

AFFIDAVIT OF LABOR
(Nevada--Owned Claims)

Bruce R. Van Allen, being duly sworn, deposes and says:

1. Being duly authorized, I make this affidavit on behalf of Tenneco Specialty Minerals Company, whose address is 300 Union Blvd., P. O. Box 27F, Lakewood, Colorado 80227, the owner of the claim(s) more particularly described in Exhibit A attached hereto and incorporated by reference herein.

2. Labor was performed or improvements made, of the value of at least \$100 per claim, upon the claim(s) described in Exhibit A.

(a) The amount of money expended, or the value of labor or improvements made, or both is as follows:

\$ <u>829.00</u>	- Amount of money expended
\$ _____	- Value of labor or improvements
\$ <u>829.00</u>	- Total

(b) Character of expenditures or labor or improvements:
Geochemical sampling and analysis, report preparation of
resource potential of the property.

(c) The claim(s) affected by such expenditures or labor or improvements are listed in Exhibit A.

(d) The expenditures for labor or improvements were made for the assessment year ending at noon, September 1, 1986, and were made between the following dates:

July 23, 1986 and August 31, 1986

(e) The same were made or performed at the expense of Tenneco Specialty Minerals Company, the owner of the claim(s) described in Exhibit A.

(f) The names of the persons, corporations, contractors, or subcontractors who performed the work or made the improvements are the following: Bruce Van Allen, Steve W. Boese,
Ronald D. Surdam, John T. Fuller.

3. [Check box if applicable]

☒ Detailed report required by United States mining laws for geological, geochemical, or geophysical work or labor is attached.

4. The serial number assigned to each claim by the authorized officer upon filing of a copy of the Certificate of Location in the proper B.L.M. office is shown on Exhibit A. As provided in 43 C.F.R. § 3833.2-2(a)(1) this serial number constitutes a description of the claim.

5. The mailing address of the owner of the claim(s) is given above.

Further affiant saith not.

Bruce R. Van Allen
Bruce R. Van Allen

STATE of COLORADO)
County of JEFFERSON) ss.

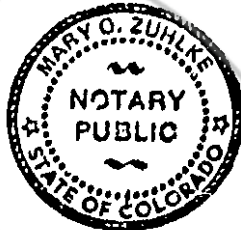
SUBSCRIBED AND SWORN TO before me this 29th day of September, 1986.

Mary O. Zuhlke
Notary Public

My Commission Expires:

My Commission Expires April 18, 1989
300 Union Boulevard
Lakewood, Colorado 80227

[SEAL]



State: Nevada
County: Eureka
Project: Pine Valley
Number : 32-011-02

EXHIBIT A

<u>Name of Claim</u>	<u>Book</u>	<u>Page</u>	<u>Date of Location</u>	<u>Date Recorded</u>	<u>Sec.</u>	<u>T.</u>	<u>R.</u>	<u>Meridian</u>	<u>NMC #</u> <u>BLM Number</u>
Pipp #50	75	483	9-11-79	8-27-79	8	28N	52E	"	129745
Pipp #51	75	484	9-11-79	8-27-79	8	28N	52E	"	129746
Pipp #52	75	495	9-11-79	8-27-79	8	28N	52E	"	129747
Pipp #53	75	496	9-11-79	8-27-79	8	28N	52E	"	129748
Pipp #54	75	497	9-11-79	8-27-79	8	28N	52E	"	129749
Pipp #55	75	498	9-11-79	8-27-79	8	28N	52E	"	129750
Pipp #66	75	499	9-11-79	8-27-79	8	28N	52E	"	129761
Pipp #67	75	500	9-11-79	8-27-79	8	28N	52E	"	129762

DETAILED REPORT OF GEOLOGICAL, GEOCHEMICAL,
OR GEOPHYSICAL SURVEYS
(30 U.S.C. §§ 28-1 and 28-2)

This report is filed pursuant to the provisions of 30 U.S.C. §§ 28-1 and 28-2 to verify the performance of labor upon the contiguous group of unpatented mining claims more particularly described in Exhibit "A" of the affidavit to which this report is attached.

1. The location of the work performed in relation to the points of discovery and the boundaries of the claims is shown on the map attached hereto as Exhibit "I" and incorporated by reference herein.
2. The nature, extent, and cost of the geological, geochemical, or geophysical surveys performed are as follows:
 - a. Nature: *(4) rock chip samples were collected from the north claim block in section 8 of the Pine Valley Project area. Each sample was analysed for ammonium cation exchange capacity and total zeolite content and classification by x-ray diffraction determination. All analysis was performed by Dr. Steven Boese and Dr. Roland Surdam of the University of Wyoming Department of Geology and Geophysics. See Exhibit "I".

*(1) man day was spent on the property and (4) man days were spent in the office evaluating and writing a report from all data collected to date from previous exploration activities. See Exhibits "I" and "II".
 - b. Extent: The extent of the work performed is shown in Exhibits "I" and "II".
 - c. Cost: The total cost expended on this area between July 23, 1986 and August 31, 1986 is \$829.00.
3. The basic findings from the geological, geochemical and geophysical surveys are set forth in Exhibit "II" attached hereto and incorporated by reference herein.
4. The names, addresses, and professional backgrounds of the qualified experts conducting the work is set forth in Exhibit "III" attached hereto and incorporated by reference herein.
5. Geological, geochemical, and geophysical surveys (including the survey which is the subject of this report) have not been applied as labor under 30 U.S.C. section 28 for more than two consecutive years or for more than a total of five years on any of the claims described in Exhibit "A" of the affidavit to which this report is attached. The survey which is the subject of this report is nonrepetitive of any previous survey on the same claims since and including 1958.

Dated: September 26, 1986.

By: Bruce R. Van Allen
Bruce R. Van Allen - Minerals Analyst



EXHIBIT II

INTRODUCTION

The Pine Valley Project area lies in Sections 8, 17, 20 and 29, T28N, R52E., M.D.B.&M., Eureka County, Nevada. This area has potential for hosting a small deposit of medium to high grade erionite and phillipsite (zeolite) minerals. The general area is approximately 32 miles south of Carlin, Nevada and is accessed well by U. S. Highway 40.

Work To Date

- 1979: Ground originally staked by Occidental Minerals Corporation with the intent to hold.
- 1980: Rotary Drilling.
- 1981: Development Drilling.
- 1982: Development Drilling.
- 1983: Core & Rotary Drilling, Sampling & Analysis.
- 1984: Core & Rotary Drilling, Sampling & Analysis.
- 1985: Core Drilling.

In 1986, Tenneco Specialty Minerals performed the following work.

1. Collected (4) rock chip samples.
2. Detailed analysis for all data collected from the project area since 1979.
3. Report preparation on the resource potential of the property.

Findings

Between the dates of July 23, 1986 and August 31, 1986 (1) man day was spent on the property collecting confirmation samples and (4) man days were spent in-house evaluating all data collected to date for the project area. The confirmation samples were crushed, pulverized, and sieved to - 60 U.S. mesh and analysed for ammonium cation exchange capacity and x-ray diffraction analysis. Based on the resulting analysis of data, all lode and placer claims (except those claims described in Exhibit "A" and "I") have been dropped as of the 1986 assessment filing date.

EXHIBIT III

QUALIFICATIONS

1. Bruce R. Van Allen
18433 E. Belleview Lane
Aurora, CO 80015

Education: BS in Geology, Bucknell University
MS in Geology, University of Texas (Austin)

Employment History: 1978 to present - Tenneco Minerals
Company

2. John T. Fuller
7514 South Yukon Court
Littleton, CO 80123

Education: BS in Mining Engineering, Virginia Polytechnic
Institute.
MS in Mining Engineering, Virginia Polytechnic
Institute.
MBA - National University, San Diego, CA

Employment History: 1968-1980 Kennecott Copper Company
1980-1983 Western Nuclear, Inc.
1984-1985 PDZ Corporation
1985 to present - Tenneco Specialty
Minerals Company

3. Steven W. Boese

Occupation: Professor of Geology & Geochemistry
University of Wyoming
Department of Geology & Geophysics
Laramie, Wyoming 82701

4. Ronald D. Surdam

Occupation: Professor of Geology & Geophysics
University of Wyoming
Department of Geology & Geophysics
Laramie, Wyoming 82071

RECORDED AT REQUEST OF
Tenneco Minerals
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OFFICIAL RECORDS
EUREKA COUNTY, NEVADA
H.M. REBALEATI, RECORDER
FILE NO. 105014
FEE \$ 10.00