

August 16, 1989

INITIAL STUDY INTRODUCTION

Savahia Project

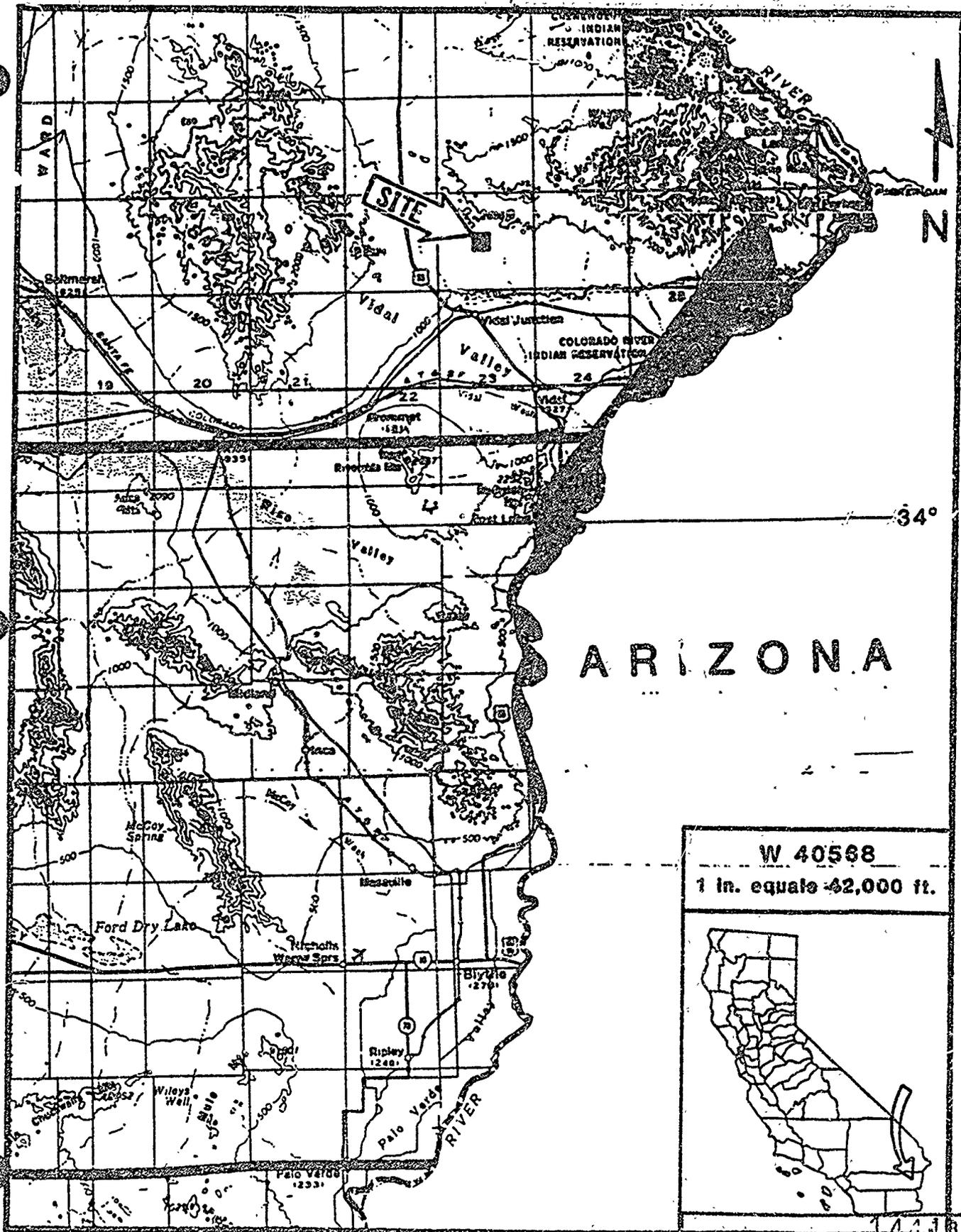
United States Borax and Chemical Corporation has applied to the State Lands Commission for a mineral prospecting permit on 639.52 acres of State school lands in Section 16, T2N, R23E, SBM, San Bernardino County. The section is located on the southwest flank of Whipple Mountains, about 45 miles north of Blythe, California. Section 16 is not within the S-11 boundary.

The proposed project calls for drilling a maximum of nine exploratory holes at six surface locations. Borax may drill more than one hole from these various drillsites. The exploratory holes will be drilled to a proposed total depth of 2,000 feet to obtain subsurface samples. These samples will be assayed at an offsite location. Borax is prospecting for precious metals and other valuable minerals. Small mud pits, 4 feet wide by 10 feet long by 8 feet deep may be required if rotary drilling methods are used at any of the six proposed drillsites.

The mineral prospecting permit when issued, will be for a two-year period and may be extended for a maximum of one year. The proposed project is specifically for mineral prospecting only. Any change in the activity will require preparation of an appropriate CEQA document.

This Initial Study-consists of the following material:

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# ARIZONA

W 40568  
1 in. equals 42,000 ft.





DETAILED PROJECT DESCRIPTION

U. S. Borax is planning to conduct a mineral prospecting program in the permitted area by drilling up to a maximum of nine exploratory holes, six inches in diameter, to a proposed total depth of 2,000 feet. Subsurface samples from the exploratory holes will be assayed for precious metals and other valuable minerals. The drillholes will be sampled at regular intervals and 2-5 pound samples will be collected for assay at an offsite location. If drilled to a total depth of 2,000 feet, each hole amounts to the removal of 15 cubic yards of material. The maximum excavated volume for a total of 9 drillholes will be 135 cubic yards.

Existing dirt roads needed for access will be cleared and made smooth with a grader, but not widened. Repair of existing dirt roads would include only minor work on washed out sections which total about 500 feet.

There will be no new surface disturbance. All of the proposed drillsites will be located along existing roads and jeep trails. None of the drillsites will be located on desert pavement. The preparation of a drillsite will not include levelling the area. Borax plans to drill the nine exploratory holes from a total of six proposed sites. Each site will have a work area of 60 feet by 75 feet equalling 4,500 square feet/site or about one-tenth of an acre/site.

Due to the varying geologic conditions, two different types of drilling equipment systems may have to be used. A mud/air rotary system will include a Gardner Denver 1500 truck-mounted rotary drillrig or its equivalent. The accessory equipment would include a truck-mounted watertank and a utility pickup truck. If this system is utilized, a backhoe-dug mud pit measuring approximately 4 feet wide by 10 feet long by 8 feet deep will be necessary to contain drilling fluids. Each pit amounts to the removal of about 12 cubic yards of excavated material. The total volume for a maximum of six mud pits is 72 cubic yards of excavated material. Each mud pit will have dirt berms to restrict wildlife entry. The other type of drilling equipment is the air/reverse-circulation system, utilizing a similar drillrig and water truck in addition to a truck-mounted air compressor. Mud pits are not required while drilling with the air/reverse-circulation system.

If used, the drilling mud will consist of nontoxic, biodegradable bentonite clays. The drilling mud fluids will be contained within the mud pits and will be allowed to dry thoroughly prior to burial when the pits are backfilled.

Exploratory drillholes penetrating water bearing strata will be abandoned and plugged with cement above the water zone. The remainder of the hole will be backfilled with drill cuttings. Each exploratory hole will be properly abandoned upon the completion of drilling.

Drillsites will be properly reclaimed, and recontoured with hand tools if necessary. No trash or debris will be left in the project area.

The total volume of excavated material for the proposed project will be not more than 207 cubic yards of material. This figure includes a total volume for nine exploratory drillholes (135 cubic yards) and a total volume for six mud pits (72 cubic yards).

ENVIRONMENTAL SETTING

Section 16 is situated on the west flank of Whipple Mountains in southeast San Bernardino County, about 45 miles north of Blythe and about 25 miles west of Parker, Arizona. The section is about three miles west of the boundaries of BLM's Wilderness Study Area No. 312 and S-11's current boundary.

The topography consists of steep, rocky ridges with intervening dry washes and pediments covered by desert pavement. Elevations range from about 1,600 feet in the northwest part of the parcel to about 1,300 feet in the central part. There are several dirt roads and trails throughout the parcel, especially in the southwest quarter, and evidence of surface use including offhighway vehicle activity.

The proposed project area is in the northern part of the Colorado Desert Geologic Province. The major lithologic rock unit on the State section is a reddish brown, microcrystalline rhyolite of Tertiary age. In the southwest quarter of the section, where three prospect pits and a mine shaft are located, the volcanic rocks are brecciated and silicified with abundant copper mineralization. In contrast, the rocks of the northeast quarter appear to be unaltered. The remaining surface of the section is covered by desert pavement consisting of recent alluvial fine to coarse grain sands, gravels, cobbles and boulders of various sizes. There appears to be a northwest trending lineament traversing the section that may be responsible for localized hydrothermal mineralization. During its field investigations, the California Division of Mines and Geology has classified the southwest quarter of Section 16 as a Mineral Resource Zone 3 (MRZ-3), a designation for areas containing mineral deposits the significance of which cannot be evaluated from available data.

Vegetation on the State section is characteristically sparse due to the aridity of the Colorado Desert. The best description for the parcel is a Creosote Bush-Burro Bush Community with Cholla, Beavertail and Barrel cactus and some Brittle Bush and Desert Trumpet also present. The ephemeral washes contain Smoke Tree, Palo Verde and Mistletoe plants predominantly.

According to the CDCA Plan of 1980, there are no rare, threatened or endangered plant species or unusual plant assemblages in the immediate area of Section 16.

During a recent site inspection by the staff of the State Lands Commission, no animals were observed on the section. The only wildlife known to frequent this area are reptiles, jackrabbits and coyotes. The BLM's Desert Tortoise Habitat Interim Map of January 1989 shows Section 16 situated on the boundary line between the open area of the Whipple Mountains and the Category 1 Habitat Area of northern Vidal Valley. The additional mitigating measures in the State's EIA Checklist should adequately protect the tortoise during the proposed exploration activity.

There are no buildings on the section and no standing water. Savahia Peak is the dominant geographic feature in the area and is located about two miles northeast.

Evidence of surface use includes several dirt roads and remnants of prospecting activity. The adjacent lands are vacant and under control of the federal government, except for Section 15, which is immediately adjacent to the east boundary of the State section. Savahia, Inc. of Las Vegas, Nevada holds a possessory interest in Section 15.

Historically, mining activities have been recorded in the area of the project site since the early 1900's. These records refer to the area as the Whipple Mountains mining district and has been described as extending 20 to 50 miles west of the Colorado River. This area was also part of the California-Arizona Maneuver Area that was used during World War II for military training.

According to the Cultural Resources Element map on page 58 of the CDCA Plan Alternatives and EIS draft of 1980, the immediate area of Section 16 has not been identified as possessing any significant cultural or historic resources.

**ENVIRONMENTAL IMPACT ASSESSMENT FORM - Part I**  
(To be completed by applicant)  
FORM 62.3(11/82)

**A. GENERAL INFORMATION**

1. Name, address, and telephone number:

a. Applicant

U. S. Borax & Chemical Corporation  
3075 Wilshire Boulevard  
Los Angeles, CA 90010  
(213) 381-5311

b. Contact person if other than applicant:  
Michael H. Rauschkolb  
Land Agent, U. S. Borax

1802 W. Grant Road, Suite 108  
Tucson, AZ 85745  
(602) 884-8983

2. a. Project location: (Please reference to nearest town or community and include county)

Section 16, T2N, R23E, SBM

San Bernardino County

45 miles north of Blythe, CA

b. Assessor's parcel number: 0648-181-151

3. Existing zoning of project site: Rural Conservation

4. Existing land use of project site: Vacant, no current existing land use.

5. Proposed use of site: Mineral prospecting-drill a maximum of nine exploratory holes to a proposed total depth of 2,000 feet and assay the samples at an offsite location.

6. Other permits required: None.

## STATEMENT OF PROPOSED WASTE DISPOSAL METHODS

### Liquid Waste Disposal

If a drillhole penetrates water-bearing strata, a cement plug will be placed above the water-bearing zone and the remainder of the hole will be backfilled with drill cuttings.

### Solid Waste Disposal

Drill cuttings and drilling mud fluids will be retained in mud pits on site. Upon completion of drilling the mud pits will be backfilled and the area returned to its original contour. Trash containers will be used during the drilling activity and sites will be cleaned of all trash and debris.

### Gaseous Waste Disposal

No gaseous waste will be generated by the proposed project.

## APPLICANT'S ASSESSMENT OF ENVIRONMENTAL IMPACTS

The mineral prospecting work as proposed will have a slight adverse effect on the environment of the project area. Some dust, fumes and noise will be present in the immediate vicinity of the drillrig during the actual drilling operations. Each drillsite will require about one-tenth of an acre of land use. These sites will be reclaimed in a way that will minimize the evidence of prospecting work.

### Proposed Mitigation Measures

1. Existing roads and jeep trails will be used for access to the drillsites.
2. The drillsites will be located along existing roads and jeep trails. No sites will be located on desert pavement.
3. Vehicle traffic will be kept to a minimum and vehicle speeds will be limited to 15 miles per hour.
4. Mud pits, if needed for drilling, will have dirt berms to restrict wildlife entry and will be backfilled after the completion of drilling.
5. Upon abandonment, all casing pipe needed for drilling will be removed if possible. If casing cannot be removed, the pipe will be cut five feet below ground level and a 20' plug of impervious material will be placed at the top of the hole. Suitable impervious materials include grout, cement, concrete and bentonite clay.
6. The permittee will perform all work activities in order to minimize the impact on vegetation. No vegetation will be removed from the project area.

All phases of a project, such as planning, acquisition, development and operation, shall be considered when evaluating its impact on the environment. Please answer the following questions by placing a check in the appropriate box. Discuss all items checked "yes" or "maybe" on additional sheet(s).

Will the project involve:

	YES	MAYBE	NO
1. A change in existing features of any bays, tidelands, beaches, lakes or hills, or substantial alteration of ground contours? .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. A change in scenic views from existing residential areas or public lands or roads?...	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. A change in pattern, scale or character of the general area of the project? .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Significant effect on plant or animal life? .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Significant amounts of solid waste or litter? .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. A change in dust, ash, smoke, fumes or odors in the vicinity? .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. A change in ocean, bay, lake, stream or ground water quality or quantity, or an altering of existing drainage patterns? .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. A change in existing noise or vibration levels in the vicinity? .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Construction on filled land or on a slope of 10 percent or more? .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Use or disposal of potentially hazardous materials such as toxic or radioactive substances, flammables or explosives? .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. A change in demand for municipal services (e.g., police, fire, water, sewage)? .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Increase in fossil fuel consumption (e.g., electricity, oil, natural gas)? .....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. A larger project or a series of projects? .....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6 & 8. Some dust and noise will be present in the immediate vicinity of the drill rig during operations.			
13. An open pit or underground mine might be developed at this site.			

### Certification

I certify that all information and materials furnished in this application are true and complete to the best of my knowledge and belief. I recognize that this application and the project it addresses are subject to all laws of the State of California, and the regulations and discretionary policies of the State Lands Commission.

Applicant: United States Borax & Chemical Corporation Date: August 17, 1988

~~XXX~~

Agent: Michael H. Rauschkolb Date: August 17, 1988  
 Land Agent, Land Department

Title: \_\_\_\_\_

I. BACKGROUND INFORMATION

- A. Applicant: United States Borax & Chemical Corporation  
c/o 1802 W. Grant Road, Suite 108  
Tucson, AZ 85745  
Attention: Michael Rauschkolb
- B. Checklist Date: 08/18/1989
- C. Contact Person: Eric Kruger  
Telephone: (213) 590-5201
- D. Purpose: Prospecting for precious metals and other valuable minerals  
other than oil and gas, geothermal resources or sand and gravel.
- E. Location: Section 16, T2N, R23E, SBM, San Bernardino County,  
about 45 miles north of Blythe, CA.
- F. Description: Drill a maximum of nine exploratory holes to a proposed total  
depth of 2,000 feet and assay the samples at an offsite location.
- G. Persons Contacted: See attached mailing list.

II. ENVIRONMENTAL IMPACTS. (Explain all "yes" and "maybe" answers)

- |  | Yes                      | Maybe                               | No                                  |
|--|--------------------------|-------------------------------------|-------------------------------------|
| A. <i>Earth.</i> Will the proposal result in:  |                          |                                     |                                     |
| 1. Unstable earth conditions or changes in geologic substructures? .....   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 2. Disruptions, displacements, compaction, or overcovering of the soil? .....  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 3. Change in topography or ground surface relief features? .....   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 4. The destruction, covering, or modification of any unique geologic or physical features? .....   | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5. Any increase in wind or water erosion of soils, either on or off the site? .....  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 6. Changes in deposition or erosion of beach sands, or changes in siltation, deposition or erosion which may modify the channel of a river or stream or the bed of the ocean or any bay, inlet, or lake? ..... | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 7. Exposure of all people or property to geologic hazards such as earthquakes, landslides, mudslides, ground failure, or similar hazards? .....  | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

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B. *Air*. Will the proposal result in:

Yes: Maybe No

- 1. Substantial air emissions or deterioration of ambient air quality?
- 2. The creation of objectionable odors?
- 3. Alteration of air movement, moisture or temperature, or any change in climate, either locally or regionally?

C. *Water*. Will the proposal result in:

- 1. Changes in the currents, or the course or direction of water movements, in either marine or fresh waters?
- 2. Changes in absorption rates, drainage patterns, or the rate and amount of surface water runoff?
- 3. Alterations to the course or flow of flood waters?
- 4. Change in the amount of surface water in any water body?
- 5. Discharge into surface waters, or in any alteration of surface water quality, including but not limited to temperature, dissolved oxygen or turbidity?
- 6. Alteration of the direction or rate of flow of ground waters?
- 7. Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?
- 8. Substantial reduction in the amount of water otherwise available for public water supplies?
- 9. Exposure of people or property to water-related hazards such as flooding or tidal waves?
- 10. Significant changes in the temperature, flow or chemical content of surface thermal springs?

D. *Plant Life*. Will the proposal result in:

- 1. Change in the diversity of species, or number of any species of plants (including trees, shrubs, grass, crops, and aquatic plants)?
- 2. Reduction of the numbers of any unique, rare or endangered species of plants?
- 3. Introduction of new species of plants into an area, or in a barrier to the normal replenishment of existing species?
- 4. Reduction in acreage of any agricultural crop?

E. *Animal Life*. Will the proposal result in:

- 1. Change in the diversity of species, or numbers of any species of animals (birds, land animals including reptiles, fish and shellfish, benthic organisms, or insects)?
- 2. Reduction of the numbers of any unique, rare or endangered species of animals?
- 3. Introduction of new species of animals into an area, or result in a barrier to the migration or movement of animals?
- 4. Deterioration to existing fish or wildlife habitat?

F. *Noise*. Will the proposal result in:

- 1. Increase in existing noise levels?
- 2. Exposure of people to severe noise levels?

G. *Light and Glare*. Will the proposal result in:

- 1. The production of new light or glare?

H. *Land Use*. Will the proposal result in:

- 1. A substantial alteration of the present or planned land use of an area?

I. *Natural Resources*. Will the proposal result in:

- 1. Increase in the rate of use of any natural resources?
- 2. Substantial depletion of any nonrenewable resources?

**J. Risk of Upset.** Does the proposal result in:

Yes Maybe No

- 1. A risk of an explosion or the release of hazardous substances (including, but not limited to, oil, pesticides, chemicals, or radiation) in the event of an accident or upset conditions?
- 2. Possible interference with emergency response plan or an emergency evacuation plan?

**K. Population.** Will the proposal result in:

- 1. The alteration, distribution, density, or growth rate of the human population of the area?

**L. Housing.** Will the proposal result in:

- 1. Affecting existing housing, or create a demand for additional housing?

**M. Transportation/Circulation.** Will the proposal result in:

- 1. Generation of substantial additional vehicular movement?
- 2. Affecting existing parking facilities, or create a demand for new parking?
- 3. Substantial impact upon existing transportation systems?
- 4. Alterations to present patterns of circulation or movement of people and/or goods?
- 5. Alterations to waterborne, rail, or air traffic?
- 6. Increase in traffic hazards to motor vehicles, bicyclists, or pedestrians?

**N. Public Services.** Will the proposal have an effect upon, or result in a need for new or altered governmental services in any of the following areas:

- 1. Fire protection?
- 2. Police protection?
- 3. Schools?
- 4. Parks and other recreational facilities?
- 5. Maintenance of public facilities, including roads?
- 6. Other governmental services?

**O. Energy.** Will the proposal result in:

- 1. Use of substantial amounts of fuel or energy?
- 2. Substantial increase in demand upon existing sources of energy, or require the development of new sources?

**P. Utilities.** Will the proposal result in a need for new systems, or substantial alterations to the following utilities:

- 1. Power or natural gas?
- 2. Communication systems?
- 3. Water?
- 4. Sewer or septic tanks?
- 5. Storm water drainage?
- 6. Solid waste and disposal?

**Q. Human Health.** Will the proposal result in:

- 1. Creation of any health hazard or potential health hazard (excluding mental health)?
- 2. Exposure of people to potential health hazards?

**R. Aesthetics.** Will the proposal result in:

- 1. The obstruction of any scenic vista or view open to the public, or will the proposal result in the creation of an aesthetically offensive site open to public view?

**S. Recreation.** Will the proposal result in:

- 1. An impact upon the quality or quantity of existing recreational opportunities?

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0.964

T. Cultural Resources

- 1. Will the proposal result in the alteration of or the destruction of a prehistoric or historic archeological site?  Yes  No
- 2. Will the proposal result in adverse physical or aesthetic effects to a prehistoric or historic building, structure, or object?  Yes  No
- 3. Does the proposal have the potential to cause a physical change which would affect unique ethnic cultural values?  Yes  No
- 4. Will the proposal restrict existing religious or sacred uses within the potential impact area?  Yes  No

U. Mandatory Findings of Significance

- 1. Does the project have the potential to degrade the quality of the environment, reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?  Yes  No
- 2. Does the project have the potential to achieve short-term, to the disadvantage of long-term, environmental goals?  Yes  No
- 3. Does the project have impacts which are individually limited, but cumulatively considerable?  Yes  No
- 4. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?  Yes  No

III. DISCUSSION OF ENVIRONMENTAL EVALUATION (See Comments Attached)

- A2. Some displacement and compaction of surface material may result while ensuring safe access for personnel and equipment.
- A5. Some increase may take place in wind and water erosion of disrupted surface material in the areas used for access and drillsites.
- F1. Operation of the drillrig and related activities will temporarily increase existing noise levels.

Additional mitigating measures:

- 1. The permittee will notify the staff of the State Lands Commission one week prior to commencing operations. To ensure conformance to the terms, conditions and mitigation measures of the permit the staff of the State Lands Commission will perform inspections of the project area periodically.
- 2. While travelling through the project area, the permittee should watch for and avoid desert tortoise on the roads. If a tortoise is observed on the road, it should be carried across the road and placed 100 yards from the roadside.
- 3. Prior to operation, the permittee should check around their equipment to avoid injuring wildlife, especially the desert tortoise, a State protected species.

IV. PRELIMINARY DETERMINATION

On the basis of this initial evaluation:

- I find the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation measures described on an attached sheet have been added to the project. A NEGATIVE DECLARATION will be prepared.
- I find the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

Date: 9.18.89

E. Kruger

For the State Lands Commission	PAGE 144:30
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Mailing List - W 40568

Air Resources Board  
Attn: Bob Fletcher  
1102 "Q" Street  
Sacramento, CA 95814

Department of Conservation  
Attn: Dennis O'Bryant  
1416 Ninth Street, Rm 1326-2  
Sacramento, CA 95814

Department of Health  
Attn: Arlene Chance  
714 "P" Street Room 1253  
Sacramento, CA 95814

Native American  
Heritage Commission  
Attn: William A. Johnson  
915 Capital Mall, Room 288  
Sacramento, CA 95814

Office of Historic Preservation  
Attn: Hans Kreutzberg  
P.O. Box 942896  
Sacramento, CA 94296-0001

Department of Parks and Recreation  
Attn: James M. Doyle  
P.O. Box 942896  
Sacramento, CA 94296-0001

Department of Transportation  
District 8  
Attn: Guy Visbal  
247 W. Third Street  
San Bernardino, CA 92403

Dept. of Fish and Game  
Attn: F. A. Worthley, Jr.,  
330 Golden Shore, Suite 50  
Long Beach, CA 90802

State Water Resources  
Control Board  
Division of Water Quality  
Attn: Ed Anton  
P.O. Box 100  
Sacramento, CA 95801

Regional Water Quality Control Board  
Colorado River Basin Region (7)  
73-271 Highway 111, Suite 21  
Palm Desert, CA 92260

San Bernardino County Planning Dept.  
Attn: John N. Jaquess  
385 No. Arrowhead Avenue  
San Bernardino, CA 92415-0182

United States  
Dept. of the Interior  
Bureau of Land Management  
Needles Resource Area  
Attn.: Everell G. Hayes  
101 W. Spikes Road  
Needles, CA 92363

San Manuel Reservation  
Attn.: Henry Duro  
Chairperson  
5771 North Victoria Ave.  
Highland, CA 92346

Twenty Nine Palms Reservation  
Attn.: Dean Mike  
Spokesman  
2116 "A"  
Bellingham, WA 98225

Chemehuevi Tribal Council  
Attn.: Christine Walker  
P.O. Box 1976  
Chemehuevi Valley, CA 92363

Mojave Tribal Council  
Attn.: Minorva Jenkins  
500 Merriman  
Needles, CA 92363

Colorado River Indian Tribes  
Attn.: Anthony Drennan  
Route 1, Box 23-B  
Parker, AZ 85344

Scott Simmons  
Desert Task Force  
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P.O. Box 1062  
Phelan, CA 92371

Bill Havert  
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Sierra Club, San Geronio Chapter  
568 N. Mountain View, Suite 130  
San Bernardino, CA 92401

Jeff Sharpe  
Conservation Committee  
Sierra Club, Mojave Group  
14944 Luna Road  
Victorville, CA 92392

U. S. Dept. of the Interior  
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California Desert District  
Attn.: Dr. Kristen Berry  
1695 Spruce Street  
Riverside, CA 92507

Desert Tortoise Council  
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5319 Cerritos Ave.  
Long Beach, CA 90805

Pacific Mining Association  
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Norco, CA 91760

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and Mining Engineering  
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Sherman Oaks, CA 91423

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San Francisco, CA 94108

Robert Segal  
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P.O. Box 124  
Mountain Pass, CA 92361

Douglas Shumway  
Mitsubishi Cement Corporation  
State Highway 18  
HRC Box 400  
Lucerne Valley, CA 92356

Office of the Attorney General  
Attn.: Robert Collins  
Deputy Attorney General  
3580 Wilshire Blvd.  
Los Angeles, CA 90010

U.S. Borax & Chemical Corporation  
Attn: Mike Rauschkolb  
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Senator Bill Leonard  
400 N. Mountain Avenue  
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Assemblyman Paul Woodruff  
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Attention: Tim Johnson

Dennis Boyle  
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