

3/90

Reclamation Document Routing Sheet

Date In: 4, 29, 91 Date Due: / / Date Mailed: / /

Assigned to: GNC () LJ () MSC () Other Kit Date Assigned: 5, 12, 91

County: Inyo Lead Agency: County

Agency Contact: Charles Thistlethwaite Phone: 619-878-2411

Operator: NORTH AMERICAN CHEMICAL COMPANY - PYCO ACE.

Mine Name: PYCO ACE OPERATIONS - REVENUE CYN.

Waterway: _____ Quad: _____

Permit/RP# 90-8 SCH# _____

Ownership: () Private () BLM () USFS () State Lands () Indian Lands () Other _____

Site Visit: () Yes () No Date: / / Name: _____

Photos: () Yes () No Date: / / Letter file name: _____

Comments: () Yes () No Date of most recent comment: / / : _____

Comments incorporated in approved recplan: () No () All () Some

Approved Recplan in File: () Yes () No Approval Date: / /

Financial Assurance: () Yes () No Amount \$ _____ Date last inspected: / /

Mine Status: () Active () Idle () Abandoned () Reclaimed () Undeveloped/pending approval/proposed

Type of operation: Aggregate/non-aggregate: _____

Mining method: () Open pit () Instream () Other _____

FORWARDED TO:	FROM:	DATE IN:	DATE OUT:	COMMENTS:
<u>County</u>	<u>Kanaka</u>	<u>4-29</u>		<u>Review</u>
<u>GRIL</u>	<u>Kit</u>	<u>5/13/91</u>		<u>Please Review</u>

DEPARTMENT OF CONSERVATION

DIVISION OF MINES AND GEOLOGY

SACRAMENTO OFFICE

650 BERGUT DRIVE, SUITE B

SACRAMENTO, CA 95814-0131

(Phone 916-323-8567)



May 16, 1991

Charles S. Thistlethwaite, AICP
Planning Commission
Inyo County
Drawer L
Independence, CA 93526

Dear Mr. Thistlethwaite:

APPROVED RECLAMATION PLAN FOR 90-8/PYCO A.C.E

Thank you for forwarding a copy of the approved reclamation plan for 90-8/PYCO A.C.E. The approved documents will be placed in the Mine Reclamation Program files pursuant to the Surface Mining and Reclamation Act of 1975 (SMARA).

If you have any questions or require assistance with other mine reclamation issues, please contact me at (916) 323-8565.

Sincerely,

A handwritten signature in cursive script that reads "James Pompy".

James Pompy
Reclamation Program Manager



PLANNING COMMISSION

DRAWER L • INDEPENDENCE • CALIFORNIA 93526

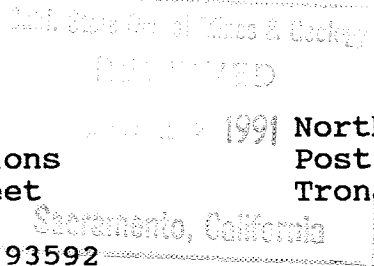
(619) 878-2411 (Ext 2263)

County of
INYO

NOTICE OF DECISION

April 24, 1991

Zenis M. Walley
PYCO A.C.E. Operations
12081 Mariposa Street
Post Office Box 66
Trona, California 93592



North American Chemical Company
Post Office Box 367
Trona, California 93592

**SUBJECT: Conditional Use Permit #90-8/PYCO A.C.E. and
Reclamation Plan #90-5/PYCO A.C.E.
Revenue Canyon, Panamint Valley
(A.P. #32-500-02,03,04,05 & 06; and A.P. #32-51001)**

Dear Mr. Walley:

On April 24, 1991, the Inyo County Planning Commission held a public hearing to consider the above applications to reactivate and expand a limestone quarry and processing facility with material storage areas. The subject property is 249.86 acres in size and zoned OS-40 (Open Space - 40 acre minimum).

At the public hearing the Commission considered the staff report, written and oral public testimony, and took the following actions:

I. Conditional Use Permit No. 90-8/PYCO A.C.E.

- A. Based upon the Initial Study and comments received, adopted the Mitigated Negative Declaration of Environmental Impact and Mitigation Monitoring Program; thus certifying that the requirements of the California Environmental Quality Act and Section 21081.6 of Public Resources Code have been satisfied.
- B. Found the mining and millsite operations are consistent with the "Open Space - Natural Resources" designation of the Inyo County General Plan; and the Conditional Use Permit is in compliance with the requirements of the OS-40 zone.

- C. Found that existing public facilities and services are adequate for the needs of the proposed project.
- D. Approved Conditional Use Permit No. 90-8/PYCO A.C.E. subject to the following conditions:
1. This Conditional Use Permit shall become effective upon final approval of Reclamation Plan No. 90-5/PYCO A.C.E. and the posting of all required surety bonds and/or cash deposits.
 2. Any expansion of the area of mining activity, processing facilities or stockpile areas beyond that shown on the approved Plot Plans submitted with this application shall require an amendment to this conditional use permit and associated reclamation plan. Lowering of the elevations of the existing limestone quarries without any additional surface disturbance shall not be considered as an expansion of the area of mining activity.
 3. No sidecasting of limestone material, waste, or overburden shall be permitted in the area of mining activity or material/spoils piles. Use of overburden may be permitted in implementing the approved Reclamation Plan.
 4. The material/spoils piles shall be removed a minimum distance of twenty-five feet (25') from the dry wash in the southwest corner of the April 14 unpatented mining claim within ninety (90) days of approval of this Conditional Use Permit.
 5. To ensure the sides of the open pits are not exposed to view from the floor of Panamint Valley, the existing elevations at the top of quarry faces adjacent to the downslope sides of the hill shall be maintained.
 6. Only existing roads as depicted on the approved site plan shall be utilized as part of the mining and processing operation. Any maintenance or grading of these roads shall be performed in a manner to minimize the amount of sidecasting to the maximum extent feasible.
 7. Inyo County shall reserve the right to periodically inspect the subject property to monitor compliance of the requirements of this Conditional Use Permit. The Planning Commission shall reserve ongoing jurisdiction over this Conditional Use Permit and may, based upon substantial evidence of violation of any of the conditions of approval, hold a public hearing to modify or revoke this Conditional Use Permit.

II. Reclamation Plan No. 90-5/PYCO A.C.E.

- A. Based upon the Initial Study and comments received, adopted the Mitigated Negative Declaration of Environmental Impact and Mitigation Monitoring Program; thus certifying that the requirements of the California Environmental Quality Act and Section 21081.6 of Public Resources Code have been satisfied.
- B. Found the Reclamation Plan is consistent with the "Open Space - Natural Resources" designation of the Inyo County General Plan, and the Plan in compliance with the requirements of Chapter 18.76, Land Reclamation, of the Inyo County Zoning Ordinance and the Surface Mining Reclamation Act of 1975.
- D. Approved Reclamation Plan No. 90-5/PYCO A.C.E. subject to the following conditions:
1. This Reclamation Plan shall become effective upon final approval of Conditional Use Permit No. 90-5/PYCO A.C.E. and the posting of all required surety bonds and/or cash deposits.
 2. A surety bond or cash deposit in the amount of \$549,667.00 shall be posted in favor of Inyo County, U.S. Bureau of Land Management the State Geologist within ninety (90) days of approval of this Reclamation Plan to insure the project shall be fully reclaimed in accordance with the approved Reclamation Plan and the requirements of the Surface Mining Reclamation Act of 1975. *~\$2,200,000.*
 3. Slopes on all quarry faces and benches shall be stabilized in the limestone quarries by dragging to remove any loose material to the satisfaction of the Planning Director within six months of final mine closure. All final benches shall be left with 15 to 20 foot horizontal benches for every 20 to 40 feet of vertical slope. *12'*
 4. Existing roads utilized as part of the mining and millsite operations shall be scarified and berms shall be constructed as needed on steep slopes to prevent erosion to the satisfaction of the Inyo County Planning Director within six months of final closure.
 5. Boulders shall be placed to restrict access to quarry benches and floors, and on rehabilitated roads to the satisfaction of the Planning Director within six months of final closure.
 6. Remaining material/spoils piles shall be covered with one and one-half feet (1 1/2') of medium rock to prevent wind and water erosion and to reduce aesthetic and impact on scenic resources, and to prevent fugitive

dust, the satisfaction of the Planning Director and Great Basin Unified Air Pollution Control District, within six months of final closure.

7. Water lines and storage tanks; crusher and conveyor units; trailers, buildings and all other structures associated with the mining and processing operations on the subject property shall be removed within six months of final closure.
8. Areas where material/waste piles have been removed at final closure, and original land surfaces are exposed, shall be scarified and revegetated with seeds from native plant species within six months of final closure.
9. Springs utilized for water supply for the mining and processing operations shall be restored to as near their pre-project condition as feasible and to the satisfaction of the Planning Director. Restoration shall be completed within six months of final closure.
10. This Reclamation Plan shall be reviewed for compliance with these conditions of approval by the Inyo County Planning Department on an annual basis. Based upon this review, the amount of the financial assurances may be adjusted by the as deemed appropriate by the Planning Director.
11. The mining operator and/or owner of the mining claims shall submit a notarized statement, acceptable in form to the Inyo County Counsel and Planning Director, accepting responsibility for reclaiming the subject property pursuant to the above conditions of approval within ninety (90) days from the date of final approval of this plan.

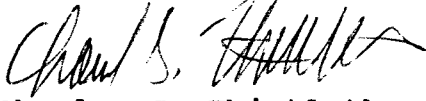
Any interested person may appeal this decision of the Planning Commission, or and condition of approval, to the Board of Supervisors within fifteen (15) days of the date of this notice, pursuant to Section 18.81.270 of the Inyo County Zoning Ordinance.

If this decision is not appealed, the approval will become effective at the end of the appeal period. In compliance with the California Environmental Quality Act, a Notice of Determination must be filed within five (5) days of the date the decision becomes effective. Public Resources Code provides a \$1,250 fee must be paid by the project applicant to the Inyo County Clerk at the time the Notice is filed. Section 21809 (b) of Public Resources Code provides that this approval will not be "operative, vested or final" until the fee has been paid.

Please do not hesitate to contact this office if you have any questions.

Sincerely,

Roger De Hart
Planning Department



Charles S. Thistlethwaite, AICP
Associate Planner

cc: Paul Payne, Fifth District Supervisor
Public Works Department (Independence)
Dave Taylor, Bureau of Land Management (Ridgecrest)
Jim Pompey, Division of Mines and Geology (Sacramento -
Bercut)
Bill Gatlin, Tom Dodson & Associates



PLANNING DEPARTMENT

DRAWER L • INDEPENDENCE • CALIFORNIA 93526

OFFICE: (619) 878-2411 (Ext 2263)

FAX: (619) 878-2542

County of
INYO

Roger DeHart *RDH*
Planning Director

PLANNING DEPARTMENT STAFF REPORT

AGENDA ITEM NO. *6*

April 24, 1991

SUBJECT: Conditional Use Permit No. 90-8/PYCO A.C.E.
Reclamation Plan No. 90-5/PYCO A.C.E.

BACKGROUND:

This project is a request by PYCO A.C.E., Inc. to reactivate and expand a limestone quarry and processing facility with material storage areas. The subject property is 249.86 acres in size and zoned OS-40 (Open Space - 40 acre minimum). Reactivation of the quarry and processing facility requires a CUP under Section 18.12.040 (I.) of the Inyo County Zoning Ordinance. A reclamation plan is also required under Section 18.76.015 (A.) of the Zoning Ordinance and under the State Surface Mining and Reclamation Act of 1975 (SMARA).

The project site is located in Sections 26, 27 and 34 of Township 20 South, Range 42 East, Mount Diablo Base and Meridian along the east side of the Argus Range in Panamint Valley (A.P. #32-500-02,03,04,05 & 06; and A.P. #32-510-01) (see attached Vicinity Map).

Subject Property and Surrounding Land Uses

The subject property is located along the east side of the Argus Range and the west side of Panamint Valley at the mouth of Revenue Canyon. The property is irregular in size and consists of a combination of patented (privately owned) and unpatented (public land) mining claims. The north and east portions of the subject property are alluvial fans which gently slope from the mouth of Revenue Canyon with rocky soils. The south and west portions of the property are steeply sloped and almost devoid of topsoil. The mining operation consists of a millsite with screen, crusher and conveyor, office and maintenance building; two material/waste piles covering approximately 20 acres; three existing quarries; roads; and water and power lines (see attached Plot Plans Figures 1 and 2).

Surrounding lands are all zoned OS-40, vacant, and managed for multiple-use (Class M) by the U.S. Bureau of Land Management according to the California Desert Plan. A paved County road (Nadeau Road) runs southeast from the project site to Trona-Wildrose County Road.

ANALYSIS:

History of the Subject Property

Limestone mining at this site dates back to the late 1950's with the private lands being patented by Kerr-McGee Chemical Corporation in 1963. Prior to adoption of the Inyo County's Zoning Ordinance in 1970, County approval of the mining and processing operations was not required. Upon adoption of the Zoning Ordinance, the existing mining operation was grandfathered in as a preexisting conditional use: a use allowed to continue without CUP approval unless the operation was modified or discontinued.

Market conditions and the marginal quality of the limestone forced the mine and processing facility to cease operations. The development of coal-fired cogeneration plants by Kerr-McGee in Trona (Argus Cogeneration Project) created a new need for the limestone which is burned along with coal to reduce sulfur dioxide emissions; a chief component of acid rain.

Upon completion of the latest expansion of the cogeneration project in 1990; Kerr-McGee determined the source for limestone for the cogeneration unit would be the product/spoils piles on the subject property. The existing product/spoils piles were estimated to supply enough limestone for the cogeneration units for a period of approximately five years. When these supplies are exhausted, it was anticipated that the inactive limestone quarries would be reopened. A Bureau of Land Management Mining Plan of Operations was obtained for the unpatented claims and applications for a Conditional Use Permit and Reclamation Plan were filed with the Planning Department for the overall mining operation.

In November, 1990, Kerr-McGee's ownership of both the patented and unpatented mining claims was transferred to North American Chemical Company and operation of the cogeneration units and limestone quarry and processing operations was transferred to PYCO A.C.E. Thus, North American Chemical is the property owner, and PYCO A.C.E. is the project applicant (see attached letters).

Conditional Use Permit No. 90-8/PYCO A.C.E.

As indicated above, this application is a request to reactivate a limestone mining and processing operation which has existed for over 30 years. The mining operation contains three quarries with the main quarry located in the southwest corner of the subject property (see Plot Plan Figure 2). The applicant intends to produce 5,000 to 50,000 tons of limestone per year.

The existing main quarry pit has a depth of approximately 80 feet below surface level. The proposed mining operation will continue mining to a depth of 160 feet (see Figure 3; Cross Section of Main Quarry). After commencement of renewed mining activity, it is projected that mining activities will last from 15 to 50 years depending on annual production rates. The amount of remaining material in the quarries is approximately 700,000 tons.

Because the quarries are mined from the surface downward into the open pit, they have only a minimal visual impact outside the subject property. To ensure the sides of the open pits are not exposed to view from the floor of Panamint Valley, staff is recommending the existing elevation at the top of quarry faces adjacent to the downslope sides of the hill be maintained (see Condition No. 5).

The only major visual impact of the mining operation comes from the existing roads which wind up the hillside to the three quarries. To minimize this impact staff is recommending only existing roads as depicted on the approved Plot Plans shall be utilized as part of the mining and processing operation. Any maintenance or grading of these roads would be performed in a manner to minimize the amount of sidecasting to the maximum extent feasible (see Condition no. 6). These roads will be removed after final mine closure (see below).

Processing of the ore is accomplished at the April Millsite where loads of blasted material are dumped into a primary crusher. From there the materials are conveyed to a secondary crusher, gyro units, dust collectors and screens. This process produces the limestone product for the cogeneration units and fines (waste material). PYCO A.C.E. has been attempting to identify a market for these fines which are currently placed into waste piles adjacent to the millsite.

Reclamation Plan No. 90-5/PYCO A.C.E.

The mining reclamation plan submitted to the Planning Commission for review is intended to satisfy by the requirements of Chapter 18.76, Land Reclamation, of the County Zoning Ordinance and SMARA.

The final mine closure will include the following site reclamation activities:

1. Slopes on all quarry faces and benches shall be stabilized by dragging to remove any loose material (see Condition 3).
2. All existing roads from the millsite to the quarries will be scarified with placement of berms where necessary to prevent erosion (see Condition 4).
3. Large boulders will be placed to restrict access to quarry benches and floors, and on rehabilitated roads (see Condition 5).

Final closure of the millsite will include the following site reclamation activities:

1. Remaining material/spoils piles will be covered with one and one-half feet (1 1/2') of medium rock to prevent wind and water erosion and to reduce aesthetic impacts on scenic resources (see Condition No. 6).
2. Water lines and storage tanks; crusher and conveyor units; trailers, buildings and all other structures associated with the mining and processing operations on the subject property will be removed (see Condition No. 7).
3. When the material/spoils piles are removed, all areas where the original surfaces are exposed will be scarified and revegetated with seeds from native plant species (see Condition No. 8).
4. The springs in Revenue Canyon which supply water for the operation will be returned to as near their pre-project condition as feasible (see Condition No. 9).

If this Reclamation Plan is approved, a surety bond or cash deposit in the amount of \$549,667.00 will be posted in favor of Inyo County and the State Geologist within ninety (90) days of approval of this Reclamation Plan as required by SMARA (see attached Reclamation Plan estimate Public Works concurrence of site reclamation costs).

Also as required by SMARA, this Reclamation Plan (if approved) will be reviewed for compliance by the Inyo County Planning Department on an annual basis. Based upon this review, the amount of the surety bond or cash deposit may be adjusted as deemed appropriate by the Planning Director.

Environmental Review

In accordance with the requirements of the California Environmental Quality Act (CEQA), and Initial Study was completed and a Draft Mitigated Negative Declaration of Environmental Impact, including a Mitigation Monitoring Program pursuant to Section 21081.6 of the Public Resources Code, was prepared and circulated. The comment period for the Mitigated Negative Declaration ended on March 15, 1991 and no comments were received. Therefore, staff is recommending the Mitigated Negative Declaration and Mitigation Monitoring Program be adopted for this project.

This is the first project reviewed by the Planning Commission which may have a measurable adverse impact on wildlife resources pursuant to Assembly Bill 3158 which was passed by the Legislature in 1990. If this project is approved, the applicant will be required to pay a fee of \$1250 at the time the Planning Department files a Notice of Determination in compliance with the California Environmental Quality Act (CEQA). Section 21809 (b)

of Public Resources Code provides that this project will not be "operative, vested of final" until the fee has been paid.

Public Notice

Notice of this public hearing has been posted, published and mailed to all property owners within 300 feet of the subject property. As of the date of this staff report, no comments on this proposal have been received.

RECOMMENDATION:

Staff recommends the Planning Commission approve Conditional Use Permit No. 90-8/PYCO A.C.E. and Reclamation Plan No. 90-5/PYCO A.C.E. by taking the following actions (two motions):

- I. Conditional Use Permit No. 90-8/PYCO A.C.E.
 - A. Based upon the Initial Study and comments received, adopt the Mitigated Negative Declaration of Environmental Impact and Mitigation Monitoring Program; thus certifying that the requirements of the California Environmental Quality Act and Section 21081.6 of Public Resources Code have been satisfied.
 - B. Find the mining and millsite operations are consistent with the "Open Space - Natural Resources" designation of the Inyo County General Plan; and the Conditional Use Permit is in compliance with the requirements of the OS-40 zone.
 - C. Find that existing public facilities and services are adequate for the needs of the proposed project.
 - D. Approve Conditional Use Permit No. 90-8/PYCO A.C.E. subject to the following conditions:
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 2. Any expansion of the area of mining activity, processing facilities or stockpile areas beyond that shown on the approved Plot Plans submitted with this application shall require an amendment to this conditional use permit and associated reclamation plan. Lowering of the elevations of the existing limestone quarries without any additional surface disturbance shall not be considered as an expansion of the area of mining activity.
 3. No sidecasting of limestone material, waste, or overburden shall be permitted in the area of mining activity or material/spoils piles. Use of overburden may be permitted in implementing the approved Reclamation

Plan.

4. The material/spoils piles shall be removed a minimum distance of twenty-five feet (25') from the dry wash in the southwest corner of the April 14 unpatented mining claim within ninety (90) days of approval of this Conditional Use Permit.
5. To ensure the sides of the open pits are not exposed to view from the floor of Panamint Valley, the existing elevations at the top of quarry faces adjacent to the downslope sides of the hill shall be maintained.
6. Only existing roads as depicted on the approved site plan shall be utilized as part of the mining and processing operation. Any maintenance or grading of these roads shall be performed in a manner to minimize the amount of sidecasting to the maximum extent feasible.
7. Inyo County shall reserve the right to periodically inspect the subject property to monitor compliance of the requirements of this Conditional Use Permit. The Planning Commission shall reserve ongoing jurisdiction over this Conditional Use Permit and may, based upon substantial evidence of violation of any of the conditions of approval, hold a public hearing to modify or revoke this Conditional Use Permit.

II. Reclamation Plan No. 90-5/PYCO A.C.E.

- A. Based upon the Initial Study and comments received, adopt the Mitigated Negative Declaration of Environmental Impact and Mitigation Monitoring Program; thus certifying that the requirements of the California Environmental Quality Act and Section 21081.6 of Public Resources Code have been satisfied.
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 2. A surety bond or cash deposit in the amount of \$549,667.00 shall be posted in favor of Inyo County, U.S. Bureau of Land Management the State Geologist

within ninety (90) days of approval of this Reclamation Plan to insure the project shall be fully reclaimed in accordance with the approved Reclamation Plan and the requirements of the Surface Mining Reclamation Act of 1975.

3. Slopes on all quarry faces and benches shall be stabilized in the limestone quarries by dragging to remove any loose material to the satisfaction of the Planning Director within six months of final mine closure. All final benches shall be left with 15 to 20 foot horizontal benches for every 20 to 40 feet of vertical slope.
4. Existing roads utilized as part of the mining and millsite operations shall be scarified and berms shall be constructed as needed on steep slopes to prevent erosion to the satisfaction of the Inyo County Planning Director within six months of final closure.
5. Boulders shall be placed to restrict access to quarry benches and floors, and on rehabilitated roads to the satisfaction of the Planning Director within six months of final closure.
6. Remaining material/spoils piles shall be covered with one and one-half feet (1 1/2') of medium rock to prevent wind and water erosion and to reduce aesthetic and impact on scenic resources, and to prevent fugitive dust, to the satisfaction of the Planning Director and Great Basin Unified Air Pollution Control District, within six months of final closure.
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ning Director.

11. The applicant and/or owner of the mining claims shall submit a notarized statement, acceptable in form to the Inyo County Counsel and Planning Director, accepting responsibility for reclaiming the subject property pursuant to the above conditions of approval within ninety (90) days from the date of final approval of this plan.

CST

attachments: Vicinity Map
Plot Plans (Figures 1 and 2)
Main Quarry Cross Section (Figure 3)
Public Works Department Reclamation Cost Estimate
Reclamation Plan



PLANNING COMMISSION

DRAWER L • INDEPENDENCE • CALIFORNIA 93526

(619) 878-2411 (Ext 2263)

County of
INYO

Z.M.W.

APR 26 1991

RECEIVED BY
Department of Conservation

OCT 07 1991

OFFICE OF MINE REPORTING AND
RECLAMATION COMPLIANCE **NOTICE OF DECISION**

April 24, 1991

Zenis M. Walley
PYCO A.C.E. Operations
12081 Mariposa Street
Post Office Box 66
Trona, California 93592

North American Chemical Company
Post Office Box 367
Trona, California 93592

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 - 4. Existing roads utilized as part of the mining and millsite operations shall be scarified and berms shall be constructed as needed on steep slopes to prevent erosion to the satisfaction of the Inyo County Planning Director within six months of final closure.
 - 5. Boulders shall be placed to restrict access to quarry benches and floors, and on rehabilitated roads to the satisfaction of the Planning Director within six months of final closure.
 - 6. Remaining material/spoils piles shall be covered with one and one-half feet (1 1/2') of medium rock to prevent wind and water erosion and to reduce aesthetic and impact on scenic resources, and to prevent fugitive

dust, to the satisfaction of the Planning Director and Great Basin Unified Air Pollution Control District, within six months of final closure.

7. Water lines and storage tanks; crusher and conveyor units; trailers, buildings and all other structures associated with the mining and processing operations on the subject property shall be removed within six months of final closure.
8. Areas where material/waste piles have been removed at final closure, and original land surfaces are exposed, shall be scarified and revegetated with seeds from native plant species within six months of final closure.
9. Springs utilized for water supply for the mining and processing operations shall be restored to as near their pre-project condition as feasible and to the satisfaction of the Planning Director. Restoration shall be completed within six months of final closure.
10. This Reclamation Plan shall be reviewed for compliance with these conditions of approval by the Inyo County Planning Department on an annual basis. Based upon this review, the amount of the financial assurances may be adjusted by the as deemed appropriate by the Planning Director.
11. The mining operator and/or owner of the mining claims shall submit a notarized statement, acceptable in form to the Inyo County Counsel and Planning Director, accepting responsibility for reclaiming the subject property pursuant to the above conditions of approval within ninety (90) days from the date of final approval of this plan.

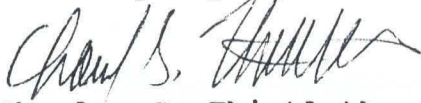
Any interested person may appeal this decision of the Planning Commission, or and condition of approval, to the Board of Supervisors within fifteen (15) days of the date of this notice, pursuant to Section 18.81.270 of the Inyo County Zoning Ordinance.

If this decision is not appealed, the approval will become effective at the end of the appeal period. In compliance with the California Environmental Quality Act, a Notice of Determination must be filed within five (5) days of the date the decision becomes effective. Public Resources Code provides a \$1,250 fee must be paid by the project applicant to the Inyo County Clerk at the time the Notice is filed. Section 21809 (b) of Public Resources Code provides that this approval will not be "operative, vested or final" until the fee has been paid.

Please do not hesitate to contact this office if you have any questions.

Sincerely,

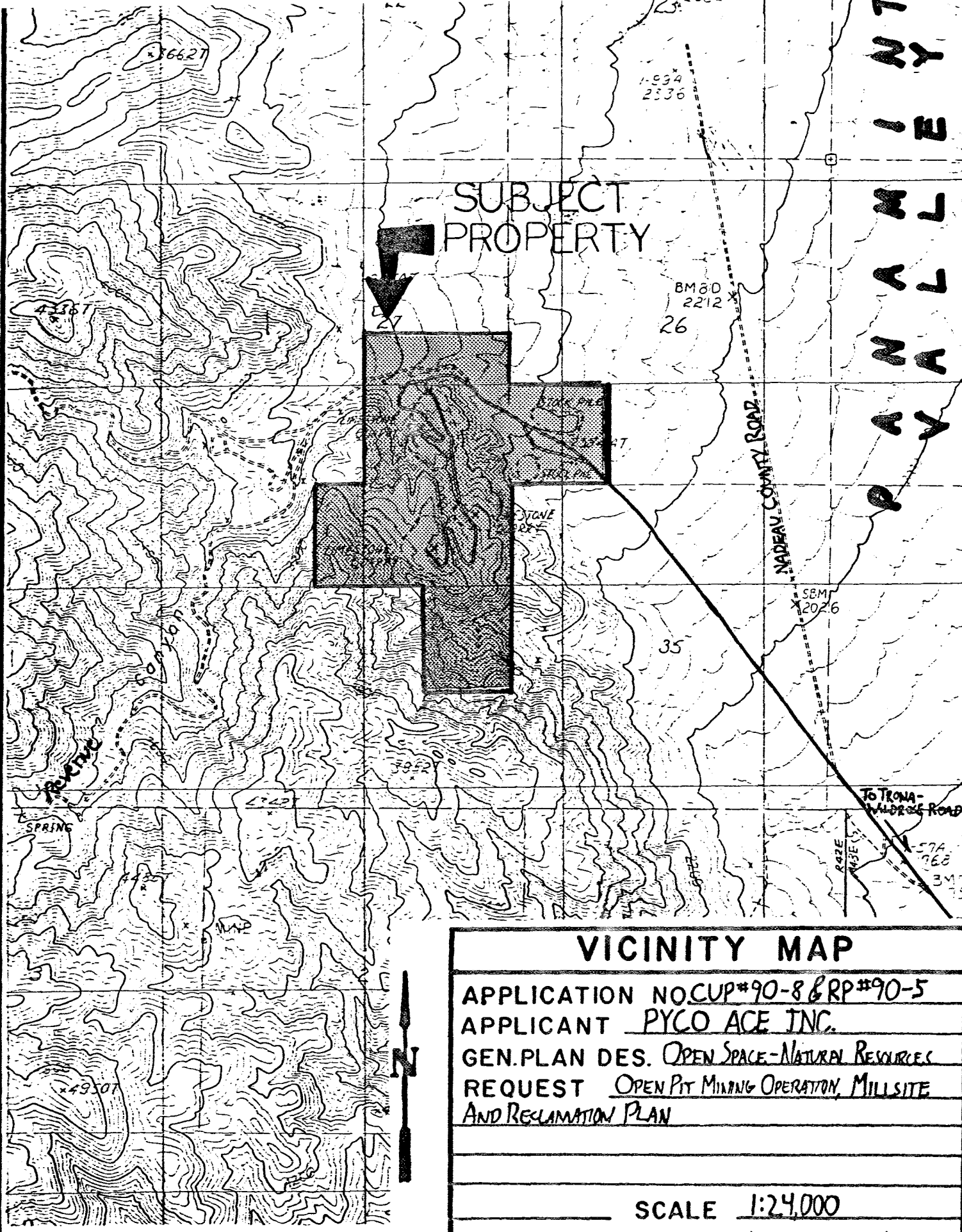
Roger De Hart
Planning Department



Charles S. Thistlethwaite, AICP
Associate Planner

cc: Paul Payne, Fifth District Supervisor
Public Works Department (Independence)
Dave Taylor, Bureau of Land Management (Ridgecrest)
Jim Pompey, Division of Mines and Geology (Sacramento -
Bercut)
Bill Gatlin, Tom Dodson & Associates

PAYANALMINT



SUBJECT PROPERTY



1.934
2536

BM 80
2212
26

NADIEAU COUNTY ROAD

SEM
2026

35

TO TRONA-
VALDRE ROAD

R42E
R43E

576
568
34

VICINITY MAP

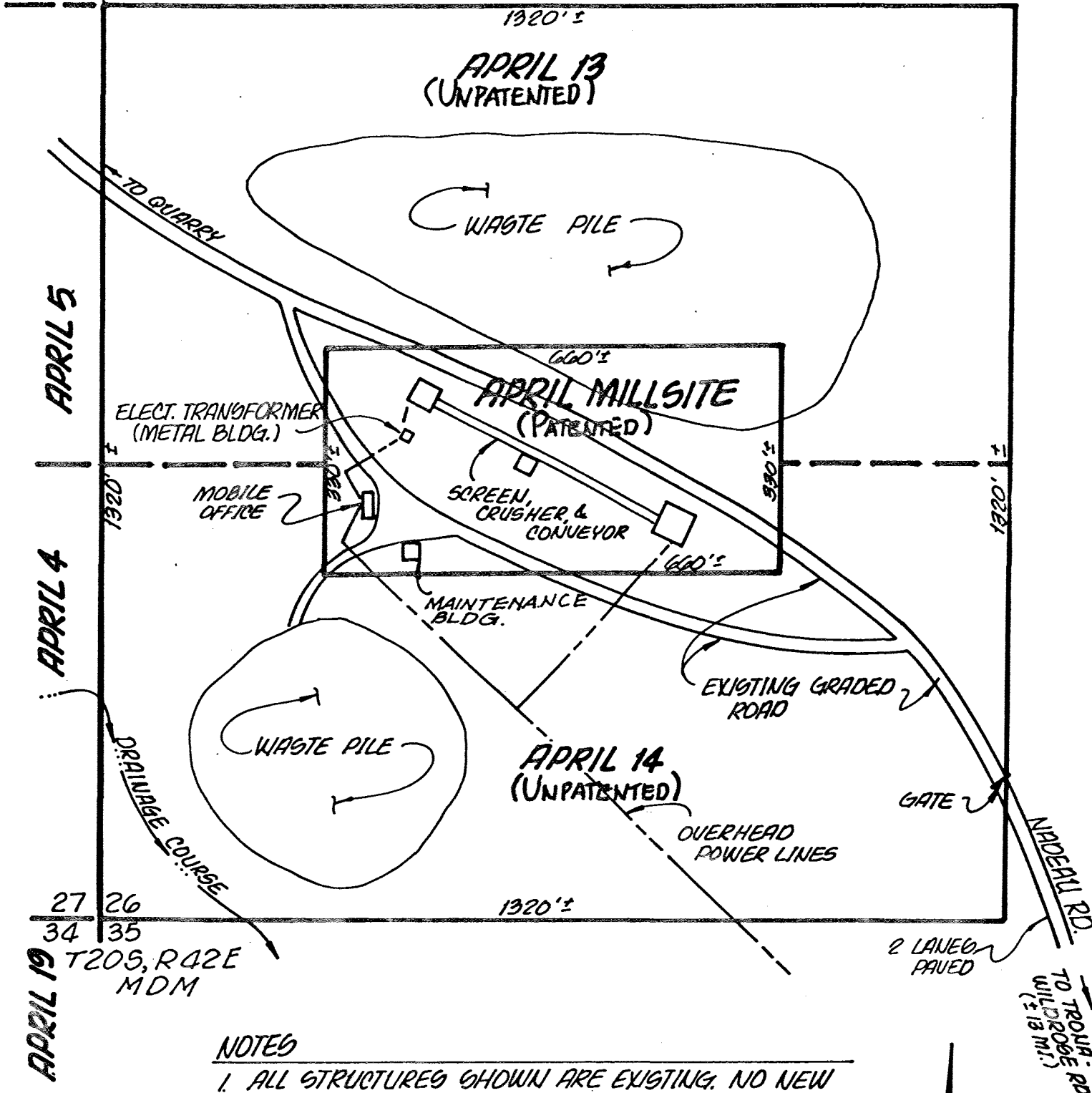
APPLICATION NO CUP#90-8 & RP#90-5
 APPLICANT PYCO ACE INC.
 GEN. PLAN DES. OPEN SPACE-NATURAL RESOURCES
 REQUEST OPEN PIT MINING OPERATION, MILLSITE
 AND RECLAMATION PLAN

SCALE 1:24,000

PLOT PLAN

OCTOBER 1990

MILLSITE AND MATERIALS/SPOILS PILES



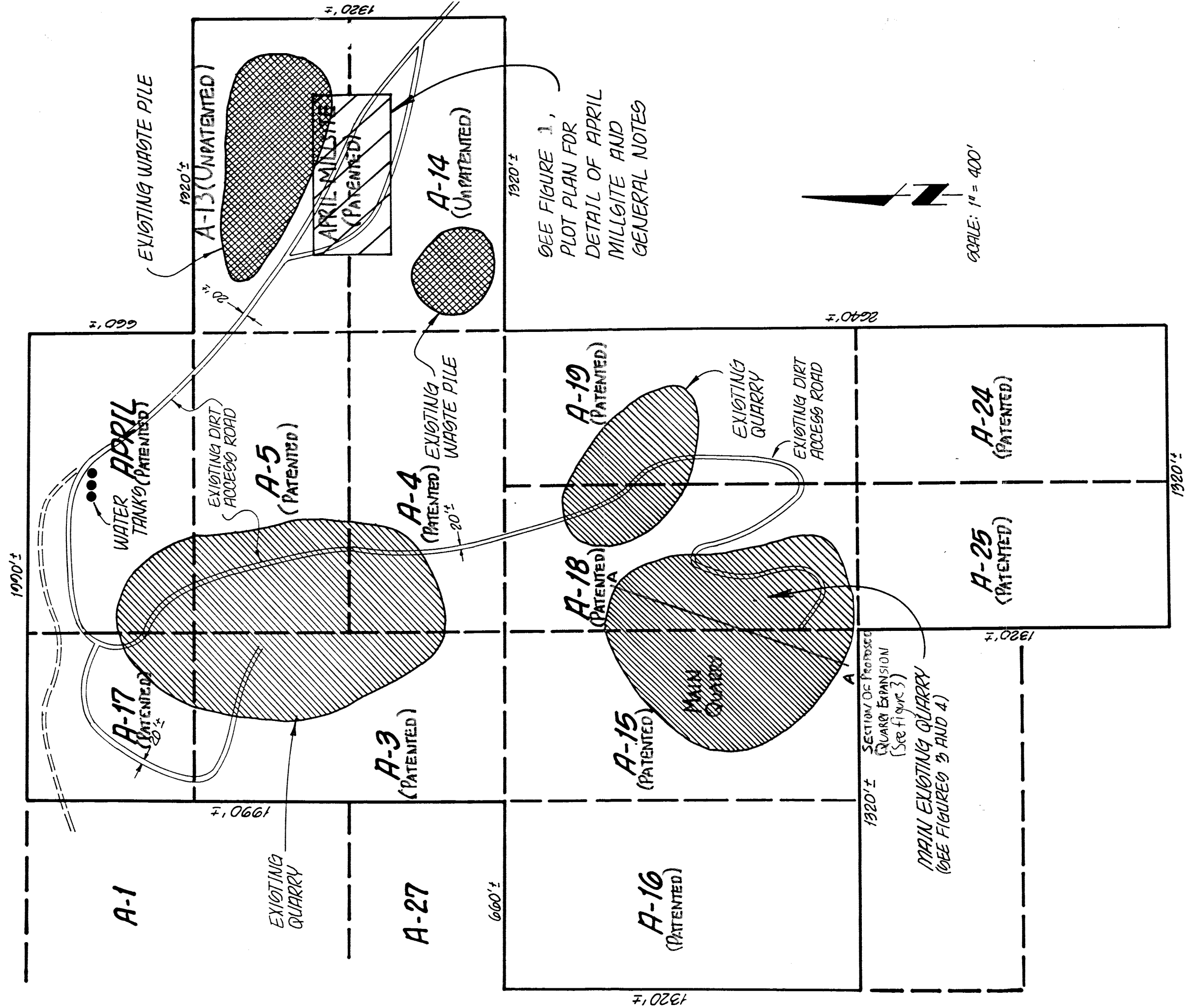
NOTES

1. ALL STRUCTURES SHOWN ARE EXISTING. NO NEW STRUCTURES ARE PROPOSED.
2. NO EASEMENTS EXIST ON THIS SITE.
3. THE SITE IS NOT WITHIN A FLOODWAY.
4. NO STRUCTURE EXISTS ON ADJACENT PROPERTY WITHIN 10' OF COMMON PROPERTY LINES.

FIGURE 1

SCALE: 1" = 200'





SEE FIGURE 1,
 PLOT PLAN FOR
 DETAIL OF APRIL
 MILLSITE AND
 GENERAL NOTES



SCALE: 1" = 400'

PLOT PLAN

OCTOBER, 1990

FIGURE 2

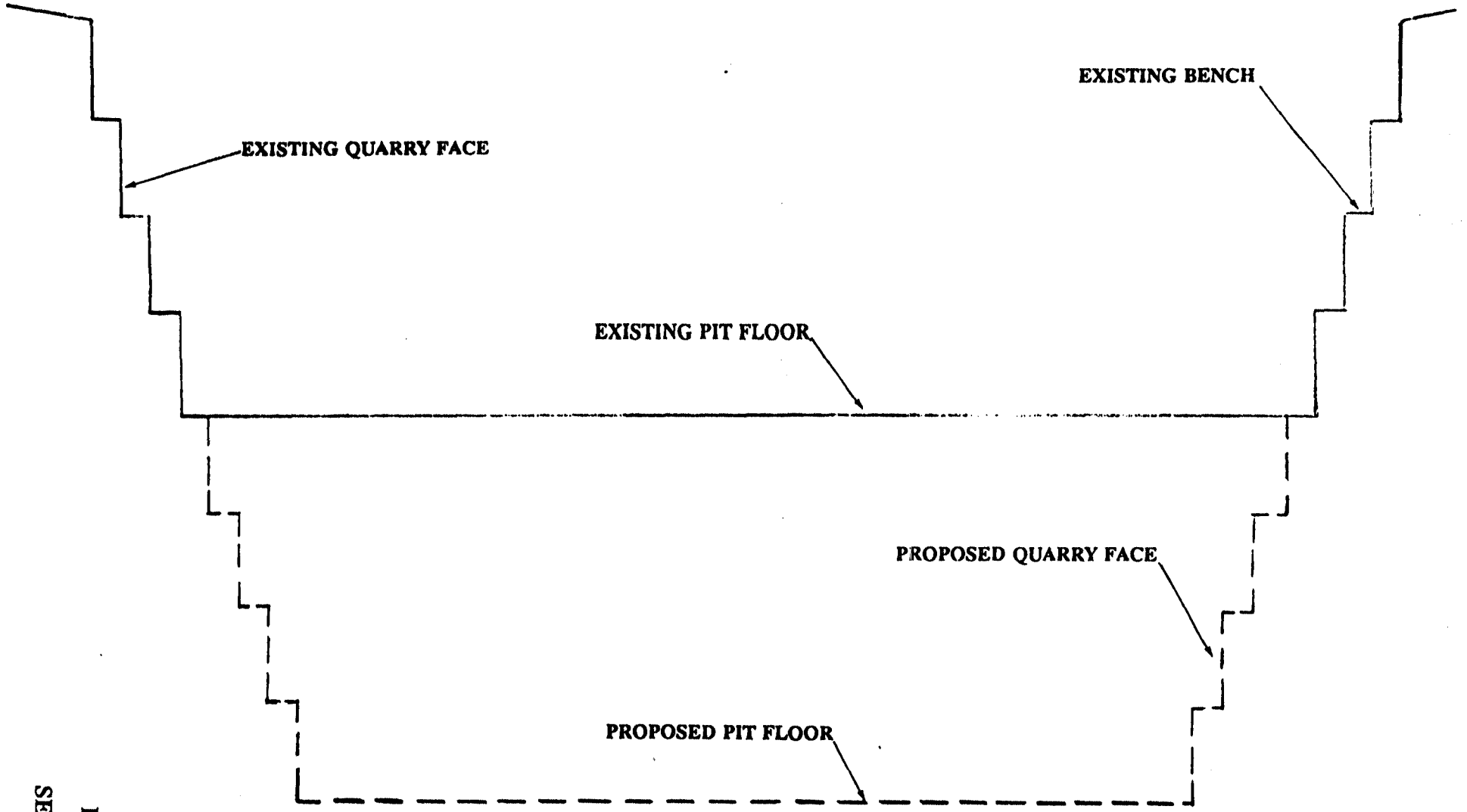


FIGURE 3

SECTION A-A

SCALE

Horizontal 1" = 100'
Vertical 1" = 30'



JAMES H. GOOCH
Director

DEPARTMENT OF PUBLIC WORKS

DRAWER Q

INDEPENDENCE, CALIFORNIA 93526
(619) 878-2411

County of
INYO

MEMORANDUM

TO: ROGER DEHART, PLANNING DIRECTOR
FROM: BART GODETT, ASSISTANT ENGINEER
DATE: DECEMBER 18, 1990
RE: AMERICAN CHEMICAL CORPORATION/PYCO A.C. RECLAMATION

The attached estimate is a fairly accurate determination of what would be required to reclaim the above mentioned site as discussed on our site visit December 10, 1990 and pow wow on December 14, 1990. Modifications can easily be made as new reclamation ideas arise.

12/18/90
BAG

AMERICAN CHEMICAL CORPORATION
PYCO A.C. RECLAMATION

Prepared by: Bart Godett, Assistant Engineer

Date: December 18, 1990

SITE ACTIVITIES	HOURS	COST PER HR.	TOTAL COST
1. Remove water lines			
operator with loader	10	67.39	674.00
labor with torch	24	28.57	686.00
teamster with flatbed	8	44.28	354.00
			<u>\$1,714.00</u>
2. Disassemble and haul crusher units, conveyers, trailer, metal building, water tank, and dig out lower conveyer.			
2 laborers with torch	320	28.57	9142.00
2 laborers	320	24.57	7862.00
operator with 50T crane	160	99.39	15902.00
teamster with low boy	160	47.28	7565.00
teamster with flatbed	160	44.28	7085.00
operator with D-8	24	124.37	2985.00
			<u>\$50,541.00</u>
3. Remove over burden from natural drainage wash.			
operator with excavator	32	84.39	2700.00
2 teamster with end dump	64	51.28	3282.00
			<u>\$5,982.00</u>
4. Rip road and water bars			
operator with D-8	16	124.37	\$1,990.00

5. Cover 20 acre with 1 1/2 foot of medium rock 65,500 tons.

Blast 45,000 cy	per cy	3.39	\$152,550.00
-----------------	--------	------	--------------

6. 3267 truck loads at 20 trucks per day

2 teamster with end dumps	2624	51.28	134,559.00
2 operators with loaders	2624	67.39	176,831.00

\$311,390.00

R E C A P

1.	1,714.00
2.	50,541.00
3.	5,982.00
4.	1,990.00
5.	152,550.00
6.	311,390.00
TOTAL	<u>\$524,167.00</u>

10. ACCESS:

Briefly describe existing access route to the operation site. Describe any proposed new access roads to be constructed.

From the intersection of Trona-Wildrose Road and Nadeau Road, take Nadeau north approximately twelve (12) miles to the quarry site. Both of these roads are existing paved, two-lane roadways.

11. GEOLOGY:

Briefly describe the geologic setting of the area with a more detailed geologic description of the mineral deposit to be mined and principle minerals or rock types present.

Refer to Attachment MRP-2

12. ENVIRONMENT:

Brief description of environmental setting of the site and the surrounding areas. Describe existing area land use, soil, vegetation, ground water elevation and surface water characteristics, average annual rainfall and/or other factors pertaining to environmental impacts and their mitigation and reclamation.

The site is located in the eastern foothills of the Argus Range. The topography consists of granitic mountains, valleys, and alluvium. Ground surface is generally barren rock with minimal eroded/deposited soil. Vegetation is typical desert community, i.e., Creosote Bush and Saltbush. Ground water elevation is approximately 1,000 feet from mean sea level. Water quality is brackish. Average annual rainfall is approximately 3 inches. Stream flow is annual.

The site covered by this plan contains an existing quarry and processing facility and has been disturbed by past mining activities. The area surrounding the site is primarily undisturbed open space.

No areas not already disturbed by past mining activities will be disturbed by this project.

13. MINING OPERATION:

- A. Minerals to be mined: Limestone
- B. Proposed starting date of operation: Quarry 1995 (Waste pile removal starts 1990)
- C. Estimated life of mine: 15-50 years depending on extraction rate
- D. Operation is Continuous X, Seasonal or Intermittent .
- E. Mining is at a new site , Curently in operation or an Inactive mine X.
- F. Estimated number of employees 8. Number of shifts 1.
- G. Type of housing (if any) None

14. ESTIMATED PRODUCTION:

Under 2,500 tons/yr. _____	Mineral commodities to be removed <u>700,000</u> tons.
2,500 - 5,000 tons/yr. _____	Waste retained on the site <u>7,000*</u> tons.
5,000 - 50,000 tons/yr. <u>X</u>	Waste disposed off site <u>*</u> tons.
50,000 - 250,000 tons/yr. _____	Max. anticipated depth of mine <u>150</u> feet.
250,000 - 1,000,000 tons/yr. _____	
Over 1,000,000 tons/yr. _____	

15. MINING METHOD:

Open Pit <u>X</u>	Shovel _____	Slurry Line _____
Borrow Pit _____	Dragline _____	Tailings Pond _____
Gravel/Sand Pit _____	Single Bench _____	Waste Dump <u>X (fines)</u>
Clay Pit _____	Multibench <u>X</u>	On-site Processing <u>X</u>
Hill Top _____	Underground _____	Truck to Processing _____
Side Hill _____	Drill and Blast <u>X</u>	

16. PROCESSING:

If processing (or crushing) of the ores or minerals mined is planned to be conducted at or adjacent to the site, briefly describe the nature of the processing and explain disposal method of the tailings or waste from processing. The quarry site will be drilled and blasted once per year; this will generate approximately 100,000 cubic yards of mineral for mining. A loader will transfer loads to a haul truck which will dump its load into the primary crusher (jaw). From there the minerals will be conveyed to a secondary crusher (gyro), then to a dust collector and screen. This process will produce recyclables, fines and limestone product.

At this time it is anticipated that waste material generated by the operation will not be left onsite, except possibly for some fine material, if a market for the fines is not identified. Waste material presently stored onsite will be transported to Trona for use at the ACE Plant. This material contains limestone of adequate quality for use in the fluidized

17. WATER:

(continued at bottom of page - -)

Estimate quantity (gallons per day) of water required by the proposed operation, specifying proposed sources of this water, of method of its conveyance to this property and the quantity and quality and method of disposal of used and/or surplus water.

The sources of water for the site are three springs in Revenue Canyon. The method of conveyance is by steel pipe to three storage tanks. The total quantity of water available to the site is 4,400 GPD. This water will be used in processing, at the office trailer and at the maintenance shop. Sanitary facilities will be on a septic system.

16. PROCESSING (Continued from above)

combustion process to reduce sulphur dioxide emissions from that facility. Any waste material remaining onsite at closure of this facility will be hauled back to the existing pits for disposal. See MRP 3, Reclamation Plan for details.

18. SITE PLAN:

Attach a map of the mined lands and/or suitable aerial photograph showing:

- a. Boundaries and topographic details of the site;
- b. Location of all streams, roads, railroads, water wells, and utility facilities within 500 feet of the site;
- c. Location of all currently proposed access roads to be constructed in conducting the mining operation(s).
- d. Location of areas (to be) mined, and of waste dumps and tailings ponds.
- e. By use of overlay symbol or color, depiction of separate mining phases if applicable.
- f. The source of map base, orientation (North arrow), and scale (e.g., 1"=500', etc.) of the map.

(SEE FIGURES 2, 2a & 2b)

19. Reclamation Plan:

Describe the methods, their sequence and timing, to be used during implementation of the reclamation plan. Indicate on the site plan (Item 18) or on diagrams as necessary. Include a discussion of the pertinent items listed below:

- a. Backfilling and grading.
- b. Stabilization of slopes.
- c. Stabilization of permanent waste dumps, tailings, etc.
- d. Rehabilitation of pre-mining drainage.
- e. Removal, disposal, or utilization of residual equipment, structures, refuse, etc.
- f. Control of contaminants, especially with regard to surface runoff and ground water.
- g. Treatment of streambeds and streambanks to control erosion and sedimentation.
- h. Removal or minimization of residual hazards (tunnels, shafts, etc.)
- i. Resoiling, revegetation with evidence that selected plants can survive given the site's topography, soil and climate.

(SEE MRP 3)

20. FUTURE USES:

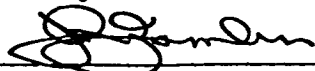
Describe the ultimate physical condition of the site and specify proposed use(s), or potential uses, of the mined lands as reclaimed. Also describe how reclamation of this site in the proposed manner may affect future mining at this site and in the surrounding area.

(SEE MRP 3)

21. CERTIFICATION:

I hereby certify that the above information is correct to the best of my knowledge.

Signed



Date

4/4/91

ATTACHMENT MRP-1

KMCC PATENTED LAND

<u>CLAIM NAME</u>	<u>PATENT NO.</u>	<u>RECORDED</u>	<u>SURVEY NO.</u>	<u>SEC</u>	<u>TWNP</u>	<u>RNGE</u>	<u>MER</u>
APRIL MILLSITE	1231750	Book 157, page 491	6685	27	20S	42E	MDM
APRIL NO. 3	1233537	Book 160, page 306	6589	27	20S	42E	MDM
APRIL NO. 4	1233537	Book 160, page 306	6589	27	20S	42E	MDM
APRIL NO. 5	1233537	Book 160, page 306	6589	27	20S	42E	MDM
APRIL	1233537	Book 160, page 306	6589	27	20S	42E	MDM
APRIL NO. 15	1233383	Book 160, page 87	6598	34	20S	42E	MDM
APRIL NO. 16	1233383	Book 160, page 87	6598	34	20S	42E	MDM
APRIL NO. 17	1231719	Book 157, page 478	6604	27	20S	42E	MDM
APRIL NO. 18	1233384	Book 160, page 99	6669	34	20S	42E	MDM
APRIL NO. 19	1233384	Book 160, page 99	6669	34	20S	42E	MDM
APRIL NO. 24	1233384	Book 160, page 99	6669	34	20S	42E	MDM
APRIL NO. 25	1233384	Book 160, page 99	6669	34	20S	42E	MDM

Containing 225 acres

ATTACHMENT MRP-1
CLAIMS HELD

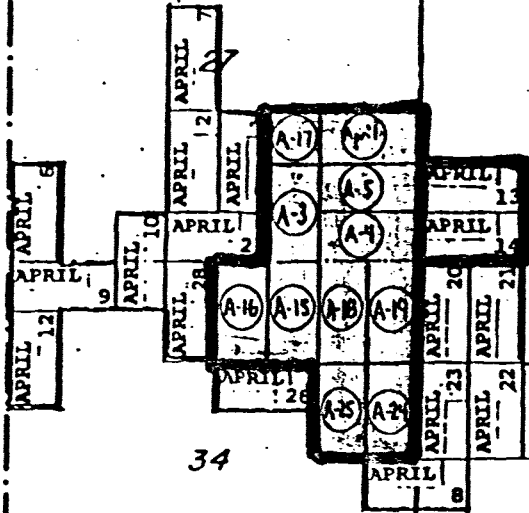
NAME OF CLAIM	SEC.	TWP.	RNGE.	MER.	VOL.	BOOK	RECORDING DATA	
							PAGE	BLM SERIAL NUMBER
DOLOHITE	35	20S.	42E.	MDM	75	Min.Rec.	13	CA MC 23090
LIMESTONE	18	21S.	43E.	MDM	75	Min.Rec.	22	CA MC 23104
LIMESTONE #1	18	21S.	43E.	MDM	75	Min.Rec.	24	CA MC 23091
LIMESTONE #2	18	21S.	43E.	MDM	75	Min.Rec.	26	CA MC 23092
LIMESTONE #3	18	21S.	43E.	MDM	75	Min.Rec.	28	CA MC 23093
LIMESTONE #8	13	21S.	42E.	MDM	75	Min.Rec.	30	CA MC 23094
LIMESTONE #9	13	21S.	42E.	MDM	75	Min.Rec.	32	CA MC 23095
LIMESTONE #10	18	21S.	43E.	MDM	75	Min.Rec.	34	CA MC 23096
LIMESTONE #13	18	21S.	43E.	MDM	75	Min.Rec.	36	CA MC 23097
LIMESTONE #14	13	21S.	42E.	MDM	75	Min.Rec.	38	CA MC 23098
LIMESTONE #15	13	21S.	42E.	MDM	75	Min.Rec.	39	CA MC 23099
LIMESTONE #16	13	21S.	42E.	MDM	75	Min.Rec.	40	CA MC 23100
LIMESTONE #17	12	21S.	42E.	MDM	75	Min.Rec.	41	CA MC 23101
LIMESTONE #18	12	21S.	42E.	MDM	75	Min.Rec.	42	CA MC 23102
LIMESTONE #19	12	21S.	42E.	MDM	75	Min.Rec.	43	CA MC 23103
APRIL #1	27	20S.	42E.	MDM	75	Min.Rec.	15	CA MC 23068
APRIL #2	27	20S.	42E.	MDM	75	Min.Rec.	16	CA MC 23069
APRIL #6	27	20S.	42E.	MDM	75	Min.Rec.	20	CA MC 23070
APRIL #7	27	20S.	42E.	MDM	75	Min.Rec.	21	CA MC 23071
APRIL #8	34,35	20S.	42E.	MDM	81	Min.Rec.	271	CA MC 23072
APRIL #9	34	20S.	42E.	MDM	81	Min.Rec.	272	CA MC 23073
APRIL #10	27,34	20S.	42E.	MDM	81	Min.Rec.	273	CA MC 23074
APRIL #12	34	20S.	42E.	MDM	81	Min.Rec.	274	CA MC 23075
APRIL #13	26	20S.	42E.	MDM	80	Min.Rec.	131	CA MC 23076
APRIL #13 (amended)	26	20S.	42E.	MDM	93	Min.Rec.	507	
APRIL #14	26	20S.	42E.	MDM	80	Min.Rec.	132	CA MC 23077
APRIL #14 (amended)	26	20S.	42E.	MDM	96	Min.Rec.	9	
APRIL #20	35	20S.	42E.	MDM	92	Min.Rec.	181	CA MC 23078
APRIL #21	35	20S.	42E.	MDM	92	Min.Rec.	182	CA MC 23079
APRIL #22	35	20S.	42E.	MDM	92	Min.Rec.	183	CA MC 23080
APRIL #23	35	20S.	42E.	MDM	92	Min.Rec.	184	CA MC 23081
APRIL #26	34	20S.	42E.	MDM	119	Min.Rec.	897	CA MC 23082
APRIL #27	27	20S.	42E.	MDM	119	Min.Rec.	898	CA MC 23083
APRIL #28	34	20S.	42E.	MDM	119	Min.Rec.	899	CA MC 23084
VIRGINIA	(7 12)	21S. 21S.	43E. 42E.	MDM	72	Min.Rec.	608	CA MC 23089
VIRGINIA (amended)	(7 12)	21S. 21S.	43E. 42E.	MDM	75	Min.Rec.	405	
VIRGINIA #1	(7 12)	21S. 21S.	43E. 42E.	MDM	72	Min.Rec.	610	CA MC 23085
VIRGINIA #1 (amended)	(7 12)	21S. 21S.	43E. 42E.	MDM	75	Min.Rec.	407	
VIRGINIA #2	1	21S.	42E.	MDM	72	Min.Rec.	612	CA MC 23086
VIRGINIA #2 (amended)	1	21S.	42E.	MDM	75	Min.Rec.	409	
VIRGINIA #4	35	20S.	42E.	MDM	75	Min.Rec.	45	CA MC 23087
VIRGINIA #5	1	21S.	42E.	MDM	75	Min.Rec.	46	CA MC 23088

87 4325

ATTACHMENT MRP-1a

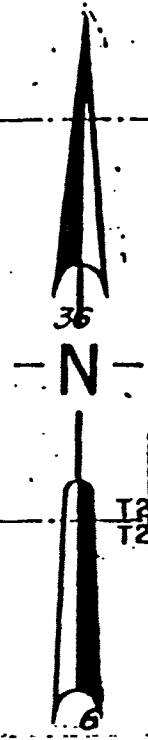
26

25



34

35



SCALE: 1 in = 2000 ft

(A-3) PATENTED LAND

SUBJECT PROPERTY

VIRGINIA 5

VIRGINIA 2

VIRGINIA 1

LIME STONE 19

LIME STONE 18

LIME STONE 17

LIME STONE 16

LIME STONE 15

LIME STONE 14

VIRGINIA

LIME STONE 10

LIME STONE 11

LIME STONE 12

LIME STONE 13

LIME STONE 14

LIME STONE 15

LIME STONE 16

LIME STONE 17

LIME STONE 18

LIME STONE 19

R42E
R43E

APRIL ET AL GROUPS
KERR-McGEE CHEMICAL CORPORATION

SEC'S. 26, 27, 34 & 35 of Twp. 20 S.,
Rge. 42 E., SEC'S. 1 & 12 of Twp. 21 S
Rge. 42 E., SEC'S. 7 & 18 of
Twp. 21 S., Rge. 43 E., M.D.M.
INYO COUNTY, CALIFORNIA

13

18

GEOLOGY

The quarry area consists of limestone, dolomite, and other carbonate rocks, of the late Paleozoic Era, possibly Mississippian Period. Limestone is the most abundant type of rock in the area. The original texture was probably fine-grained or sugary. Later, solutions were introduced into the area which dissolved the original rocks. As the solutions retreated, the rocks recrystallized in a coarse to very coarse crystal texture. The solutions were, most likely, the source of impurities which are now found in the rocks.

Rocks in the quarry area have been folded and crumpled by severe compressional forces in the east-west direction. The long axes of the folds generally run north-south. Also, many small scale faults that trend in various directions have broken the rocks. Typically the fault planes are steep, but a few dip less than 75°. Fault displacements, in the quarry area, are small, most less than 10 feet.

Shattered and broken rock, or breccia zones, are sporadically distributed throughout the area. These zones are significant because they channeled and concentrated mineralizing solutions into the limestone. As the solutions flow past pure limestone, impurities such as Magnesium and Silica are introduced to the rock. These impurities contaminated the pure limestone.

A number of igneous dikes of various color are cut through the limestone in the quarry area. The dikes consist of igneous rock of intermediate composition, probably in the latite range. Since this material is high in silica content, about 60 percent, it must be excluded from the limestone.

Patches of caliche, locally cover the limestone in various parts of the quarry. Although some caliche contains opaline silica, most of it is within the usable range of quarry rock.

The impurities within the limestone seem to be unrelated to color changes or any other easily discernible feature. The only accurate means of distinguishing between quarry grade limestone and waste rock is by laboratory testing of exploration drill hole samples.

Approximately 1.2 million cubic yards (1.6 million tons) of limestone have been removed from the quarry since it first opened in 1956. A mineable reserve of 7.4 million cubic yards (9.5 million tons) of limestone exists above the 2900 foot elevation (W. E. Kolb 8/11/81).

MRP 3

19. RECLAMATION PLAN

The project site is an existing limestone quarry that has been in operation over 20 years. The main existing quarry is located within the April 15 and 18 patented mining claims in Section 34, T20 S. 42 E. MDM (see Figures 1, 2, 2A & 2B). The existing processing facilities are located within the patented April Millsite claim and the storage/waste piles are located within the unpatented April 13 and 14 claims and the patented April Millsite in Section 26, T20S, R42E MDM (see Figures 1, 2, 2A & 2B).

This quarrying activity has occurred in the foothills of the Argus Range about 1700 feet above the Panamint Valley floor. Past mining operations have consisted of blasting in the limestone deposits to loosen the material. This loosened material is then hauled from the quarry to the processing plant where it is crushed and screened for transport to market (see Figure 2).

The mining operation has created a main pit that encompasses a surface area of about 15 acres with an average depth of about 80 feet. Excavation of the pit has created about 15-20 feet high near vertical walls separated by 15-20 feet wide benches (see Figures 3 & 4). The overall slope of the quarry is about 45 degrees or 1 horizontal to 1 vertical (1:1). This overall slope is generally considered stable in hard rock mining operations and used extensively throughout the industry.

Future quarrying activities will continue this method of mining to a depth of about 160 feet. At that time, the pit will either be closed or a revised Mining/Reclamation Plan will be prepared. Based on the anticipated volume of remaining material at this quarry (about 700,000 tons) and the projected production rate (5,000 to 50,000 tons per year), it is projected that mining activities will last from 15 to 50 years, depending on annual production rates.

Past and proposed future mining activities at this site involve the excavation of material from the top of a hill downward into the pit. This method of mining has created an open pit within the hill and does not disturb hillsides which drain to natural drainage courses. No significant drainage courses are located within the quarry or the processing site and storage/waste piles. Precipitation falling on the remainder of the quarry site flows over the undisturbed hillsides to natural drainage courses. Because the hillsides contributing water to the adjacent stream canyons are not disturbed, the potential for project-related erosion or sedimentation of adjoining drainage courses is considered minimal.

The existing processing site and storage/waste piles are located at the foot of the Argus Range on alluvium above existing drainage courses (see Figures 2 & 5). Material at these waste piles consists of limestone of varying quality left over from the processing activities. The location of these piles has and will not pose a significant threat to sedimentation of adjacent natural drainage channels. Material at the pile located northerly of the processing

facility will be removed and used at the ACE Cogeneration Plant in Trona. This activity is consistent with a Plan of Operation recently approved by the BLM (CAMC-23076-77).

A second material/waste pile located southerly of the processing plant contains limestone fines from the onsite processing operation (see Figure 5). At this time, the operator is attempting to establish a market for these fines to facilitate their removal.

Both piles have been established with slopes at an angle of repose of about 30 degrees (about 2:1). This agrees favorably with data in the California Division of Mines and Geology's Special Publication No. 51 which identifies a maximum angle of repose for loose cohesionless material at between 33 to 37 degrees or about 1 1/2:1. It is anticipated by the operator that most waste material will be removed from the site at closure of the facility. If material does remain, it will be hauled back to the pits and deposited on the quarry floor. This material will be compacted and covered with larger rock to provide stability and prevent significant wind erosion. Because of its location in the bottom of the pit, water erosion of this material will not be an issue. At this time, it is not possible to identify the volume of waste material which will be returned to the pits at closure of the facility. It is the intent of the operators to use all the material from the site at the ACE Plant or other locations. Should this not be possible, then the remaining wastes will be disposed of at the pits onsite.

Stabilization of the quarry will be an ongoing operation. At the completion of mining activities on each face, loose material will be dragged down and the faces left in a stable condition to reduce the risk of falling rock. The benches constructed between the faces will be used to collect any falling material and to provide access to the faces for maintenance.

The quarry site is a foothill of the Argus Range composed primarily of limestone. As such, the site contained virtually no overburden or top soil. That which did exist has been removed by the past mining activities. No soil left

The land immediately surrounding the quarry is comprised of rocky hillsides and stream canyons which have virtually no topsoil and, therefore, almost no vegetation (see Figure 4). Due to the lack of topsoil onsite or in the immediate vicinity, no topsoil will be spread at the completion of mining activities.

Because the quarry will consist of exposed rock with very little fine material, revegetation of the pit will not be attempted. The presence of rock and virtually no topsoil on the surrounding hillsides along with the minimal amount of rainfall (about 3 inches per year) have contributed to the sparse vegetation found in the area.

As previously stated, the storage/waste piles and processing facilities are located in alluvium on the valley floor which supports a higher quality of biotic resources. At closure of this facility, all equipment and structures will be removed from the site and disposed of properly. All areas where native material is exposed after the removal of wastes, equipment and structures will be scarified and revegetated with seeds from native plant species.

The areas presently used for material/waste storage occupy about 20 acres. These storage areas will be used throughout the life of this project (between 15 and 50 years). Reclamation of the material/waste piles will be ongoing as material is transported for use at the ACE Plant. Final reclamation of these material/waste storage areas will not be completed until closure of the facility. At that time, the remaining material will either be transported from the site for marketable uses or hauled back to the pits for disposal.

Prior to closure of this facility, the owner shall submit a Revegetation Plan to the County of Inyo for approval. This Plan shall address the feasibility of revegetating the site and, if feasible, the methods of soil preparation, types of seed, application methods and rates and methods of monitoring and ensuring the success of the revegetation program. The owner shall implement that Revegetation Plan within one year after closure of this facility if revegetation is deemed feasible at the site.

Two other quarrying operations were conducted at this general site. These quarries are located northerly of the main quarry and occupy a total area of about 25 acres. These quarries occur in the April 18 and 19 patented claims and within the April and April 3, 4, 5, and 17 patented claims (see Figure 2). Mining activities at these other quarries have resulted in the extraction of limestone from the slopes of the hillside containing the main quarry, but at a lower elevation. These quarries contain poorer quality limestone and therefore have been mined less extensively. While the quarries occupy a larger surface area, the pit faces only range from about 15 to 40 feet in height (see Figure 6).

Mining activities at these quarries have been performed in a similar manner to those at the main quarry. Material was loosened by blasting the hard rock which resulted in material small enough for transport to the processing facility. This activity created near vertical pit faces about 20 feet in height which were separated by benches about 20 feet wide. These quarries faces have remained stable with little fallen material present on the benches.

At this time, it is not anticipated that a significant amount of additional material will be removed from these quarries because of the poorer quality of the limestone. Should additional material be extracted, mining will occur in a manner similar to past activities. Fifteen to 20 feet high faces separated by 15 to 20 feet wide benches will be constructed. Loose material will be dragged from the faces to ensure their stability.

Prior to the closure of these quarries, access to the pit floors and benches will be restricted by the placement of large boulders at access points. Additionally, warning signs, which identify the presence of the quarries will be placed at points accessible to the trespassing public. Large boulders will also be placed at intervals along the haul roads to discourage vehicular usage of these roads. Additionally, the roadways will be cross-rippled and water bars constructed to reduce the potential for water erosion to a level of non-significance.

This mining operation is located in a remote area of the Panamint Valley. The closest travelled through road is Trona-Wildrose Road which is about 5 miles easterly and about 2,000 feet below the quarry (see Figure 1). This separation, both horizontal and vertical restricts the visibility of the quarries to the general public (see Figure 7). The existing

storage/waste piles are white and can be seen from various places along the highway. Because of the distance between the highway and the storage/waste piles and their location at the foot of the mountain side, they are not the predominate view, but rather part of the background. At this time, these piles are scheduled to be removed (POO CAMC-23076-77) during operation of this facility and at closure of the site.

In summary, reclamation of the site will include the following:

1. Ongoing removal of material stored onsite for use at the ACE Plant;
2. Stabilization of all quarry faces, benches and remaining waste pile slopes;
3. The removal of all structures and equipment from the site;
4. The scarification and, where feasible, revegetation of exposed native soil at the material/waste storage areas and processing facilities. This will be accomplished in a manner consistent with a Revegetation Plan approved by the County of Inyo;
5. The use of large boulders to restrict access to the quarry benches and floors and along haul roads to discourage access;
6. The cross-ripping and construction of water bars on roadways to mitigate potential water erosion impacts to a level of non-significance;
7. The placing of warning signs at access points to the quarry face which identifies the potential hazard;
8. The abandonment of the water supply system in such a manner so as to ensure that this resource is not wasted. Existing storage tanks, pipe lines and valves shall be removed from the site and the springs which supply water returned to as near their pre-project condition as possible; and
9. The deposition of waste material in the quarry pits at closure of this operation. These wastes will be compacted and covered with large boulders to reduce potential wind erosion impacts to a level of non-significance.

To ensure the implementation of these reclamation activities, the applicant/owner shall post a mining reclamation bond in the amount of \$550,000.00. This bond will name the County of Inyo, Bureau of Land Management, and the State Mining Geologists as beneficiaries.

In compliance with recent amendments to the Surface Mining and Reclamation Act of 1975, the bond will be reviewed periodically to determine if the amount should be increased or reduced. This determination will be made based on the results of periodic site inspections by the County to evaluate the progress of reclamation activities.

The above reclamation bond figure is based on the following:

	HOURS	COST PER HOUR	TOTAL COST
1. Remove water lines			
operator with loader	10	67.39	674.00
labor with torch	24	28.57	686.00
teamster with flatbed	8	44.28	<u>354.00</u>
			\$1,714.00
2. Disassemble and haul crusher units, conveyers, trailer, metal building, water tank, and dig out lower conveyor.			
2 laborers with torch	320	28.57	9142.00
2 laborers	320	24.57	7862.00
operator with 50T crane	160	99.39	15902.00
teamster with low boy	160	47.28	7565.00
teamster with flatbed	160	44.28	7085.00
operator with D-8	24	124.37	<u>2985.00</u>
			\$50,541.00
3. Remove overburden from natural drainage wash.			
operator with excavator	32	84.39	2700.00
2 teamsters with end dump	64	51.28	<u>3282.00</u>
			\$5,982.00
4. Rip road and water bars			
operator with D-8	16	124.37	\$1,990.00
5. Cover 20 acres (wastes on pit floor) with 1 1/2 feet of medium rock 65,500 tons.			
Blast 45,000 cy	per cy	3.39	\$152,550.00
6. 3267 truck loads of waste material to pits at 20 trucks per day.			
2 teamsters with end dumps	2624	51.28	134,559.00
2 operators with loaders	2624	67.39	<u>176,831.00</u>
			\$311,390.00
7. Preparation and revegetation of 15 acres at \$1,700.00 per acre.			\$25,500.00

RECAP

1.	\$1,714.00
2.	50,541.00
3.	5,982.00
4.	1,990.00
5.	152,550.00
6.	311,390.00
7.	<u>25,500.00</u>

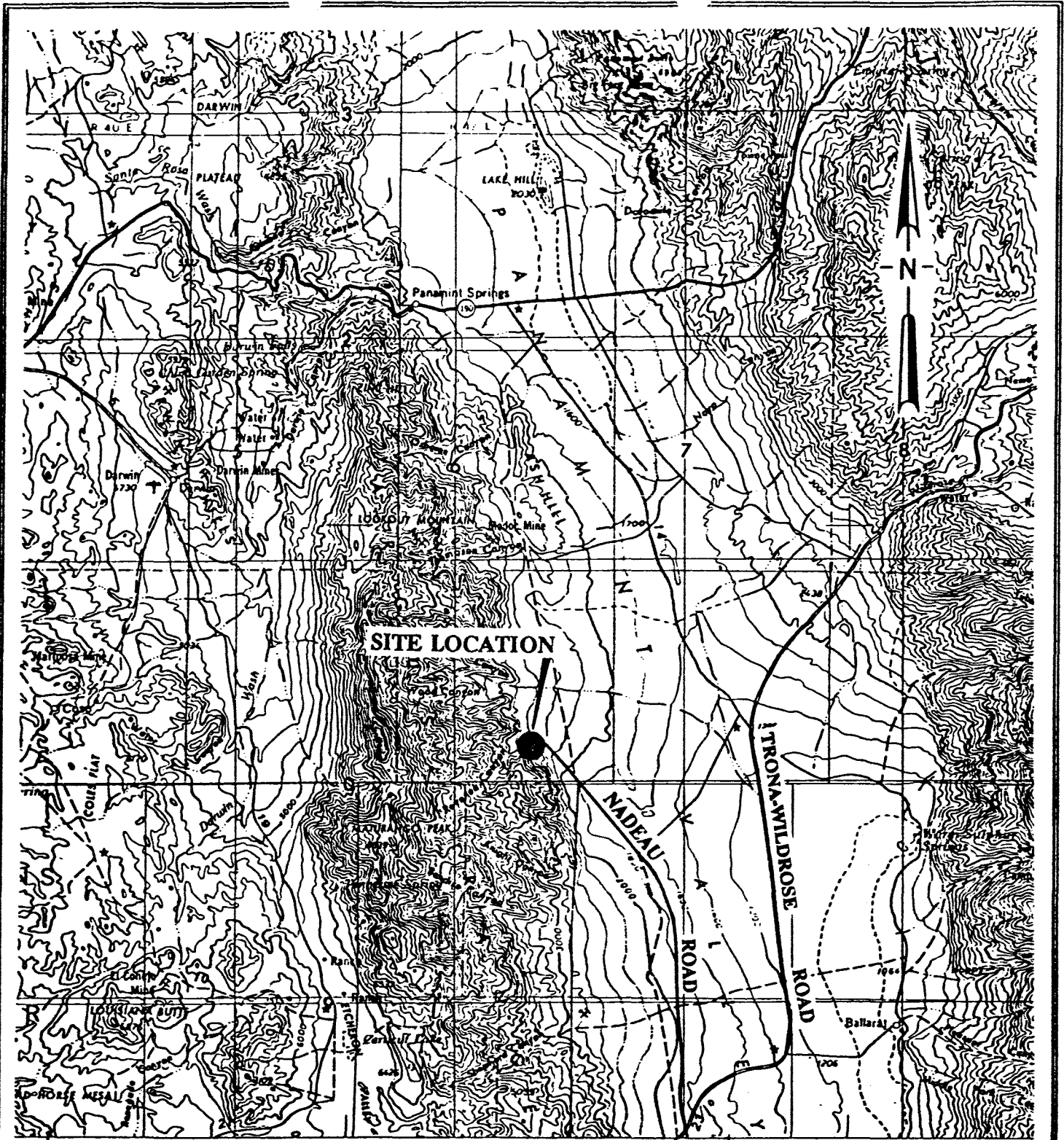
TOTAL \$549,667.00

say: \$550,000.00

20. FUTURE USES

The existing quarries, processing facilities, and a portion of the waste piles are located on private property (patented mining claims) which are under the jurisdiction of Inyo County. Prior to development of the mining operations, the land use was primarily passive, visual open space. Closure of these facilities will return the land to its pre-project usage and will not affect potential future mining on adjacent property. The deposition of waste material in the pits does have the potential to adversely affect future mining in these pits.

The waste piles are located on unpatented mining claims which are under the jurisdiction of the BLM. Pre-project usage of the site was also that of passive, visual open space. Closure of the mining activities will return this site to its pre-project usage and not affect potential future mining activities in the area.



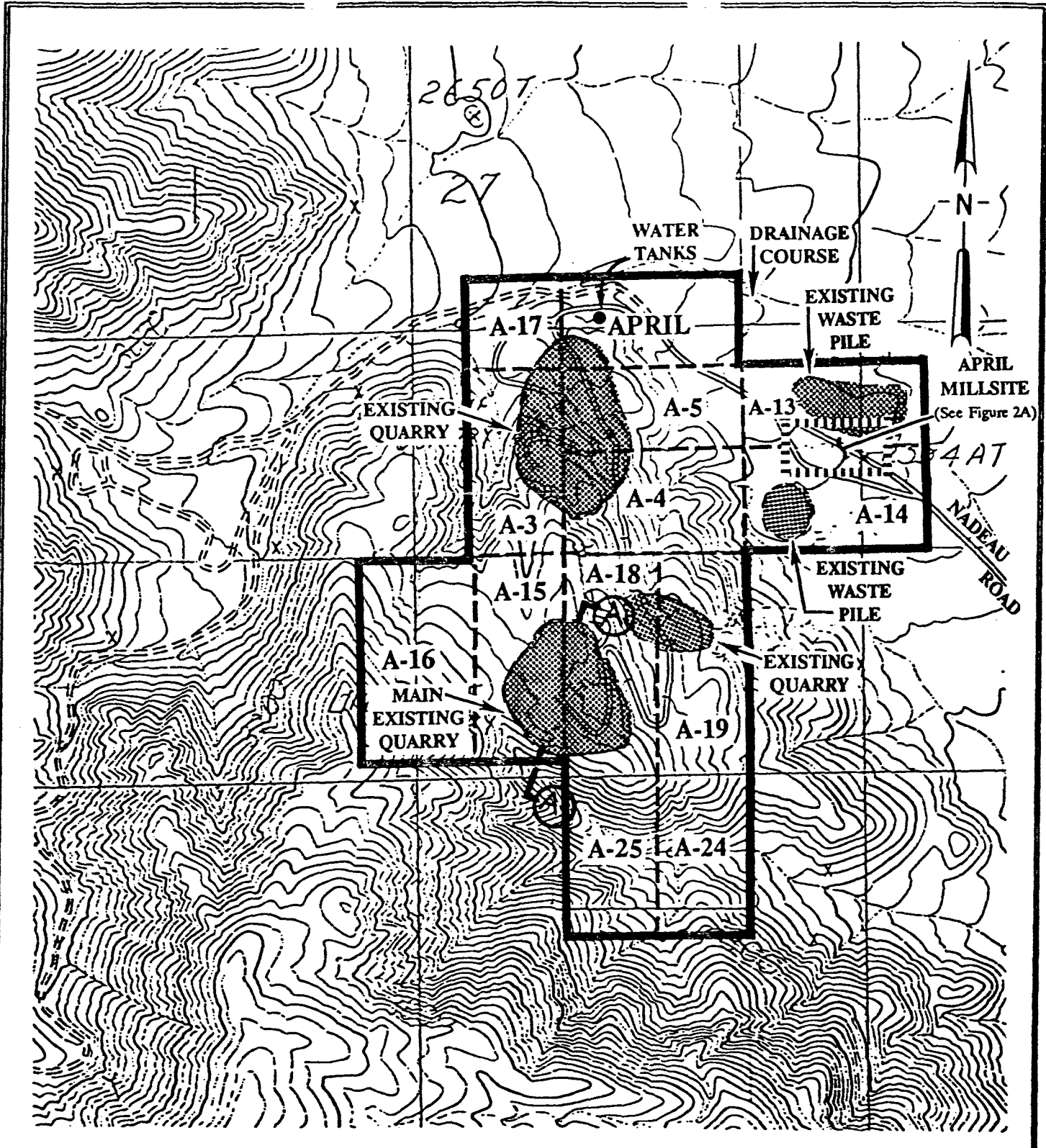
VICINITY MAP

Scale: 1" = 20,800'

Source: USGS Death Valley
1:250,000 Topographic Map

Tom Dodson & Associates
environmental consultants

FIGURE 1



SITE LOCATION MAP

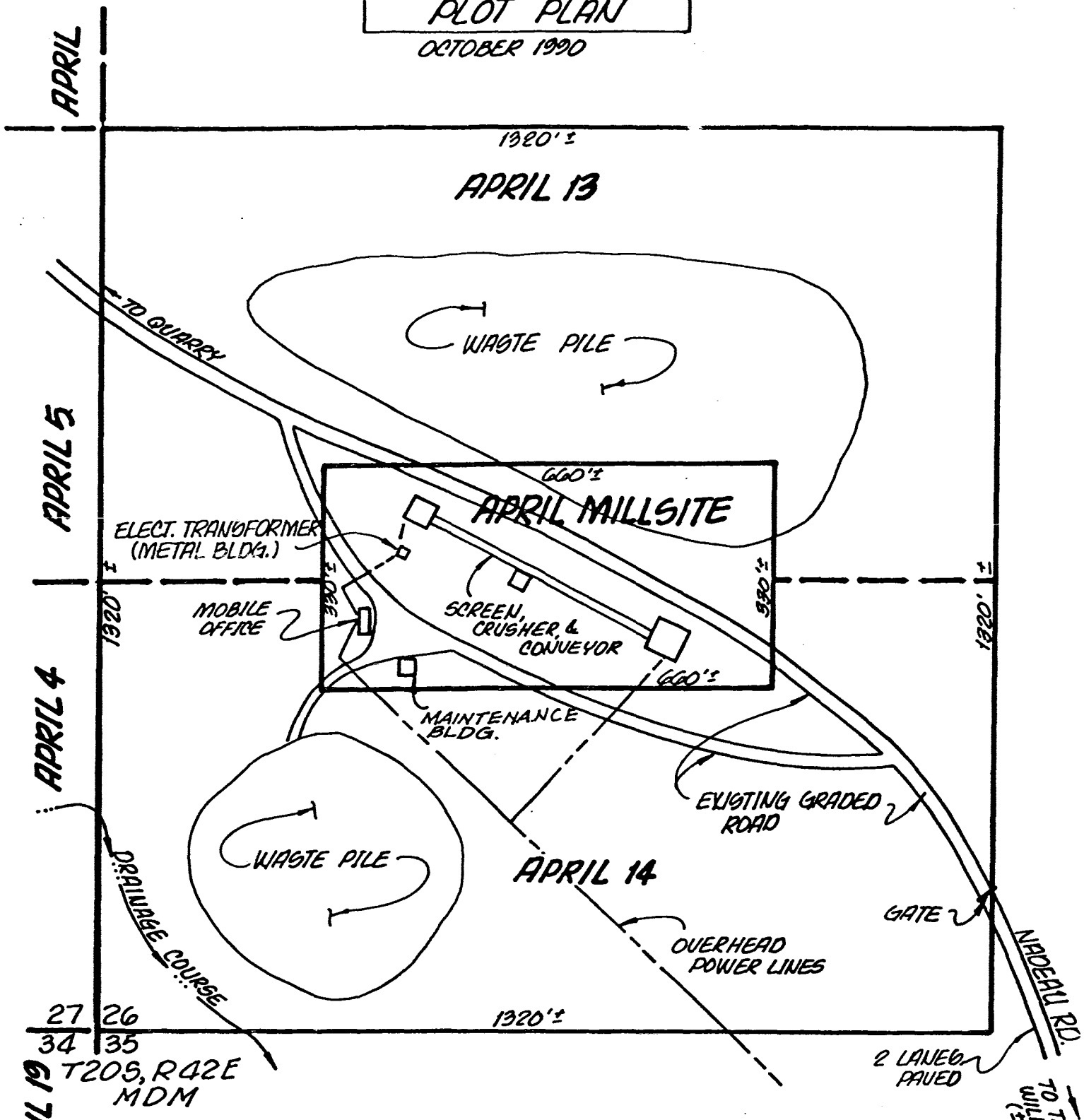
Scale: 1" = 1000'

Source: USGS

Tom Dodson & Associates
environmental consultants

FIGURE 2

PLOT PLAN
OCTOBER 1990



NOTES

1. ALL STRUCTURES SHOWN ARE EXISTING. NO NEW STRUCTURES ARE PROPOSED.
2. NO EASEMENTS EXIST ON THIS SITE.
3. THE SITE IS NOT WITHIN A FLOODWAY.
4. NO STRUCTURE EXISTS ON ADJACENT PROPERTY WITHIN 10' OF COMMON PROPERTY LINES.
5. NO STRUCTURES, EQUIPMENT OR STORAGE PILES WILL REMAIN ONSITE AFTER CLOSURE OF THIS FACILITY.

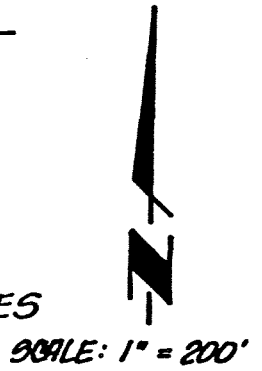
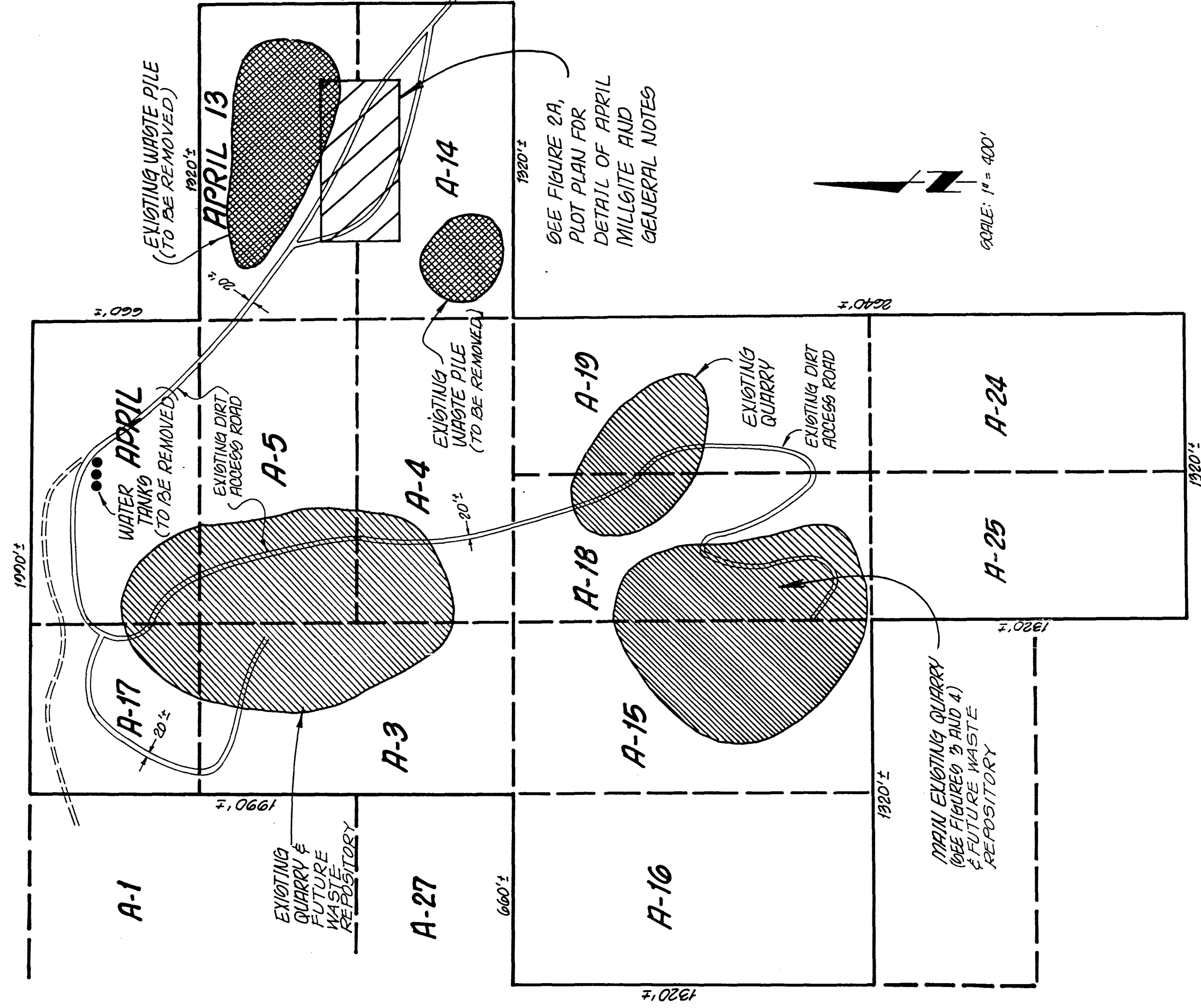


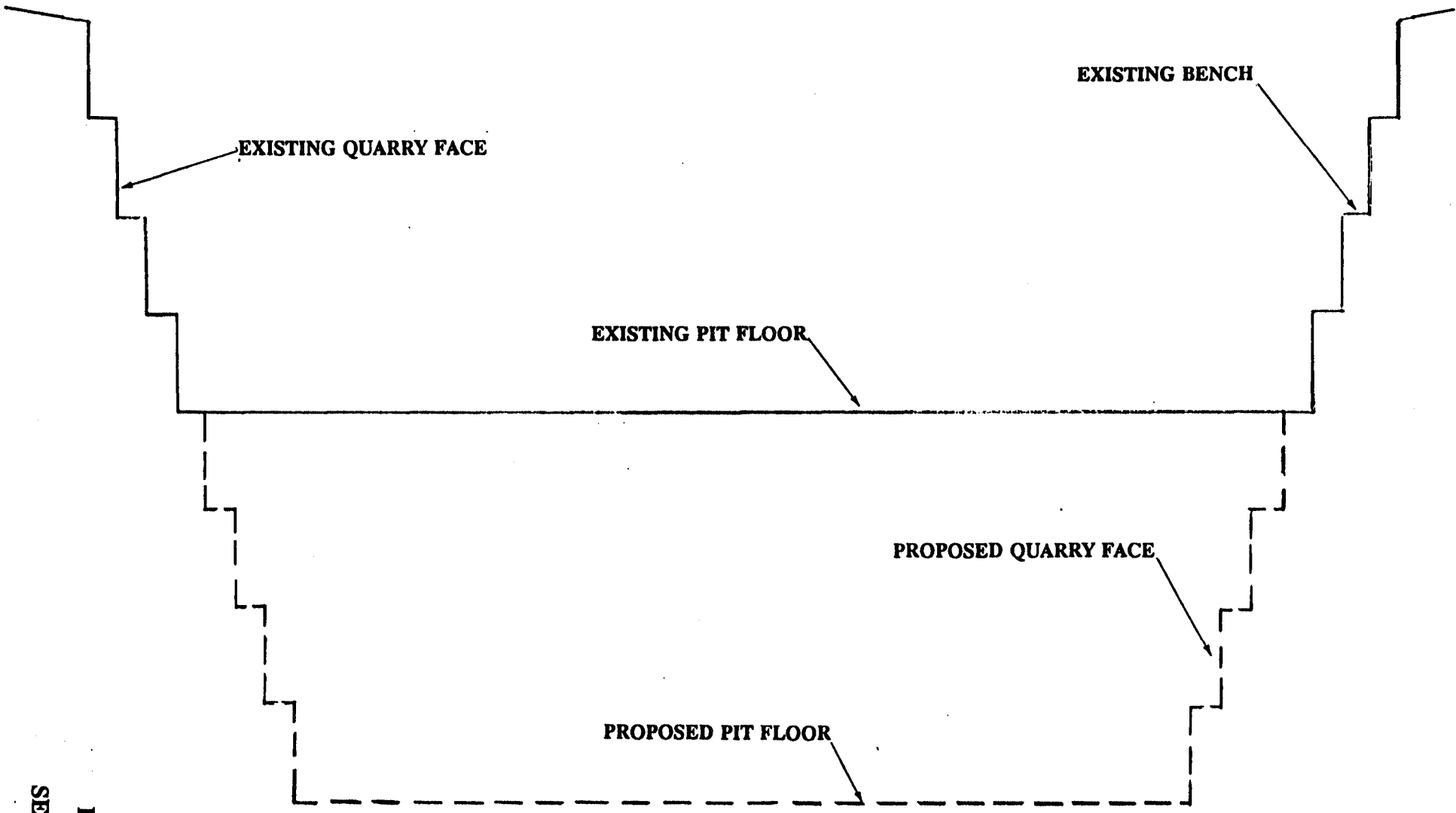
FIGURE 2A



PLOT PLAN

OCTOBER, 1990

FIGURE 2 B



EXISTING QUARRY FACE

EXISTING BENCH

EXISTING PIT FLOOR

PROPOSED QUARRY FACE

PROPOSED PIT FLOOR

FIGURE 3

SECTION A-A

SCALE

Horizontal 1" = 100'

Vertical 1" = 30'



FIGURE 4
MAIN QUARRY

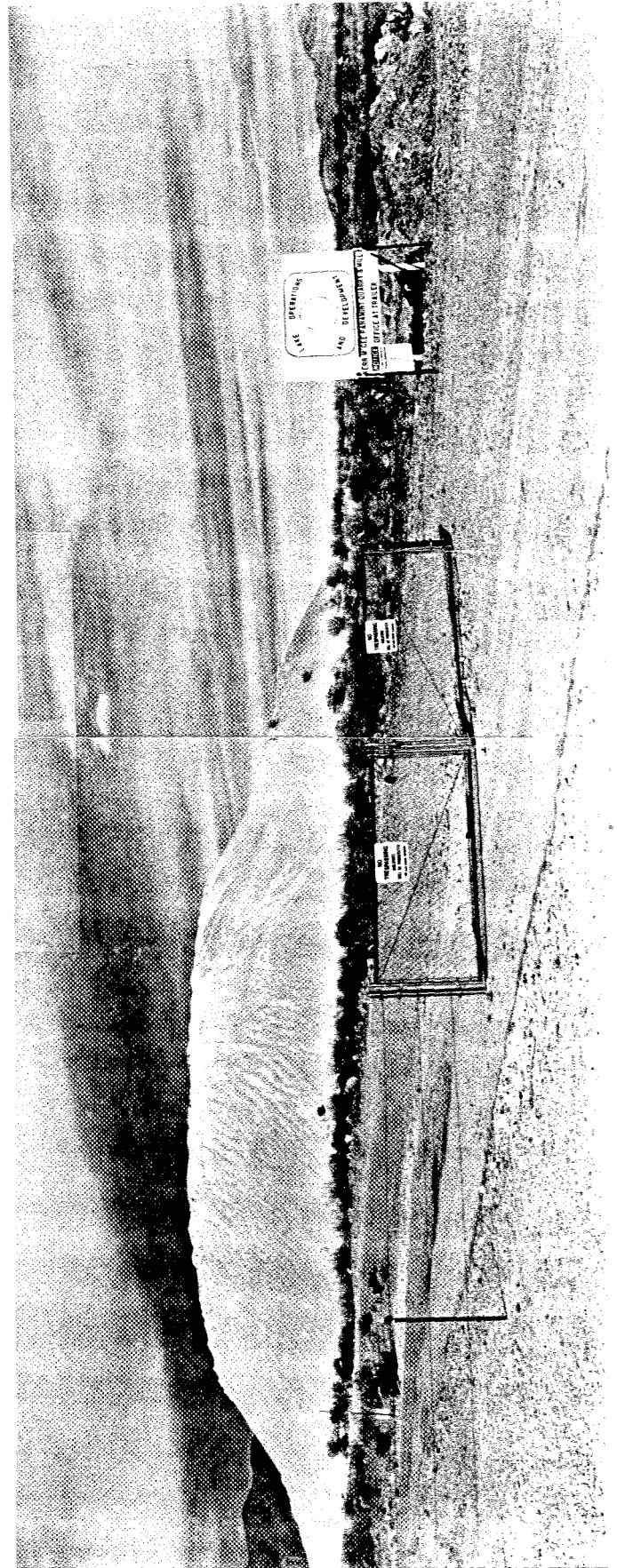


FIGURE 5

PROCESSING FACILITIES
& WASTE PILES



FIGURE 6
OTHER QUARRIES



FIGURE 7

**VIEW OF QUARRIES FROM
NEAR WASTE PILES**

SURFACE MINING AND RECLAMATION ACT OF 1975

(As amended by Senate Bill 1300, Nedjedly - 1980 Statutes; and Assembly Bill 1110, Areias - 1984 Statutes; and Assembly Bills 3551 and 3903 - 1990 Statutes)

PROJECT REVENUE CYN - PYCO ACE.

SCH#/CUP# 90-8/Rec. Plan 205 LEAD AGENCY INYO Co.

CHECKLIST BY: K.T. Curtis DATE 5/10/91 updated 4/8/91 by gan

YES	NO	?	N/A	SMARA SECTION:	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2770.5	100-year flood, Caltrans contact.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2772 (a)	Name and address of operator/agent.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(b)	Quantity & type of minerals to be mined.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(c)	Initiation and termination date. <i>odd site 15-50 yrs</i>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(d)	Maximum anticipated depth of mining. <i>5k-50k/yr. limestone 160 ft.</i>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(e)	Description, including map with boundaries, topographic details, geology, streams, roads, utilities.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(f)	Mining plan and time schedule for reclamation (concurrent or phased reclamation). <i>15-50 yrs.</i>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(g)	Proposed subsequent use. <i>MINING OPEN LAND</i>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(h)	Description of reclamation measures adequate for proposed end use.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(1)	Description of contaminant control and mine waste disposal.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(2)	Rehabilitation of streambanks/beds to minimize erosion.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(i)	Impact of reclamation on future mining.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(j)	Applicant statement accepting responsibility for reclamation per the reclamation plan.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2773 (a)	Plan specific to property. <i>Co. Ings.</i> Monitoring plan.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2773.1	Performance (financial) assurances. <i>\$ 549,667 bond.</i>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2774 (b)	Annual inspection. <i>Perkins Co inspect. w/ annual notes</i>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2776	All mining operations since 1/1/76 included in reclamation plan. <i>Will use old waste pile</i>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2777	Amended reclamation plans required prior to substantial deviations to approved plans.

NOTES:

CCR TITLE 14 (REGISTER 85, NO. 18-5-4-85)
 CHAPTER 8. MINING AND GEOLOGY
 SUBCHAPTER 1. STATE MINING AND GEOLOGY BOARD
 ARTICLE 1. SURFACE MINING AND RECLAMATION PRACTICE
 SECTION 3500 et. seq.

YES	NO	?	N/A	<u>CALIFORNIA CODE OF REGULATIONS SECTION:</u>
___	___	✓	___	3502 (b) (1) Environmental setting and impact of reclamation on surrounding land uses. <i>Discussion weak but may be sufficient.</i>
✓	___	___	___	(2) Public health and safety (exposure).
✓	___	___	___	(3) Slopes: critical gradient, consider physical properties and landscaping.
✓	___	___	___	(4) Fill materials in conformance with current engineering technology.
✓	___	___	___	(5) Disposition of old equipment.
✓	___	___	___	3503 (a) (1) Removal of vegetation and overburden preceding mining kept to a minimum. <i>write</i>
___	___	✓	___	(2) Overburden stockpiles managed to minimize water and wind erosion.
✓	___	___	___	(3) Erosion control facilities (dikes, ditches, etc.).
___	___	___	✓	(b) (1) Settling ponds (sedimentation and water quality).
___	___	___	✓	(2) Prevent siltation of groundwater recharge areas.
___	___	✓	___	(c) Protection of fish and wildlife habitat (all reasonable measures).
✓	___	___	___	(d) Disposal of mine waste and overburden (stable--no natural drainage restrictions).
✓	___	___	___	(e) Erosion and drainage (grading to drain to natural courses).
___	___	✓	___	(f) Resoiling (fine material on top plus mulches).
___	___	✓	___	(g) Revegetation and plant survival (use available research).
___	___	___	✓	<u>PRC</u> 21151.7 EIR required for cyanide heap leaching.

NOTES:

QUARRY OLD KERR-MCGEE LIMESTONE - REACTIVATED TO SUPPLY LIMESTONE TO CO-GENERATION POWER PLANT IN TRONA - REDUCES SULFUR DIOXIDE -



PLANNING DEPARTMENT

DRAWER L • INDEPENDENCE • CALIFORNIA 93526

OFFICE: (619) 878-2411 (Ext 2263)

FAX: (619) 878-2542

County of
INYO

Roger DeHart
Planning Director

December 11, 1990

Mr. Jim Pompy
State of California
Department of Conversation
Division of Mines and Geology
650-B Bercut Drive
Sacramento, California 95814

**SUBJECT: Notice of Receipt of Mining Reclamation Plan
Reclamation Plan #90-5/PYCO A.C.E.
(A.P. #32-500-2 through 6 and 32-510-01)**

Dear Mr. Pompy:

Pursuant to Section 2774 (b.) of the State and Surface Mining Reclamation Act of 1975 (SMARA), this office is hereby notifying you of our receipt of the above mining reclamation plan.

The mining operation is a series of four open-pit limestone quarries; product and waste material stockpiles; crusher and screening apparatus; and various accessory structures and equipment. The operation is located on both patented and unpatented lands as follows:

Sections 26, 27 and 34, Township 20 South, Range 42 East,
Mount Diablo Base and Meridian.

Processing of this plan has begun and when finalized, approved copies will be mailed to you. It is our intention that this mining reclamation plan will comply fully with the requirements of SMARA, both as it currently exists and the amendments scheduled to become effective on January 1, 1991.

Please do not hesitate to contact this office if you have any questions or we may be of assistance.

Sincerely,

Roger DeHart
Planning Director

A handwritten signature in cursive script, appearing to read "Charles S. Thistlethwaite".

Charles S. Thistlethwaite, AICP
Associate Planner

cc: Dave Taylor, BLM (Ridgecrest)
Zenis Walley, PYCO A.C.E.