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(July 1984)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Serial Number
N-52340
N-52341
N-53378

MINERAL REPORT

Mineral Patent Application
of
American Borate Company
for the
Redo 22-A thru Redo 43-A, Redo 45-A thru
Redo 52-A, Redo 54-A thru Redo 59-A, Redo - 29,
Redo - 30, D and B No. 1 thru D and B No. 4,
D & B No. 5, D & B No. 6, CAROLYN No. 1 MILL
SITE, and Linda No. 1 Mill Sites

(Title)

LANDS INVOLVED

Nye County, Nevada

T. 18 S., R. 49 E., MDM
Sections 1, 2, and 3

(See Tables 3, 4 and 5 for Legal Land Descriptions)

Containing 180.68 Acres

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SUMMARY, CONCLUSIONS, and RECOMMENDATIONS

Summary

A field examination of the 46 mill sites included in patent applications N-52340, N-52341, and N-53378 was conducted on April 30 and on May 11, 1992.

Improvements on the mill sites in question include water wells, water tanks, a trailer park with water, electric, and sewer hookups for mine and mill workers, a dwelling for the plant manager, portions of a sewer system, a mill tailings pond and dam, and an elevated pad that is used by part of the mill facility itself. The mill was in its startup phase during the visit on May 11, 1992.

There were no surface indications of mineralization on the subject mill sites. The clay pits to the north and east of these mill sites imply that economic quantities of clays may be present beneath the mill sites, but conversations with personnel associated with IMV, a nearby clay mining company that is not associated with American Borate Company, along with the fact that no clay has been produced from these pits since the 1930s lead to the conclusion that while clay minerals are present under at least some of the subject mill sites, they are not present in economic quantities.

Conclusions

The mill sites included in the three patent applications submitted by American Borate Company have been located as described.

Based upon the field examination and conversations with others knowledgeable about the clay mineralization in the area we have reached the following conclusions:

1. All 46 mill sites are nonmineral-in-character.
2. There is neither use nor occupancy on the Redo - 29 or the Redo - 30. The road that occupies portions of the mill sites does not qualify for use or occupancy under the mining law.
3. There is use or occupancy for mining or milling purposes on the northern half of the D & B No. 6. There is neither use nor

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occupancy on the southern half of the D & B No. 6. The sewage line that crosses the southern half of the mill site does not qualify for use or occupancy under the mining law.

- There is use or occupancy for mining or milling purposes on each lot or 2½ acre aliquot part of the remaining 43 mill sites included in these patent applications.

Recommendations

The mill sites or portions of mill sites listed in Table 1 should be clear-listed to patent, all else being regular.

Table 1. Mill Sites or Portions of Mill Sites that Are Being Used or Occupied for Mining or Milling Purposes

Mill Site Name	Serial No.	Location T. 18 S., R. 49 E. MDM	
		Lot or Subdivision	Sec.
Redo 22-A	NMC 532053	22	1
Redo 23-A	NMC 532054	23	1
Redo 24-A	NMC 532055	24	1
Redo 25-A	NMC 532056	25	1
Redo 26-A	NMC 532057	26	1
Redo 27-A	NMC 532058	27	1
Redo 28-A	NMC 532059	28	1
Redo 29-A	NMC 532060	29	1
Redo 30-A	NMC 532061	30	1
Redo 31-A	NMC 532062	31	1
Redo 32-A	NMC 532063	32	1
Redo 33-A	NMC 532064	33	1
Redo 34-A	NMC 532065	34	1
Redo 35-A	NMC 532066	35	1
Redo 36-A	NMC 532067	36	1
Redo 37-A	NMC 532068	37	1
Redo 38-A	NMC 532069	38	1
Redo 39-A	NMC 532070	39	1

Mill Site Name	Serial No.	Location T. 18 S., R. 49 E. MDM	
		Lot or Subdivision	Sec.
Redo 40-A	NMC 532071	40	1
Redo 41-A	NMC 532072	41	1
Redo 42-A	NMC 532073	42	1
Redo 43-A	NMC 532074	43	1
Redo 45-A	NMC 532075	45	1
Redo 46-A	NMC 532076	46	1
Redo 47-A	NMC 532077	47	1
Redo 48-A	NMC 532078	48	1
Redo 49-A	NMC 532079	49	1
Redo 50-A	NMC 532080	50	1
Redo 51-A	NMC 532081	51	1
Redo 52-A	NMC 532082	52	1
Redo 54-A	NMC 532083	54	1
Redo 55-A	NMC 532084	55	1
Redo 56-A	NMC 532085	56	1
Redo 57-A	NMC 532086	57	1
Redo 58-A	NMC 532087	58	1
Redo 59-A	NMC 532088	59	1

Table 1. (Continued) Mill Sites or Portions of Mill Sites that Are Being Used or Occupied for Mining or Milling Purposes

Mill Site Name	Serial No.	Location T. 18 S., R. 49 E. MDM	
		Lot or Subdivision	Sec.
D and B No. 1	NMC 160178	S½ SE¼ SE¼ NW¼	2
D and B No. 2	NMC 160179	N½ SE¼ SE¼ NW¼	2
D and B No. 3	NMC 160180	S½ NE¼ SE¼ NW¼	2
D and B No. 4	NMC 160181	N½ NE¼ SE¼ NW¼	2

Mill Site Name	Serial No.	Location T. 18 S., R. 49 E. MDM	
		Lot or Subdivision	Sec.
D & B No. 5	NMC 206400	S½ SE¼ NE¼ NW¼	2
D & B No. 6 [North ½]	NMC 206401	NW¼ SW¼ SW¼ NE¼	2
CAROLYN NO. 1 MILL SITE	NMC 118103	N½ NE¼ NE¼ SW¼	2
Linda No. 1	NMC 583608	9	3

The mill sites or portions of mill sites listed in Table 2 should be contested by the Bureau of Land Management, unless relinquished by the claimant.

Table 2. Mill Sites or Portions of Mill Sites that Are Not Being Used or Occupied for Mining or Milling Purposes

Mill Site Name	Serial No.	Location T. 18 S., R. 49 E., MDM	
		Lot or Subdivision	Sec.
Redo - 29	NMC 160182	8	2
Redo - 30	NMC 160183	9	2
D & B No. 6 [South ½]	NMC 206401	SW¼ SW¼ SW¼ NE¼	2

The recommended charge to be used in contesting these mill sites or portions of mill sites is:

The land involved is not being used or occupied for purposes of mining, milling, processing, beneficiation, or other operations in connection with a lode mining claim.

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INTRODUCTION

This report was prepared in response to three patent applications submitted by American Borate Company (ABC), N-52340, N-52341, and N-53378. The three applications contain a total of 46 mill sites.

Patent applications N-52340 and N-52341 were assigned to the Las Vegas District Office for examination on July 30, 1990 by the Acting Chief, Branch of Lands and Minerals Operations, Nevada State Office. Patent application N-53378 was assigned to the Las Vegas District Office for examination on November 8, 1990 by the Chief, Branch of Lands and Minerals Operations, Nevada State Office. At the request of the Nevada State Office, Ron Teseneer, Geologist, Alaska State Office, was detailed to the Las Vegas District Office from April 27, 1992 until May 15, 1992 to assist in the examination.

M. William Tilden, agent for ABC, was notified of the examination dates by certified letter dated April 3, 1992.

There were no impediments to the examination.

The examination was conducted on April 30 and on May 11, 1992. The BLM personnel present were Mark Chatterton, Geologist, Las Vegas District Office (currently Mineral Materials Specialist, Washington Office), and Ron Teseneer, Geologist, Alaska State Office. M. William Tilden, Attorney At Law, Frederic Johnson, Geologist, and Darrell Cypert, Operation Manager, represented ABC at a conference on the morning of April 30, 1992. They did not accompany the BLM personnel on the field portion of the examination. Mr. Cypert took the BLM personnel on a tour of the mill facilities on the morning of May 11th. The mill was in its startup phase that morning, after an extended shutdown due to market conditions.

This report was written as part of a patent examination and should not be used for any purpose other than that for which it was intended.

LANDS INVOLVED

The mill site names, serial numbers, legal descriptions, and acreages of the mill sites in patent applications N-52340, N-52341, and N-53378 are given in tables

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3, 4, and 5, respectively. The mill site locations are shown in detail on maps in Attachment 1.

Table 3. Summary of Mill Site Data and Location Data for Patent Application N-52340.

Mill Site Name	Serial No.	Location T. 18 S., R. 49 E. MDM		Acreage	Location Date	Recorded Nye County, Nevada		Locator
		Lot or Subdivision	Sec.			Date	Document No.	
Redo 22-A	NMC 532053	22	1	2.01	11/1/88	12/22/88	226155	Frederic C. Johnson for ABC
Redo 23-A	NMC 532054	23	1	5.00	11/1/88	12/22/88	226156	Frederic C. Johnson for ABC
Redo 24-A	NMC 532055	24	1	5.00	11/1/88	12/22/88	226157	Frederic C. Johnson for ABC
Redo 25-A	NMC 532056	25	1	5.00	11/1/88	12/22/88	226158	Frederic C. Johnson for ABC
Redo 26-A	NMC 532057	26	1	5.00	11/1/88	12/22/88	226159	Frederic C. Johnson for ABC
Redo 27-A	NMC 532058	27	1	2.70	11/1/88	12/22/88	226160	Frederic C. Johnson for ABC
Redo 28-A	NMC 532059	28	1	5.00	11/1/88	12/22/88	226161	Frederic C. Johnson for ABC
Redo 29-A	NMC 532060	29	1	5.00	11/1/88	12/22/88	226162	Frederic C. Johnson for ABC
Redo 30-A	NMC 532061	30	1	5.00	11/1/88	12/22/88	226163	Frederic C. Johnson for ABC
Redo 31-A	NMC 532062	31	1	5.00	11/1/88	12/22/88	226164	Frederic C. Johnson for ABC
Redo 32-A	NMC 532063	32	1	3.45	11/1/88	12/22/88	226165	Frederic C. Johnson for ABC
Redo 33-A	NMC 532064	33	1	5.00	11/1/88	12/22/88	226166	Frederic C. Johnson for ABC
Redo 34-A	NMC 532065	34	1	5.00	11/1/88	12/22/88	226167	Frederic C. Johnson for ABC
Redo 35-A	NMC 532066	35	1	5.00	11/1/88	12/22/88	226168	Frederic C. Johnson for ABC
Redo 36-A	NMC 532067	36	1	5.00	11/1/88	12/22/88	226169	Frederic C. Johnson for ABC
Redo 37-A	NMC 532068	37	1	4.16	11/1/88	12/22/88	226170	Frederic C. Johnson for ABC
Redo 38-A	NMC 532069	38	1	5.00	11/1/88	12/22/88	226171	Frederic C. Johnson for ABC
Redo 39-A	NMC 532070	39	1	5.00	11/1/88	12/22/88	226172	Frederic C. Johnson for ABC
Redo 40-A	NMC 532071	40	1	5.00	11/1/88	12/22/88	226173	Frederic C. Johnson for ABC
Redo 41-A	NMC 532072	41	1	5.00	11/1/88	12/22/88	226174	Frederic C. Johnson for ABC

Table 3. (Continued)

Mill Site Name	Serial No.	Location T. 18 S., R. 49 E. MDM		Acreage	Location Date	Recorded Nye County, Nevada		Locator	
		Lot or Subdivision	Sec.			Date	Document No.		
Redo 42-A	NMC 532073	42	1	2.51	11/1/88	12/22/88	226175	Frederic C. Johnson for ABC	
Redo 43-A	NMC 532074	43	1	2.51	11/1/88	12/22/88	226176	Frederic C. Johnson for ABC	
Redo 45-A	NMC 532075	45	1	2.54	11/1/88	12/22/88	226177	Frederic C. Johnson for ABC	
Redo 46-A	NMC 532076	46	1	2.54	11/1/88	12/22/88	226178	Frederic C. Johnson for ABC	
Redo 47-A	NMC 532077	47	1	2.57	11/1/88	12/22/88	226179	Frederic C. Johnson for ABC	
Redo 48-A	NMC 532078	48	1	2.57	11/1/88	12/22/88	226180	Frederic C. Johnson for ABC	
Redo 49-A	NMC 532079	49	1	2.60	11/1/88	12/22/88	226181	Frederic C. Johnson for ABC	
Redo 50-A	NMC 532080	50	1	2.60	11/1/88	12/22/88	226182	Frederic C. Johnson for ABC	
Redo 51-A	NMC 532081	51	1	2.62	11/1/88	12/22/88	226183	Frederic C. Johnson for ABC	
Redo 52-A	NMC 532082	52	1	2.62	11/1/88	12/22/88	226184	Frederic C. Johnson for ABC	
Redo 54-A	NMC 532083	54	1	2.65	11/1/88	12/22/88	226185	Frederic C. Johnson for ABC	
Redo 55-A	NMC 532084	55	1	2.65	11/1/88	12/22/88	226186	Frederic C. Johnson for ABC	
Redo 56-A	NMC 532085	56	1	2.67	11/1/88	12/22/88	226187	Frederic C. Johnson for ABC	
Redo 57-A	NMC 532086	57	1	2.67	11/1/88	12/22/88	226188	Frederic C. Johnson for ABC	
Redo 58-A	NMC 532087	58	1	2.69	11/1/88	12/22/88	226189	Frederic C. Johnson for ABC	
Redo 59-A	NMC 532088	59	1	2.69	11/1/88	12/22/88	226190	Frederic C. Johnson for ABC	
Redo # 29	NMC 160182	8	2	2.27	5/27/80	6/26/80	Book	Page	Nancy Bolling for ABC
Amended Name Redo - 29					Location amended 11/1/88		Amendment recorded 12/22/88	276	
							Amendment Document No. 226193		Amended by Frederic C. Johnson for ABC
Redo #30	NMC 160183	9	2	5.00	5/27/80	6/26/80	Book	Page	Nancy Bolling for ABC
Amended Name Redo - 30					Location amended 11/1/88		Amendment recorded 12/22/88	276	
							Amendment Document No. 226195		Amended by Frederic C. Johnson for ABC
Total acreage in patent application N-52340				141.29					

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Table 4. Summary of Mill Site Data and Location Data for Mill Site Patent Application N-52341

Mill Site Name	Serial No.	Location T. 18 S., R. 49 E., MDM		Acreage	Location Date	Recorded Nye County, Nevada			Locator
		Lot or Subdivision	Sec.			Date	Book	Page	
D and B No. 1	NMC 160178	S½ SE¼ SE¼ NW¼	2	5.00	5/27/80	6/26/80	276	54	Nancy Bolling for ABC
D and B No. 2	NMC 160179	N½ SE¼ SE¼ NW¼	2	5.00	5/27/80	6/26/80	276	55	Nancy Bolling for ABC
D and B No. 3	NMC 160180	S½ NE¼ SE¼ NW¼	2	5.00	5/27/80	6/26/80	276	56	Nancy Bolling for ABC
D and B No. 4	NMC 160181	N½ NE¼ SE¼ NW¼	2	5.00	5/27/80	6/26/80	276	57	Nancy Bolling for ABC
D & B No. 5	NMC 206400	S½ SE¼ NE¼ NW¼	2	5.00	6/23/81	6/26/81	312	404	Robert A. Wamsley for ABC
					Location amended 5/21/90	Amendment Recorded 5/30/90	Amendment Document No. 261320		Amended by Frederic C. Johnson for ABC
D & B No. 6	NMC 206401	W½ SW¼ SW¼ NE¼	2	5.00	6/23/81	6/26/81	312	405	Robert A. Wamsley for ABC
CAROLYN NO. 1 MILL SITE	NMC 118103	N½ NE¼ NE¼ SW¼	2	5.00	11/5/70	11/12/70	136	633	John B. Lonergan for Tenneco Oil Company
Total acreage in patent application N-52341				35.00					

Table 5. Summary of Mill Site Data and Location Data for Mill Site Patent Application N-53378

Mill Site Name	Serial No.	Location T. 18 S., R. 49 E., MDM		Acreage	Location Date	Recorded Nye County, Nevada			Locator
		Lot or Subdivision	Sec.			Date	Book	Page	
Linda # 1	NMC 583608	9	3	4.39	1/3/90	1/9/90	225	323	Frederic C. Johnson for ABC

The topography of southern Nye County is typical Basin and Range province, with closed basins separated by ranges, hills and mesas (Cornwall, 1972, p. 2). The elevation in the area of the patent applications is between 2,000 and 2,400 feet. A topographic map of the area is included in Attachment 1.

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The area in which the mill sites in these patent applications are located is in the Ash Meadows mining district, which is located in the Amargosa Desert (Papke, 1970, p. 32). The major drainage through the area is the Amargosa River approximately 1.5 miles southwest of the subject mill sites. The Amargosa River is dry for much of the year. Drainage in southern Nye County is mainly by subsurface flow of groundwater (Cornwall, 1972, p. 2).

The climate of the Ash Meadows area is harsh, being arid with extreme summer temperatures. The average precipitation at Lathrop Wells is 2.94 inches, with 0.38 inches falling in January and 0.05 inches in June (Cornwall, 1972). Evaporation may reach as much as 10 inches per year (Dudley and Larson, 1976). Maximum temperatures in July average over 100° F.

Vegetation in the Ash Meadows area is limited to salt grass, grease wood, and rabbit brush, with mesquite along the Amargosa River channel (Cornwall, 1972).

The area of the patent applications is approximately 72 air miles WNW of Las Vegas, Nevada. Road access from Las Vegas is north on US95, approximately 91 miles, to Lathrop Wells, then south on Nevada State Highway 373 (NV373), approximately 15.5 miles. The mill sites included in patent application N-52340 are located approximately 0.6 mile east of the highway. The mill sites included in patent application N-52341 are located just to the east of the highway. The mill site in patent application N-53378 is located approximately 1 mile west of the highway. The area may also be reached from the south by traveling north on CA127 from Death Valley Junction for approximately 9 miles to the access road.

STATUS RECORD DATA

Information on the mill sites in patent applications N-52340, N-52341, and N-53378 is presented in tables 3, 4, and 5, respectively.

The lands involved in the three patent applications are unappropriated public land, with title to both surface and mineral estates resting with the U.S. Government. The Master Title Plat (MTP) and Historical Index (HI) are located in Attachment 2.

All applicable location notices and other legal documents were recorded with the Nye County, Nevada, recorder's office.

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The mill sites in this application are dependent upon the Billie borate mine. This mine is located on the patented Billie No. 3, Billie No. 4, Billie No. 10, Billie No. 11, Billie No. 12, Billie No. 14, Billie No. 16, Billie No. 21, and Billie No. 22 lode mining claims, Inyo County, California (see Attachment 3 for the Billie mine patent documents).

There are thirty-eight mill sites in patent application N-52340. See Table 3 for a summary of the location data on these thirty-eight mill sites. M. William Tilden, of Gresham, Varner, Savage, Nolan & Tilden, of San Bernardino, California, issued a Certificate of Title for these mill sites on December 7, 1989, which indicates that ABC had adequate title to the mill sites as of that date. See Attachment 4-A for the Certificate of Title and the location notices for these mill sites.

There are seven mill sites in patent application N-52341. See Table 4 for a summary of the location data on these seven mill sites. Title for the CAROLYN NO. 1 MILL SITE was passed to American Borate Corporation by a Mineral Deed and Reservation of Production Payment dated October 25, 1977, which was recorded on November 28, 1977, book 211, pages 171-221, and hence to ABC by a Grant Deed, also dated October 25, 1977, recorded on December 12, 1977, book 211, pages 591-636. Mr. Tilden issued a Certificate of Title for these mill sites on December 7, 1989, which indicates that ABC had adequate title to the mill sites as of that date. See Attachment 4-B.

A summary of the location data for the mill site in patent application N-53378, the Linda # 1, is given in Table 5. Mr. Tilden issued a Certificate of Title for the Linda # 1 mill site on July 30, 1990, which indicates that ABC had adequate title to the mill site as of that date. Mr. Tilden subsequently issued a Supplemental Certificate of Title for the Linda # 1 mill site on September 24, 1990. This supplemental certificate merely added location information to the certificate and did not change the title status. See Attachment 4-3 for the Certificate of Title and the location notice for this mill site.

There are several rights-of-way in the vicinity of the mill sites in these three applications. These rights-of-way are detailed in Table 6. See Attachment 5 for a map of these rights-of-way.

Table 6. Rights-of-Way

Serial No.	Description	Mill Sites Crossed
018323	Nevada DOT, NV373, 400 ft. wide, 1934	None
N-5418	Valley Electric Association, 14.4/24.9 KV transmission line, 20 ft. wide, granted 4/12/71, completed 1/5/71, proof filed 5/26/76, expires 4/11/2021	None
N-7315	Tenneco Oil Co. ⇒ American Borate Corporation ⇒ American Borate Company, 6" water pipeline, 24 ft. wide, granted 5/30/75, completed 7/15/75, proof filed 7/24/80, expires 1/1/9999	Redo 32-A Redo 33-A Redo 34-A Redo 35-A Redo-40-A Carolyn No. 1 M.S. D and B No. 1 D and B No. 2 D & B No. 6
N-16589	American Borate Corporation, 6" water pipeline, 40 ft. wide, granted 7/25/78, proof filed 9/1/83, expires 7/24/2008	None
N-17946	William Embry, 12" water pipeline & ditch, 40 ft wide, granted 3/8/79, expires 3/7/2009 (no work visible on ground)	Redo 26-A Redo 31-A Redo 36-A Redo 41-A
N-18354	Valley Electric Association, 14.4 KV transmission line (to residence on Linda # 1), 20 ft. wide, granted 5/22/78, completed 8/31/78, proof filed 6/20/83, expires 5/21/2008	Linda No. 1
N-34043	Nevada Bell, telephone line, 20 feet wide, granted 11/25/81, completed 2/23/83, proof filed 5/19/83, expires 11/24/2031	None
N-058536	Nevada Power Company ⇒ Valley Electric Association, 34.5 KV transmission line, 20 ft. wide, granted 9/12/62, completed 10/23/62, proof filed 8/2/68, expires - granted in perpetuity	None
A ⇒ B Signifies that the right-of-way transferred from A to B		

REGIONAL GEOLOGY

Lithology

The area of these patent applications is underlain by Tertiary tuffaceous sedimentary rocks, and Quaternary playa lake deposits and alluvium. See Attachment 6 for a geologic map of the area.

The tuffaceous sedimentary rocks range in thickness from a few feet to over 2,000 feet. They consist of tuffaceous conglomerate, sandstone, and siltstone,

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and interbedded ash-fall and minor ash-flow tuffs. The tuffs are partly bedded and partly massive. They are commonly light colored, ranging from white or yellow to brown or green. They have commonly undergone zeolitization, with local intense opalization, silicification, and argillization. (See Cornwall, 1972)

The playa lake deposits consist of sand, silt, and clay strata, with a few lenses of fine gravel. Tuffaceous beds and evaporites are also present. They range in color from white or pale gray to brown. In many localities the playa lake deposits are partly overlain by alluvium. (See Cornwall, 1972)

The alluvium in the area of the patent applications consists primarily of sand and silt. At Ash Meadows, large areas are covered by spring deposits consisting of cemented, pale-gray or brown sand and silt with many plant stem molds. (See Cornwall, 1972)

Structure

The major structural elements present in southern Nye County are 1) folding and thrust and related tear faulting; 2) strike-slip faulting; 3) cauldron subsidence, doming, and high-angle faulting related to volcanism; 4) Basin-Range high-angle normal faulting; and 5) gravity sliding. None of these elements is present in the area encompassed by these applications. The Resting Spring Range is about ten miles southeast of the area and the southwestern boundary of the Walker Lane mobile belt is about seven miles north east of the area. (See Cornwall, 1972)

The Resting Spring Range is a range of the Basin and Range type, although it trends more to the west than the typical Basin and Range type (Stewart, 1980). The bounding faults are lost under the sediments of the Amargosa Desert (Cornwall, 1972).

The Walker Lane mobile belt is a zone of folding and transcurrent faulting that may connect to the Las Vegas Valley shear zone (Cornwall, 1972).

LOCAL GEOLOGY

The Redo series of mill sites in patent application N-52340 are located on tuffaceous sedimentary rocks and on playa lake deposits. The mill sites in

patent application N-52341 are located on alluvium of Quaternary age. The Linda No. 1 mill site (patent application N-53378) is located on playa lake deposits. A gravel lens that is cemented either by caliche or by spring deposits, similar to that described by Cornwall (1972), or a tuffaceous conglomerate underlies at least part of the Linda # 1. See Attachment 6 for a geologic map of the patent areas.

Some areas are covered by eluvium consisting primarily of sand and silt, separated by wind scoured areas with numerous fine pebbles, yet not qualifying as desert pavement.

MINERAL DEPOSITS

Both saponite and sepiolite are known to occur in the Ash Meadows mining district. Saponite is a trioctahedral magnesium-rich clay mineral of the montmorillonite group $[(Ca_{0.5}, Na)_{0.33}(Mg, Fe)_3(Si_{3.67}Al_{0.33})O_{10}(OH)_2 \cdot 4H_2O]$. Sepiolite is a chain-lattice clay mineral which is also known as meerschaum $[Mg_4(Si_2O_5)_3(OH)_2 \cdot 6H_2O]$. Both are normally considered to be weathering products of mafic and ultramafic rocks, however, Khoury (1979) showed that they may be precipitated directly from saline lake waters under the proper conditions.

Mayhew (1992, oral communication) reported only sepiolite from the subject mill sites. The sepiolite was thought to have formed by alteration of tuffaceous beds within the playa lake deposits but Khoury's (1979) work shows that in this locality some of the sepiolite may have precipitated directly from the saline waters of the playa lake. This sepiolite is generally 0.5 to 1 foot thick and lies under 20 to 30 feet of overburden (Mayhew, 1992, oral communication).

No critical and strategic minerals, as contained in the Stockpile Report to Congress, have been produced or reported from the Ash Meadows mining district.

MINERAL PRODUCTION HISTORY

The Ash Meadows mining district has the largest clay production of any district in Nevada. The clay comprises calcium and magnesium montmorillonite clays derived from alteration of Pleistocene tuffaceous lakebeds. Production in the

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district began in 1918 and ceased in the 1930's, with approximately \$3,000,000 worth of production and possibly several times that amount (Cornwall, 1972). Papke (1970) states that the Ash Meadows clays were used as fuller's earth.

Industrial Mineral Ventures (IMV) resumed production from the Ash Meadows district in the mid-1970s (Wwjick, 1992, oral communication). IMV is producing saponite-type bentonite from Sec. 29, T. 16 S., R. 50 E., and Sec. 35, T. 17 S., R. 51 E., MDM, approximately 7 miles north of and approximately 11 miles east of the Redo mill site series, respectively. The bentonite mined by IMV is as much as 24 feet thick, averaging 2-3 feet thick, and lies under 10-26 feet of overburden. (See Hosterman and Patterson, 1992.)

There has been no known bentonite production from the lands in the patent applications.

MINERAL EXPLORATION AND DEVELOPMENT WORK

IMV corporation conducted an extensive drilling program over the entire Amargosa Valley in the early 1970s (Mayhew, 1992, oral communication).

There has been no mineral exploration or development work on the lands involved in the patent applications other than that by IMV corporation. IMV's work included the drilling mentioned above and several shallow test pits, near, but not on any of these mill sites. One possible exception to this is an "x" on the topographic map (Attachment 1, page 1-1) which would be located on the Redo - 30 (approximately 0.1 mile southwest of the northeast corner of Section 1, T. 18 S., R. 49 E., MDM). This pit was not observed in the field. Photograph 1 (Attachment 7, Page 7-1) shows one of these test pits, which is on north side of the access road from NV373 to the mill, about one-half mile from NV373.

There are claypits on the patented placer mill sites both north and east of the lands in these patent applications. These clay pits are water filled and vary in size. Papke (1970) states that the clay probably occurred in circular or irregular bodies as much as 100 feet in diameter, with as much as 1½ feet of excellent-quality white montmorillonite clay underlain by several feet of fair-quality pinkish-gray montmorillonite. The water table lies from 12-14 feet below the original ground level and some mining was done below the water level (Papke, 1970). The water table in the clay pit observed during the field examination

was only 5-7 feet below the original ground level. Problems with mining below the water level and in processing the wet clays were factors in halting operations in the area (Papke, 1970). Photograph 2 (Attachment 7, Page 7-2) shows one of these claypits.

MILLS AND/OR PLANTS

American Borate has built a flotation mill on a patented clay placer claim just to the north of the Redo series of mill sites. The mill is visible in the background of Photograph 3 (Attachment 7, page 7-3). A copy of the flow chart for this mill is located in Attachment 12. To the north and east of that they have two small tailings impoundments.

A well, a tailings pond and dam, and some mill facilities are located on the Redo series of mill sites. Photograph 3 (Attachment 7, page 7-3) shows the tailings pond and Photograph 4 (Attachment 7, page 7-4) shows the dam. The mill facilities include a storage area and a storage building which are located on a built up pad. A small part of the ore stockpile may also be located on these mill sites.

A sewage pumping station and sewage pipelines, well, a water tank and pumping facilities, an employee's mobile home, and trailer pads and hookups (for mill/mine employees) are located on the CAROLYN NO. 1 MILL SITE and the D and B series of mill sites. Photographs 5, 6, and 7 (Attachment 7, pages 7-5 through 7-7) show the trailer park. Photograph 8 (Attachment 7, page 7-8) shows the water tank and pumping facilities.

A well, a water tank, and a dwelling for the manager are located on the Linda # 1. The house and water tank are visible in Photographs 9 and 10 (Attachment 7, pages 7-9 and 7-10).

Table 7 lists the use or occupancy on each individual mill site.

Attachment 8 contains maps showing the relationship of the improvements to the various mill sites in the three patent applications.

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Table 7. Use or Occupancy on Each Mill Site

Mill Site Name	Serial No.	Use or Occupancy on Mill Site
Redo 22-A	NMC 532053	Tailings Pond
Redo 23-A	NMC 532054	Tailings Pond
Redo 24-A	NMC 532055	Tailings Pond
Redo 25-A	NMC 532056	Tailings Pond
Redo 26-A	NMC 532057	Tailings Pond
Redo 27-A	NMC 532058	Tailings Pond & Access Road to Mill
Redo 28-A	NMC 532059	Tailings Pond
Redo 29-A	NMC 532060	Tailings Pond
Redo 30-A	NMC 532061	Tailings Pond
Redo 31-A	NMC 532062	Tailings Pond
Redo 32-A	NMC 532063	Pad for Mill Facilities, Storage Area (including Ore Storage), Storage Building, & Access Road to Mill
Redo 33-A	NMC 532064	Tailings Pond & Access Road to Mill
Redo 34-A	NMC 532065	Tailings Pond
Redo 35-A	NMC 532066	Tailings Pond
Redo 36-A	NMC 532067	Tailings Pond
Redo 37-A	NMC 532068	Pad for Mill Facilities, Storage Area (including Ore Storage), Storage Building, & Abandoned Access Road to Mill
Redo 38-A	NMC 532069	Tailings Dam & Pond and Access Road to Mill
Redo 39-A	NMC 532070	Well, and Tailings Dam & Pond
Redo 40-A	NMC 532071	Tailings Dam & Pond
Redo 41-A	NMC 532072	Tailings Dam & Pond
Redo 42-A	NMC 532073	Tailings Dam & Pond
Redo 43-A	NMC 532074	Tailings Dam
Redo 45-A	NMC 532075	Tailings Pond

Mill Site Name	Serial No.	Use or Occupancy on Mill Site
Redo 46-A	NMC 532076	Tailings Dam & Pond
Redo 47-A	NMC 532077	Tailings Pond
Redo 48-A	NMC 532078	Tailings Pond
Redo 49-A	NMC 532079	Tailings Pond
Redo 50-A	NMC 532080	Tailings Pond
Redo 51-A	NMC 532081	Tailings Pond
Redo 52-A	NMC 532082	Tailings Pond
Redo 54-A	NMC 532083	Tailings Pond
Redo 55-A	NMC 532084	Tailings Pond
Redo 56-A	NMC 532085	Tailings Pond
Redo 57-A	NMC 532086	Tailings Pond
Redo 58-A	NMC 532087	Tailings Pond
Redo 59-A	NMC 532088	Tailings Pond
Redo - 29	NMC 160182	Abandoned Access Road to Mill
Redo - 30	NMC 160183	Access Road to Mill & Abandoned Access Road to Mill
D and B No. 1	NMC 160178	Trailer Park for Employees
D and B No. 2	NMC 160179	Trailer Park for Employees
D and B No. 3	NMC 160180	Trailer Park for Employees
D and B No. 4	NMC 160181	Trailer Park for Employees
D & B No. 5	NMC 206400	Trailer Park for Employees & Access Road to Mill
D & B No. 6	NMC 206401	Sewage Pumping Station & Sewer Pipeline
CAROLYN NO. 1 MILL SITE	NMC 118103	Trailer Park for Employees, an Employee's Trailer, Well, Water Tank, & Pumping Facilities
Linda No. 1	NMC 583608	Managers Residence, Well, & Water Tank

MINERAL PRODUCTION AND MARKETING

American Borate mines their borate ore (colemanite) at the Billie borate mine on the edge of Death Valley National Monument, Inyo County, California, and trucks it thirty miles to their mill in the Amargosa Valley. The surface facilities for the Billie mine are shown in Photograph 11 (Attachment 7, Page 7-11). The Billie ore is mixed at the mill with material from the tailings pond in a 50-50 blend prior to flotation. The flotation product contains 90% colemanite which is trucked to ABC's facilities in Dunn, California, a distance of 115 miles, for grinding and finishing. From there the product is shipped by rail to a west coast port for shipment to Pacific rim fiberglass manufacturers.

A table showing mill production from 1988 through 1990 and a 22 year forecast of mill production is located in Attachment 12 (page 12-2).

FIELD WORK, SAMPLING, AND ANALYTICAL METHODS

As the patent application covers only mill sites, field work was limited to a visual examination of the mill sites, looking for evidence of use or occupancy and for any surface indications of mineralization or mining for the mineral in character determination.

The Billie borate mine was in operation and ABC was actively hauling ore from the Billie mine to the mill site at the time of the field examination.

MINERAL IN CHARACTER DETERMINATION

The clay pits on patented claims to the north and east of the patent application areas would tend to indicate that the Redo series of mill sites are mineral in character. However, the nature of the clay pits as described by Papke (1970) would tend to imply deep (when compared to the water table) and somewhat discontinuous clays of minable grade (in the early 1900s). The fact that mining ceased on these claims in the 1930s and has not started again, even with a modern clay beneficiation plant that is less than 5 miles away, would tend to indicate that the clays in this immediate area are no longer economic to mine. The clays in the patent application areas would be even less economic to mine as they are thinner (generally 0.5 to 1 ft. thick) and deeper (20 to 30 ft.) (Mayhew, 1992, oral communication). The water table may also be 5-9 ft.

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higher in the patent area, as the claypit in which we observed the water level was just to the southeast of the Redo series of mill sites.

To determine if the drilling in the area done by IMV Corporation had shown the presence of, or lack of, any economic clay mineralization I contacted the Plant Manager of the IMV operation in the Amargosa Valley, Mr. Joseph Wwjick. He stated that in his opinion that if there had been any economic clays in the ABC patent area that IMV would have staked them in the early 1970s. Mr. Wwjick suggested that I contact Mr. Jay Mayhew. Mr. Mayhew (1992, oral communication) stated that their drilling showed some sepiolite in the ABC area but that it was not economic to mine as it was under 20 to 30 feet of overburden. The telephone confirmations for both of these calls are located in Attachment 9.

A trench, located on the power line right of way N-18354, on the Linda No. 1 and two small pits, to the west of the north end of the Linda No. 1, exposed a gravel lens which is either cemented by caliche or spring deposits, or is a tuffaceous conglomerate.

To determine if anyone else thought there were mineral occurrences in the vicinity of these application, the locations of all mining claims and mill sites within three miles of the approximate geographic center of the application area were plotted. Other than the old patented clay placer claims just to the north and east of the mill, all of the plotted locations are mill sites, except for a series of fourteen (14) clay(?) placer claims to the southwest of the patent area. The closest of these claims is about one-half mile southwest of the Linda No. 1. See Attachment 10 for the locations of these mill sites and claims with respect to the locations of the patent applications.

No salable minerals were identified on the mill sites during our field examination, that were of sufficient quantity or quality to render them mineral in character.

From this information and the legal considerations pertaining to mill sites (reviewed in Attachment 11), it is concluded that none of the 46 mill sites in these patent applications are mineral in character. The Redo series of mill sites may have been mineral in character at one time (early 1900s), but they are no longer.

USE OR OCCUPANCY DETERMINATION

Review of the case law pertaining to mill sites (see Attachment 11) indicates that tailings dams, tailings ponds, pads for the mill facilities and operation, ore storage areas, storage buildings, storage areas, wells, water tanks, water pumping facilities, housing for employees, and sewage pumping stations are all qualifying occupancies or uses for mill sites under the mining law. Roads and pipelines are not qualifying occupancies or uses.

There are several mill sites that are being only partially used or occupied. However, as a lot is considered to be the smallest aliquot part, the "2-½ acre rule" will only apply to the D & B No. 6. Although there are several mill sites that are not completely used or occupied, the layout and plan of the mill and employee's housing is reasonable. It would be imprudent to split the trailer park into smaller portions, and there is insufficient room to place the manager's residence on the unused portions of the D & B series of mill sites. The use of any of the unoccupied portions of the Redo series of mill sites for employee's housing may pose health or safety problems due to blowing dust, noise, traffic, and ground slope.

The Billie borate mine was in operation and ABC was actively hauling ore from the Billie mine to the mill site at the time of the field examination. When we toured the mill, it was in a startup phase following a temporary shutdown due to market prices and to allow for a reduction in inventory.

Not all of the trailer sites in the trailer park were in actual use at the time of the field examination, but the water and sewer system was in place, the pads were in place for patios (some were roofed), and the streets were paved. These improvements or "occupation" show good faith.

At the time of the field examination, ABC expected to be fully staffed up and in full production in four to eight months. It is anticipated that most of the trailer spaces will be utilized by that time.

It is concluded that the mill sites, except for the Redo - 29, Redo - 30, and the south-half of the D & B No. 6 are used or occupied for mining or milling purposes.

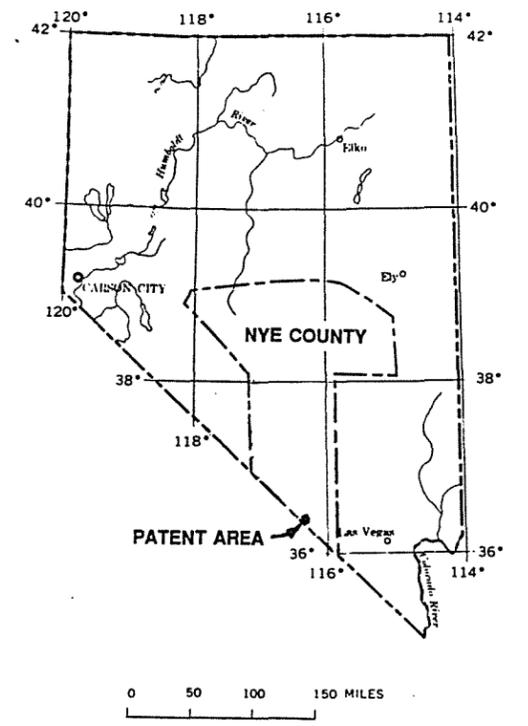
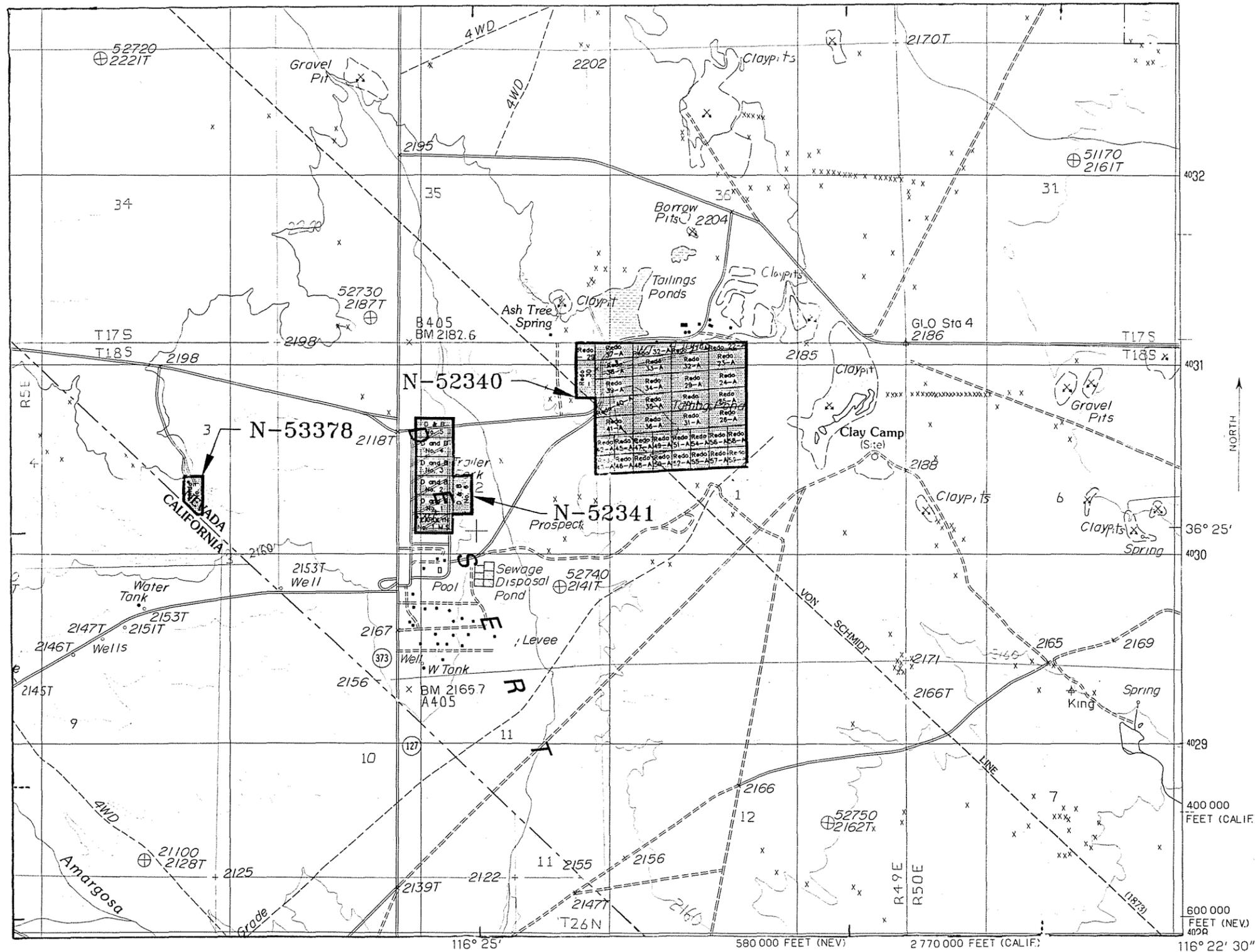
N-52340 American Borate Co.
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- Cornwall, H.R., 1972, Geology and mineral deposits of southern Nye County, Nevada: Nevada Bureau of Mines and Geology Bulletin 77, 49 p.
- Dudley, W.W., and Larson, J.D., 1976, Effect of irrigation pumping on desert pupfish habitats in Ash Meadows, Nye County, Nevada: U.S. Geological Survey Professional Paper 927, 52 p.
- Hosterman, J.W., and Patterson, S.H., 1992, Bentonite and fuller's earth resources of the United States: U.S. Geological Survey Professional Paper 1522, 45 p.
- Khoury, H.N., 1979, Mineralogy and geochemistry of some unusual clay deposits in the Amargosa Desert, southern Nevada: Unpublished Ph.D. thesis, University of Illinois at Urbana-Champaign, 171 p.
- Mayhew, Jay, 1992, Oral communication: Mr. Mayhew is a consulting geological engineer from Lakewood, Colorado, who was one of the original owners of IMV.
- Papke, K.G., 1970, Montmorillonite, bentonite, and fuller's earth deposits in Nevada: Nevada Bureau of Mines Bulletin 76, 47 p.
- Stewart, J.H., 1980, Geology of Nevada: A discussion to accompany the *Geologic Map of Nevada*: Nevada Bureau of Mines and Geology Special Publication 4, 136 p.

Attachment 1.

An Index Map of Nevada and
 A Topographic Map
 of the Patent Area



INDEX MAP OF NEVADA SHOWING LOCATION
 OF NYE COUNTY AND APPROXIMATE
 LOCATION OF THE PATENT AREA

Modified from Cornwall (1972).

Modified from the USGS topographic
 map of the Franklin Wells Quadrangle,
 California-Nevada (1987 provisional edition).

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Attachment 2 (Continued).
Master Title Plat,
Supplemental, Section 1

TOWNSHIP 18 SOUTH RANGE 49 EAST OF THE MOUNT DIABLO MERIDIAN, NEVADA

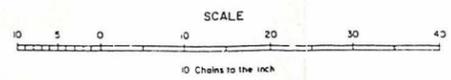
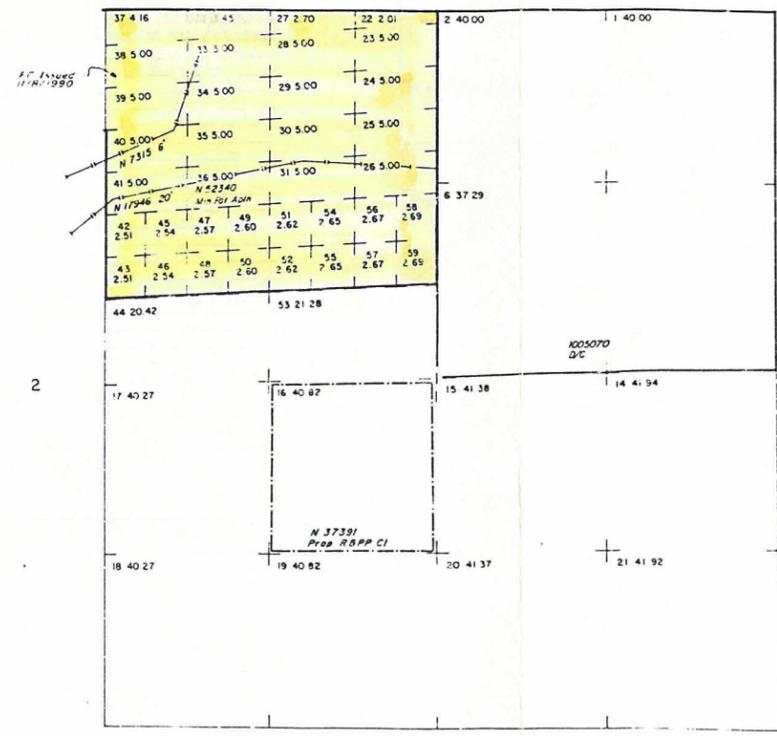
NYE COUNTY
LAS VEGAS GR DIST

STATES OF PUBLIC DOMAIN
LAND AND MINERAL TITLES

MT
SUPPL Sec 1

INDEX TO SEPARATED TRACTS
PAGE 1 OF 2

ALL RIGHTS RESERVED BY THE STATE OF NEVADA
IN THE PUBLIC DOMAIN
MINERAL RIGHTS RESERVED TO THE PUBLIC DOMAIN
SEE NEVADA REV. STAT. ANN. § 20.010



SUPPL. SURVEY SEC 1 ACCEPTED 4/4/1985

RECORDED TO
11/21/80
4-2-78 AD BC



Sec 1
N-050
B S

TOWNSHIP 18 SOUTH RANGE 49 EAST OF THE MOUNT DIABLO MERIDIAN, NEVADA

Attachment 2 (Continued).
 Historical Index

SECTION OR TRACT	SUBDIVISION				LOTS	OTHER DESCRIPTION	ACRES	KIND OF ENTRY -OR- PURPOSE OF ORDER	SERIAL FILE -OR- ORDER NUMBER	DATE OF ACTION	DATE POSTED	REMARKS - E. G. DATE CLOSED, TERMINATED, REJECTED OR RESCINDED
	NE 1/4	NW 1/4	SW 1/4	SE 1/4								
FOR ORDERS EFFECTING DISPOSAL OR USE OF UNIDENTIFIED LANDS WITHDRAWN FOR CLASSIFICATION, MINERALS, WATER, AND/OR OTHER PUBLIC PURPOSES, REFER TO INDEX OF MISCELLANEOUS DOCUMENTS												
1	X				1, 2, 6		157.29	ME Pat	1005070	7/12/1927		
2												
11						Subdiv Und. 155 49E		R/W Hwy	CC 018323	8/6/1934		
2			X	X	7							
11	X				1		178.12	SS Act of Cong. 16/1880	48	5/11/1955		Hev 04627
1					10 thru 21		506.44					
2	X	X	X	X	1, 2, 3, 4, 5, 6		590.34					
3	X				1, 2, 3, 4, 5		221.34					
11	X	X			2, 3		128.18					
12	X	X	X	X	1, 2, 3, 4		641.58					
13	X				1, 2, 3, 4, 5	185 50E	149.51	Sod Per	Hev 048167	9/26/1958		Canc 9/25/1960
2			X	X	2	175 49E		R/W Trans Line	Hev 058536	9/12/1962		Proof of Construction filed 8/2/1968
2						Subdiv Und. 95 45E		R/W Trans Line	Hev 066285	8/23/1966		Proof of Construction accepted 11/18/1971
						Subdiv Und. 175 49E		SLUP	N 307	10/15/1966	8/8/1967	Exp 7/15/1967
1					10 thru 13							
2	X	X			1 thru 5	175 49E		BLM O Proposed CI PX	Sec Rmks	7/13/1967		Serial Nos N 209, 210, 211, 212, 213, 376, 569, 1033; Segr 7/14/1967, CI BLM O 5/6/1968
1					10 thru 13							
2	X	X			1 thru 5	175 49E		BLM O CI PX	Sec Rmks	5/6/1966		Serial Nos N 209, 210, 211, 212, 213, 376, 569, 1033; Vacated Sec Ltr 9/3/1970
1					10 thru 13							
2	X	X			1 thru 5	175 49E		Sec Ltr vacating BLM O CI PX				
								5/6/1968	N 209	9/3/1970		
2						Subdiv Und		R/W Trans Line	N 5418	4/12/1971		Proof of Construction Accepted 10/7/1976
1												
2						Subdiv Und		R/W Pipeline	N 7315	5/30/1975		
2						Sec Rmks	22.50	ME Pat	27-78-0006	4/24/1978		SjNEEWEESWE, NjSEWEESWE, NjSWWEESWE, SjSEWEESWE, SWjSWWEESWE; N 6007
2						Subdiv Und		R/W Trans Line	N 18354	5/22/1978		
3						Subdiv Und		R/W Water Pipeline	N 16589	7/25/1978		
2						Subdiv Und		R/W Water Pipeline	N 17946	3/8/1979		
2						Subdiv Und; 155 49E; 165 49E; 175 49E		R/W Tel Line	N 34043	11/25/1981		
1						22-43, 45-52, 54-59						
2						B. 9	141.29	ME Final Cert	N 52340	11/8/1990		
2						Sec Rmks	35.00	ME Final Cert	N 52341	11/8/1990		WjSWjSWWE, SjSEWEESWE, SjSEWEESWE, NjNEWEESWE
3					9		4.39	ME Final Cert	N 53378	2/27/1991		
1					16		40.82	Prop R&PP CI	N 37391	9/18/1985	4/3/1992	Segr

Attachment 3.

Patent Documents for the Billie Lode Claims

Form 4-1881
(July 1951)

Los Angeles 0170927

The United States of America
To all to whom these presents shall come, Greeting:

WHEREAS, in pursuance of the provisions of the Revised Statutes of the United States, Chapter Six, Title Thirty-two, and legislation supplemental thereto, there are now deposited in the Bureau of Land Management of the United States the Plat and Field Notes of Survey and a Certificate of the Land Office at **Riverside, California,** accompanied by other evidence whereby it appears that

the Kern County Land Company,

has entered and paid for the **Billie No. 3 and Billie No. 4 lode mining claims,**

designated as **Survey No. 6674,** embracing a portion of approximately Section 31 in Township 26 north of Range 3 east of the San Bernardino Meridian, in the Death Valley Mining District, Inyo County, California, the said claims being more particularly described in the official field notes and depicted on the official plat, which are expressly made a part of this patent and copies of which are attached hereto.

The premises herein granted contain 41.320 acres.

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NOV 30 1992
Bureau Of
Land Management

Patent Number **1234567**

N-52340
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N-53378

American Borate Co.

Attachment 3 (Continued.)

Form 6-1922
(July 1922)

Los Angeles 0170927

Now KNOW YE, That there is therefore, pursuant to the laws aforesaid, hereby granted by the United States unto the said

Kern County Land Company

the said mining premises hereinbefore described, and not expressly excepted from these presents, and all that portion of the said veins, lodes, or ledges, and of all other veins, lodes, and ledges throughout their entire depth, the tops or apices of which lie inside of the surface boundary lines of said granted premises in said survey extended downward vertically, although such veins, lodes, or ledges in their downward course may so far depart from a perpendicular as to extend outside the vertical side lines of said premises: *Provided*, That the right of possession to such outside parts of said veins, lodes, or ledges shall be confined to such portions thereof as lie between vertical planes drawn downward through the end lines of said survey, so continued in their own direction that such planes will intersect such exterior parts of said veins, lodes, or ledges; *And provided further*, That nothing herein contained shall authorize the grantee herein to enter upon the surface of a claim owned or possessed by another.

TO HAVE AND TO HOLD said mining premises, together with all the rights, privileges, immunities, and appurtenances of whatsoever nature thereunto belonging, unto the said grantee above named and to its successors and assigns forever; subject, nevertheless, to the above-mentioned

and to the following conditions and stipulations:

FIRST. That the premises hereby granted shall be held subject to any vested and accrued water rights for mining, agricultural, manufacturing, or other purposes, and rights to ditches and reservoirs used in connection with such water rights, as may be recognized and acknowledged by the local laws, customs, and decisions of the courts. And there is reserved from the lands hereby granted a right-of-way thereon for ditches or canals constructed by the authority of the United States.

~~SECOND. That the lands hereby granted shall be held subject to any vested and accrued water rights for mining, agricultural, manufacturing, or other purposes, and rights to ditches and reservoirs used in connection with such water rights, as may be recognized and acknowledged by the local laws, customs, and decisions of the courts. And there is reserved from the lands hereby granted a right-of-way thereon for ditches or canals constructed by the authority of the United States.~~

SECOND. That, except as provided in the Act of June 13, 1933 (48 Stat. 139) and the regulations prescribed thereunder by the Secretary of the Interior, and in the absence of other necessary legislation by Congress, the Legislature of California may provide rules for working the mining claim or premises hereby granted, involving assessments, drainage, and other necessary means to its complete development.

THIRD. That the lands patented hereby are subject to the Act of June 13, 1933 (48 Stat. 139) and the regulations now or hereafter prescribed thereunder by the Secretary of the Interior.

FOURTH. There is reserved to the United States all Leasing Act minerals in the land above described, and the right of the United States, its lessees, permittees, and licensees to enter upon the land, prospect for, drill, mine, treat, store, and remove the same, and to use so much of the surface and subsurface of said land as may be necessary for such purposes, in accordance with the provisions of the Act of August 13, 1954 (68 Stat. 708).

IN TESTIMONY WHEREOF, the undersigned authorized officer of the Bureau of Land Management, in accordance with the provisions of the Act of June 17, 1948 (62 Stat., 476), has, in the name of the United States, caused these letters to be made Patent, and the Seal of the Bureau to be hereunto affixed.

GIVEN under my hand, in the District of Columbia, the TWENTIETH day of AUGUST in the year of our Lord one thousand nine hundred and SIXTY-THREE and of the Independence of the United States the one hundred and EIGHTY-EIGHTH.

For the Director, Bureau of Land Management.

By Elizabeth B. Hucker
Chief, Patents Section.

RECEIVED
NOV. 30 1992

Bureau Of Land Management (SEAL)

Patent Number 1200071

Attachment 3 (Continued.)

Los Angeles 0170927

SUPPLEMENTAL PATENT

The United States of America

To all to whom these presents shall come, Greeting:

WHEREAS, In pursuance of the provisions of the Revised Statutes of the United States, Chapter Six, Title Thirty-two, and legislation supplemental thereto, there are now deposited in the Bureau of Land Management of the United States the Plat and Field Notes of Survey and a Certificate of the Land Office at Riverside, California, accompanied by other evidence whereby it appears that

the Kern County Land Company

has entered and paid for the Millie No. 3 and Millie No. 4 lode mining claims,

designated as Survey No. 6674, embracing a portion of approximately Section 31 in Township 26 north of Range 3 east of the San Bernardino Meridian, in the Death Valley Mining District, Inyo County, California, the said claims being more particularly described in the official field notes and depicted on the official plat, which are expressly made a part of Patent No. 1233074 and copies of which are attached thereto.

The premises herein granted contain 41,320 acres.

RECEIVED
NOV 30 1992
Bureau Of
Land Management

Patent Number 04-66-0058

Attachment 3 (Continued.)

Form 1000-1
March 1943
(Summary 4-4-41)

Los Angeles 0170927

Now Know YE, That there is therefore, pursuant to the laws aforesaid, hereby granted by the United States of America unto the said

Kern County Land Company

the said mining premises hereinbefore described, and not expressly excepted from these presents, and all that portion of the said veins, lodes, or ledges, and of all other veins, lodes, and ledges throughout their entire depth, the tops or apices of which lie inside of the surface boundary lines of said granted premises in said survey extended downward vertically, although such veins, lodes, or ledges in their downward course may so far depart from a perpendicular as to extend outside the vertical side lines of said premises: *Provided*, That the right of possession to such outside parts of said veins, lodes, or ledges shall be confined to such portions thereof as lie between vertical planes drawn downward through the end lines of said survey so continued in their own direction that such planes will intersect such exterior parts of said veins, lodes, or ledges; *And provided further*, That nothing herein contained shall authorize the grantees herein to enter upon the surface of a claim owned or possessed by another.

TO HAVE AND TO HOLD said mining premises, together with all the rights, privileges, immunities, and appurtenances of whatsoever nature thereunto belonging, unto the said grantees above-named and to its successors and assigns forever; subject, nevertheless, to the above-mentioned and to the following conditions and stipulations:

FIRST. That the premises hereby granted shall be held subject to any vested and accrued water rights for mining, agricultural, manufacturing, or other purposes, and rights to ditches and reservoirs used in connection with such water rights, as may be recognized and acknowledged by the local laws, customs, and decisions of the courts. And there is reserved from the lands hereby granted a right-of-way thereon for ditches or canals constructed by the authority of the United States.

~~Second. That the premises hereby granted shall be held subject to any vested and accrued water rights for mining, agricultural, manufacturing, or other purposes, and rights to ditches and reservoirs used in connection with such water rights, as may be recognized and acknowledged by the local laws, customs, and decisions of the courts. And there is reserved from the lands hereby granted a right-of-way thereon for ditches or canals constructed by the authority of the United States.~~

SECOND. That, except as provided in the Act of June 13, 1933 (48 Stat. 139) and the regulations prescribed thereunder by the Secretary of the Interior, and in the absence of other necessary legislation by Congress, the Legislature of California may provide rules for working the mining claim or premises hereby granted, involving easements, drainage, and other necessary means to its complete development.

THIRD. That the lands patented hereby are subject to the Act of June 13, 1933 (48 Stat. 139) and the regulations now or hereafter prescribed thereunder by the Secretary of the Interior.

This patent is issued supplemental to Patent No. 1233074, dated August 20, 1963, which erroneously included in Paragraph Fourth a reservation of Leasing Act minerals and reading as follows:

FOURTH. There is reserved to the United States all Leasing Act minerals in the land above described, and the right of the United States, its lessees, permittees, and licensees to enter upon the land, prospect for, drill, mine, treat, store, and remove the same, and to use so much of the surface and subsurface of said land as may be necessary for such purposes, in accordance with the provisions of the Act of August 13, 1954 (68 Stat. 708).

This supplemental patent is issued to eliminate the aforesaid Paragraph Fourth from Patent No. 1233074.

IN TESTIMONY WHEREOF, the undersigned authorized officer of the Bureau of Land Management, in accordance with the provisions of the Act of June 17, 1948 (62 Stat. 476), has, in the name of the United States, caused these letters to be made Patent, and the Seal of the Bureau to be hereunto affixed.

GIVEN under my hand, in Fresno, California, this 15th day of OCTOBER, 1963, in the year of our Lord one thousand nine hundred and SIXTY FIVE and of the Independence of the United States one hundred and NINETYTHREE.

By /s/ Robert E. McCarthy
Acting Manager, Supervisory Land Office

RECEIVED
NOV 30 1962
Bureau Of
Land Management

(SEAL)

Patent Number 04-66-0058

Attachment 3 (Continued.)

Form 4-1991
July 1969

72

Los Angeles 0168748

The United States of America

To all to whom these presents shall come, Greeting:

WHEREAS, in pursuance of the provisions of the Revised Statutes of the United States, Chapter Six, Title Thirty-two, and legislation supplemental thereto, there are now deposited in the Bureau of Land Management of the United States the Plat and Field Notes of Survey and a Certificate of the Land Office at Riverside, California, accompanied by other evidence whereby it appears that

the Kern County Land Company

has entered and paid for the Billie No. 10, Billie No. 11, Billie No. 12, Billie No. 14, Billie No. 16, Billie No. 21 and Billie No. 22 lode mining claims,

designated as Survey No. 6665, embracing a portion of approximately Section 6 in Township 25 north and Section 31 in Township 26 north, all in Range 3 east of the San Bernardino Meridian, in the Death Valley Mining District, Inyo County, California, the said claims being more particularly described in the official field notes and depicted on the official plat, which are expressly made a part of this patent and copies of which are attached hereto; but excluding and excepting from these claims all of that portion of ground within the boundaries of the Plain View Extension No. 1 lode claim, Survey No. 4284; and further excluding and excepting all veins, lodes and ledges throughout their entire depth, the tops or apices of which lie inside of the said excluded ground.

The premises herein granted contain 138.283 acres.

RECEIVED
NOV 5 0 1992

Bureau Of
Land Management

Patent Number 1233073

Exhibit B

N-52340
N-52341
N-53378

American Borate Co.

Attachment 3 (Continued.)

Form 4-1962
(July 1962)

Los Angeles 0168748

NOW KNOW YE, That there is therefore, pursuant to the laws aforesaid, hereby granted by the United States unto the said

Kern County Land Company

the said mining premises hereinbefore described, and not expressly excepted from these presents, and all that portion of the said vein, lode, or ledge, and of all other veins, lodes, and ledges throughout their entire depth, the tops or apices of which lie inside of the surface boundary lines of said granted premises in said survey extended downward vertically, although such veins, lodes, or ledges in their downward course may so far depart from a perpendicular as to extend outside the vertical side lines of said premises: *Provided*, That the right of possession to such outside parts of said veins, lodes, or ledges shall be confined to such portions thereof as lie between vertical planes drawn downward through the end lines of said survey so continued in their own direction that such planes will intersect such exterior parts of said veins, lodes, or ledges; *And provided further*, That nothing herein contained shall authorize the grantee herein to enter upon the surface of a claim owned or possessed by another.

To HAVE AND TO HOLD said mining premises, together with all the rights, privileges, immunities, and appurtenances of whatsoever nature thereunto belonging, unto the said grantee above named such as

and to its successors and assigns forever; subject, nevertheless, to the above-mentioned

and to the following conditions and stipulations:

FIRST. That the premises hereby granted shall be held subject to any vested and accrued water rights for mining, agricultural, manufacturing, or other purposes, and rights to ditches and reservoirs used in connection with such water rights, as may be recognized and acknowledged by the local laws, customs, and decisions of the courts. And there is reserved from the lands hereby granted a right-of-way thereon for ditches or canals constructed by the authority of the United States.

~~SECOND. That in the absence of necessary legislation by Congress, the Legislature of~~

~~may provide decision for working the mining claim on premises hereby granted involving easements, drainage, and other necessary means to its complete development.~~

SECOND. That, except as provided in the Act of June 13, 1933 (48 Stat. 139) and the regulations prescribed thereunder by the Secretary of the Interior, and in the absence of other necessary legislation by Congress, the Legislature of California may provide rules for working the mining claim or premises hereby granted, involving easements, drainage, and other necessary means to its complete development.

THIRD. That the lands patented hereby are subject to the Act of June 13, 1933 (48 Stat. 139) and the regulations now or hereafter prescribed thereunder by the Secretary of the Interior.

FOURTH. There is reserved to the United States all Leasing Act minerals in the land above described, and the right of the United States, its lessees, permittees, and licensees to enter upon the land, prospect for, drill, mine, treat, store, and remove the same, and to use so much of the surface and subsurface of said land as may be necessary for such purposes, in accordance with the provisions of the Act of August 13, 1954 (68 Stat. 708).

IN TESTIMONY WHEREOF, the undersigned authorized officer of the Bureau of Land Management, in accordance with the provisions of the Act of June 17, 1948 (62 Stat. 476), has, in the name of the United States, caused these letters to be made Patent, and the Seal of the Bureau to be hereunto affixed.

GIVEN under my hand, in the District of Columbia, the TWENTIETH day of AUGUST in the year of our Lord one thousand nine hundred and SIXTY-THREE and of the Independence of the United States the one-hundred and EIGHTY-EIGHTH.

For the Director, Bureau of Land Management.

By Elizabeth D. Shuck
Chief, Patents Section.

RECEIVED
NOV 30 1992

Bureau Of
Land Management

Patent Number 1233073

Attachment 3 (Continued.)

Form 4-1041
Copyright 1957
SUPPLEMENTAL PATENT
Los Angeles 0168795

The United States of America

To all to whom these presents shall come, Greeting:

WHEREAS, In pursuance of the provisions of the Revised Statutes of the United States, Chapter Six, Title Thirty-two, and legislation supplemental thereto, there are now deposited in the Bureau of Land Management of the United States the Plat and Field Notes of Survey and a Certificate of the Land Office at Riverside, California, accompanied by other evidence whereby it appears that

the Kern County Land Company

has entered and paid for the Billie No. 10, Billie No. 11, Billie No. 12, Billie No. 14, Billie No. 16, Billie No. 21 and Billie No. 22 lode mining claims,

designated as Survey No. 6665, embracing a portion of approximately Section 6 in Township 25 north and Section 31 in Township 26 north, all in Range 3 east of the San Bernardino Meridian, in the Death Valley Mining District, Inyo County, California, the said claims being more particularly described in the official field notes and depicted on the official plat, which were expressly made a part of Patent No. 1233073 and copies of which are attached thereto; but excluding and excepting from these claims all of that portion of ground within the boundaries of the Plain View Extension No. 1 lode claim, Survey No. 4284; and further excluding and excepting all veins, lodes and ledges throughout their entire depth, the tops or apices of which lie inside of the said excluded ground.

The premises herein granted contain 138.283 acres.

Patent Number 04-66-0057

RECEIVED
NOV 30 1992

Bureau Of
Land Management

N-52340 American Borate Co.
N-52341
N-53378

Attachment 3 (Continued.)

Form 1840-19
(March 1963)
(Summary 4-1093)

Los Angeles 0168748

NOW KNOW YE, That there is therefore, pursuant to the laws aforesaid, hereby granted by the United States of America unto the said

Kern County Land Company

the said mining premises hereinbefore described, and not expressly excepted from these presents, and all that portion of the said vein # , lode # , or ledge # , and of all other veins, lodes, and ledges throughout their entire depth, the tops or apices of which lie inside of the surface boundary lines of said granted premises in said survey extended downward vertically, although such veins, lodes, or ledges in their downward course may so far depart from a perpendicular as to extend outside the vertical side lines of said premises: *Provided*, That the right of possession to such outside parts of said veins, lodes, or ledges shall be confined to such portions thereof as lie between vertical planes drawn downward through the end lines of said survey so continued in their own direction that such planes will intersect such exterior parts of said veins, lodes, or ledges; *And provided further*, That nothing herein contained shall authorize the grantee herein to enter upon the surface of a claim owned or possessed by another.

TO HAVE AND TO HOLD said mining premises, together with all the rights, privileges, immunities, and appurtenances of whatsoever nature thereto belonging, unto the said grantee above-named and to its successors and assigns forever, subject, nevertheless, to the above-mentioned and to the following conditions and stipulations:

FIRST. That the premises hereby granted shall be held subject to any vested and accrued water rights for mining, agricultural, manufacturing, or other purposes, and rights to ditches and reservoirs used in connection with such water rights, as may be recognized and acknowledged by the local laws, customs, and decisions of the courts. And there is reserved from the lands hereby granted a right-of-way thereon for ditches or canals constructed by the authority of the United States.

~~SECTION FOURTH. That the lands patented hereby are subject to the Act of June 13, 1933 (48 Stat. 139) and the regulations prescribed thereunder by the Secretary of the Interior, and in the absence of other necessary legislation by Congress, the Legislature of California may provide rules for working the mining claim or premises hereby granted, involving assessment, drainage, and other necessary means to its complete development.~~

SECTION FIFTH. That, except as provided in the Act of June 13, 1933 (48 Stat. 139) and the regulations prescribed thereunder by the Secretary of the Interior, and in the absence of other necessary legislation by Congress, the Legislature of California may provide rules for working the mining claim or premises hereby granted, involving assessment, drainage, and other necessary means to its complete development.

THIRD. That the lands patented hereby are subject to the Act of June 13, 1933 (48 Stat. 139) and the regulations now or hereafter prescribed thereunder by the Secretary of the Interior.

This patent is issued supplemental to Patent No. 1233073, dated August 20, 1963, which erroneously included in Paragraph Fourth a reservation of Leasing Act minerals and reading as follows:

FOURTH. There is reserved to the United States all Leasing Act minerals in the land above described, and the right of the United States, its lessees, permittees, and licensees to enter upon the land, prospect for, drill, mine, treat, store, and remove the same, and to use so much of the surface and subsurface of said land as may be necessary for such purposes, in accordance with the provisions of the Act of August 13, 1954 (66 Stat. 708).

This supplemental patent is issued to eliminate the aforesaid Paragraph Fourth from Patent No. 1233073.

IN TESTIMONY WHEREOF the undersigned authorized officer of the Bureau of Land Management, in accordance with the provisions of the Act of June 17 1948 (62 Stat. 476), has, in the name of the United States, caused these letters to be made Patent, and the Seal of the Bureau to be hereunto affixed

GIVEN under my hand in Yuba, California, in the year of our Lord one thousand nine hundred and SIXTY and of the Independence of the United States ONE hundred and SEVENTEEN.

By /s/ Robert E. McCarthy
Acting Manager, Sacramento Land Office

Patent Number 04-66-0057

RECEIVED
NOV 30 1962

Bureau of
Land Management

**Attachment 4-A.
Certificate of Title and Location Notices
for Patent Application N-52340**

Form 3860-2
(July 1981)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Local Entry Serial Number

CERTIFICATE OF TITLE ON MINING CLAIMS

An individual a corporation, hereby

certifies that an examination of the instruments shown by the indices in the office of the Recorder of the County of NYE, State of NEVADA, discloses that the title to the mining claim hereinafter described that was acquired by the locators of said claim by the filing of said claim is at the date hereof vested in AMERICAN BORATE COMPANY, a general partnership

- Subject to:
- (1) Paramount title of the United States of America.
 - (2) Any taxes or assessments that may be a lien.
 - (3) The inadequacy of any evidence of labor that may appear of record.
 - (4) Adverse rights which may exist by reason of any encroachment of other mining claims onto the claim hereinafter described or of any overlapping of the boundaries of said claim onto other claims.

The mining claim above referred to is that certain claim situate in ~~XX~~ AN UNKNOWN mining district, County of NYE, State of NEVADA, more particularly:

described as follows (see instructions):

REDO 22-A THROUGH REDO 43-A, REDO 45-A THROUGH REDO 52-A, REDO 54-A THROUGH REDO 59-A, REDO - 29 AND REDO - 30 millsites. The description of the above claims are incorporated by reference to and Attachment of a certified copy of each claim.

NEVADA STATE DEPT. OF LAND
DEC - 7 P 3:34

This certificate is issued and accepted upon the understanding that the liability assumed hereby shall not exceed \$100.

Seal

GRESHAM, VARNER, SAVAGE, NOLAN & TILDEN

(Individual or Firm Name)
By: M. William Tilden-State Bar #051708
600 North Arrowhead Avenue
San Bernardino, CA 92401

(Address)

12/7/89

(Date)

By

M. William Tilden

(Signature)

(Instructions on reverse)

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *22-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT #*22*, Section 1, T 18 S, R 49 E, HDM

LOCATION MONUMENT IS 20 FEET NE OF THE SW CORNER LOT 22

4. The aforesaid Hillsite consists of *2.01* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: *11-1-88*

AMERICAN BORATE COMPANY
Locator

By: *Frederic E. Johnson*

OFFICIAL RECORDS
NVE CO. NEV.
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
88 OCT 22 P2:46
226155
NAOMA LYDON
RECORDER
FEE *5.00* DEP *sl*

BOOK 667 PAGE 318

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *23-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # *23*, Section 1, T 18 S, R 49 E, MDM

Location Monument is 20 feet SE of NW corner of Lot 23

4. The aforesaid Hillside consists of *5.0* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Frederic C. Johnson*

OFFICIAL RECORDS
NVE CO LEV
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:46
226156
KACMA LYDON
RECORDER
FEE *5.00* DEP *at*

BOOK 667 PAGE 319

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo 24-A
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # 24, Section 1, T 18 S, R 49 E, MDM

LOCATION MONUMENT IS 20 FEET SW OF THE NE CORNER LOT 24

4. The aforesaid Millsite consists of 5.0 acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1 st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: Frederic A. Shuman

OFFICIAL RECORDS
NYE CO NEV
RECORD RECEIVED BY
GRESHAM, VARNER & ETALS
DEC 22 P2 16
226157
NADMA LYNN
RECORDER
DEC 5 1988

BOOK 667 PAGE 320

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION

HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo 25-A
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # 25, Section 1, T 18 S, R 49 E, MDM

LOCATION MONUMENT IS 15 FEET NW OF THE SE CORNER LOT 25

4. The aforesaid Hillside consists of 5.0 acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Frederic J. Johnson*

OFFICIAL RECORDS
455 CO. ST.
RECORD REGISTERED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:45
226158
NADMA LYON
RECORDED
FEE 5.00 CCP *al*

BOOK 667 PAGE 321

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *26-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT #26, Section 1, T 18 S, R 49 E, MDM

LOCATION MONUMENT IS 15 FEET SW OF THE NE CORNER LOT 26

4. The aforesaid Hillside consists of *5.0* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1989

AMERICAN BORATE COMPANY
Locator

By: *Fredrick Johnson*

OFFICIAL RECORDS
NVE CO NEV
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:46
226159
NAPPA LYDOM
RECORDER
FEE *5.00* DEP *al*

BOOK 667 PAGE 322

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *27-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT #27, Section 1, T 18 S, R 49 E, MDM

LOCATION MONUMENT IS 20 Feet NW OF THE SE CORNER OF LOT 27

4. The aforesaid Hillsite consists of *2.70* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

OFFICIAL RECORDS
NVE CO NEV
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS

88 DEC 22 P2:46
226160

NACHA LYDON
RECORDER

FEES 5.00 OFF al

By *[Signature]*

BOOK 667 PAGE 323

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *28-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # *28*, Section 1, T 18 S, R 49, E, MDM

LOCATION IS 20 Feet SW OF THE NE CORNER OF LOT 28

4. The aforesaid Hillsite consists of *5.0* acres and was located
November 1, 1988

5. The date of the posting of the Notice of Location on the claim was
the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name
by its authorized agent, this date: NOV 1 1989

AMERICAN BORATE COMPANY
Locator

By: *[Signature]*

OFFICIAL RECORDS
CLAY CO. NEV.
REC'D REQUESTED BY
GRESBAM, VARNER & ETALS
88 DEC 22 P2:46
226161
WANDA LYDON
RECORDER
FEE *5.00* *[Signature]*

BOOK 667 PAGE 324

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION

HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *29-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT #*29*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 285 FEET SOUTH AND 20 FEET WEST OF A WITNESS MONUMENT WHICH IS 65 FEET SOUTH OF THE NE CORNER OF LOT 28

4. The aforesaid Hillside consists of *5.0* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Frederick J. Johnson*

OFFICIAL RECORDS
NVE CO NEV
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
88 DEC 27 P2:46
226162
MARMA LYDOM
RECORDER
FEE *5.00* SEP *nl*

BOOK 667 PAGE 325

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo 30-A
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # 30, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 605 FEET SOUTH AND 20 FEET WEST FROM A WITNESS MONUMENT WHICH IS 75 FEET SOUTH OF THE NE CORNER OF LOT 28

4. The aforesaid Hillside consists of 5.0 acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *[Signature]*

OFFICIAL RECORDS
NVE CO NEV
RECORDED REQUESTED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:46
226163
NAOMA LYCOM
RECORDER
FEE 5.00 DEP *[Signature]*

BOOK 667 PAGE 326

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *31-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # *31*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 350 FEET NORTH OF A WITNESS MONUMENT WHICH IS 50 FEET NORTH OF THE SW CORNER OF LOT 54

4. The aforesaid Hillside consists of *5.0* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *[Signature]*

OFFICIAL RECORDS
RECORDED BY
GRESHAM, VARNER & ETALS
78 DEC 22 P2:46
226164
NATHALYDON
FEE *5.00*

BOOK 667 PAGE 327

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *32-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT #*32*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 20 FEET NE OF THE SW CORNER OF LOT 32

4. The aforesaid Hillsite consists of *3.45* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the *1* at day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *[Signature]*

OFFICIAL RECORDS
WYE CO. NEV.
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
78 DEC 22 P2:46
226165
NACMA LYDCH
RECORDER
FEE *5.00* DEP. *al*

BOOK 667 PAGE 328

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is *Redo 33-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situated lying and being in

LOT #33, Section 1, T 18 S, R 49 E, MDK

LOCATION IS 20 FEET NE OF THE SW CORNER OF LOT 33

4. The aforesaid Hillside consists of *5.0* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Frederic E. Johnson*

OFFICIAL RECORDS
NVE CO KEY
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:46
226166
NAPHA LYDCH
RECORDER
FEE 5.00 DEP *st*

BOOK 667 PAGE 329

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
MILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo 34-A
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # 34, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 20 FEET SE OF THE NW CORNER OF LOT 34

4. The aforesaid Millsite consists of 5.0 acres and was located
November 1, 1988

5. The date of the posting of the Notice of Location on the claim was
the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name
by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Fredrick E. Johnson*

OFFICIAL RECORDS
NVE CO. SEV.
RECORDS REQUESTED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:46
226167
NARVA LYDCH
RECORDER
FEE 5.00 DEP *ml*

BOOK 667 PAGE 330

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *35-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # *35*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 330 FEET SOUTH AND 20 FEET EAST OF A WITNESS MONUMENT WHICH IS 20 FEET SOUTH OF THE NW CORNER OF LOT 34

4. The aforesaid Hillside consists of *5.0* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the *1* st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Frederic E. Johnson*

OFFICIAL RECORDS
NVE CO NEV
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:46
226168
NACHA LYDON
RECORDER
FFF 5.00 SEP *al*

BOOK 667 PAGE 331

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *36-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT #*36*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 355 FEET NORTH AND 20 FEET WEST OF A WITNESS MONUMENT WHICH IS 50 FEET NORTH OF THE SE CORNER OF LOT 49

4. The aforesaid Hillside consists of *5.0* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By *Fredrick J. Johnson*

OFFICIAL RECORDS
NYS & O. NEW
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:47
226169
NARMA LYDCH
RECORDER
FEE *5.00* DEP *al*

BOOK 667 PAGE 332

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *37-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nominal land not exceeding five acres, situate, lying and being in

LOT # *37*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 20 FEET NW OF THE SE CORNER OF LOT 37

4. The aforesaid Hillside consists of *4.16* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1 st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Frederic Johnson*

OFFICIAL RECORDS
REC'D BY
RECORDED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:47
226170
MADON LYON
RECORDER
FEE *5.00* DEP *al*

BOOK 667 PAGE 333

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
MILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *3B-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # *3B*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 20 FEET NW OF THE SE CORNER OF LOT 38

4. The aforesaid Hillside consists of *5.0* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Fredrick J. Plummer*

OFFICIAL RECORDS
NVE CO NEV.
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:47
226171
NACMA LYDON
RECORDER
FEE 5.00 DEP *me*

BOOK 667 PAGE 334

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM.

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo 39-A.
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # 39, Section 1, T 18 S, R 49 E, MIN

LOCATION IS 20 FEET SW OF THE NE CORNER OF LOT 39

4. The aforesaid Hillsite consists of 5.0 acres and was located
November 1, 1988
5. The date of the posting of the Notice of Location on the claim was
the 1 at day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name
by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: Frederick Johnson

OFFICIAL RECORDS
NYE CO. NV
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS

88 DEC 22 P2:37
226172

WACHA LYDON
RECORDER

FEE 5.00 DEP al

BOOK 667 PAGE 335

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rte. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION

HILL SITE CLAIM.

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is *Redo -40A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT #40, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 20 FEET NE OF THE SW CORNER OF LOT 40

4. The aforesaid Hillsite consists of *5.0* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the *1*st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Frederic Johnson*

OFFICIAL RECORDS
4YE CO. NV
RECORD RECEIVED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:47
226173
NACMA LYONH
RECORDED
FEE 5.00

BOOK 667 PAGE 336

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo 41-A
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # 41, Section 1, T 18 S, R 49 E, MIN

LOCATION IS 20 FEET SE OF THE NW CORNER OF LOT 41

4. The aforesaid Millsite consists of 5.0 acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *[Signature]*

OFFICIAL RECORDS
RECORDED BY
GRESHAM, VARNER & ETALS
NOV 22 1988
226174
NAGAN LYON
RECORDED
FEE \$ 0.00

BOOK 667 PAGE 337

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION

HILL SITE CLAIM.

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *43-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # *43*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 20 FEET SE OF THE NW CORNER OF LOT 43

4. The aforesaid Hillside consists of *2.51* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the *1* st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *[Signature]*

OFFICIAL RECORDS
NYE CO. NV
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS

'88 DEC 22 P2:47
226176

NATHA LYDCH
RECORDER

FEES *5.00* SEP *[Signature]*

BOOK 667 PAGE 339

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *45-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situated lying and being in

LOT # *45*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 255 FEET NORTH AND 20 FEET WEST OF A WITNESS MONUMENT WHICH IS 95 FEET NORTH OF THE SE CORNER OF LOT 46

4. The aforesaid Hillsite consists of *2.54* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Fredrick Johnson*

OFFICIAL RECORDS
RECORDED BY
GRESHAM, VARNER & ETALS
73 DEC 22 P2:47
226177
NACHE, NV
RECORDER
FEE *50* DEP *al*

BOOK 667 PAGE 340

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION

HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *46-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # *46* Section 1, T 18 S, R 49 E, MDM

LOCATION IS 20 FEET NW OF THE SE CORNER OF LOT 46

4. The aforesaid Hillside consists of *2.54* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1 st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Frederic E. Johnson*

OFFICIAL RECORDS
475 CO. 45V
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS

78 DEC 22 P2:47
226178

NADIA LYON
RECORDER

FEES *5.00* DEP *[Signature]*

BOOK 667 PAGE 341

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *47-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # *47*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 250 FEET NORTH AND 20 FEET EAST OF A WITNESS MONUMENT WHICH IS 100 FEET NORTH OF THE SE CORNER OF LOT 46

4. The aforesaid Hillside consists of *2.57* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *[Signature]*

OFFICIAL RECORDS
AMERICAN BORATE COMPANY
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS

83 FEB 22 P2:47
226179

ALMA LYDEN
RECORDER

FEE *5.02* D&P *[Signature]*

BOOK 667 PAGE 342

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *48-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # *48*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 20 FEET NE OF THE SW CORNER OF LOT 48

4. The aforesaid Hillside consists of *2.57* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

OFFICIAL RECORDS
WYE CO. NV
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS

88 DEC 22 P2:47
226150

HARMA LYDON
RECORDER

FEE *50.00*

By: *[Signature]*

BOOK 667 PAGE 343

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rr. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *49-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT # *49*, Section 1, T 18 S. R 49 E, MDM

LOCATION IS 20 FEET NW OF THE SE CORNER OF LOT 49

4. The aforesaid Hillsite consists of *2.60* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1 st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1989

AMERICAN BORATE COMPANY
Locator

By: *Fredricka Shover*

OFFICIAL RECORDS
CLERK COUNTY
RECORDED BY
GRESHAM, VARNER & ETALS
NOV 22 1989
226151
NORTHWOOD
RECORDS
Fredricka Shover

BOOK 667 PAGE 344

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION

HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *50-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT *50*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 12 FEET SW OF THE NE CORNER OF LOT 50

4. The aforesaid Hillsite consists of *2.60* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the *1* st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Frederic E. Johnson*

OFFICIAL RECORDS
NVE CO NEV
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:47
220182
NACMA LYDON
RECORDER
Frederic E. Johnson

BOOK 667 PAGE 345

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *51-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT #*51*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 20 FEET NW OF THE SE CORNER OF LOT 51

4. The aforesaid Hillsite consists of *2.62* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *[Signature]*

OFFICIAL RECORDS
WYE CO NEV
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:48
726183
NAOMA LYDON
RECORDER
FEE *5.00* DEP *[Signature]*

BOOK 667 PAGE 346

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo 52-A
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT #52, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 20 FEET SW OF THE NE CORNER OF LOT 52

4. The aforesaid Hillsite consists of 2.62 acres and was located November 1, 1988
 5. The date of the posting of the Notice of Location on the claim was the 1 st day of November, 1988.
- IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: [Signature]

OFFICIAL RECORDS
NV CO. NV.
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:48
22618-1
MAGNA LYCOM
RECORDER
FEES 5.00 DEP sl

BOOK 667 PAGE 347

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
MILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo 54-A
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT #54, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 20 FEET NE OF THE SW CORNER OF LOT 54

4. The aforesaid Millsite consists of 2.65 acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *[Signature]*

OFFICIAL RECORDS
NVE ED REV.
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
88 DEC 22 P2:48
226185
NAOMA LYDON
RECORDER
FEE 5.00 REP *[Signature]*

BOOK 667 PAGE 348

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *55-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT *55*, Section 1, T 18 S, R 49 E, MDM

LOCATION IS 20 FEET SE OF THE NW CORNER OF LOT 55

4. The aforesaid Hillside consists of *2.65* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

OFFICIAL RECORDS
RECORDED BY
GRESHAM, VARNER & ETALS

78 DEC 22 P2:48
226156
NAOMA LYNN
RECORDER

FEE *5.00* SEP *[Signature]*

By: *[Signature]*

BOOK 667 PAGE 349

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *56-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT *56*, Section 1, T 18 S, R 49 E, MDM

LOCATION MONUMENT IS 20 FEET NW OF THE SE CORNER LOT 56

4. The aforesaid Hillside consists of *2.67* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

BY: *[Signature]*

OFFICIAL RECORDS
BY: C. NEV
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS

88 DEC 22 P2:48
220187

MAOMA LYDOM
RECORDER

FEE *5.00* DEP *[Signature]*

BOOK 667 PAGE 350

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *57-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT #*57*, Section 1, T 18 S, R 49 E, MDM

LOCATION MONUMENT IS 20 FEET SW OF THE NE CORNER LOT 57

4. The aforesaid Hillside consists of *2.67* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the *1* at day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Frederic Johnson*

OFFICIAL RECORDS
BY: CC NEV
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
NOV 22 1988
726188
MAGDA LYDON
RECORDER
FEE *5.00* DEP *al*

BOOK 667 PAGE 351

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *58-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT #*58*, Section 1, T 18 S, R 49 E, MDN

LOCATION MONUMENT IS 20 FEET NE OF THE SW CORNER OF LOT 58

4. The aforesaid Hillside consists of *2.69* acres and was located November 1, 1988
5. The date of the posting of the Notice of Location on the claim was the 1st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By: *Fredrick T. Johnson*

OFFICIAL RECORDS
NVC CO. NEV
RECORD REQUESTED BY
GRESHAM, VARNER & ETALS
DEC 22 P2:48
26189
MADMA LYDON
RECORDER
FEE *5.00* DEP *me*

BOOK 667 PAGE 352

Attachment 4-A (Continued).

When recorded, please return to:

American Borate Company
P.O. 610 Rt. 15
Amargosa Valley, NV 89020

CERTIFICATE OF LOCATION
HILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is Redo *59-A*
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in

LOT *59*, Section 1, T 18 S, R 49 E, MDM.

LOCATION IS 20 FEET SE OF THE NW CORNER OF LOT 59

4. The aforesaid Hillsite consists of *2.69* acres and was located
November 1, 1988
5. The date of the posting of the Notice of Location on the claim was
the 1 st day of November, 1988.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name
by its authorized agent, this date: NOV 1 1988

AMERICAN BORATE COMPANY
Locator

By *Frederic E. Johnson*

OFFICIAL RECORDS
NV CO. NEV
RECORD REQUESTED BY
GRESHAM, VARNER & TALS
DEC 22 P2:48
726190
NAOMA LYDON
RECORDER
FEE *5.00* DEP *nl*

BOOK 667 PAGE 353

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded
please return to:

File No. 25136 Filed for record at request of
American Borate Co. June 26, 1980
NANCY BOLLING
AMERICAN BORATE COMPANY at 40 minutes past 1 o'clock P. M. in our
3311 S. JONES BLVD. of Official Records page Nye County, Nevada.
SUITE 212
LAS VEGAS
NEVADA 89102
Nancy Bolling
County Recorder

CERTIFICATE OF LOCATION

MILL SITE CLAIM

To Whom It May Concern: Please take notice and we
certify that:

1. The name of this claim is Redo # 29
2. The name of the locator of said claim is
American Borate Company; owner of the Billie Mine.
3. Said locator does hereby declare and publish
as a legal notice that it is the proprietor
of a vein or lode claim, or mine, or the
owner of a quartz mill or reduction works,
and has a valid right to the occupation,
possession and enjoyment of all and singular
that tract or parcel of nonmineral land not
exceeding five acres, situate, lying and
being in
The North 299.4 ft. of East 330 Ft. of Lot 1,
Sec. 2, T. 18 S., R. 49E., MDM
Nye County, Nevada
4. The aforesaid Millsite consists of 2.3 acres
and was located May 27, 1980
5. The date of the posting of the Notice of
Location on the claim was the May 27, 1980

IN WITNESS WHEREOF, the said locator has hereunto set
its corporate name by its authorized agent, this

AMERICAN BORATE COMPANY
Locator

By: *Nancy Bolling*
Nancy Bolling

BOOK 276 PAGE 49

Attachment 4-A (Continued).

When Recorded Return to:

AMERICAN BORATE COMPANY
Box 610 RT. 15
Amargosa Valley, NV 89020

AMENDED CERTIFICATE OF LOCATION

(MILLSITE CLAIM)

PLEASE TAKE NOTICE AND WE CERTIFY THAT:

The undersigned locator, on the date given below immediately above its name in execution hereof, amended, and by these presents does amend, a certain millsite claim named: REDO - 29 .

The owners current mailing address, for purposes of this claim, is as follows: AMERICAN BORATE COMPANY, P.O. Box 610 Rt. 15, Amargosa Valley, NV 89020

The locator is a domestic corporation authorized to claim, locate and own real property and possessory interests in the State of Nevada.

Said claim is situated in Section 2, Township 18 S., Range 49 E., Mount Diablo Meridian, in the unknown Mining District in the County of Nye, State of Nevada. It was originally located on the 27th day of May, 1980, and the certificate of location was recorded on the 26th day of June, 1980, in Book 276 of Official Records at Page 49, in the Office of the County Recorder of said County. NMC.# 160182. American Borate Company is the owner of the claim.

The locator does now hereby amend the claim in said district, County and State, and which said claim covers 2.27 acres of non-mineral land, so as to better describe its size and position. The position of the millsite is :

LOT # 8, Section 2, T.18 S., R.49 E., M.D.M.

The locator is the owner of certain valid lode mining claims and the proprietor of the Billie Borate Mine, and has a valid right to the occupation, possession, and enjoyment of this millsite claim.

This amended certificate of location is made without waiver of any previously acquired rights.

OFFICIAL RECORDS Agent: *Fredrick C. Anderson*
NEVADA
RECORD REQUESTED BY Locator: AMERICAN BORATE CO.
GRESHAM, VARNER & ETALS BOX 610 RT. 15
AMARGOSA VALLEY, NV 89020

DEC 22 1980

726193

MARMA LYDON
RECORDER

FEE \$ 50.00 DEP *sl*

State Fee - 1.25

BOOK 667 PAGE 357

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-A (Continued).

When recorded
please return to:

NANCY BOLLING
AMERICAN BORATE COMPANY File No. 25137 Filed for record at request of
3311 S. JONES BLVD. American Borate Co. June 26
SUITE 212 at 40 minutes past 1 o'clock P.m. and in book
LAS VEGAS of Official Records page Nye County, Nevada
NEVADA 89102 *Nancy Bolling*
County Recorder

CERTIFICATE OF LOCATION

MILL SITE CLAIM

To Whom It May Concern: Please take notice and we
certify that:

1. The name of this claim is Redo #30
2. The name of the locator of said claim is
American Borate Company; owner of the Billie Mine
3. Said locator does hereby declare and publish
as a legal notice that it is the proprietor
of a vein or lode claim, or mine, or the
owner of a quartz mill or reduction works,
and has a valid right to the occupation,
possession and enjoyment of all and singular
that tract or parcel of nonmineral land not
exceeding five acres, situate, lying and
being in
The South 659.6 Ft. of North 959 Ft. of East 330 Ft.
of Lot 1, Sec. 2, T. 18 S., R. 49 E., MDM
Nye County, Nevada
4. The aforesaid Millsite consists of 4.9 acres
and was located May 27, 1980
5. The date of the posting of the Notice of
Location on the claim was the May 27, 1980

IN WITNESS WHEREOF, the said locator has hereunto set
its corporate name by its authorized agent, this

AMERICAN BORATE COMPANY
Locator

By: *Nancy Bolling*
Nancy Bolling

BOOK 276 PAGE 50

Attachment 4-A (Continued).

When Recorded Return to:

AMERICAN BORATE COMPANY
Box 610 RT. 15
Amargosa Valley, NV 89020

AMENDED CERTIFICATE OF LOCATION

(MILLSITE CLAIM)

PLEASE TAKE NOTICE AND WE CERTIFY THAT:

The undersigned locator, on the date given below immediately above its name in execution hereof, amended, and by these presents does amend, a certain millsite claim named: REDO - 30 .

The owners current mailing address, for purposes of this claim, is as follows: AMERICAN BORATE COMPANY, P.O. Box 610 Rt. 15, Amargosa Valley, NV 89020

The locator is a domestic corporation authorized to claim, locate and own real property and possessory interests in the State of Nevada.

Said claim is situated in Section 2, Township 18 S., Range 49 E., Mount Diablo Meridian, in the unknown Mining District in the County of Nye, State of Nevada. It was originally located on the 27th day of May, 1980, and the certificate of location was recorded on the 26th day of June, 1980, in Book 276 of Official Records at Page 50, in the Office of the County Recorder of said County. NHC.# 160183. American Borate Company is the owner of the claim.

The locator does now hereby amend the claim in said district, County and State, and which said claim covers 5.00 acres of non-mineral land, so as to better describe its size and position. The position of the millsite is :

LOT # 9, Section 2, T.18 S., R.49 E., M.D.M.

The locator is the owner of certain valid lode mining claims and the proprietor of the Billie Borate Mine, and has a valid right to the occupation, possession, and enjoyment of this millsite claim.

This amended certificate of location is made without waiver of any previously acquired rights.

OFFICIAL RECORDS Agent *Fredrick Johnson*
NYE CO NEV 11-1-86
RECORD REQUESTED BY Locator: AMERICAN BORATE CO.
GRESHAM, VARNER & ETALS BOX 610 RT. 15
AMARGOSA VALLEY, NV 89020

88 DEC 22 P2:49
726195

MACHA LYDON
RECORDER

FEES 5.00 DEP *at*

State Fee 1.25

BOOK 667 PAGE 359

N-52340 American Borate Co.
N-52341
N-53378

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Attachment 4-B.
Certificate of Title and Location Notices
for Patent Application N-52341

Form 3860-2
(July 1981)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mineral Entry Serial Number

CERTIFICATE OF TITLE ON MINING CLAIMS

An individual a corporation, hereby

certifies that an examination of the instruments shown by the indices in the office of the Recorder of the County of NYE, State of NEVADA, discloses that the title to the mining claim hereinafter described that was acquired by the locators of said claim by the filing of said claim is at the date hereof vested in AMERICAN BORATE COMPANY, a general partnership

- Subject to:
- (1) Paramount title of the United States of America.
 - (2) Any taxes or assessments that may be a lien.
 - (3) The inadequacy of any evidence of labor that may appear of record.
 - (4) Adverse rights which may exist by reason of any encroachment of other mining claims onto the claim hereinafter described or of any overlapping of the boundaries of said claim onto other claims.

The mining claim above referred to is that certain claim situate in ~~XXX~~ UNKNOWN Mining district, County of NYE, State of NEVADA, more particularly described as follows (see instructions):

D AND B NO. 1 through D AND B NO. 4, D & B NO. 5, D & B NO. 6 AND CAROLYN NO. 1 MILL SITE, millsite claims. The descriptions of the millsite claims are incorporated by reference to and attachment of a certified copy of each claim.

This certificate is issued and accepted upon the understanding that the liability assumed hereby shall not exceed \$100.

Seal

GRESHAM, VARNER, SAVAGE, NOLAN & TILDEN

By: M. William Tilden (Individual or Firm Name) State Bar #051708
600 North Arrowhead Avenue
San Bernardino, CA 92401

(Address)

12/7/89

(Date)

By

M. William Tilden

(Signature)

(Instructions on reverse)

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-B (Continued).

When recorded File No. 25141 filed for record at request of
please return to: American Borate Co. June 26, 1980
at 40 minutes past 1 o'clock P.m and recorded in book
276 of Official Records page 54 Nye County, Nevada.
NANCY BOLLING
AMERICAN BORATE COMPANY
3311 S. JONES BLVD.
SUITE 212
LAS VEGAS
NEVADA 89102
Nancy Bolling
County Recorder

CERTIFICATE OF LOCATION

MILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is D and B No. 1
2. The name of the locator of said claim is American Borate Company, Owner of the Billie Mine
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of a vein or lode claim, or mine, or the owner of a quartz mill or reduction works, and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in
S $\frac{1}{2}$, SE $\frac{1}{4}$, SE $\frac{1}{4}$, NW $\frac{1}{4}$, Section 2, T.18S, R.49E, MDM
Nye County, Nevada
4. The aforesaid Millsite consists of 5 acres and was located May 27, 1980
5. The date of the posting of the Notice of Location on the claim was the May 27, 1980

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this

AMERICAN BORATE COMPANY
Locator

By *Nancy Bolling*
Nancy Bolling

Attachment 4-B (Continued).

File No. 2514
When recorded American Borate Co. June 26, 1980
please return to it 40 minutes past 1 o'clock and recorded in book 276 of Official Records page 55 Nye County, Nevada.
NANCY BOLLING
AMERICAN BORATE COMPANY
3311 S. JONES BLVD.
SUITE 212
LAS VEGAS
NEVADA 89102
Nancy Bolling
Recorder

CERTIFICATE OF LOCATION

MILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is D and B No. 2
2. The name of the locator of said claim is American Borate Company, Owner of the Billie Mine-
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of a vein or lode claim, or mine, or the owner of a quartz mill or reduction works, and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in N $\frac{1}{2}$, SE $\frac{1}{4}$, SE $\frac{1}{4}$, NW $\frac{1}{4}$, Section 2, T.18S, R.49E, MDM Nye County, Nevada
4. The aforesaid Millsite consists of 5 acres and was located May 27, 1980
5. The date of the posting of the Notice of Location on the claim was the May 27, 1980

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this

AMERICAN BORATE COMPANY
Locator

By: *Nancy Bolling*
Nancy Bolling

BOOK 276 PAGE 55

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-B (Continued).

File No. 25143 Filed at request of
American Borate Co. June 26, 1980.....
When recorded at 40 minutes past 1 o'clock P.M. and recorded in book
please return to: 276 of Official Records page 55 Nye County, Nevada.

NANCY BOLLING
AMERICAN BORATE COMPANY
3311 S. JONES BLVD.
SUITE 212
LAS VEGAS
NEVADA 89102

Nancy Bolling
County Recorder

CERTIFICATE OF LOCATION
MILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is D. and B No. 3
2. The name of the locator of said claim is American Borate Company, Owner of the Billie Mine.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of a vein or lode claim, or mine, or the owner of a quartz mill or reduction works, and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in
S $\frac{1}{2}$, NE $\frac{1}{4}$, SE $\frac{1}{4}$, NW $\frac{1}{4}$, Section 2, T.18S., R.49E, MDM
Nye County, Nevada
4. The aforesaid Millsite consists of 5 acres and was located May 27, 1980
5. The date of the posting of the Notice of Location on the claim was the May 27, 1980

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this

AMERICAN BORATE COMPANY
Locator

By: *Nancy Bolling*
Nancy Bolling

276

Attachment 4-B (Continued).

File No. 2514 Filed for record at request of
American Borate Co. June 26, 1980
When recorded it 40 minutes past 1 o'clock P.M. and recorded in book
please return to: 276 of Official Records page 57 Nye County, Nevada.

NANCY BOLLING
AMERICAN BORATE COMPANY
3311 S. JONES BLVD.
SUITE 212
LAS VEGAS
NEVADA 89102

Nancy Bolling
County Recorder

CERTIFICATE OF LOCATION
MILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is D and B No. 4
2. The name of the locator of said claim is American Borate Company, Owner of the Billie Mine
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of a vein or lode claim, or mine, or the owner of a quartz mill or reduction works, and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in
N½, NE½, SE½, NW½, Section 2, T.18N, R.49E, MDM
Nye County, Nevada
4. The aforesaid Millsite consists of 5 acres and was located May 27, 1980
5. The date of the posting of the Notice of Location on the claim was the May 27, 1980

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this

AMERICAN BORATE COMPANY
Locator

By: *Nancy Bolling*
Nancy Bolling

BOOK 276 PAGE 5

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-B (Continued).

When recorded, please return to:

R. TRENT MCAULIFFE
AMERICAN BORATE COMPANY
3311 S. JONES BLVD., SUITE 212
LAS VEGAS, NEVADA 89102

AMC - 206420W

CERTIFICATE OF LOCATION
MILL SITE CLAIM

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is D & B No. 5
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in
Beginning at the southeast corner of said Lot 3, thence N.89°59'24"W. 659.49 feet, along the southerly line of said Lot 3; thence N00°01'29"E. 330.00 feet; thence S.89°59'24"E. 659.49 feet to a point on the easterly line of said Lot 3; thence S.00°01'29"W. 330.00 feet along the easterly line of said Lot 3 to the southeast corner of said Lot 3, the point of beginning, Section 2, Township 18 South, Range 49 East, Mount Diablo Meridian, Nye County, Nevada
4. The aforesaid Millsite consists of 5 acres and was located June 23, 1981.
5. The date of the posting of the Notice of Location on the claim was the June 23, 1981.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this

AMERICAN BORATE COMPANY
Locator

File No. 45678 Filed for record at request of
 American Borate Co. June 26, 1981
 at 50 minutes past 1 o'clock P.M. and recorded in book
312 of Official Records page 404 Nye County, Nevada.
Naime Regan
 County Recorder

By *Robert G. ...*

300 312 40

American Borate Co. N-52340
N-52341
N-53378

Attachment 4-B (Continued).

261320

RECORDING REQUESTED BY:
AFTER RECORDING RETURN TO:
AMERICAN BORATE CO.
STAR RT. 15 BOX 610
ARMAGOSA VALLEY, NV. 89020

RECORDS
FILED BY
American Borate Co.
'90 MAY 30 P2:03
261320

REC'D
FEE \$62
State Fee \$195

CERTIFICATE OF AMENDED NOTICE OF LOCATION

(MILLSITE CLAIM)

PLEASE TAKE NOTICE AND WE CERTIFY THAT:

The undersigned locator, on the date given below immediately above its name in execution hereof, amended, and by these presents does amend, a certain millsite claim named: D & B No. 5 (MNC 206400).

The owner's current mailing address, for purposes of this claim, is as follows: AMERICAN BORATE COMPANY, P. O. Box 610, Route 15, Armagosa Valley, Nevada 89020.

The locator is a general partnership authorized to claim, locate and own real property and possessory interests in the State of Nevada.

Said claim is situated in Section 2, Township 18 South, Range 49 East, Mount Diablo Meridian, in the unknown mining district, in the County of Nye, State of Nevada. It was originally located on the 23rd day of June, 1981, and the certificate of location was recorded on the 26th day of June, 1981, in Book 312 of Official Records at Page 404, in the Office of the County Recorder of said County. The original certificate of location was filed with the Bureau of Land Management pursuant to the Federal Land Policy and Management Act and was assigned Serial Number MNC 206400.

The locator does now hereby amend the claim in said district, county and state, and which said claim covers 5 acres of non-mineral land, so as to better describe its size and position. The position of the millsite is:

S 1/2 SE 1/4 NE 1/4 NW 1/4, Section 2, Township 18 South, Range 49 East, M.D.M.

The locator is the owner of certain valid lode mining claims and the proprietor of the Billie Borate Mine, and has a valid right to the occupation, possession, and enjoyment of this millsite claim.

The date of the posting of the Amended Notice of Location on the claim was
5-21-90

AMERICAN BORATE COMPANY

[Signature]

As Authorized Agent for the
Locator/Owner
American Borate Company

Nye County Official Records - Norman & ydon

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-B (Continued).

When recorded, please return to:

R. TRENT MCAULIFFE
AMERICAN BORATE COMPANY
3311 S. JONES BLVD., SUITE 212
LAS VEGAS, NEVADA 89102

NMC- 266401

**CERTIFICATE OF LOCATION
MILL SITE CLAIM**

To Whom It May Concern: Please take notice and we certify that:

1. The name of this claim is D & B No. 6
2. The name of the locator of said claim is American Borate Company.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in
W $\frac{1}{2}$, SW $\frac{1}{2}$, SW $\frac{1}{2}$, NE $\frac{1}{2}$ Section 2, Township 18 South, Range 49 East, Mount Diablo Meridian, Nye County, Nevada
4. The aforesaid Millsite consists of 5 acres and was located June 23, 1981
5. The date of the posting of the Notice of Location on the claim was the June 23, 1981

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this

AMERICAN BORATE COMPANY
Locator

File No. 45679 Filed for record at request of
American Borate Co. June 26, 1981
at 50 minutes past 1 o'clock P.M. and recorded in book
312 of Official Records page 405 Nye County, Nevada.
Norma Lopez
County Recorder

By: *Robert C. Wamsi*

Attachment 4-B (Continued).

File No. 20711
filed for record at request of
Lonerger, Jordan, Gresham &
Nov 12 1970 Varner
at minutes past 11 o'clock
and recorded in Book
of Official Records page
Nye County, Nevada
Musta B. Bradley
County Recorder

When recorded,
please return to:

John B. Lonergan, Esq.
Lonerger, Jordan, Gresham & Varner
398 West Fourth Street
San Bernardino, California 92401

CERTIFICATE OF LOCATION
MILL SITE CLAIM

TO WHOM IT MAY CONCERN: Please take notice and we
certify that:

1. The name of this claim is CAROLYN NO. 1 MILL SITE.
2. The name of the locator of said claim is Tenneco Oil Company, which is a corporation.
3. Said locator does hereby declare and publish as a legal notice that it is the proprietor of a vein or lode claim, or mine, or the owner of a quartz mill or reduction works, and has a valid right to the occupation, possession and enjoyment of all and singular that tract or parcel of nonmineral land not exceeding five acres, situate, lying and being in Section 2, Township 18 S., Range 49 E., Mount Diablo Meridian, in the County of Nye, State of Nevada, described as follows: The Carolyn No. 1 Mill Site, described as and covering the N 1/2 NE 1/4 NE 1/4 SW 1/4 of Sec. 2, T. 18 S., R. 49 E., MDM (this is all non-mineral land). The mining claims so owned and with which this mill site will be used are Boraxo Nos. 1 & 2 (patented, M.S. 5594), Kathleen Nos. 2, 3, 5 & 8 (M.S. 6747), Dec No. 11 (M.S. 6735), Inyo (M.S. 6795), Inyo No. 5 (M.S. 6795), Billie Nos. 2, 3, 4, 10, 11, 14, 16, 21 & 22 (patented, M.S. 6665), and others.
4. The aforesaid Mill Site consists of 5 acres and was located the 5th day of November, 1970.
5. The date of the posting of the Notice of Location on the claim was the 5th day of November, 1970.

IN WITNESS WHEREOF, the said locator has hereunto set its corporate name by its authorized agent, this 9th day of November, 1970.

TENNECO OIL COMPANY, a corporation,
Locator

By John B. Lonergan,
John B. Lonergan, Its Agent

800K 135 PAGE 033

N-52340 American Borate Co.
N-52341
N-53378

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American Borate Co. N-52340
N-52341
N-53378

**Attachment 4-C.
Certificate of Title and Location Notices
for Patent Application N-53378**

Form 3860-2 (July 1981)	RECEIVED Bur. of Land Management NEVADA LAND OFFICE	NEVADA Mineral Entry Serial Number N 53378
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	AUG 11 1990 NEVADA STATE OFFICE RENO, NEVADA	
CERTIFICATE OF TITLE ON MINING CLAIMS		

An individual a corporation, hereby certifies that an examination of the instruments shown by the indices in the office of the Recorder of the County of NYE, State of NEVADA, discloses that the title to the mining claim hereinafter described that was acquired by the locators of said claim by the filing of said claim is at the date hereof vested in AMERICAN BORATE COMPANY, a general partnership

Subject to: (1) Paramount title of the United States of America.
(2) Any taxes or assessments that may be a lien.
(3) The inadequacy of any evidence of labor that may appear of record.
(4) Adverse rights which may exist by reason of any encroachment of other mining claims onto the claim hereinafter described or of any overlapping of the boundaries of said claim onto other claims.

The mining claim above referred to is that certain claim situate in the- UNKNOWN mining district, County of NYE, State of NEVADA, more particularly described as follows (see instructions):

Linda # 1 millsite claim. The description of the claim is incorporated by reference to and the attachment of a certified copy of certificate of notice.

This certificate is issued and accepted upon the understanding that the liability assumed hereby shall not exceed \$100.

GRESHAM, VARNER, SAVAGE, NOLAN & TILDEN

Seal

(Individual or Firm Name)
600 North Arrowhead Avenue
San Bernardino, CA 92401
By: M. William Tilden State Bar #051708
(Address)

By M. William Tilden
(Signature)

July 30, 1990
(Date)

(Instructions on reverse)

N-52340 American Borate Co.
N-52341
N-53378

Attachment 4-C (Continued).

Form 3860-2
(January 1976)
(formerly 4-1246)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SUPPLEMENTAL
CERTIFICATE OF TITLE ON MINING CLAIMS

FORM APPROVED
BUDGET BUREAU NO. 42-R1203.1
Mineral Entry Serial Number

An individual a corporation, hereby

certifies that an examination of the instruments shown by the indices in the office of the Recorder of the County of NYE, State of NEVADA, discloses that the title to the mining claim hereinafter described that was acquired by the locators of said claim by the filing of said claim is at the date hereof vested in AMERICAN BORATE COMPANY, a general partnership

- Subject to: (1) Paramount title of the United States of America.
(2) Any taxes or assessments that may be a lien.
(3) The inadequacy of any evidence of labor that may appear of record.
(4) Adverse rights which may exist by reason of any encroachment of other mining claims onto the claim hereinafter described or of any overlapping of the boundaries of said claim onto other claims.

The mining claim above referred to is that certain claim situate in the UNKNOWN mining district, County of NYE, State of NEVADA, more particularly

described as follows (see instructions):

Linda # 1 millsite claim (NMC 583608) located in Lot #9, Township 18 South, Range 49 East M.D.M. in the County of Nye, State of Nevada. The Certificate of Millsite Location Notice was recorded January 9, 1990 as Document No. 252514 in the Office of the Recorder of Nye County, Nevada in Official Records. The date of posting the Notice of Location on the claim was January 3, 1990. A certified copy of the Certificate of Millsite Location Notice was attached to the Certificate of Title dated July 30, 1990 and filed in Application for Patent N-53378.

This certificate is issued and accepted upon the understanding that the liability assumed hereby shall not exceed \$100.

GRESHAM, VARNER, SAVAGE, NOLAN & TILDEN

Seal

(Individual or Firm Name)

600 North Arrowhead Avenue
San Bernardino, CA 92401
By: M. William Tilden-State Bar #051708
(Address)

September 24, 1990
(Date)

By M. William Tilden
(Signature)

(Instructions on reverse)

American Borate Co. N-52340
N-52341
N-53378

Attachment 4-C (Continued).

252514

RECORDING REQUESTED BY:

AFTER RECORDING RETURN TO:
AMERICAN BORATE COMPANY
BOX 610 RT 15
AMARGOSA VALLEY, NV 89020

DEPT. OF LAND & MINING
NEVADA LAND DIVISION
NEVADA

AUG 11 1990 3 37 3

NEVADA STATE OFFICE
RENO, NEVADA

CERTIFICATE OF MILLSITE LOCATION NOTICE

NOTICE IS HEREBY GIVEN that AMERICAN BORATE COMPANY, a general partnership authorized to claim, locate and own real property and possessory interests in the State of Nevada, has this 3rd day of January, 1990, located non-mineral land to be known as the LINDA #1 millsite situated in an unknown mining district, County of Nye, State of Nevada.

The current mailing address of the locator and owner is American Borate Company, P. O. Box 610, Route 15, Amargosa Valley, Nevada 89020.

The locator is the owner of certain valid lode mining claims and the proprietor of the Billie Borate Mine and has a valid right to the occupation, possession, and enjoyment of this millsite claim.

The millsite claim is located and will be held, used and occupied by the locator and owner of said claims for use with the claims for mining or milling purposes.

The acreage claimed is 4.39 acres and is described as follows:

Lot #9, Section 3, Township 18 South, Range 49 East, M.D.M.

The location work consisted of making the maps as provided in NRS 517.040. The location is made by reference to a surveyed government lot.

The date of the posting of the Notice of Location on the claim was the 3rd day of January, 1990.

AMERICAN BORATE COMPANY
Frederic C. Johnson

By: *Frederic C. Johnson*

As Authorized Agent for the Owner
and Locator American Borate Company

OFFICIAL RECORDS
RECORDED BY
American Borate Co.

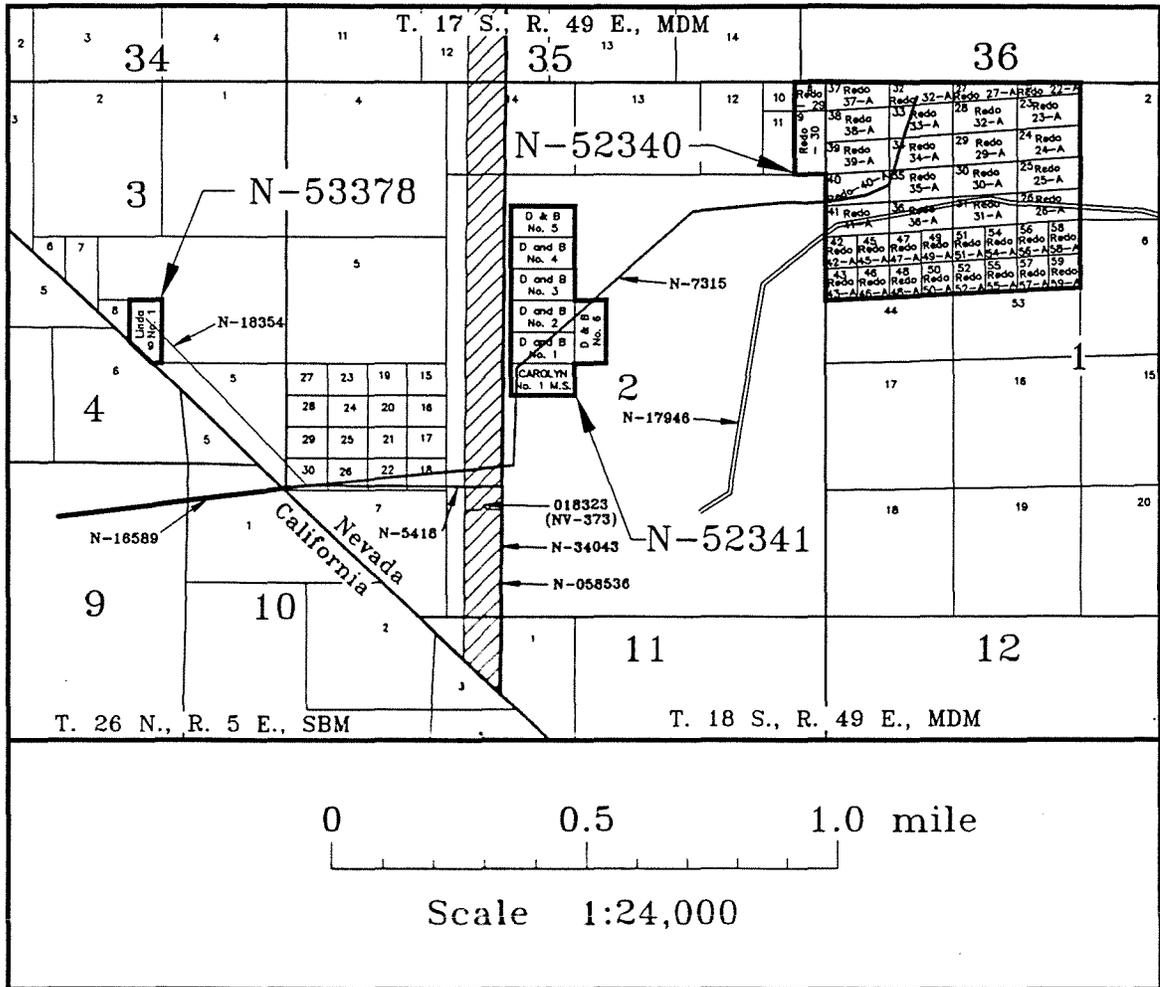
'90 JAN-9 P1:45

252514

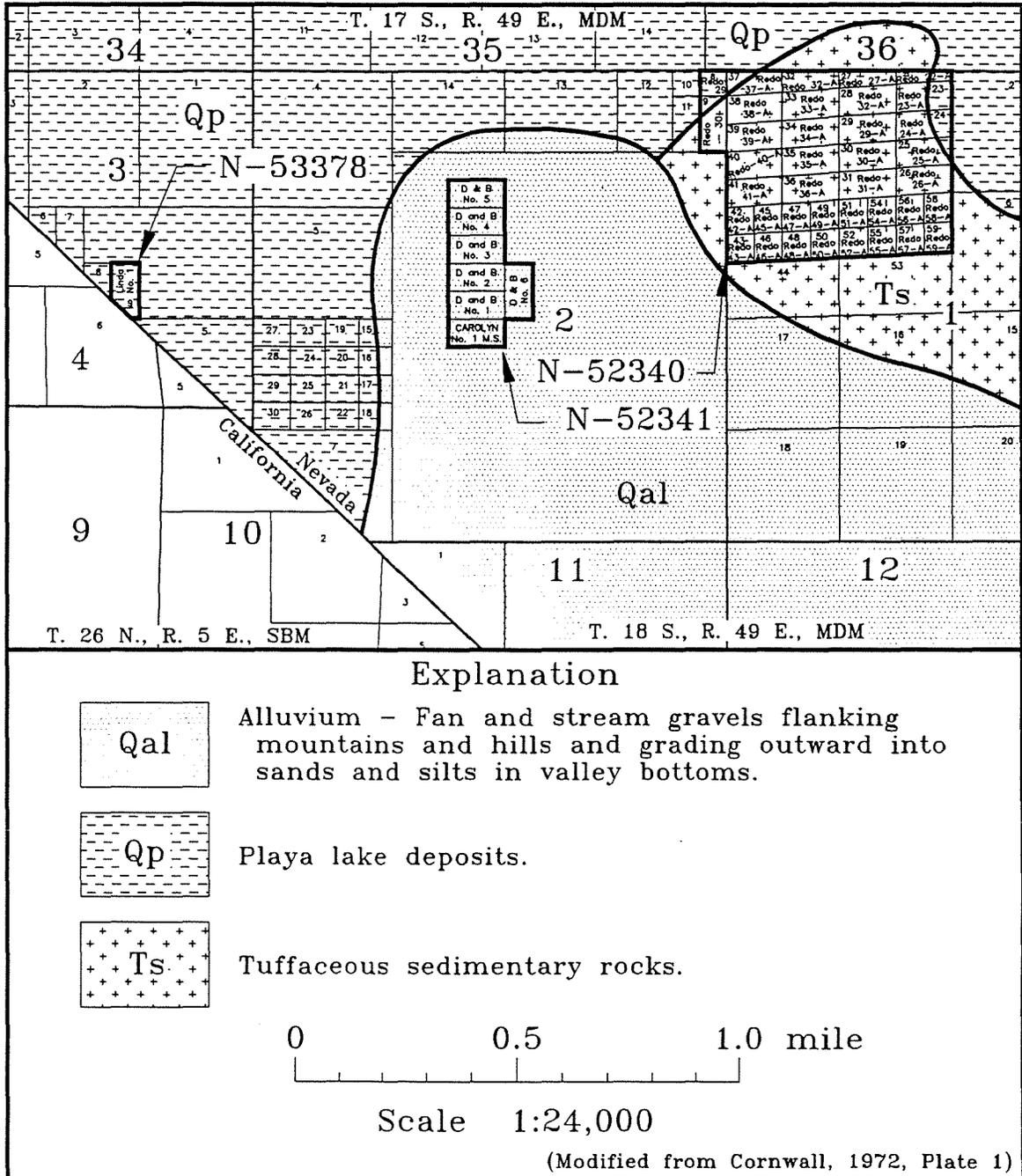
RECORDING
RECORDED

FEE 5.00 DEP tap

Attachment 5.
Rights-of-Way in the Vicinity of the
Combined Patent Applications



Attachment 6.
Geologic Map of the Area in the Vicinity of
Patent Applications N-52340, N-52341, and N-53378



**Attachment A.
Photographs**

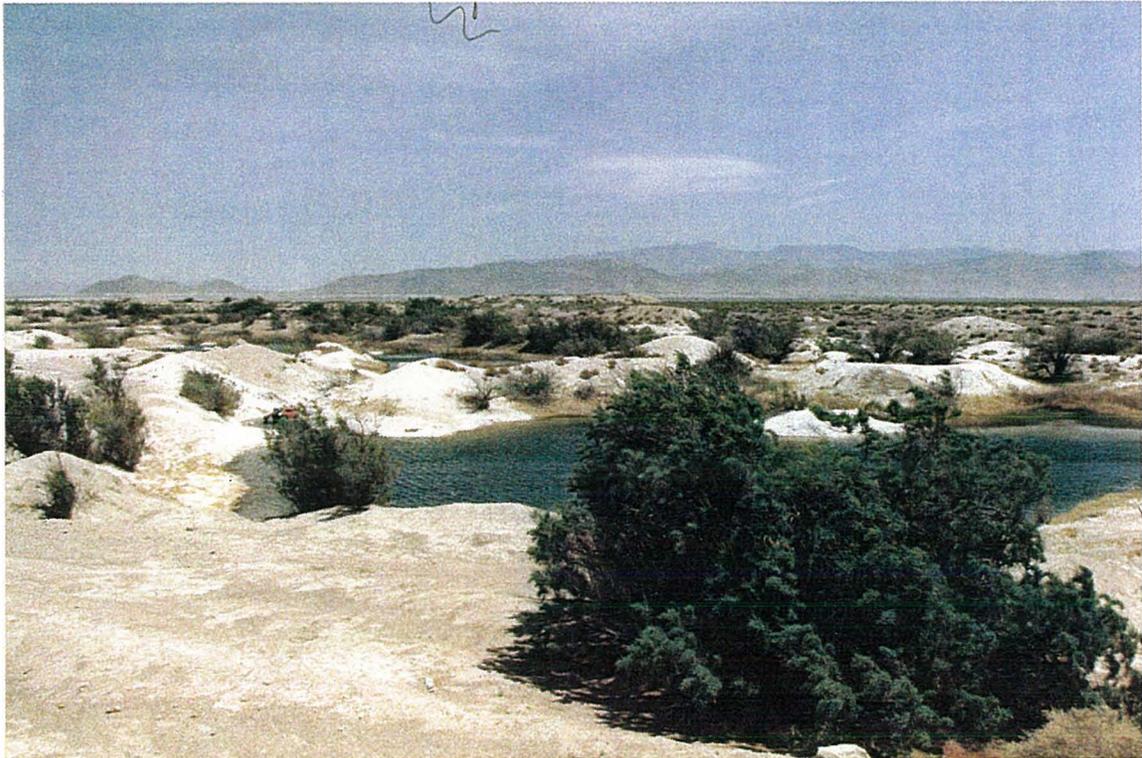
Photograph 1.



Looking northwest at an old clay exploration pit located to the north of the mill access road, approximately one-half mile east of Nevada State Highway 373. The trench was cut as part of IMV's exploration program in the early 1970's. (Photo Reference: 92RLT008, 4/30/92)

Attachment 7 (Continued).

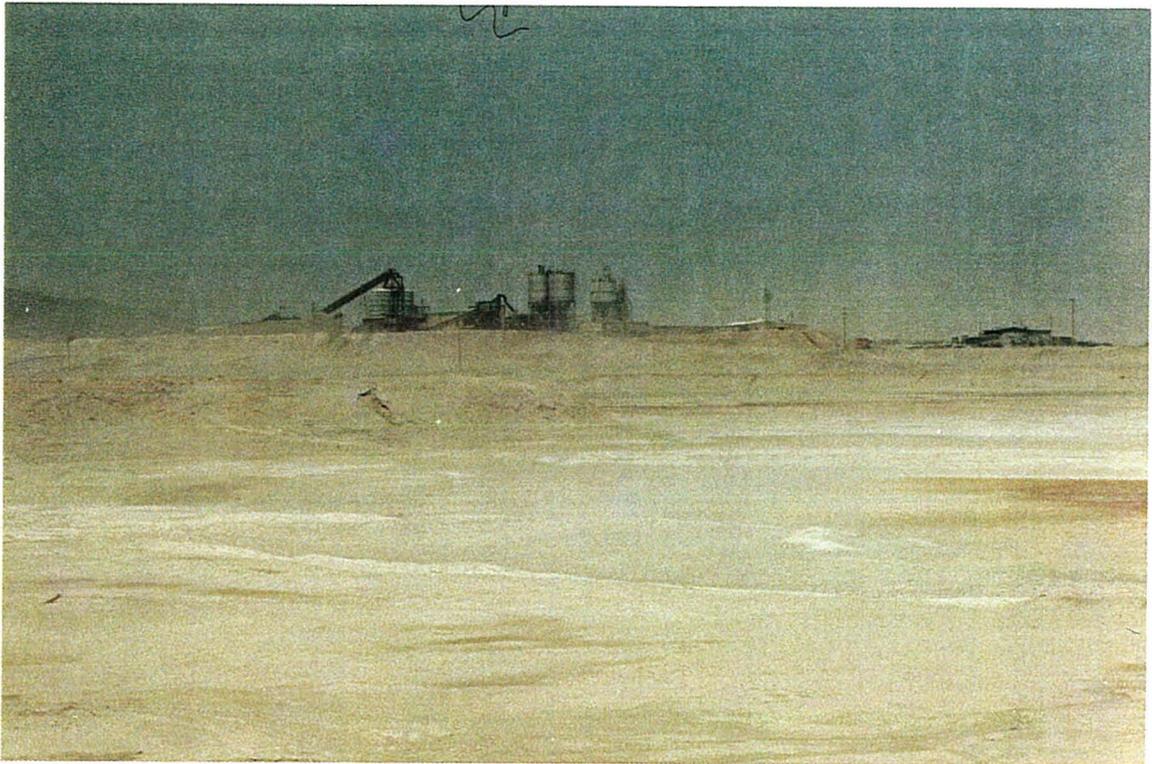
Photograph 2.



Looking east at one of the clay pits on the patented clay placer claim (#1005070) in Section 1, T. 18 S., R. 49 E., MDM. This pit is located southeast of the Redo series of mill sites. (Photo Reference: 92RLT006, 4/30/92)

Attachment 7 (Continued).

Photograph 3.



Looking north at the mill across the settling pond. A dike that divides the pond into two sections is visible in the center of the photo. (Photo Reference: 92RLT004, 4/30/92)

Attachment 7 (Continued).

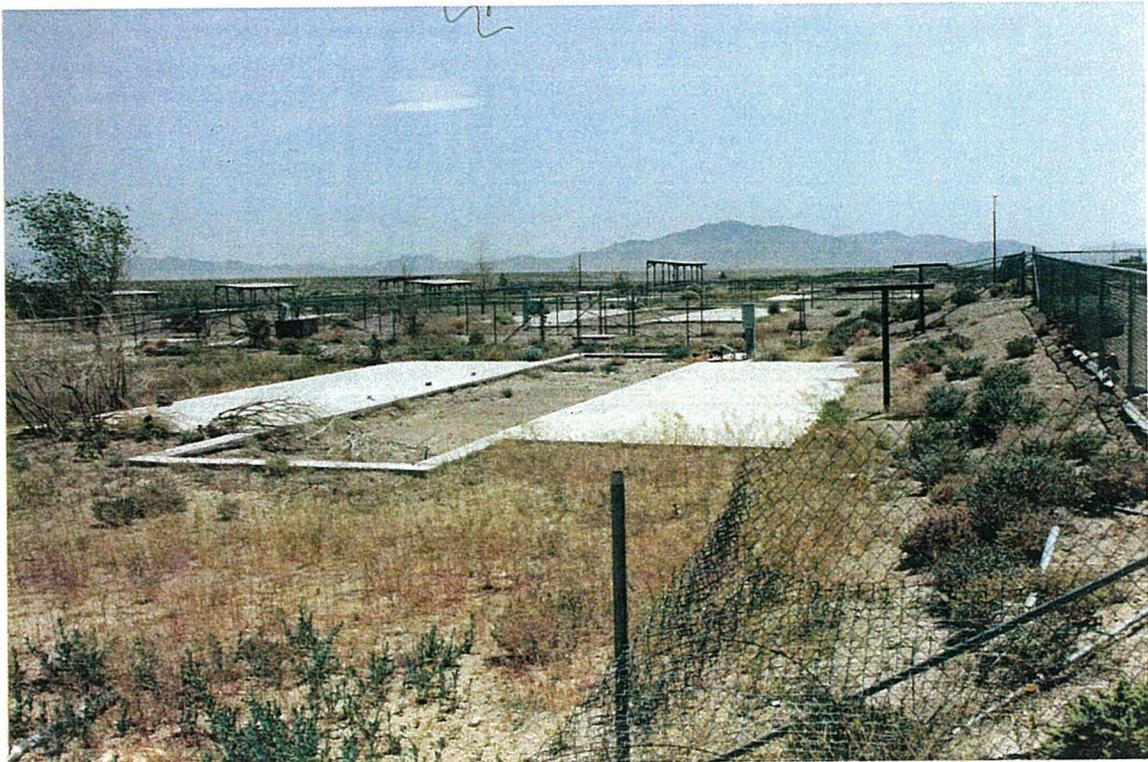
Photograph 4.



Looking south along the west side of the tailings dam. This photo was taken from the approximate boundary between the Redo 30-A and the Redo - 30. (Photo Reference: 92RLT016, 4/30/92)

Attachment 7 (Continued).

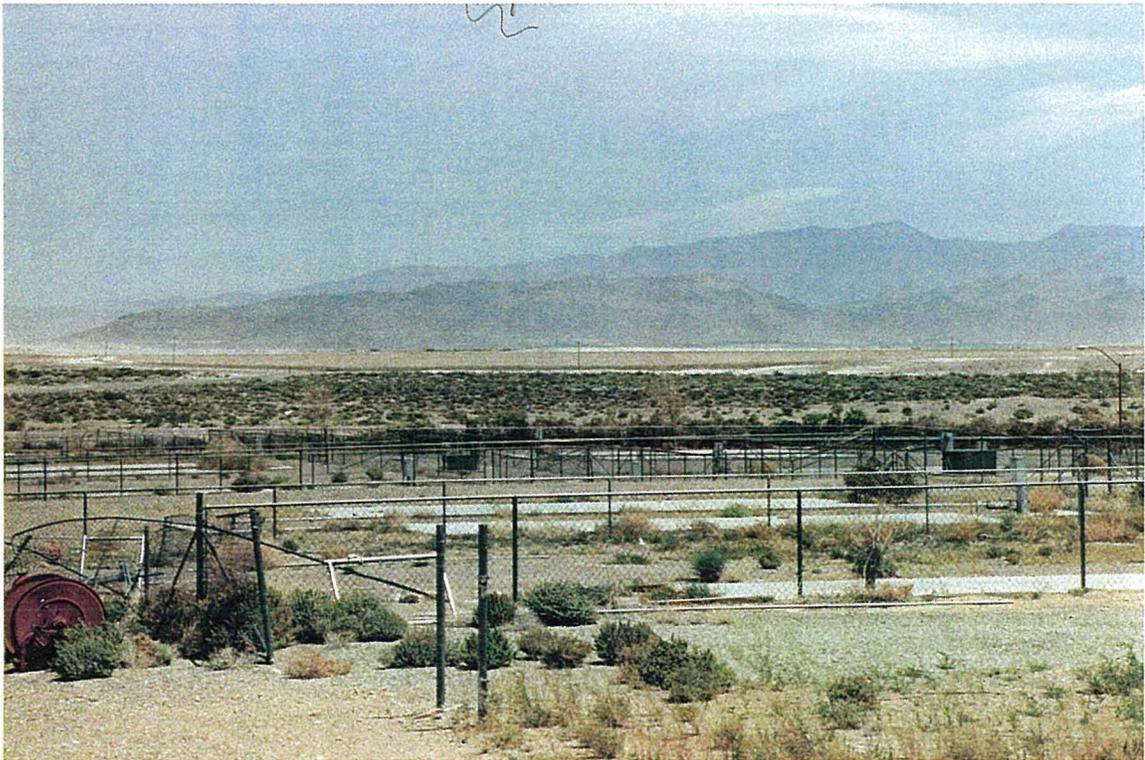
Photograph 5.



Looking southeast at the trailer park from near the northwest corner of the park. Note the roofed areas which are covered patio areas. (Photo Reference: 92RLT010, 4/30/92)

Attachment 7 (Continued).

Photograph 6.



Looking east at the trailer park from near the western edge of the D & B series of mill sites. Note the tailings dam in the background. Also note the hose reel in the lower left corner of the photograph. A fire hydrant is just visible behind the hose reel. (Photo Reference: 92RLT009, 4/30/92)

Attachment 7 (Continued).

Photograph 7.



Looking southwest at a trailer on the Carolyn No. 1 Mill Site. (Photo Reference: 92RLT014, 4/30/92)

Attachment 7 (Continued).

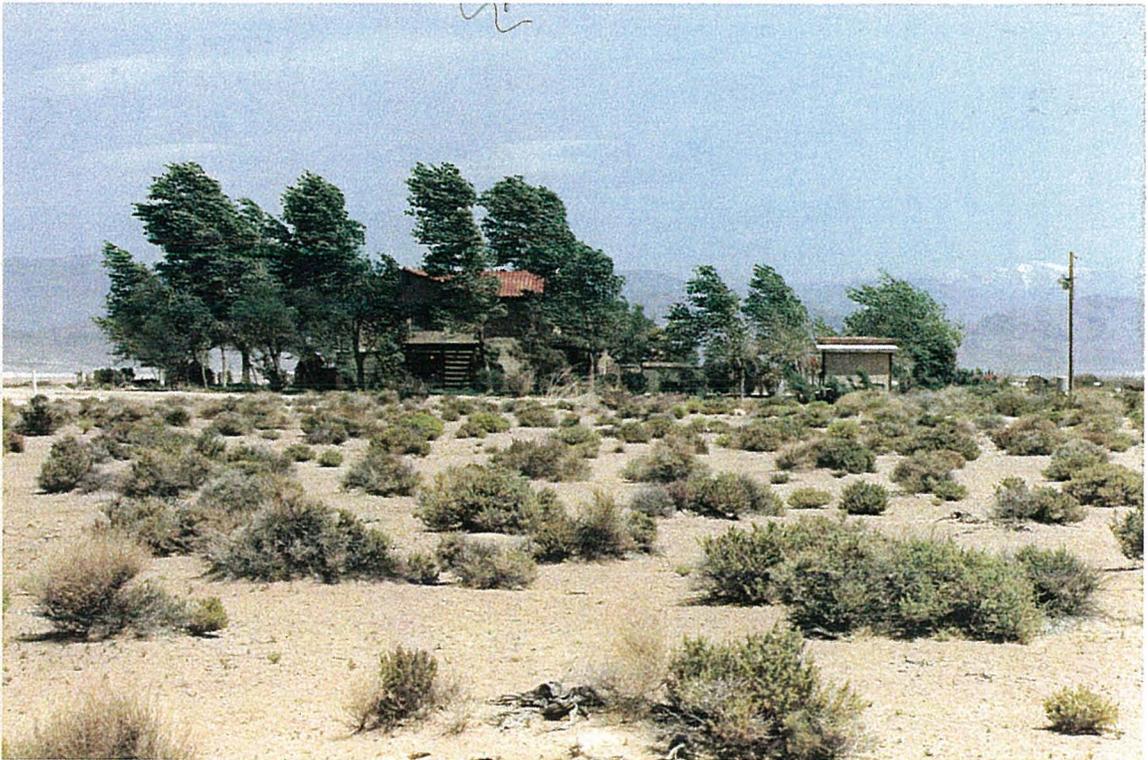
Photograph 8.



Looking east at the well, water tank, and pumping facilities on the Carolyn No. 1 Mill Site. (Photo Reference: 92RLT012, 4/30/92)

Attachment A (Continued).

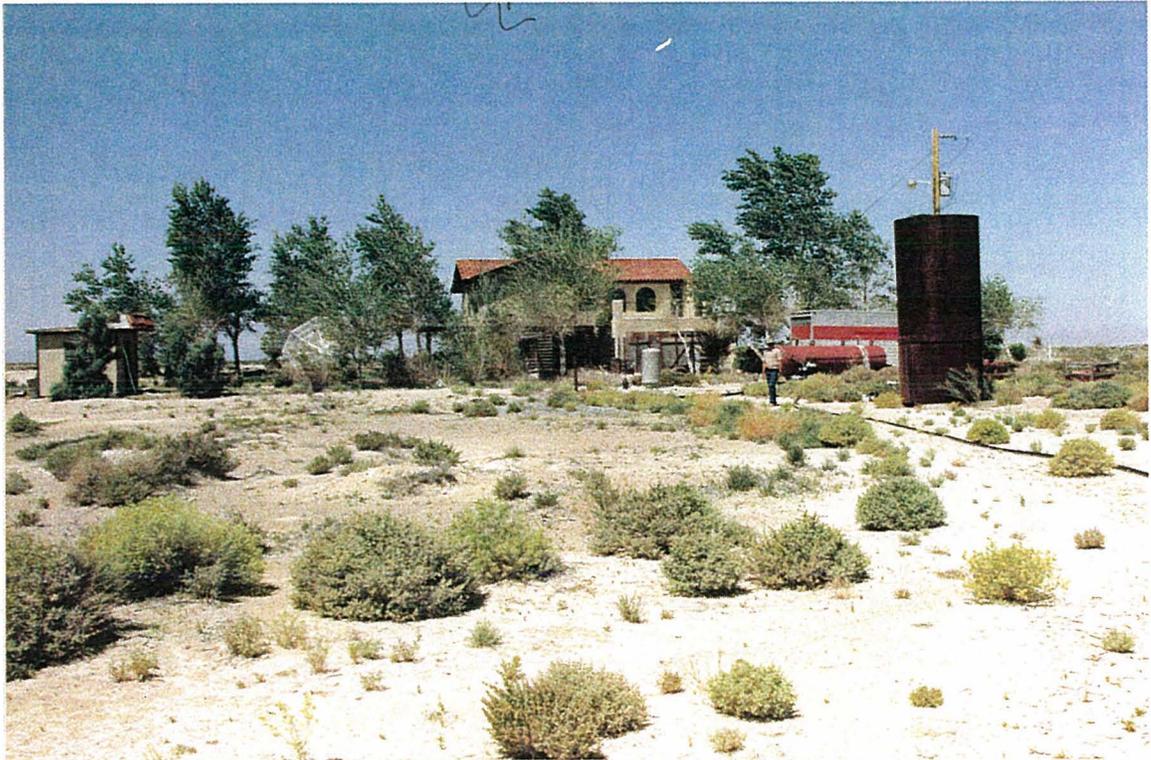
Photograph 9.



Looking east at the manager's residence on the Linda # 1 mill site. Note the white claim post at the left edge of the photograph. (Photo Reference: 92RLT020, 4/30/92)

Attachment A (Continued).

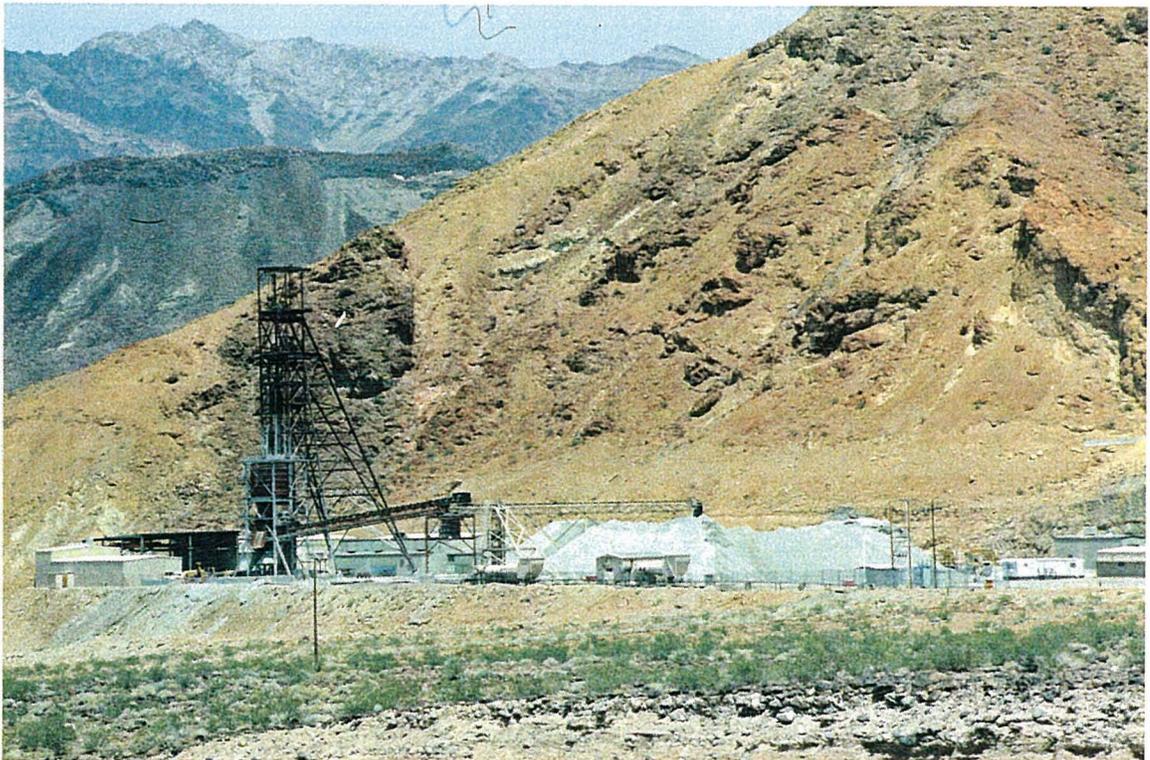
Photograph 10.



Looking north at the back side of the manager's residence on the Linda # 1 mill site. Note the water tank to the right of the photo. The photograph is taken from the approximate midpoint of the west boundary of the mill site. (Photo Reference: 92RLT021, 4/30/92)

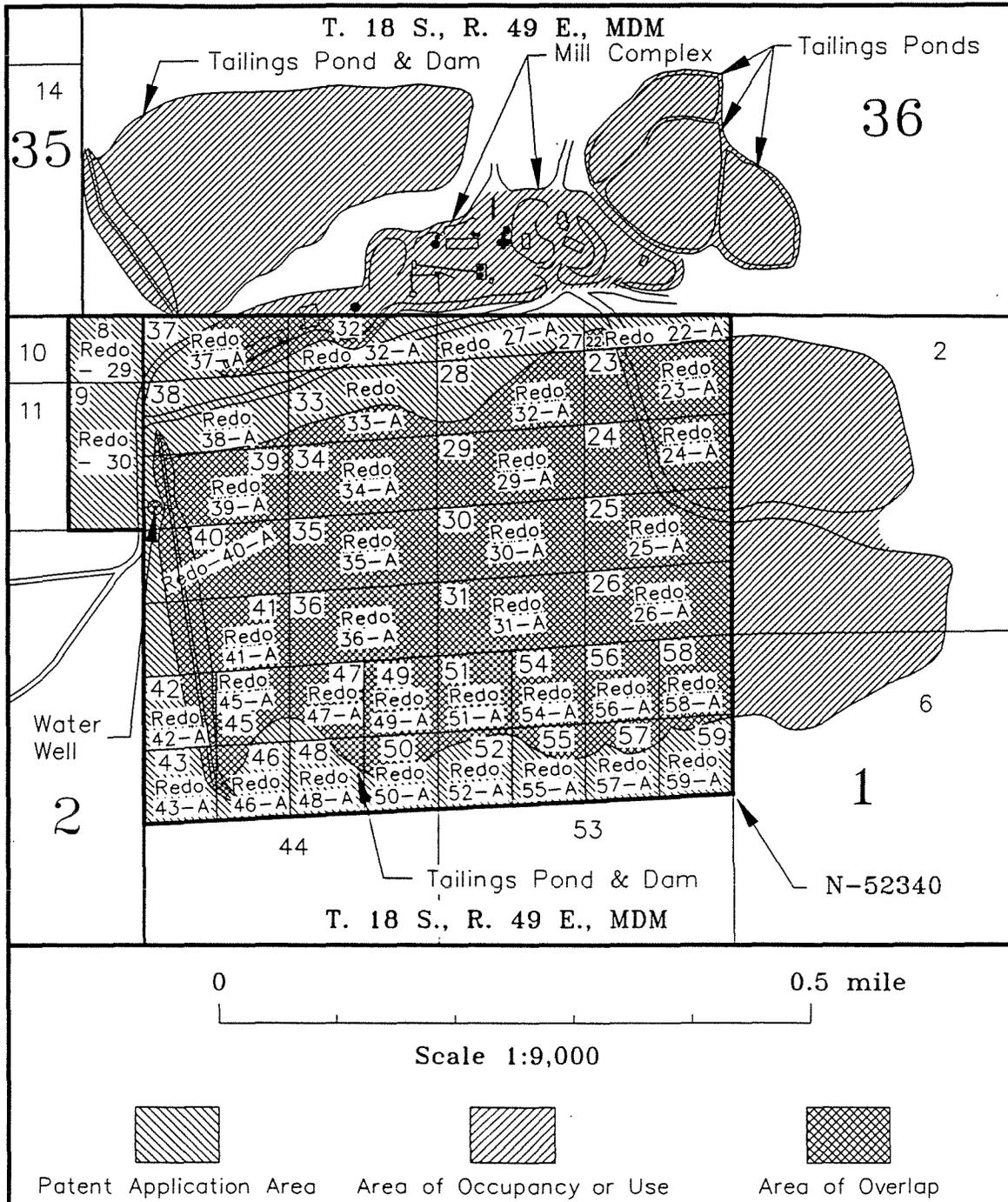
Attachment 7 (Continued).

Photograph 11.

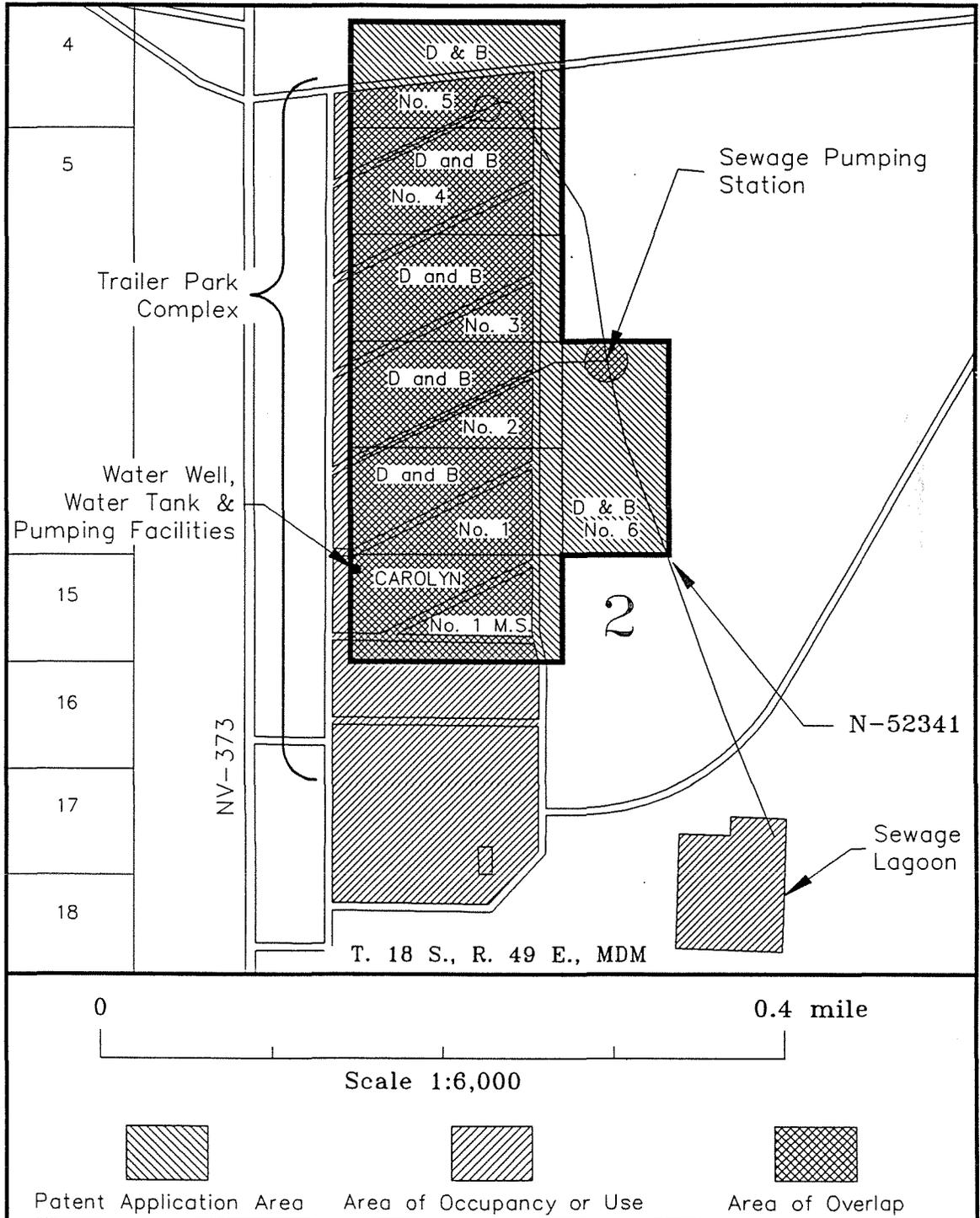


Looking east at the headframe and surface facilities of the Billie Mine, just east of Death Valley National Monument. The photo was taken from within the National Monument. (Photo Reference: 92RLT023, 5/11/92)

Attachment 8 (Continued).

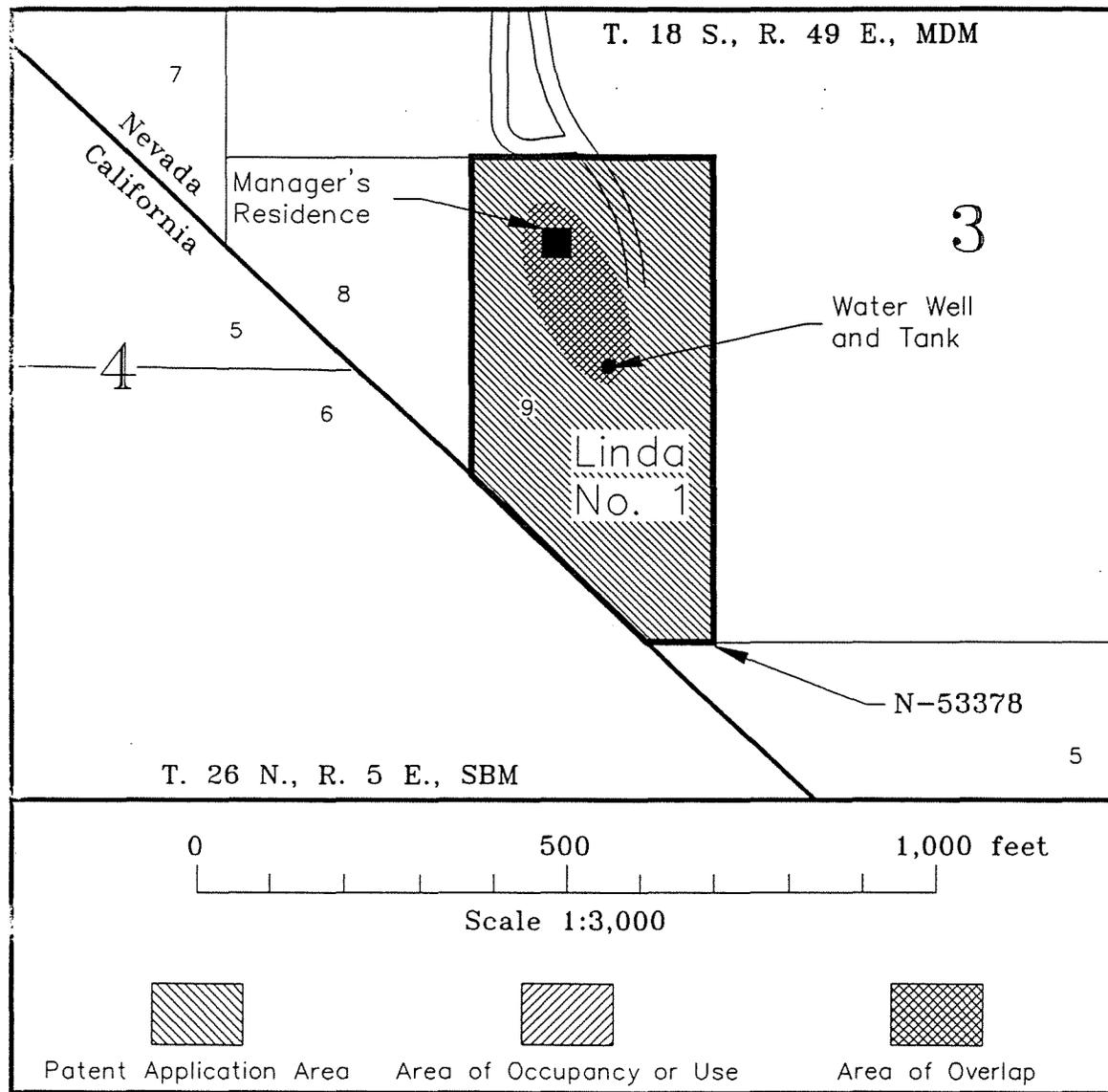


Attachment 8 (Continued).



N-52340 American Borate Co.
N-52341
N-53378

Attachment 8 (Continued).



**Attachment 9.
Telephone Confirmations**

Telephone Confirmation

To: Joseph Wwjick
Plant Manager
IMV
Amargosa Valley, Nv./Ca.
702-385-1409

From: Ron Teseneer

Date: May 7, 1992

Time: 10:15 AM to 10:18 AM

Subject: American Borate Company patent applications, information on
IMV's operations

Major Points of Conversation:

1. IMV commenced production in 1974-75.
2. His personal feelings were that if the area of ABC's applications were valuable for clays that IMV would have staked them then.
3. Best contact for information would be original owners of IMV, one of whom is:

Jay Mayhew
Consulting Geological Engineer
Lakewood, Colorado
303-986-8930

N-52340 American Borate Co.
N-52341
N-53378

Attachment 9 (Continued).

Telephone Confirmation

To: Jay Mayhew
Consulting Geological Engineer
Lakewood, Colorado
303-986-8930

From: Ron Teseneer

Date: May 7, 1992

Time: 10:24 AM to 10:30 AM

Subject: American Borate Company patent applications, information on
IMV's operations

Major Points of Conversation:

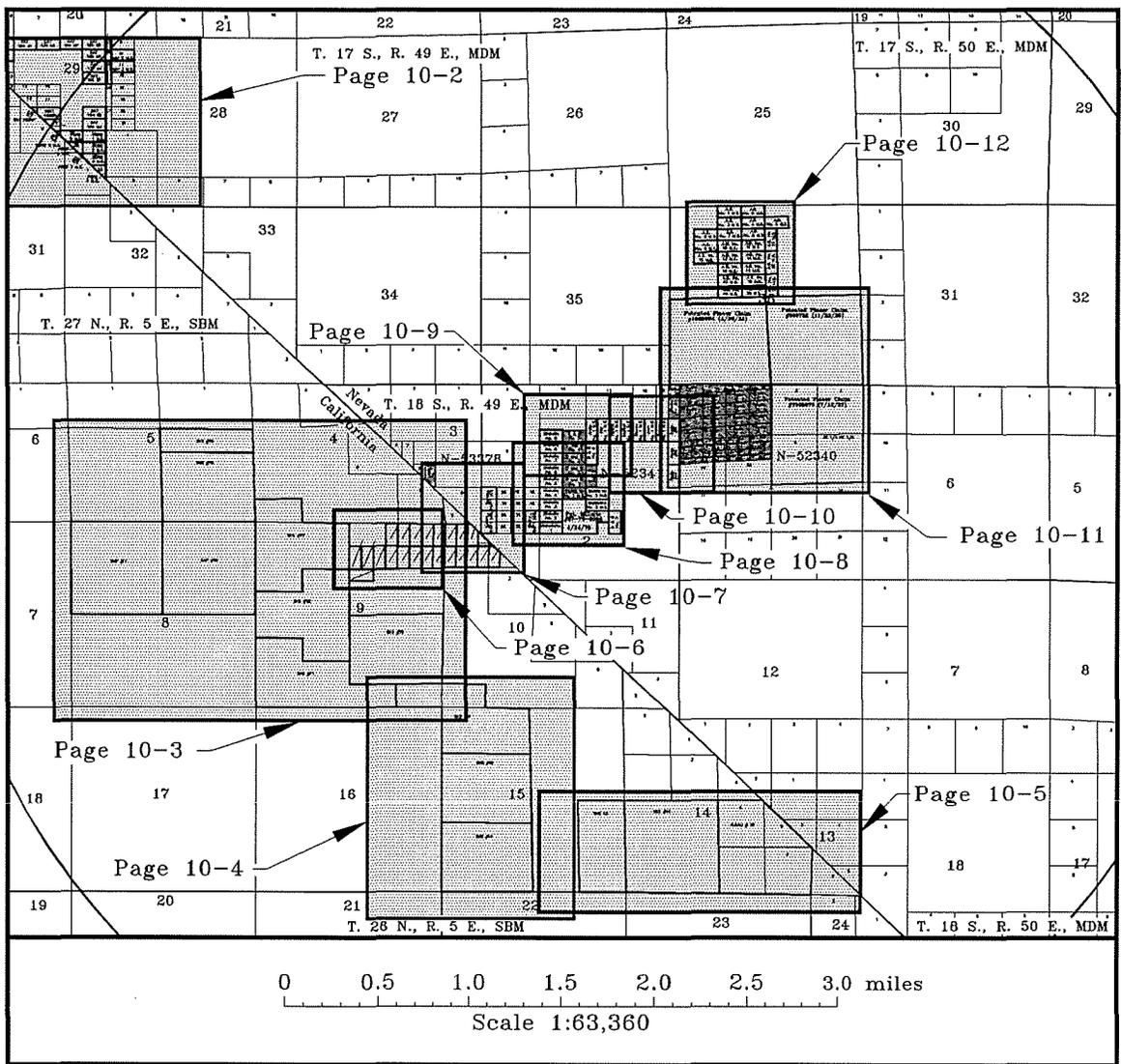
1. Their drilling showed some sepiolite under the ABC area, except for some isolated locations, 6" to 1' thick under 20-30 feet of overburden.
2. Records of drilling were transferred to IMV.
3. They drilled the entire valley. If the ABC area had been economic they would have staked it.
4. Andy Regis, who was with the USBM, did extensive work on the valley. He is now VP with Uni-Min.

Home - 31 Olympic Drive
Danbury, Conn. 06810

Work - 800-243-9004

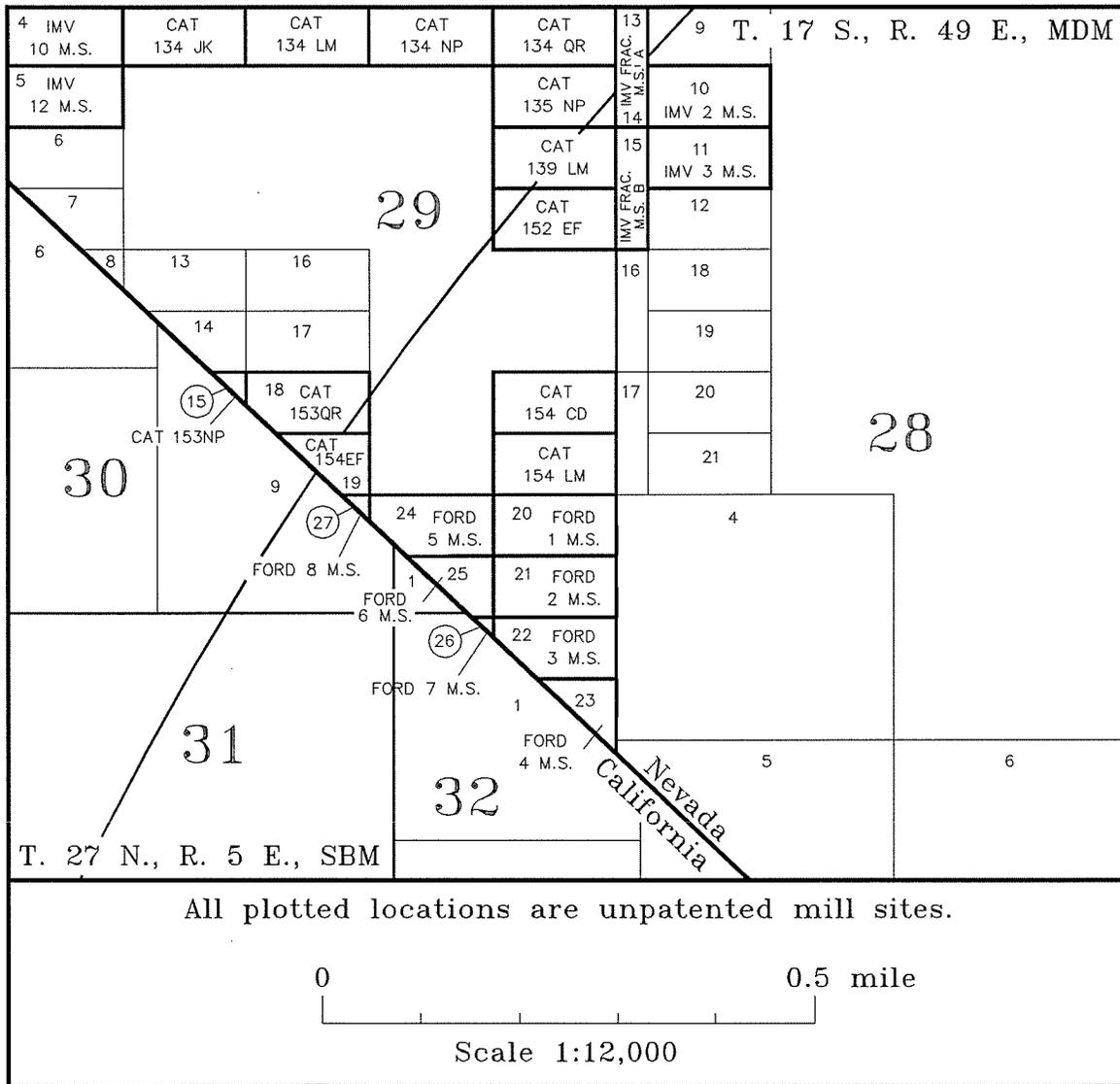
5. Another contact is Earl Hill, an attorney in Reno, has records on IMV patents, and they may contain some information on the ABC lands.
6. Will put comments on the ABC area sepiolite in a letter.

Attachment 10.
Map Showing Mining Claims and Other Mill Site
Locations Within Three Miles of the Patent Applications
(Shaded areas are shown in detail on the page indicated.)

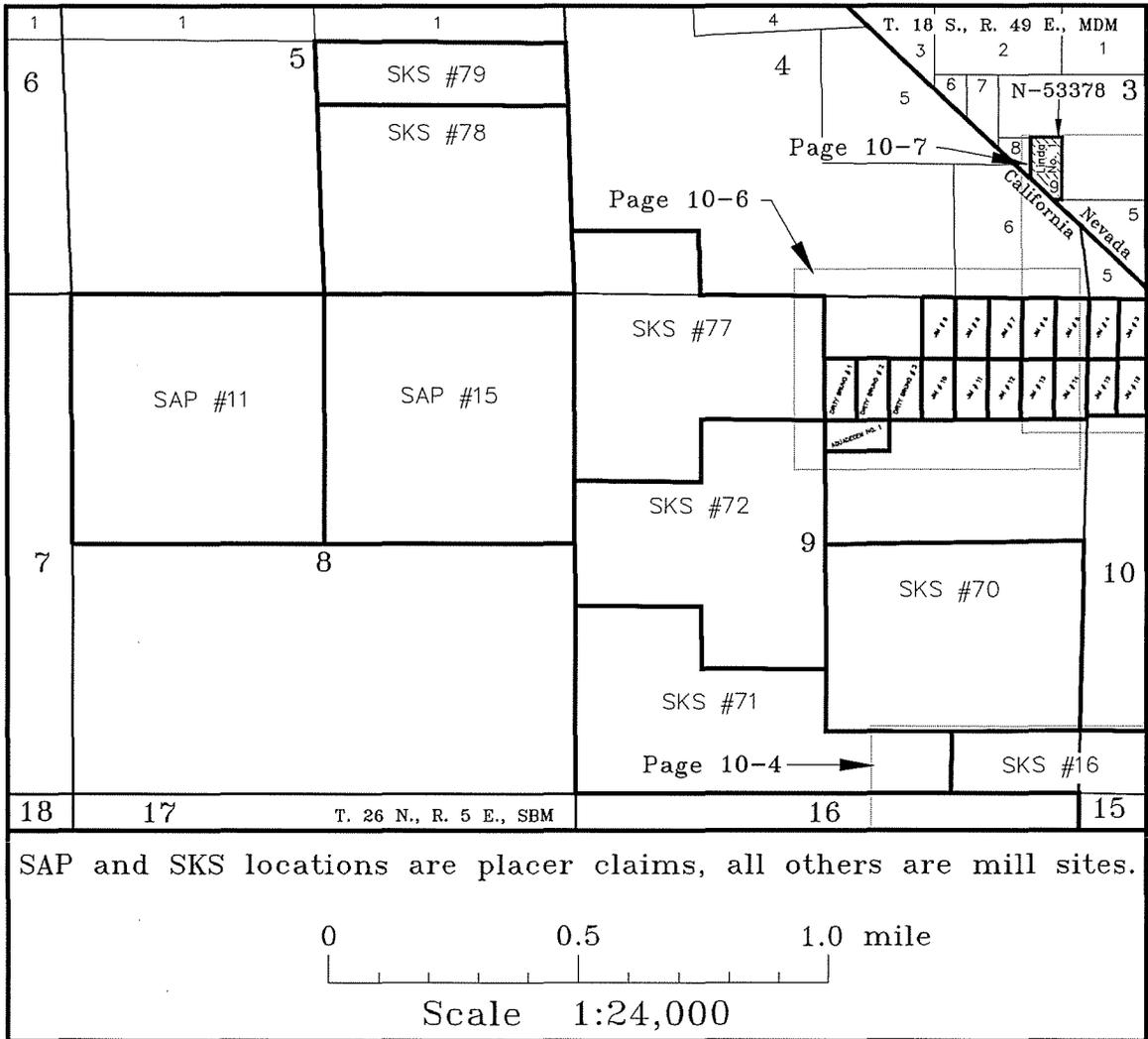


N-52340 American Borate Co.
 N-52341
 N-53378

Attachment 10 (Continued).

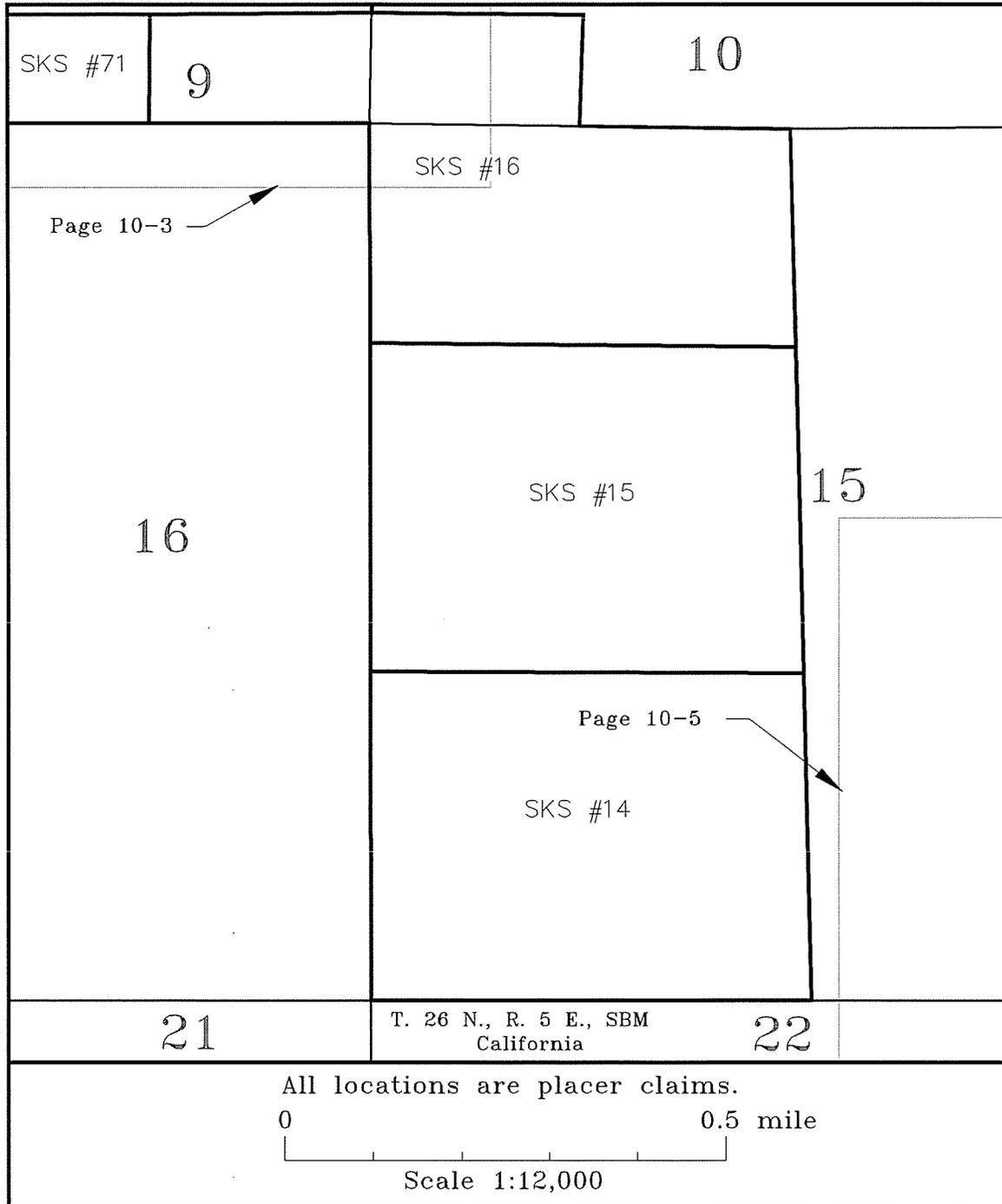


Attachment 10 (Continued).

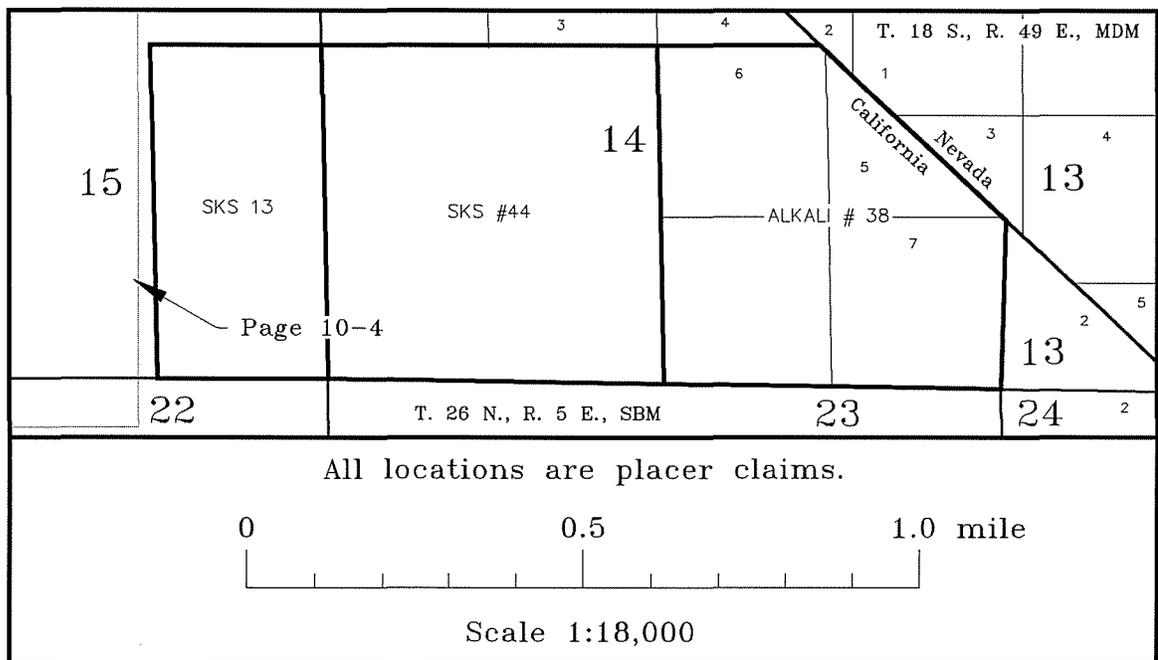


N-52340 American Borate Co.
N-52341
N-53378

Attachment 10 (Continued).

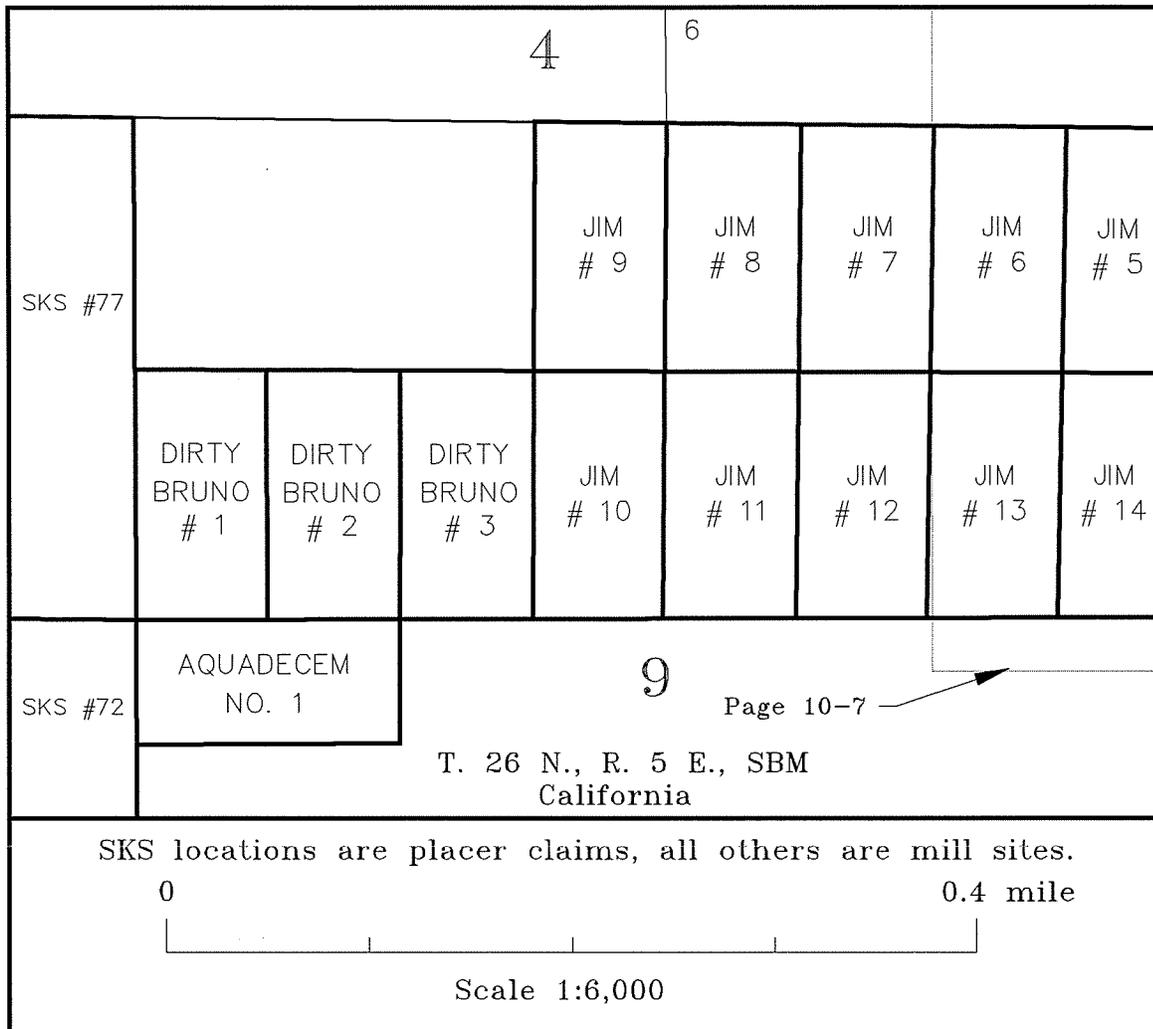


Attachment 10 (Continued).

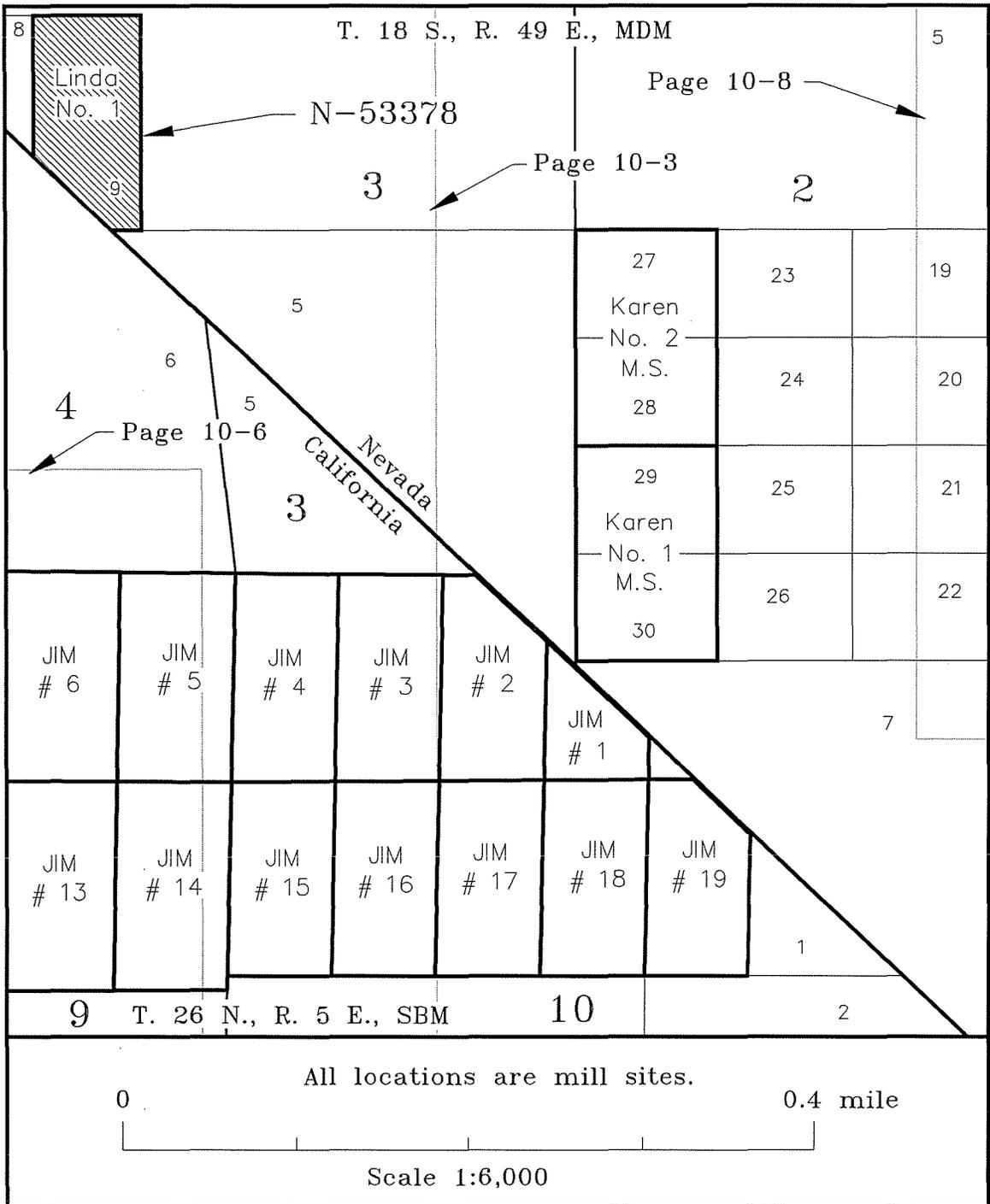


N-52340 American Borate Co.
 N-52341
 N-53378

Attachment 10 (Continued).

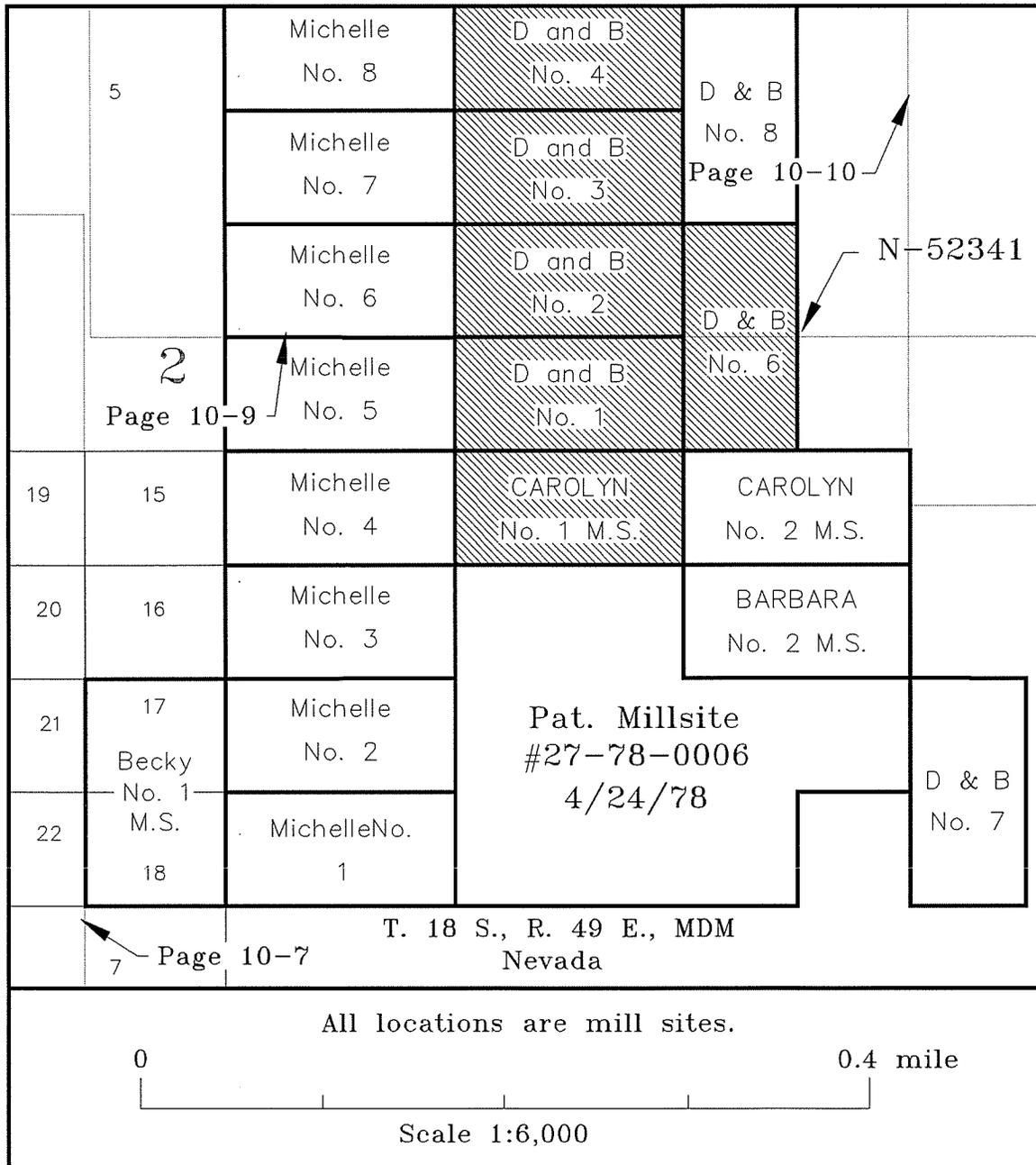


Attachment 10 (Continued).

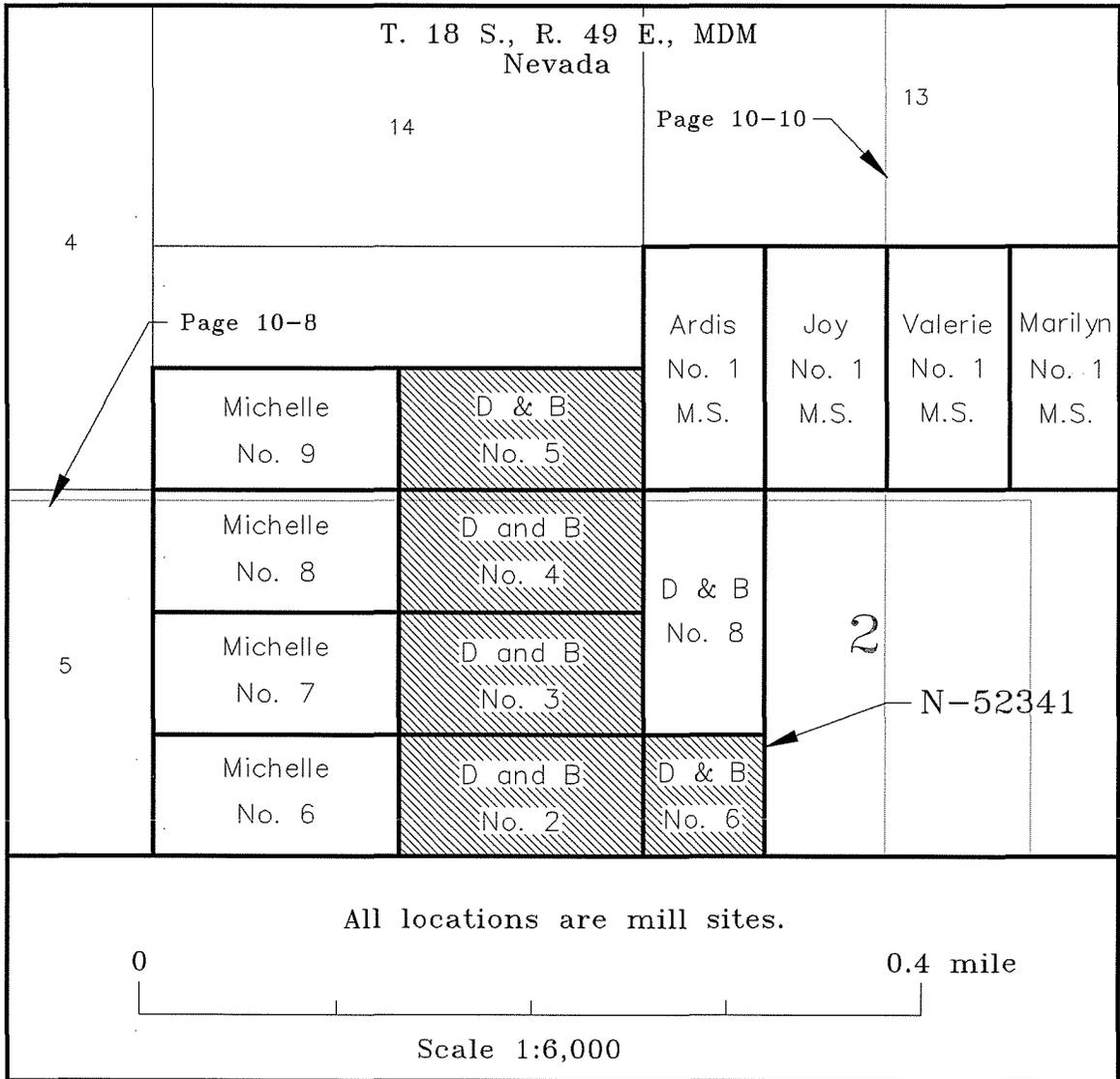


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 N-52341
 N-53378

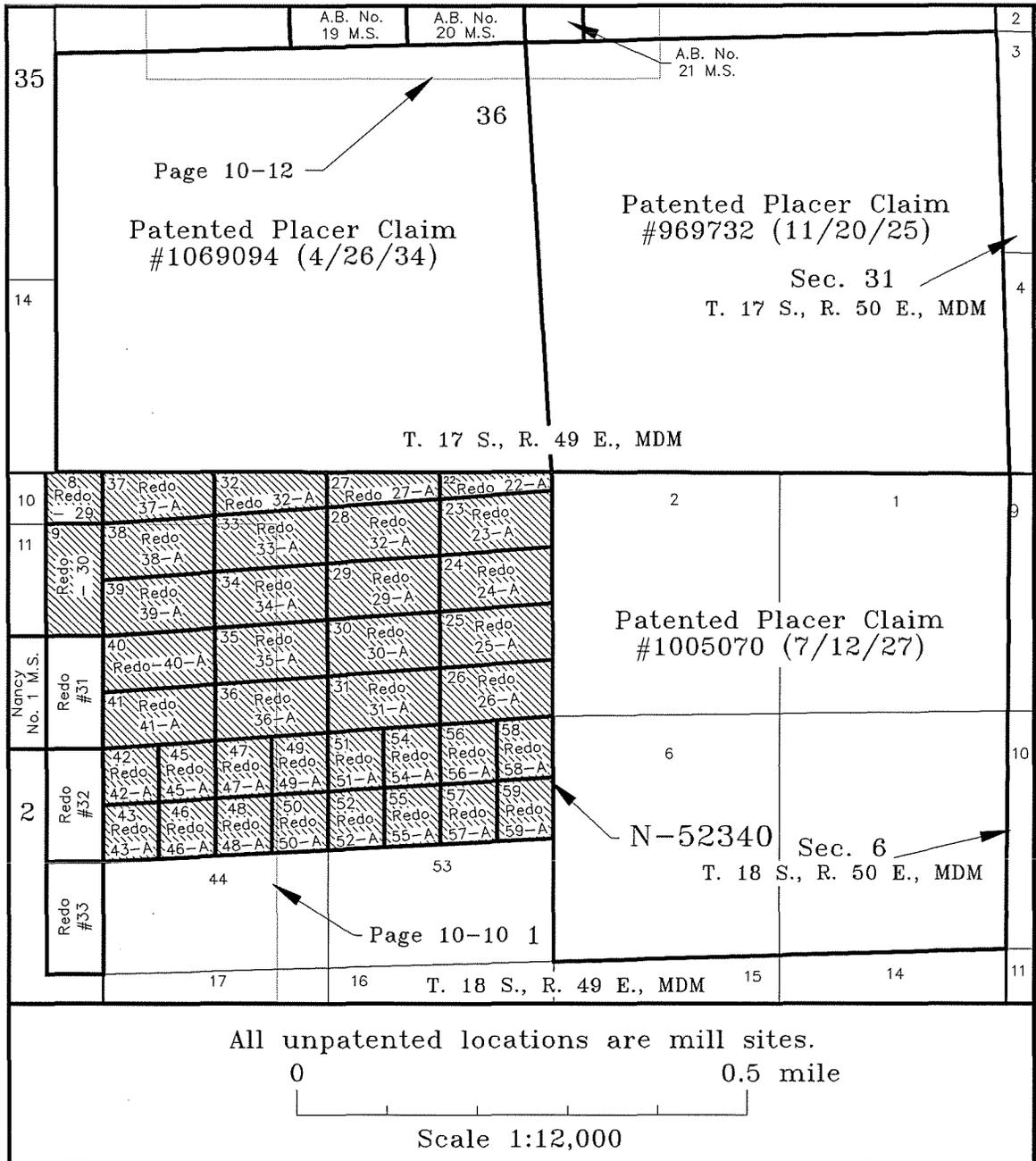
Attachment 10 (Continued).



Attachment 10 (Continued).

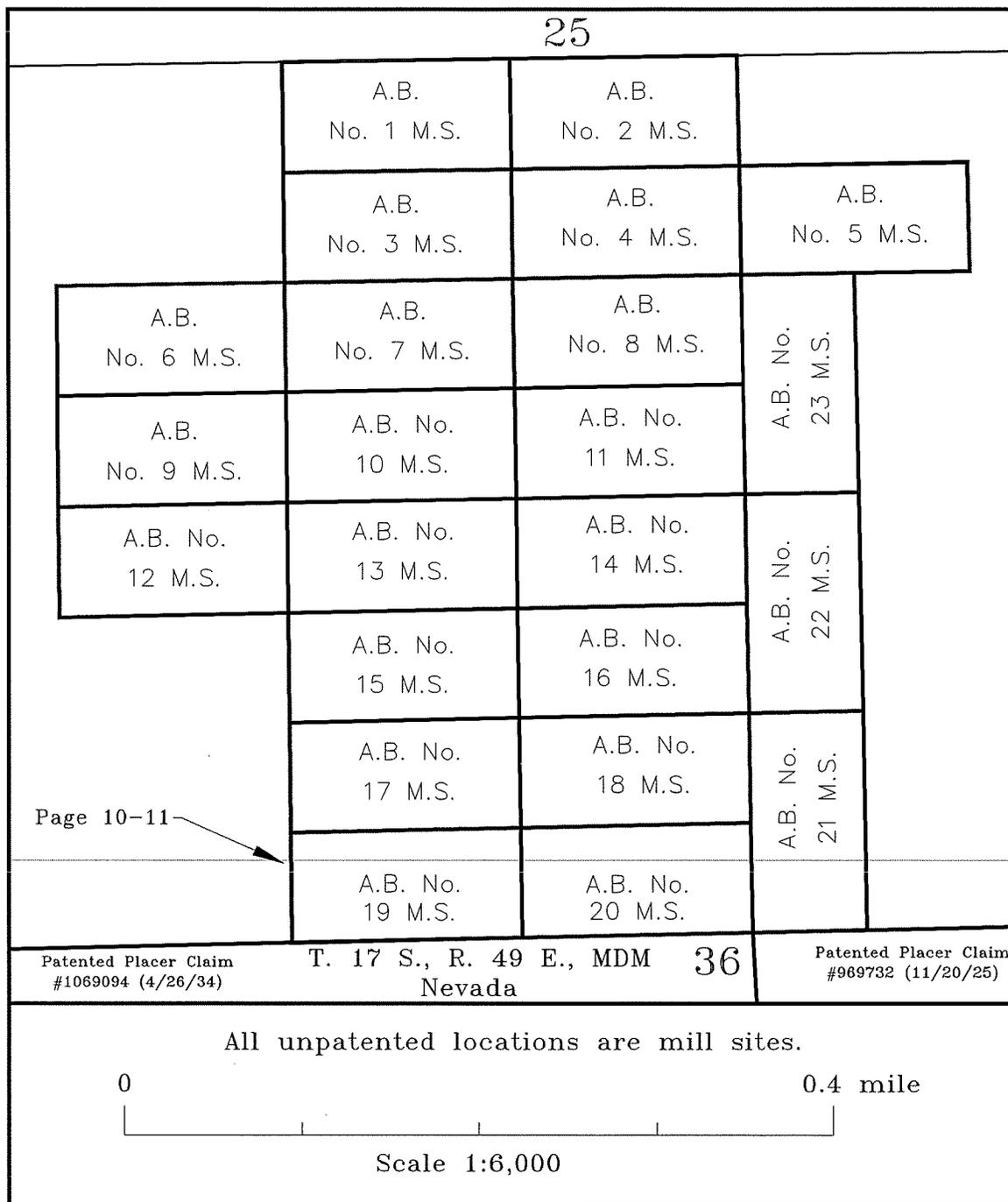


Attachment 10 (Continued).



N-52340 American Borate Co.
 N-52341
 N-53378

Attachment 10 (Continued).



Attachment 11.

**Legal Questions and Considerations Pertaining
to These Mill Site Patent Applications**

What are the requirements for a valid dependent mill site in connection with a lode claim?

"Where nonmineral land not contiguous to the vein or lode is used or occupied by the proprietor of such vein or lode for mining or milling purposes, such nonadjacent surface ground may be embraced and included in an application for a patent for such vein or lode, and the same may be patented therewith, subject to the same preliminary requirements as to survey and notice as are applicable to veins or lodes; but no location made on and after May 10, 1872 of such nonadjacent land shall exceed five acres..." [Title 30 of the U.S. Code at § 42(a) (1988 ed.)]

What constitutes nonmineral land?

The opposite of nonmineral land is mineral land. "Mineral land," "land known to be valuable for minerals," and "land that is mineral in character" are all terms that "have been used in the statutes, regulations and decisions relating to the public lands without a perceptible difference in meaning ... The recognized test for determining whether or not land is properly included in the category described by these terms is whether the known conditions were, at the time the determination was to be made, such as reasonably to engender the belief that the land contains mineral of such quality and in such quantity as to render its extraction profitable and justify expenditures to that end." Although this is similar to the "prudent man" test of discovery as set forth in *Castle v. Womble* (19 LD 455), there is one major difference in the two tests. The "prudent man" test of discovery requires a physical exposure of the valuable minerals within the limits of the claim, and inference of the presence of the valuable minerals cannot be substituted for the physical exposure. "On the other hand, the mineral character of land may be established by geological inference without the exposure on the land of the minerals believed to be found therein. ... However, whether the question is one of a discovery under the mining laws or the mineral character of land under a nonmineral land law, the end inquiry is essentially the same, namely,

N-52340 American Borate Co.
N-52341
N-53378

Attachment 11 (Continued).

whether or not exploitation of the minerals is believed to be economically feasible." ... The fact that the land is underlain with deposits of limestone sufficient in both quality and quantity to be useful does not establish the mineral character of the land if, for some reason such as cost of extraction, lack of access to a market or inferiority in grade in comparison with other equally accessible deposits, the limestone has no practical economic value. ... [T]he mere possibility that land may contain a limestone deposit does not, by itself, establish the mineral character of the land." [See *State of California v. E.O. Rodeffer*, 75 ID 476, (1968).]

What constitutes use or occupancy?

"[T]he use or occupation of it [the mill site] for mining or milling purposes [is] the only pre-requisite to a patent. The proprietor of a lode undoubtedly 'uses' non-contiguous land 'for mining or milling purposes' when he has a quartz-mill or reduction-works upon it, or when in any other manner he employs it in connection with mining or milling ores, or for shops or houses for his workmen, or for collecting water to run his quartz-mill, I think it clear that he would be *using* it for mining or milling purposes. I am also of the opinion that 'occupation' for mining or milling purposes, so far as it may be distinguished from 'use,' is something more than mere naked possession, and that it must be evidenced by outward and visible signs of the applicant's good faith. The manifest purpose of Congress was to grant an additional tract to a person who required or expected to require it for use in connection with his lode; that is, to one who needed more land for working his lode or reducing the ores than custom or law gave him with it. Therefore, when an applicant is not actually using the land, he must show such an occupation, by improvements or otherwise, as evidences an intended use of the tract in good faith for mining and milling purposes." [*Charles Lennig*, 5 LD 190 (1886)] (Emphasis in original.)

"A mill site is required to be used or occupied distinctly and explicitly for *mining* or *milling* purposes in connection with the lode claim with which it is associated. This express requirement plainly contemplates a function or utility intimately associated with the removal, handling, or treatment of the ore from the vein or lode. Some step in or directly connected with the process of *mining* or some feature of *milling* must be performed

Attachment 11 (Continued).

upon, or some recognized agency of operative *mining or milling* must occupy, the mill site at the time patent thereto is applied for to come within the purview of the statute." [*Alaska Copper Company*, 32 LD 128 (1903)] (Emphasis in original.)

Roads - The use of a "mill site for a road needed in going to and from actively operated mining claims can not be considered ... a use for mining and milling purposes. ... If such use of land embraced in a mill site as is shown in the present case were sufficient for obtaining patent, there would be no reason why a mining claimant should not be permitted to acquire title to an unlimited number of mill sites in a similar manner. But the Department does not so construe the mining laws. There are ample provisions for the protection of all necessary rights in sections 2339, 2340, and 2477 of the Revised Statutes." [*Hales and Symons*, 51 LD 123 (1925)]

Ditches or pipelines - "[A] millsite claim is not properly made for the sole purpose of conducting water from one place to another, even if the water is used in connection with mining or milling operations. ... [T]he mining laws clearly contemplated that use of the federal land would be necessary in order to conduct water from its source to a place of beneficiation, and granted a right-of-way for that purpose. This being so, there is no logical basis upon which it could be concluded that Congress also intended that a millsite could be predicated on the same use of the land for which it had expressly granted a right-of-way." [*United States v. Swanson*, 93 ID 288; 93 IBLA 1 (1986)]

Water wells - In *Ash Peak Mining Company*, 47 LD 580 (1920), it is clearly stated that when "water is obtained by the sinking of wells on the mill-site areas" and the water is used in the mining operation those mill sites may be patented.

Water tanks - "[W]here water is essential for the working of the mine or an associated millsite, works required in the development of the water therefor are properly embraced in a millsite." [*United States v. Swanson*, 93 ID 288; 93 IBLA 1 (1986)] (Emphasis in original.)

Pumping stations - In *Sierra Grande Mining Co. v. Crawford*, 11 LD 338

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(1890), the Department allowed patent to a mill site where the claimant had "placed thereon an engine and pump house, and placed a valuable engine and pumps therein" which were used to pump water from the mill site to the mill which was located on the lode claim itself. There were other structures located on the mill site, but the purpose of these were to support the engine and pumps, not the mine or mill.

Tailings disposal or storage - "Since *Charles Lennig*, ... [5 LD 190 (1886)], the storage of ore and the depositing of tailings have been recognized as valid uses of millsites. A caveat, however was emphasized in cases such as *United States v. Herron*, ... [A-27414 (March 18, 1957)], that, where millsites are claimed as a repository of tailings, it is necessary for the claimant to show that the tailings possess economic value and that the tailings have a direct relationship with the vein or lode with which the millsites are associated." [*United States v. Swanson*, 93 ID 288; 93 IBLA 1 (1986)]

Living quarters - "The erection and maintenance in good faith of dwelling houses for the occupancy of workmen employed for purposes in connection with a mill is such a use and occupancy of the land as will justify the allowance of a mill site entry thereof." [*Satisfaction Extension Mill Site*, 14 LD 173 (1892)]

What if all of the land within a mill site is not used or occupied?

"Not only does the statute grant only land actually used or occupied not to 'exceed five acres,' 30 U.S.C. § 42 (1982), but, in addition the Department's authority to invalidate portions of millsites was expressly upheld by Judge Callister in his decision. See *Swanson v. Andrus*, [Civil No. 78-4045] at 5. ... [W]here the United States is examining individual millsites for the purpose of ascertaining whether all of the land within the millsite is either used or needed for mining and milling purposes, such scrutiny should be limited to each 2-1/2 acre aliquot part." [*United States v. Swanson*, 93 ID 288; 93 IBLA 1 (1986)]

Attachment 11 (Continued).

What constitutes mining or milling purposes?

This is similar to use or occupancy, and shorter quotes from the same passages in case law will answer the question.

"[T]he use or occupation of it [the mill site] for mining or milling purposes [is] the only pre-requisite to a patent. The proprietor of a lode undoubtedly 'uses' non-contiguous land 'for mining or milling purposes' when he has a quartz-mill or reduction-works upon it, or when in any other manner he employs it in connection with mining or milling ores, or for shops or houses for his workmen, or for collecting water to run his quartz-mill, I think it clear that he would be *using* it for mining or milling purposes. I am also of the opinion that 'occupation' for mining or milling purposes, so far as it may be distinguished from 'use,' is something more than mere naked possession, and that it must be evidenced by outward and visible signs of the applicant's good faith. ... Therefore, when an applicant is not actually using the land, he must show such an occupation, by improvements or otherwise, as evidences an intended use of the tract in good faith for mining and milling purposes." [*Charles Lennig*, 5 LD 190 (1886)] (Emphasis in original.)

"A mill site is required to be used or occupied distinctly and explicitly for *mining* or *milling* purposes in connection with the lode claim with which it is associated. This express requirement plainly contemplates a function or utility intimately associated with the removal, handling, or treatment of the ore from the vein or lode." [*Alaska Copper Company*, 32 LD 128 (1903)] (Emphasis in original.)

"[I]f none of the associated mining claims are being operated, the appellant cannot be using the millsites for mining purposes," although, the appellant could still conceivably be using the mill site for milling purposes. [*Pine Valley Builders, Inc.*, 103 IBLA 384 (1988)]

What constitutes nonadjacent surface ground?

"[A] mill-site not contiguous to the vein or lode, embracing only non-mineral land, is not objectionable merely because in contact with a side line of the lode claim." [*Yankee Mill Site*, 37 LD 674 (1909)]

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"A millsite claim may be located adjoining the end of a lode mining claim, provided it be clearly shown that the lode or vein along which the mining location is laid either terminates before the end abutting upon the millsite claim would otherwise be reached, or that it departs from the side line of the mining claim, and that the ground embraced in such adjoining millsite claim is nonmineral in character." [*Montana-Illinois Copper Mining Co.*, 42 LD 434 (1913)]

"Where a part of a mill site is contiguous to the end line of a lode claim the formal and usual proofs of nonmineral character which accompany the mill-site application will not suffice to permit entry and patent of that part of the mill site contiguous to such end line, but it must be shown that the lode or vein does not extend into any part of the ground covered by the mill site." [*Coeur D'Alene Crescent Mining Company*, 53 LD 531 (1931)]

The statute allowing mill sites associated with placer claims make no such restriction, stating "Where nonmineral land is needed by the proprietor of a placer claim for mining, milling, processing, beneficiation, or other operations in connection with such claim, and is used or occupied by the proprietor for such purposes, such land may be included in an application for a patent for such claim, and may be patented therewith subject to the same requirements as to survey and notice as are applicable to placers. No location made of such nonmineral land shall exceed five acres ..." [Title 30 of the U.S. Code at § 42(b) (1988 ed.)]

What does "embraced and included in an application for a patent for such vein or lode" mean?

"[T]he owner of a patented lode may by an independent application secure a mill site, if good faith is manifest, the improvements sufficient, and no adverse claim exists," because "As stated by Mr. Secretary Lamar, in the [*Charles*] *Lennig* case, [5 LD 190 (1886),] 'the manifest intention of Congress was to grant an additional tract to a person' for use in connection with the lode. It is not difficult to conceive how exploration and development after patent of the lode claim might make it absolutely necessary to have additional surface-ground for the economical and

Attachment 11 (Continued).

practical working of the lode, and where there is good faith apparent there can be no objection, in my judgement, in permitting the entry." [*Eclipse Mill Site*, 22 LD 496 (1896)]

What is the required relationship between a dependent mill site and its associated mining claim?

"A mill site is required to be used or occupied distinctly and explicitly ... in connection with the lode claim with which it is associated." [*Alaska Copper Company*, 32 LD 128 (1903)]

"A mill site shall be patented, if at all, only simultaneously with the lode claim or claims to which it is appurtenant unless ... the lode claim should have been previously patented." [*Union Phosphate Company*, 43 LD 548 (1915)]

"The conclusion of whether the activity is actually mining or milling in connection with the lode claims cannot be determined, however, without, determining the nature to the activity on the associated claims and their validity." [*United States v. W.C. Dean and Mildred W. Dean*, 14 IBLA 107 (1973)]

"Where a millsite is not being used for mining or milling purposes in connection with a mining claim owned by the owner of the millsite, and ... there is no quartz mill or reduction works on the site, the millsite must be declared null and void." [*United States v. Aloys A. Dietemann and Doris E. L. Dietemann*, 26 IBLA 356 (1976)]

"[W]here millsites are claimed as a repository of tailings, it is necessary for the claimant to show that the tailings possess economic value and that the tailings have a direct relationship with the vein or lode with which the millsites are associated." [*United States v. Swanson*, 93 ID 288; 93 IBLA 1 (1986)]* (Emphasis added.)

"[I]f none of the associated mining claims are being operated, the appellant cannot be using the millsites for mining purposes." [*Pine Valley Builders, Inc.*, 103 IBLA 384 (1988)]

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Attachment 11 (Continued).

May more than one mill site be located for each mining claim or group of claims?

"[I]n some instances it might be necessary for the proprietor of the vein or lode to use or occupy only one piece of non-adjacent surface ground for mining or milling purposes, and in other instances more than one piece might be quite necessary and proper. I think the practice ... should be to allow the entry of such number of pieces, within the restriction of five acres, as may appear to be necessary for such mining and milling purposes." [*J.B. Hoggin*, 2 LD 755 (1884)]

While the above language seems to limit the total acreage of mill sites that a claimant may have to five acres per mining claim, the decisions below do not expand upon this, although they do require that there be a "sufficient and satisfactory" reason for each mill site.

"Whilst no fixed rule can well be established, it seems plain that ordinarily one mill site affords abundant facility for the promotion of mining operations upon a single body of lode claims. It is not to be supposed that Congress intended a grant of an equal number of such tracts as rightfully incident to all the lode claims of a compact group held and worked under a common ownership. ... There is nothing in the language or reason of the statute to permit a mill site to be taken and acquired in connection with each mining claim of such a group as that in question here. A separate mill site can not, therefore, be regarded or allowed as complementary to each of these lode locations." [*Alaska Copper Company*, 32 LD 128 (1903)]

"[I]f more than one mill-site is applied for in connection with a group of lode claims, a sufficient and satisfactory reason therefor must be shown. The storage of a quantity of ore upon each of the four mill-sites in this case, where there is nothing to show but that the area embraced in one of them would be ample for such storage, is but a mere colorable use of the mill-sites, which does not satisfy the requirements of the statute." [*Hard Cash and Other Mill Site Claims*, 34 LD 325 (1905)]

"A mill site cannot exceed 5 acres in size. There is no limit to the number of mill sites that can be held by a single claimant." [BLM Manual

Attachment 11 (Continued).

3864.11(B), Rel. 3-270, 7/9/91] The reasoning behind this policy, in light of the above decisions, may be that the statute (see above) does not state that only one mill site may be located per mining claim, but only that "no **location** made on and after May 10, 1872 of such nonadjacent land shall exceed five acres..." [Emphasis added.]

When is a mill site required to be "used and occupied"?

"The first clause of Section 2337, R.S., contemplates the allowance of a mill site entry only where the land is used or occupied for mining or milling purposes at the time the application for patent is made." [*Hudson Mining Company*, 14 LD 544 (1892)]

May the mill site be in a period of "non-operation" when the patent application is filed?

"[W]hen an applicant is not actually using the land, he must show such an occupation, by improvements or otherwise, as evidences an intended use of the tract in good faith for mining and milling purposes." [*Charles Lennig*, 5 LD 190 (1886)]

"Where land located as a millsite is not being used for mining or milling purposes at the time the patent is applied for, the applicant must show occupation by improvement or other evidence of good faith intentions to use the land for mining or milling purposes in order to sustain his claim; where a claim has usable improvements such as bunkhouses, an ore storage dump, and a tunnel which is the access to the mine, the requirement of the statute has been met." [*United States v. Joseph H. Skidmore*, 10 IBLA 322 (1973)]

"The concept of time also comes into play in considering the nonuse of the millsites. ... In considering the issue of occupancy of a millsite which is not being used, we must apply a test of reasonableness to determine whether the period of nonuse demonstrates invalidity. Within this concept of reasonableness, factors in addition to time of nonuse are relevant, namely: the condition of the mill; the potential sources of ore to run through the mill; the marketing conditions; costs of operations, including labor and transportation; and all factors bearing upon the

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economic feasibility of a milling operation being conducted on the site." [United States v. Leland J. Cuneo et al., 15 IBLA 304, 81 ID 262 (1974)]

"The use of improvements on millsites as a base for occasional sampling or testing activities on associated patented lode claims and the intent to use the millsites in the future, when and if market conditions are favorable, do not satisfy the statutory requirements." [United States v. Louis L. Osmer, Jr., et al., 76 IBLA 59 (1983)]

"Admittedly, since *Cuneo* [United States v. Leland J. Cuneo et al., 15 IBLA 304, 81 ID 262 (1974)] involved an independent millsite the elements listed were directed primarily to that type of situation, and different elements would, we believe, properly be considered relevant for a dependent millsite: the validity of the claim, if unpatented ...; the extent of mineral reserves on a patented claim ...; the length of nonuse and the amount of time that might reasonably be expected to be consumed in putting the millsites to use. ... A claimant's stated intent or his mere willingness to expend time and effort in developing one or more millsites cannot substitute for objective evidence that the purposes of the millsite law have been accomplished." [United States v. Swanson, 93 ID 288; 93 IBLA 1 (1986)]

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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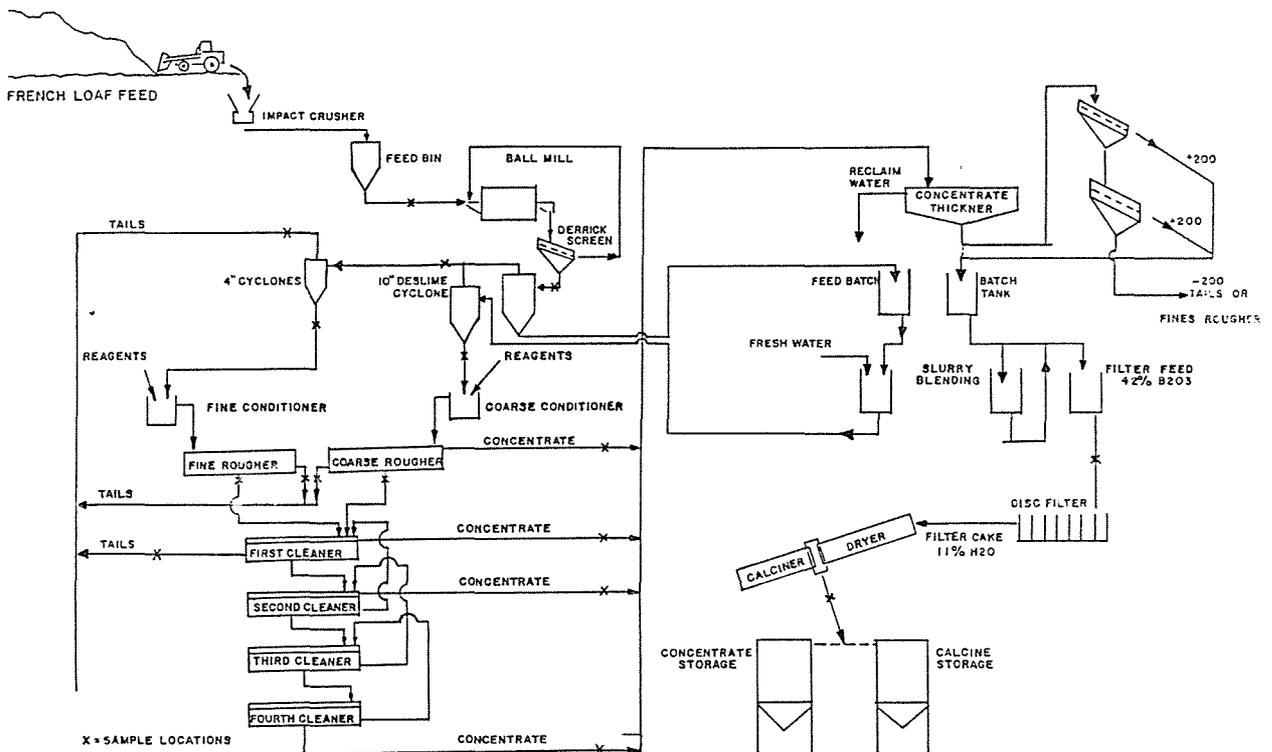
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(June 25, 1948, ch. 645, 62 Stat. 791; Sept. 12, 1980, Pub. L. 96-349 § 7(b), 94 Stat. 1158.)

PROPRIETARY DATA

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Attachment 12. Flow Chart of ABC's Lathrop Mill



From Flow Chart Provided by ABC

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Attachment 12 (Continued).

Mill Production 1988-1990 at ABC's Lathrop Mill

	Crude Tons	Concentrate Tons
Northeast Pond (Mined & Processed)	50,000	3,333
Northwest Pond (Mined & Processed)	151,133	10,075
Billie Ore (Mined & Processed)	41,850	10,011
Total Tons	242,983	23,419

22 Year Forecast of Mill Production at ABC's Lathrop Mill

	Crude Tons	Probable Concentrate Tons
Northwest Pond (Mined & Stockpiled)	39,350	2,315
Northwest Pond (Reserves)	159,517	9,383
South Pond (Reserves)	1,250,000	44,643
Total Pond (Reserves)	1,448,867	56,341
Billie Ore (50% Blend)	1,448,867	362,217
Total Forecast (22 years)	2,897,734	418,558
Annual Forecast	132,600	19,153
Monthly Forecast	11,050	1,596

From Data Provided by ABC