1440 0001

SODIUM SULPHATE DEPOSIT IN DIAMOND VALLEY

Eusha County
From 6

pre M Clarence EUREKA COUNTY.

This is a copy of the report mailed to Mr. W. S. Palmer,

University of Nevada.

SODIUM SULPHATE Deposits 24N, S4E

LOCATION.

This Sodium Sulphate depositis located in Diamond Valley about 29 miles north of the town of Eureka, Eureka County, Nev.

The Euraka Nevada Railway, connecting Euraka with the Sourthern and Western Pacific readsatat Palisade crosses

Diamond Valley within 13 miles of the deposit, The read from the deposits to the railroad is across the level Valley and is ideal for trucking.

OCCURRENCE.

The deposits of Sodium Sulphate occur in ponds which were formedby spring action, The springs are still active and the deposition is still continuing. There are two large ponds off the Sulphate and many small ones. There is little or no overburden over the Sulphate; in places there is a little silt that has been washed into the ponds but only from 3 to 4 inches thick.

TONNAGE AND ANALYSIS:

at the corners of 100 foot squares. The holes were sunk by jumper drill's with 4 inch bits and all the material from the holes used for the analysis. Each hole was measured and the average thickness determined from averaging the drill holes giving the following tonnages;

POND "A" beds

8u. ft. 1,061,400 Ar. Width

POND	"A"		Cu. ft.	Ar. Width
	Large beds		1,061,400	3.17ft.
	Small cakes		406,000	1.60ft.
		Total Pond "A"	1,467,000	
POND	"B"			
•	Large bed		913,250	4.01 ft.
	Small bed		196,433	3003 ft.
	Small cakes	en and a grant of the state of	250,000	1.00 ft.
		Total Pond "B"]	359,000	
	Total Pond "A"	1,467,000 cubic	feet.	
	w w wBn	1,359,000	R	
	Grand total	2,826,000 m	*	* * *

At 21 cubic feet to the Ton 134,571 fors

The above estimate does not include any of the small ponds or the possible tonnage from Sodium Sulphate in solution in the spring.

AMLYSIS.

An average analysis of the crude Sodium Sulphate is as follows.

	Hydrat ed	Anhydrated	ARefined Products a 2nd
Iron	Trace	Trace	
Lime	_ Nil	Nil	
Zine	_ Nil	Nil	
Magnesium Sulphate	0.57%	0,81%	0,90%.
Sodium Sulphate	_62,16%	90,00%	96,60%
Potassium Sulphate	0,50%	0,70%	0,77%
Sodium Chloride	0,76%	1,01%	0,50%
* Carbonate	0,25%	0,35%	0,38%

Continued.

Hydrated Anhydrated Refined Product.

Insoluble in water, clay, etc. 5,00% 7,13% 0,75%

Water of crystallization 30,76%

100,00% 100,00%

NOTE.

The sample exhibited here was not part of the borings but was picked up in a sack later on while looking over the deposit one day and none of it has been analyzed.

C. B. Sexton.