

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

ORDER NO. 77-22

WASTE DISCHARGE REQUIREMENTS
FOR
IMPERIAL MAGMA
Southwest of Niland - Imperial County

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. Imperial Magma (hereinafter also referred to as the discharger), 631 South Witmer St., Los Angeles, CA 90017, submitted a Report of Waste Discharge, dated December 16, 1976.
2. The discharger proposes to drill an exploratory geothermal well, Magmamax Well No. 5, in the Niland area, situated 200'E and 100'N from the SW corner of the SE $\frac{1}{4}$, Section 33, T11S, R13E, SBB&M. About one acre of ground surface will be disturbed by this proposed well site.
3. The discharger proposes that a maximum volume of 337,500 gallons of drilling muds and cleanout water will be discharged into a drilling mud sump located 35 feet from the well. Water will be allowed to evaporate, and then the sump will be filled and graded to as near original condition as possible. The storage sump will be approximately 150 feet long by 60 feet wide by 5 feet deep.
4. The discharger proposes to use the following drilling fluid components:

Low solid magcogel, (which includes bentonite) some caustic soda and lignite.
5. The discharger reports that water for drilling the well will be obtained from an irrigation canal.

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6. The discharger states that approximately 6-12 persons will be working at the well site at any one time. Portable sanitary facilities will be provided at the site.
7. The Water Quality Control Plan for the West Colorado River Basin was adopted on April 10, 1975. This Order implements the objectives stated in said Plan.
8. Beneficial uses to be protected by this Order are as follows:
 - a. Groundwater
 1. Shallow groundwaters at the discharge location are saline and are not beneficially used.
 - b. Imperial Valley Drains
 1. Transport of dissolved solids to the Salton Sea for agricultural soil salinity control.
 2. Limited public fishing activity.
 3. Freshwater habitat for fish and wildlife.
 4. Freshwater replenishment for the Salton Sea.
 - c. Salton Sea
 1. Water contact recreation.
 2. Non-contact recreation.
 3. Water and vegetative habitat for the maintenance of wildlife.
9. The Imperial County Planning Department has prepared a final Environmental Impact Report, No. 151-77, dated February 28, 1977. This report indicates that this project will not have any significant effects on the environment.
10. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.
11. The Board in a public meeting heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, Imperial Magma shall comply with the following:

A. Discharge Specifications

1. Neither the treatment nor the discharge of wastes shall cause a pollution or a nuisance.
2. Geothermal fluids and other wastes shall not enter the Salton Sea or any canals, drainage channels, or drains (including subsurface drainage systems or aquifers) which could provide flow or seepage to the Salton Sea.
3. Residual solids, with extractable water containing a total dissolved solids concentration exceeding 6,000 mg/l, shall be discharged at a disposal site approved by the Regional Board to receive said waste. Residual solids, with extractable water containing a total dissolved solids concentration which is less than 6,000 mg/l may be either discharged at the site or disposed of at a Class II disposal site approved by the Regional Board to receive these wastes.
4. There shall be no overflow from the storage sump.
5. Adequate protective works and maintenance shall be provided to assure that the mud sump will not become eroded or otherwise damaged during the project period.
6. A minimum freeboard of at least two (2) feet shall be maintained in the mud sump.
7. The mud sump shall not be located within 50 linear feet of any irrigation drainage ditch.
8. Final disposal of residual wastes, in accordance with Specification No. 3 above, shall be accomplished upon abandonment of operations. Lack of construction or operational activity on the site for a period of one year shall constitute abandonment for the purposes of this Order.

B. Provisions

1. The discharger shall comply with "Monitoring and Reporting Program No. 77-22", and "General Provisions for Monitoring and Reporting", and future revisions, thereto, as specified by the Executive Officer.

2. This Order is for the discharge of only drilling muds and cleanout water from the proposed geothermal well described in Finding No. 2 (above).

I, Arthur Swajian, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on May 18, 1977.

Arthur Swajian

Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 77-22
FOR
IMPERIAL MAGMA
Southwest of Niland - Imperial County

Location: Section 33, T11S, R13E, SBB&M.

MONITORING

Imperial Magma shall report monitoring data to the Regional Board in accordance with the following schedule:

<u>Constituents</u>	<u>Units</u>	<u>Reporting Frequency</u>
1. Total volume of drilling fluid discharged to mud sump	Gallons	Monthly
2. Total volume of well cleanout water discharged to mud sump	Gallons	Monthly
3. Total dissolved solids content of waste fluid in the mud sump	mg/l	Monthly
4. Immediate reporting of any accidental spillage or release of waste material, and also, plan for immediate measures being taken to correct same and to limit detrimental effects.		
5. Estimate of total amount (tons) of drilling muds (if any) hauled to a Class II solid waste disposal site upon completion of operations - reported in final monitoring report.		
6. Report of final disposal of residual solids - one (1) week following completion of work.		reported within

REPORTING

The above monitoring program shall be implemented immediately upon commencement of discharge at the site.

Monthly reports shall be submitted to the Regional Board by the 15th day of the following month. Reports for Item 4 (above) shall be forwarded immediately, and if at all possible shall be preceded by phone communication to the Regional Board's office. Phone Number: (714) 346-7491. Copies of the reports submitted to the Board pursuant to this Monitoring and Reporting Program shall be maintained at the operations site, and shall also be made available to staff of the Regional Board upon request.

Mail reports to:

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

ORDERED BY

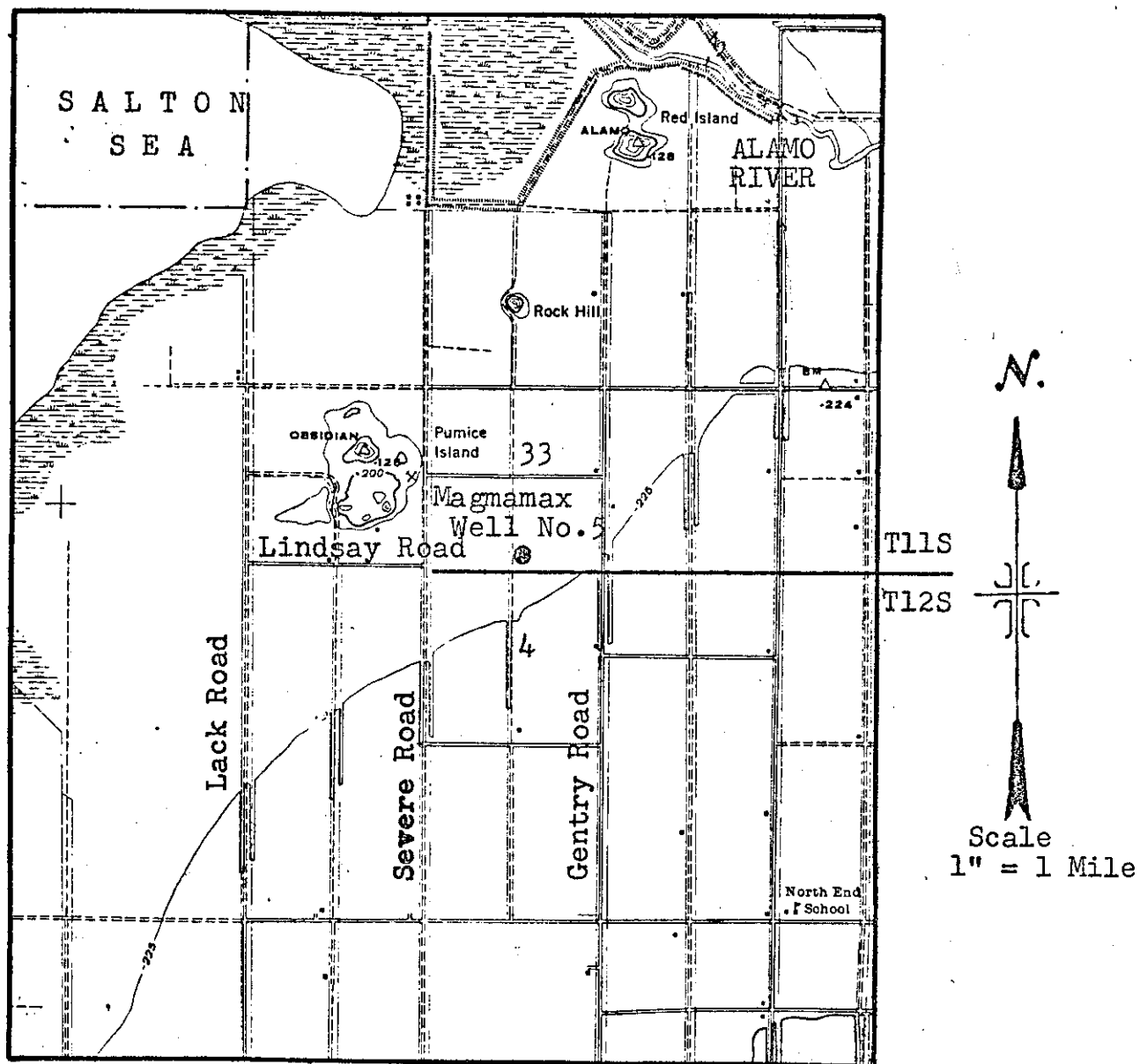
Arthur Levajian

Executive Officer

May 18, 1977

Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7



SITE MAP

IMPERIAL MAGMA
 Southwest of Niland - Imperial County
 SW $\frac{1}{4}$, SE $\frac{1}{4}$ of Section 33, T11S, R13E, SBB&M
 Calipatria 15' Topographic Map

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