. Each pump station has two 30,000 gpm vertical lift pumps. The pump design conditions for PS 2 are 30,000 gpm per pump with a TDH of 29'. Pump speed of 700 rpm with 350 HP electric motors. PS 3 design conditions are 30,000 gpm per pump with a TDH of 17'. Pump speeds of 600 rpm with 250 HP electric motors. The pumps were calibrated by Layne and Bowler Pump Company at the time of purchase. The test data record sheets are included herein. PS 2 pump No. D17174B. PS 3 pump No. D17175 A & B. Test data shows pumps at very close to design conditions. The pump performance curves for PS 2 and PS 3 are included herewith. The maximum water beneficially used is 17,792 acre feet, which was in 1973. The measurement was determined by running time logs of the pumps and converting this to acre feet, using the pump capacities at design flow conditions. Each pump is equipped with a clock that runs when the pump is running. Daily logs are kept showing the running time of each pump. Diversion and conveyance works. The water is diverted from the Bear River Bay by pumps at

Submission of proof attested by:

Applicant or his agent: M G Reynolds Date 2/20/81

Engineer: Date

P. O. Address of Engineer:

GENERAL REMARKS

(continued)

diversion points #1 and/or #2 and fed to the solar ponds requiring flushing water through canals. The water flows by gravity through the ponds dissolving the salts and is then returned to the Great Salt Lake at the Bear River Bay inlet to the Lake.

(Fill in blank spaces but do not sign until proof has been submitted to the State Engineer and accepted as sufficient.)

CERTIFICATE OF APPROPRIATOR

STATE OF UTAH)
COUNTY OF Weber) ss.

Max J. Reynolds being first duly sworn, certifies that he is the person, assignee, or Vice-President of Great Salt Lake Minerals & Chem. Corp. who made an application to appropriate water from Bear River in Box Elder County; that said application is filed in the State Engineer's office as No. 37031 (13-1109), that he, as appropriator, employed John Bradshaw, P.E. of Great Basin Engr. to compile information for the purpose of completion of proof of appropriation and that I or said ..... hereby accept and submit this written proof together with maps consisting of 1 sheets, No. 1 to ..... incl. and when combined with sheets No. ..... to ..... incl. on file as proof of appropriation under Application No. ..... together with sheets No. ..... to ..... consisting of ..... on file in the office of the State Engineer, that said facts and maps are herewith submitted, and that each and all items contained therein are true to the best of his knowledge and belief.

APPLICANT OR HIS AGENT

Vice-President, Operations
Great Salt Lake Minerals & Chem. Corp.

Subscribed and sworn to before me this ..... day of ....., 19.....
(Seal)

My commission expires ....., 19.....

NOTARY PUBLIC

CERTIFICATE OF PROOF ENGINEER

STATE OF UTAH)
COUNTY OF Weber) ss.

JOHN A. BRADSHAW being first duly sworn, certifies that he was employed to prepare proof of appropriation under Application No. 37031 (13-1109), that the accompanying tracings were prepared from field notes of a survey made by him between the 1st day of May, 19 65, and the 18th day of February, 19 81; that these tracings, when combined with sheets No. 1 to 1 incl. on file as proof under Application No. 37031 (13-1109) together with sheets No. ..... to ..... consisting of ..... on file in the office of the State Engineer; and when combined with the written proof fully describe the method and extent of beneficial use of the water and that each and all of the items contained herein are true to the best of his knowledge.

PROOF ENGINEER

Subscribed and sworn to before me this ..... day of ....., 19.....
(Seal)

My commission expires ....., 19.....

NOTARY PUBLIC

STATE ENGINEER'S ENDORSEMENTS

Dates

..... Application received in State Engineer's office; Approved .....
..... Proof of Appropriation due in State Engineer's office.
..... Written proof and maps received in State Engineer's office by .....
..... Written proof and maps returned for correction by .....
..... Corrected written proof and maps resubmitted, received by .....
..... Field checked by .....
..... Corrected written proof and maps examined and Certificate written by .....
..... Certificate of Appropriation issued (No. .....)
..... Maps profiles, and drawings are filed. .....

This written proof and the maps, profiles, and drawings pertaining thereto, are found to comply with the requirements of the Laws of Utah, and the same are hereby approved.

..... 19..... .....
State Engineer.

Proof of Appropriation
on Application No. .....