## SOAP LAKE HEALING WATERS: THE PROOF IS IN THE OIL, PART 2

## By: Kathleen Kiefer

Soap Lake is meromictic, it has two layers of water white foam like soap suds. that do not intermix. The lower level of the lake is much more dense, containing a significantly higher concentration of minerals and mi- by the 1940's the lake water croorganisms. Being denser consisted of 20% more total and thus "heavier" the lower dissolved solids than seawalayer of water does not mix ter. The lake has no outlet. with the upper layer. In the The bottom is covered by ers and mud bath purveyors tained bowl holding the acoffered their customers "deep sea baths." It took some effort seeped into it for tens of to retrieve the water from a thousands of years from sur- as Ichthammol. This comboat perched near the north end of the lake where the water was deeper.

can be seen in shallow water monument is engraved minalong the west shore of the eral content of the lake: lake. On a summer day when brush can be seen at varying rine - Silica - Magnesium depths beneath the surface.

side of the lake. In a detailed phorus and Oil (Icthyol). report written in 1915 by Peter Spaberg, a scientist from the State College of Pullman, thyol in Soap Lake water now known as Washington is remarkable, especially State University, appeared over several weeks in the Grant County Journal, Spaberg noted the following:

south to north. It follows that cures everything from corns water from the northernmost to consumption." Early studextremely alkaline; its waters many in 1882 and was used hasn't become a mecca like mation about the history of

shore on windy days are eases and eventually became beaten into great masses of universally prescribed for a

At Soap Lake the rainfall is slight and the evapora- of Ichthyol reveals that it is tion high. In fact, so high that a product of natural origin cumulated salts which have rounding basalt flows.

monument was erected on the told by Native Americans the efforts of former mayor

the water is usually clear, Sodium - Carbonate - Sulremnants of calcified sage- fate - Bicarbonate - Chlo--Potassium-Organic Nitrogen – Calcium – Aluminum – There are several fresh Lithium – Fluoride – Copper 1913 titled, ICHTHYOL: water springs along the west - Iron - Rubidium - Phos-

considering that in 1905 the medical profession recognized this oily organic sulphurous preparation as a remedy with universal ap-The lakes in the northern plication. A note in the Medisection of the Grand Coulee cal Summary published in as well as methods of adminare successively higher from November 1915 indicated: "It istering and using Ichthyol. of these lakes is compara- ies of Ichthyol demonstrated ural medicines and homeotively fresh and palatable, physiological properties that pathic cures are finding new without reservations could the waters of the others be- allowed it to penetrate unbro- and growing audiences with rent a tent from one of the locome more alkaline. Soap ken skin. It was first brought those looking for alternatives, cal stores. The documentary Lake, the most southerly, is into commercial use in Ger- it's amazing that Soap Lake is the best source of infor-

when they lap against the extensively to treat skin diswide variety of maladies.

A Wikkipedia search obtained by dry distillation of sulfur-rich oil shale (bituminous schists). Further processing of the oily substance with ammonia results early 1900's sanitarium own- clay, making it a self con- in a water-soluble substance called Ammonium bituminosulfonate that can be purchased at most drug stores mon drawing salve has antiinflamatory, bactericidal and In 1970 a granite slab fungcidal properties and is used to treat eczema, psoria-According to stories East Beach to commemorate sis, rosacea, and acne, and it decreases microorganisms who have been visiting Soap M.R.Newell who lobbied the in the area surrounding a in 2002 includes interviews Lake for centuries, the lake United States Congress to skin condition. The list of was once much smaller than protect the lake from fresh therapeutic values goes on. A Soap Lake witnessing sick the lake on recent summer water like none other on the it is now. The lake was at one water incursions by Bureau mixture of Ichthammol and and injured people come for time nothing more than a of Reclamation irrigation ca- glycerol is used for topical treatment to then be cured. muddy pond. The evidence of nals which were built along treatment of ear infections. It Many of those cured stayed lower water levels in the past three sides of the lake. On the also has extraordinary anti- in town, running businesses inflammatory properties. It and getting involved in city is recommended by dermatologists and is available in pharmacies for compounding medications.

> A rare book published by Merck and Company in It's History, Properties and Therapeutics is loaded with research and case studies of The presence of Ich- Ichthyol and how it was used to treat dozens of maladies including dermatitis, herpes, gonorrhea, inflammation, abscesses, laryngitis, burns, measles, mumps, Typhoid Fever and more. The book includes the chemistry, bactericidal action and therapeutics

> > In a country where nat-



produced about Soap Lake eral hundred historic photo- be a great place to take your with people who grew up in government.

body of water anywhere on popular destinations for peocated in the heart of East- conditions. ern Washington's Columbia Basin Irrigation Project and surrounded by farms growing food for the world. It is a stunningly beautiful place. On a quiet summer day, the lake is a perfect mirror framed by basalt cliffs.

back to the 1920's from the Grant County Journal published in nearby Ephrata reveal a thriving community packed with visitors. There were eight large sanitariums and dozens of cabins and cottage for rent. Those arriving

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it once was. A documentary the town and includes sev- vest, but most of all, it would graphs.

outings reveals that it has become popular with Eastern Europeans, particularly those from Slavic countries who have long indulged in salt springs and mineral spas Kathleen Kiefer, formerly of in their home nations where There is not another these places continue to be the planet like Soap Lake. It ple seeking rejuvenation and is truly one-of-a-kind. Lo- treatment for some medical

A beautiful facelift of the downtown area and a few new businesses paint an inviting picture. The City of Soap Lake is one of the oldest and smallest communities in Eastern Washington. Real estate prices remain low, A review of archives but are beginning to rise. It would be a great place to in-

shoes off, lay on the beach A survey of visitors to and rest in between swims in planet. Hard to say what it will be like in the little town on the shores of the lake once it is discovered, again.

> Soap Lake, Washington now living in Baker City, Oregon is a writer, photographer and filmmaker. Her articles have appeared in newspapers, magazines, annual reports and hydropower industry publications. Her photographs have won awards and can be found published in books, magazines. calendars, posters, and numerous websites. Her documentary films have won AVA Gold, Telly Bronze and Silver awards including a Telly People's Choice award. Her YouTube channel is Kiefdom1. Her favorite subject to photograph, write-about, and to document is People.

## O. A. Anderberg's Mud Baths.

Chemical analysis of Soap Lake water as made by the chemist of the State College at Pullman, Washington:

PARTS	PER 1000
Total Solids	28. 6690
Volatile Solids	0.62503
Non-Volatile Solids	27.64186
Silicia	0.12816
Albumina and Iron Oxide	Trace
Calcium Sulphate	Trace
Calcium Carbonate	
Magnesium Sulphate	0.39089
Sodium Sulphate	6.34872
a diam Oblanda	9 91994



Sodium Chloride	2.81384
Sodium Carbonate	11.08901
Lithium Sulphate	Trace
Potassium Carbonate	0.51177
Phosphorus Pentoxide	0.1218
Carbon Dioxide (semi combined)	1.37034
Free Ammonia	0.34000
Albuminoide Ammonia	1,10600
Specific Gravity	1.02600
Copy of the Analysis of the mud taken property of O. A. Anderberg, by Peter	Spaberg:
SiO2-Silicon Dioxid	. Heavy
ke-Iron	
Al- Aluminum	. Trace
Ca-Calcium	Trace
Na-Sodium.	Light
K-Potassium	
Cl-Chlorine	
So-Sulphate	Trace
CO3-Carbonate	Trace
HYPOTHETICAL COMBINATIO	N.
SiO2–Silicon Dioxide. NaCl–Sodium Chlcrid- Table Salt.	
KCl-Potassium Chlorid-Similar to table	salt.
FeSo4-Iron Sulphate-Copperas.	
CaCo3-Calcium Carbonate-Chalk.	1.1.1
MgCo3- Magnesium Carbonate-A salt medicine.	used in
Al2O3-Aluminum Oxid-Occurs as R rundum and Sapphire, slightly radio as	