GENERAL CRUDE OIL COMPANY

Home Office

California District Office

BANK OF THE SOUTHWEST BUILDING P. O. BOX 2252 HOUSTON, TEXAS 77001

TEL. (713) 224-9261

July 27, 1973

R. M. SCARBOROUGH, DIST. MANAGER
P. O. BOX 1487
NEWPORT BEACH, CALIFORNIA
92663

TEL. (714) 642-3350

California Coastal Zone Conservation Commission South Coast Region 666 E. Ocean Blvd. Long Beach, California

Re: Claim of Exemption - General Crude Oil Co. and G. E. Kadane & Sons

Gentlemen:

As of this date we are delivering under separate cover Application for Exemption Under Vested Rights (27404) by General Crude Oil Company and G. E. Kadane & Sons. In addition to answering the questions in the application form we have included a brief history of the "Banning Lease" operations and furnished a set of exhibits which relate to the factual material in the application.

If any additional information is required, please do not hesitate to inform us.

Yours very truly,

GENERAL CRUDE OIL COMPANY

JSG/ba

GENERAL CRUDE OIL CO.
AND
G. E. KADANE & SONS
APPLICATION FOR EXEMPTION UNDER
VESTED RIGHTS (27404)

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CALIF. COASTAL ZONE CONSERVATION COMM.
SOUTH COAST REGION

CALIFORNIA COASTAL ZONE CONSERVATION COMMISSION SOUTH COAST REGION

P.O. Box 1450, Long Beach, California 90801 Telephone: 213/436-4201, 714/846-0648

APPLICATION FOR EXEMPTION UNDER VESTED RIGHTS (27404):

In order to establish claim of exemption from commission permit requirements under the vested rights section, Division 18, of public resources code the following form must be completed.

27404. If, prior to the effective date of this division, any city or county has issued a building permit, no person who has obtained a vested right thereunder shall be required to secure a permit from the regional commission, providing that no substantial changes may be made in any such development, except in accordance with the provisions of this division. Any such person shall be deemed to have such vested rights if, prior to Nov. 8, 1972 he has in good faith and in reliance upon the building permit diligently commenced construction and performed substantial work on the development and incurred substantial liabilities for work and materials necessary therefor. Expenses incurred in obtaining the enactment of an ordinance in relation to the particular development or the issuance of a permit shall not be deemed liabilities for work or material.

1.	Name, address, and telephone number of applicant: General Crude Oil Company and G. E. Kadane & Sons (Please see Section 1 of attached								
	statement for further details). Zip Code Area Code								
	alp code med code								
2.	Name, address, and telephone number of applicant's representative, if any:								
	See Section 2 of attached Statement.								
	Zip Code Area Code								
3.	Describe exactly the development claimed to be exempt. Include all incidental improvements such as utilities, roads, etc. Attach a site plan or other drawing depicting the development and the location in relationship to the general area. Development address.								
4.	Describe those portions of the development that are completed, and give the dates of completion.								
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TO	BE FILLED IN BY THE COMMISSION:								
App	lication Number Date Filed								
Pub	Public Hearing Date								

and February 1, 1973

5.	Describe	e those of	port:	ions	of	the	developme	ent	that	were	under	constru	1C-
		Novembe	er 8,	1972	4.43 0 01.	See	Section	5 o:	f att	ached	State	nent	

and describe the stage of construction on each of those dates.

- 6. Describe those portions of the development remaining to be constructed. See Section 6 of attached Statement
- 7. On what date did actual work on the development commence? If grading, foundation work, structures or similar items are involved, list separately the dates on which work on each of these items commenced. Estimate percentage of total work completed as of permit application date.

See Section 7 of attached Statement

- 8. List all required approvals, permits, and reports from any public agencies, including federal agencies, and list which of those approvals have been obtained and when. Supply legible copies. List those approvals, permits, and reports which remain to be obtained. Include copies of all permits, reports, and approvals obtained. Specify zoning. See Section 8 of attached Statement.
- 9. State the expected total cost of the development, excluding expenses incurred in securing any necessary governmental approvals and permits. See Section 9 of attached Statement.
- 10. State the amount of money which had been expended on the development (excluding all expenses incurred in securing any necessary governmental approvals) on November 8, 1972 and February 1, 1973.

 See Section 10 of attached Statement.
- 11. List the amount and nature of all liabilities incurred and when they were incurred. List any remaining liabilities to be incurred and when these are anticipated to be incurred.

 See Section 11 of attached Statement.
- 12. Does the development contain a concept of phases or segments?

 Explain. See Section 12 of attached Statement.
- ·13. When is it anticipated that the total development will be completed?

 See Section 13 of attached Statement.

 CERTIFICATION:

I hereby certify that the information in this application and all attached exhibits are full, complete, and correct; I understand that any misstatement or omission of the requested information or of any information subsequently requested, shall be grounds for denying the permit; for suspending or revoking a permit issued on the basis of these or subsequent representations, or for the seeking of such other and further relief as may seem proper to the Commission.

Name / Title / Applicant's Representative

STATEMENT IN SUPPORT OF APPLICATION FOR EXEMPTION UNDER VESTED RIGHTS (27404)

INTRODUCTION

General Crude Oil Company and G. E. Kadane & Sons, joint lessees of an oil producing lease currently operated by General Crude Oil Company, located on the Banning and Beeco properties in portions of Sections 20 and 29 T. 6S., R. 10W., S.B.B.& M. Orange County, California, claim the production operations on that lease are covered under the Vested Rights provision of Section 27404 of the Coastal Zone Conservation Act and are therefore exempt from the permit provisions of Section 27400 of the Act.

The history of the primary and secondary oil producing operations since the completion of the discovery well in May of 1943 has been as follows.

During 1943 D. W. Elliott and Signal Oil and Gas
Company drilled and placed on production Townsend Well No. 1
and Well No. 2.

In November 1944, Macco Construction Company purchased the two completed oil wells from Elliott - Signal and concurrently obtained a term type oil lease covering approximately 590 acres from Townsend Land Company. Subsequently, Townsend Land Company's lessor's interests were assigned to individuals and the property became known as the "Banning Lease". Macco Construction Company assigned their lessee interest to Macoil Corporation, a separate corporation which was formed to operate their oil producing interest.

The term of this lease through amendments and assignments extends to late 1994, at which time total ownership reverts to Beeco, Ltd.

Between November of 1944 and August of 1951, Macoil Corporation drilled 109 wells. During this interim approximately 4,000,000 barrels of oil were produced. The original oil in-place as of August 1951 was estimated by an outside engineering firm to be in excess of 100,000,000 barrels with an ultimate recovery by primary production methods of approximately 9,000,000 to 10,000,000 barrels. The exploratory development of the "Banning Lease" reserves was for all practical purposes totally completed. The drilling and construction activities since that date have been interrelated and designed to obtain an increased rate of oil production, as well as a greater ultimate recovery of this very valuable and necessary natural resource before the lease termination in 1994.

In August 1951, G. E. Kadane & Sons purchased the lessee interest and assets of Macoil Corporation. Between August 1951 and September 1966, G. E. Kadane & Sons drilled 61 additional wells to bring the total to 172 wells. Included in these 61 wells were 10 replacement producing wells and 10 air injection wells for the insitu secondary recovery program which was initiated in early 1958.

Insitu secondary recovery is a process by which air injected into the oil bearing formation oxidizes a portion of the residual oil. The oxidization increases the temperature of the oil bearing formation causing additional oil to be released and produced that would be unrecovered in primary producing operations. Use of this secondary recovery process requires that the number and spacing of both producing and air injection wells be developed and maintained in a proper and orderly relationship and sequence. What appears to be varied activities on the surface becomes a common interrelated process in the oil bearing formation.

The drilling of the 172 wells up to September 1966 required the construction and installation of support facilities as follows:

- Many miles of interconnecting lease road system.
- Centralized tank farm for crude oil dehydration, gauging and storage and shipment of oil into the purchasing company's pipeline.
- 3. Electrical distribution system.
- 4. Oil gathering pipeline system.
- 5. Individual well production testing system.
- 6. Gas gathering pipeline and metering system.
- 7. Pipelines for fresh water distributing system.
- 8. Produced water cleaning system for disposal of brine to sewer plant.
- 9. Central air compressor plant.
- 10. Pipelines for compressed air distribution system to injection wells.
- 11. An installation for the treatment of produced gas.
- 12. Pipeline system to gather untreated gas.
- 13. Steam generation plants.
- 14. Pipelines for steam distribution system.
- 15. Buildings for office, garage, employee change rooms, equipment repair, material storage, etc.

In September 1966, General Crude Oil Company purchased one half of G. E. Kadane & Sons' ownership in the "Banning Lease" and in February of 1971 became operator of the property.

In order to increase the insitu secondary recovery

program initiated by G. E. Kadane & Sons in 1958, the accelerated drilling of additional wells and the installation of surface facilities commenced in 1964 and has continued. As a result, a total of 312 wells have been drilled. In addition, compressor and gas reactor capacity has been tripled. Tank farm crude oil dehydration capacity has been doubled. All the interrelated surface facilities have been increased in proportion to the wells drilled.

The increased crude oil production to date and the estimated remaining reserves until 1994 are very substantial when compared with the August 1951 reserves estimate. The total oil production through March 1973 was approximately 18,000,000 barrels. A reasonable estimate of future production until the present lease termination in 1994 is something in excess of 24,000,000 barrels for an ultimate total of over 42,000,000 barrels, the equivalent of 42% of the original oil in-place. This compares with the 1951 ultimate estimate of nine to ten million barrels or 9 to 10% of the original oil in-place.

The development and operation of the "Banning Lease" has required a total expenditure in excess of \$26,000,000 from which approximately \$23,000,000 revenue has been received, leaving a deficit of approximately \$3,000,000. These expenditures were made in good faith for the continuation and expansion of the secondary recovery program and related work initiated by G. E. Kadane & Sons in 1958.

All of the operations on the "Banning Lease" since 1943 have been made in accordance with the rules and regulations of the Division of Oil & Gas, Orange County Department of Building & Safety and Air Pollution Control District.

The Applicant estimates that the "Banning Lease"

development to date which includes the drilling of 312 wells and the installation of the required surface equipment and facilities is at least 90% of that which will be in operation during any future given period of time. No exploratory drilling is necessary or included in the remaining program for the "Banning Lease" secondary recovery operation.

The Applicant submits that because of the volume of work done, the interdependent and interrelated nature of the project and the substantial amounts of money spent and in accord with all of the required discretionary and ministerial permits and regulations of various governmental units, that a Vested Right as provided in Section 27404 of the Public Resources Code has been acquired and that the Applicant should be permitted to proceed with the continuing primary and secondary oil production program which includes the following activities.

- 1. Continued operation and maintenance of all existing and future producing wells and injection wells, together with the surface support facilities necessary to obtain maximum oil recovery before termination of the present lease in 1994.
- 2. The drilling of additional producing wells, additional injection wells, and replacement, redrilling or repair of existing or new wells in order to continue the secondary recovery program initiated in 1958.
- 3. The repair, maintenance, replacement and expansion of the surface support equipment and facilities presently installed. In addition, this would include the modification and/or addition or the complete

replacement of the existing system used for the treatment of produced gas so as to conform to any future standards as set forth by regulatory bodies concerning environmental factors.

- 4. The abandonment of wells and the removal of surface facilities and equipment in accordance with the requirements and approval of the State Division of Oil & Gas and the Orange County Building & Safety Department.
- 5. Upon abandonment of wells and removal of surface equipment and facilities to return the surface of the land to the relative natural condition that existed prior to the oil producing operations.

The Applicant also submits that its operation during the limited term of the "Banning Lease" serves the public interest not only in providing a very critical natural resource, but also will be an interim highest and best use until the owners and appropriate governmental agencies can determine the ultimate use of the property.

The Vested Right claimed is the Right to continue the primary and secondary oil production operations including the activities specifically described in this application, the surface location of which activities is located in County territory as outlined on the attached map marked Exhibit No. 1. The area encompassed in this surface use is approximately 480 acres. The subsurface location of such activities is also outlined on Exhibit No. 1.

DETAILED INFORMATION REQUESTED IN OFFICIAL APPLICATION FORM

Section 1.

Name, address and telephone number of applicant:

General Crude Oil Company and
G. E. Kadane & Sons, Lessees of
"BANNING LEASE", and
General Crude Oil Company, as Operator
for said Lessees.

P. O. Box 1487
Newport Beach, California 92663
Attention: Mr. Robert M. Scarborough
District Manager
714 - 642-3350

Section 2.

Name, address and telephone number of applicant's representative, if any:

Mr. J. S. Gilstrap c/o General Crude Oil Company P. O. Box 1487 Newport Beach, California 92663 714 - 642-3350

Section 3.

Describe exactly the development claimed to be exempt. Include all incidental improvements such as utilities, roads, etc. Attach a site plan or other drawing depicting the development and the location in relationship to the general area.

The surface and subsurface oil well drilling and producing operations located on the "Banning Lease" in Sections 20 and 29, T. 6S., R. 10W., S.B.B.& M., Orange County, California.

The surface operations on the "Banning Lease" are within County territory and are bounded as follows:

On the North by undeveloped area within the City of Costa Mesa.

On the East in the northerly portion by residential development adjacent to a developed area occupied by offsetting oil production. This portion of the area is within the City of Costa Mesa. On the East southerly of the Costa Mesa city limit, is a development in progress within the City of Newport Beach.

On the South, a residential area in the City of Newport Beach. This developed area is separated from the lease premises by Coast Highway and an arm of the Santa Ana River which act as a buffer between the lease and the residential and commercial development.

On the West by the Greenville Banning Channel and the Santa Ana River which separate that boundary from the area within the City of Huntington Beach. The area within the City of Huntington Beach adjacent to the West side of the Santa Ana River is occupied by Orange County Sanitation District Sewer Plant No. 2 and offset producing oil wells not owned or operated by the Applicant. (See Exhibit No.1).

The production and development was initiated on the subject property in May 1943 when E. W. Elliott completed the first commercially productive oil well. Production operations and development have been continuous since that date.

General Crude Oil Company is the current operator of the oil producing operation for claimants General Crude Oil Company and G. E. Kadane & Sons.

The estimated future production by primary and secondary methods of over 24,000,000 barrels of oil is anticipated by the end of the lease term in November, 1994. Scarcity of this critical natural resource could result in an economic climate and technical advances which could materially increase the estimates of future oil production.

The development to date has resulted in the drilling of 312 wells which as of May 31, 1973 were in the following status.

1.	Producing	181 wells
2.	Air Injection	30 wells
3.	Idle	42 wells
4.	Abandoned	59 wells

According to the status of the secondary recovery operation at any given time in the future, all of the wells listed above are subject to major repair, redrilling or replacement. It is estimated that there will not be in excess of 340 wells in active use at any given period of time during the remaining lease term.

It is anticipated that as the end of the lease term approaches, an orderly final abandonment of wells will take place. These abandonments must be made in accordance with the regulations of the Division of Oil and Gas, the Orange County Department of Building & Safety, as well as the 1944 Townsend Lease requirement which provide for return of the surface to a condition similar to that before the oil wells were drilled.

The existing improvements and surface developments which are incidental to and in support of the above well drilling and producing program is as follows:

 Many miles of interconnecting lease road system.

This road system is oiled and maintained in a condition to provide access to each well for lease personnel and heavy well repair or drilling equipment. This road system may be modified to meet the requirements of any future drilling occasioned by a change or modification of the secondary recovery program. (See Exhibit No. 2).

- 2. Well pumping units.
 All of the wells on the "Banning Lease" with the exception of air injection wells are equipped with small electric driven pumping
 - units. These units are removed from location
- Oil gathering pipelines to transport oil from each well to a centrally located lease tank farm.

whenever a well is abandoned.

- These pipelines must be maintained in good operating condition. Since any future wells will be located within the present pipeline system, it is not anticipated that the system will be materially expanded.

 (See Exhibit No. 3).
- 4. Lessee owned electrical distribution system.

 All electricity to operate the lease is purchased from the Southern California

 Edison Company through a central meter and transformer bank and is then distributed through a system constructed, owned and maintained by the Lessee. This system will be modified or added to in accordance with the requirements of the secondary recovery production operation. (See Exhibit No. 4).
- 5. Pipeline system for individual well testing. This system is operated in conjunction with the production pipeline system and has in addition to oil well pipe lines, individual weighmeters which are used to determine the daily production rate of individual wells. (See Exhibit No. 5).

- 6. Pipelines for gas gathering system.

 This system includes facilities to measure
 the quantity of gas produced and to transport
 the gas to be used in lease operations, and
 to be disposed of at the gas treating installation. (See Exhibit No. 6).
- 7. Centralized lease tank farm.

 This installation includes steel storage tanks oil-water separation tanks, boilers for heating crude oil, heater-treaters and an oil skimming system to prepare produced brine for disposal to County Sewer Plant. It is anticipated that other than normal maintenance, repair or modification of this plant, the only addition will be the installation of a vapor recovery system and the installation of closed oil skimmer tanks to replace open cleaning system. (See Exhibit No. 7).
- 8. Fresh water pipeline system to connect to each oil well, tank farm installation and oil well steaming facilities.

 This system to be repaired or modified as required by secondary recovery production operations. (See Exhibit No. 8).
- facilities.

 These facilities have steam lines which connect the facilities with individual oil

Centrally located oil well steaming

9.

wells. Additional portable steamers are utilized in different locations where the steam is conducted from the steamers to individual wells (See Exhibit No. 9).

- 10. Gas engine driven and electric motor driven air compressors used to provide air for the air injection wells. (See Exhibit No. 10).
- 11. Pipeline system connecting air compressor plants with individual air injection wells. This system includes the necessary metering and control devices to control the air injection rate into each well. (See Exhibit No. 10).
- 12. Gas treater installations.

 These installations are composed of equipment which are used to convert waste gas to a quality as required by the Air Pollution Control District, together with the necessary pipeline system connecting the wells with the treaters. (See Exhibit No. 11).
- 13. Fencing around perimeter of lease.

 This chain-link fencing is installed and maintained in accordance with the requirements of the Orange County Department of Building & Safety. (See Exhibit No. 12).
- 14. Buildings for general office, field offices, employee change rooms, garages, heavy equipment repair shops, material storage yards, etc. (See Exhibit No. 12).

Section 4.

Describe those portions of the development that are completed, and give the dates of completion. The development to date has been the production of about 18,000,000 barrels of oil by primary and secondary recovery oil production methods. The operation required to produce this oil has been the drilling of 312 wells, together with the construction of the necessary support facilities listed in Section 3 above.

Section 5.

Describe those portions of the development that were under construction as of November 8, 1972 and February 1, 1973 and describe the stage of construction on each of those dates.

As of November 8, 1972, 295 wells had been drilled and 17 wells were under development.

As of February 1, 1973, 310 wells had been drilled and 2 wells were in process of being completed.

Section 6.

Describe those portions of the development remaining to be constructed.

Until the end of the lease term in 1994, it is anticipated that as explained in Section 3, the remaining development and operation of the property will require the drilling of additional wells along with the repair, redrilling or replacement of existing wells so that there might be a total of 340 wells in service at any given time. Other support equipment would be installed as and when required.

Section 7.

On what date did actual work on the development commence? If grading, foundation work, structures or similar items are involved, list separately the dates on which work on each of these items commenced. Estimate percentage of total work completed as of permit application date.

The actual development was started by Elliott-Signal in 1943. Operations and development since then have been continuous and in 1951 resulted in the determination that in-place oil was in excess of 100,000,000 barrels. In 1958 an insitu secondary recovery program was initiated. It is estimated that the 312 wells drilled to date are approximately 90% of the required number to complete the producing operations until 1994. The production to date is approximately 43% of the total estimated amount to be produced by the end of the lease termination in 1994.

Section 8.

List all required approvals, permits, and reports from any public agencies, including federal agencies, and list which of those approvals have been obtained and when. List those approvals, permits, and reports which remain to be obtained. Include copies of all permits, reports and approvals obtained.

Since the commencement of operations in 1943 by Elliott-Signal, the Applicant and its predecessors in interest have conducted all operations pursuant and subject to all necessary ministerial and discretionary permits from the appropriate governmental bodies having jurisdiction. These are the State of California Division of Oil and Gas, Orange County Building and Safety Department and the Orange County Air Pollution Control District.

Sample copies of the applications filed, together with the permits granted are included in this presentation (See Exhibits Nos. 13, 14, 15 and 16).

Section 9.

State the expected total cost of the development, excluding expenses incurred in securing any necessary governmental approvals and permits.

It is estimated that a total of \$66,000,000 will have been spent in the Banning Lease development and operation by the lease termination date in 1994.

Section 10.

State the amount of money which had been expended on the development (excluding all expenses incurred in securing any necessary governmental approvals).

To November 8, 1972 \$26,000,000

To February 1, 1973 \$26,600,000

Section 11.

List the amount and nature of all liabilities incurred and when they were incurred. List any remaining liabilities to be incurred and when these are anticipated to be incurred.

The extent and nature of liabilities incurred in this continuing development project are essentially covered in Sections 5 and 6 above. The remaining

liabilities to be incurred cannot be precisely detailed at this time, however, it can be assumed by extrapolation that the remaining liabilities should be approximately \$40,000,000.

Section 12.

Does the development contain a concept of phases or segments? Explain.

Yes.

The first stage or segment started in 1943 when Elliott-Signal drilled the first commercial producing well.

The second stage of development was the drilling by Macco Construction Company and Macoil Corporation of 109 wells and the installation of necessary support facilities, which proved the amount of oil in-place to be in excess of 100,000,000 barrels.

The third stage was initiation by G. E. Kadane & Sons of the insitu secondary recovery operations in 1958. This stage has been expanded and will continue until near the lease termination in 1994.

The fourth stage will be the orderly abandonment of the property in accordance with the rules and regulations of the appropriate governmental bodies and the returning of the surface of the ground as nearly as possible to its original condition.

Section 13.

When is it anticipated that the total development will be completed?

As indicated previously, under present lease terms the development will be terminated in 1994.

GENERAL CRUDE OIL CO.

AND

G. E. KADANE & SONS
SUPPLEMENT TO
EXEMPTION APPLICATION E-7-27-73-144
TO
CALIF. COASTAL ZONE CONSERVATION COMM.
SOUTH COAST REGION

GENERAL CRUDE OIL COMPANY

Home Office

California District Office

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September 7, 1973

R. M. SCARBOROUGH, DIST. MANAGER
P. O. BOX 1487
NEWPORT BEACH, CALIFORNIA
92663

TEL. (714) 642-3350

California Coastal Zone Conservation Commission 666 East Ocean Boulevard Suite 3107 Long Beach, California 90801

Gentlemen:

Re: Supplement to Exemption Application E-7-27-73-144
Applicant, General Crude Oil Company and
G. E. Kadane & Sons

This supplement to application No. E-7-27-73-144 is submitted in clarification of the planning that was and is involved in the development of the secondary recovery project area located on the Banning Lease, which development is the subject of the above referenced application.

In 1950 G. E. Kadane & Sons became interested in the purchase of a pre-existing oil lease on the Banning property, which property is more particularly described in the exemption application on file before this commission. G. E. Kadane & Sons was and is an independent oil producer and has developed and operated numerous oil leases in this state and other states in this country. Prior to making the decision to purchase the property, G. E. Kadane & Sons made a complete engineering study and appraisal of the Banning Lease and determined that there were in excess of 100,000,000 barrels of oil in place on this property. They also determined that only approximately 10% of this oil would be recovered utilizing primary oil production techniques. They further determined, however, that with appropriate planning and technical study, a substantial increase in the quantity of oil that could be recovered was possible using secondary recovery techniques.

The company then formulated a master plan for the development of the lease. Pursuant to this master plan they completed their purchase of the property. This master plan contemplated the employment of technical personnel who were experts in the field of secondary recovery, the acquisition of the equipment necessary to pursue secondary recovery, capital investment in wells and other producing facilities, the development of pilot studies to determine the most efficient methods of secondary recovery on the lease, the modification of provisions of the lease so as to permit the utilization of secondary recovery techniques, more extensive engineering and exploratory work on the lease, the development of a drilling and

production program on the lease which would take into account fluctuations in oil price over the term of the lease.

Since the purchase of the lease in 1951 by G. E. Kadane & Sons, they have proceeded in accordance with this master plan of development. Technical consultants have been continuously employed, operating personnel acquired, and a substantial training program utilized to develop the technical skills necessary in order to produce the lease.

They acquired and developed extensive equipment, including compressor plants, steam generating plants, additional tank farm and processing facilities; built and expanded an on-site office building; built repair shops and other similar facilities, developed an electrical distribution system; developed and installed an oil gathering pipeline system; developed and constructed many miles of inter-connecting lease roads; developed and installed an individual well production testing system and a gas gathering pipeline and metering system; developed and installed pipelines for a water distribution system; developed and installed a water cleaning system for disposal of brine; developed and installed pipelines for compressed air distribution; developed and installed a compression system for the treatment of produced gas; developed and installed a pipeline system to gather untreated gas, and developed and installed a steam distribution system.

They drilled 201 wells to February 1, 1973. As of November 8, 1972 295 wells had been completed and were on production and 17 were under development. Those 17 wells have now been completed and are on production. The 201 wells drilled after 1951 are in addition to the 111 wells which were in existence as of the date of the Kadanes' acquisition in 1951.

In 1958, pursuant to the master plan, pilot studies were developed to determine the most efficient methods of secondary recovery on the lease. It was determined that clusters of producing patterns consisting of producing wells surrounding an air injection well was the most efficient method of producing oil on this lease. Each pattern development interlocks with adjoining cluster developments. The master plan envisions the entire lease being covered by such cluster developments. In 1964 it was determined that these efforts should be augmented by steam stimulation.

In 1954 a lease modification was worked out with the lessor to allow secondary recovery operations to be conducted on the lease. After the successful development of the pilot program in 1958, another lease modification was made in 1960 to adjust royalty rates so as to differentiate between oil which would be produced by primary and secondary methods. In connection with this amendment monthly projections were made and encompassed into the modification

as to the anticipated oil production on the lease throughout its term if only primary production methods were utilized. This modification is effective only as long as insitu or thermal secondary recovery techniques are utilized. Complete engineering and reservoir evaluation work was completed on the lease prior to 1960 so as to insure that the most efficient methods were used to recover the oil reserve located within the boundary of the Banning lease, using secondary recovery techniques.

A drilling and production program was worked out. This program took into account fluctuations in projected oil prices over the remaining term of the lease. In accordance with this master plan the rate of development of the lease was slowed from 1958 through 1964 because of the reduction in oil prices in California. Since 1964 we have seen a reversal of the oil price trend, and as prices have increased there has been an accelerated development of the secondary recovery project.

The master plan in existence called for the development of 17 new wells in the latter part of 1972. These wells were under development as of November 8, 1972. The same plan called for an additional development of 28 wells in 1973. This latter group of wells would now be under development but for the passage of Proposition 20. The development of these additional wells would have brought the total number of wells completed on the lease to 340. Under the master plan this would be the total number of wells which would be required to be in operation at any one time on the lease. operation of the lease, however, will require that many wells now in existence be replaced or redrilled in order to fit into the pattern development required by the master plan throughout the lease. A critical requirement for the success of a full-scale insitu secondary recovery plan is the timely and orderly modification of individual wells or patterns. This modification includes the addition, moving, replacement, rework or abandonment of individual producing wells, injection wells or patterns; together with related support facilities and equipment.

The exhibits which accompany this letter of supplement delineate the approximate location of the 28 additional wells as they relate to the project area.

It is requested that this letter supplement and modify the application filed with the California Coastal Zone Conservation Commission, and that the claim for exemption by General Crude Oil Company and G. E. Kadane & Sons will be as follows:

1. Continued operation and maintenance of existing oil producing and injection wells and associated surface facilities. The "existing" wells to be defined as the 312 wells either drilled or in progress as of November 8, 1972.

- 5. Performing workover or remedial operation on existing wells necessary to maintain or improve their performance.
- 3. Replacement, redrilling and repairs to existing injection wells.
- 4. Replacement, redrilling and reworking of existing oil producing wells.
- 5. In compliance with the master plan, the drilling of 28 additional new wells within the project area.
- 6. In compliance with the master plan, replacement, redrilling and reworking of any of the 28 additional new wells.
- 7. In compliance with the master plan, construction of the necessary additional support, equipment and facilities for the 28 additional new wells.
- 8. Abandonment of wells in accordance with requirements and approval of the State Division of Oil and Gas and removal of surface equipment and pipelines per State and local agency requirements.
- 9. Future exploratory drilling within the lease area is not exempted and will require permits.

Respectfully submitted,

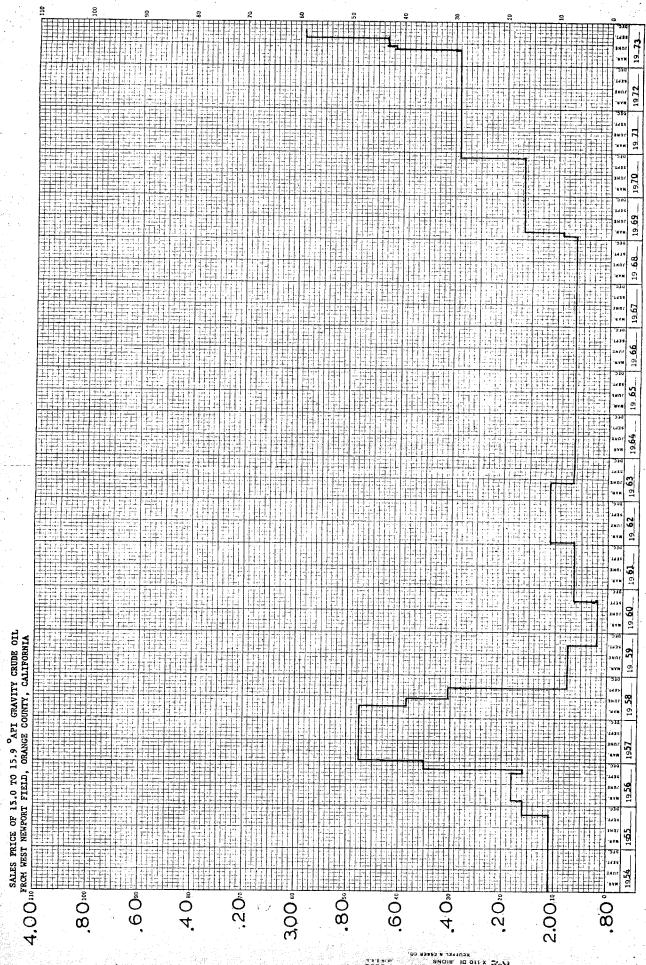
General Crude Oil Company and G. E. Kadane & Sons

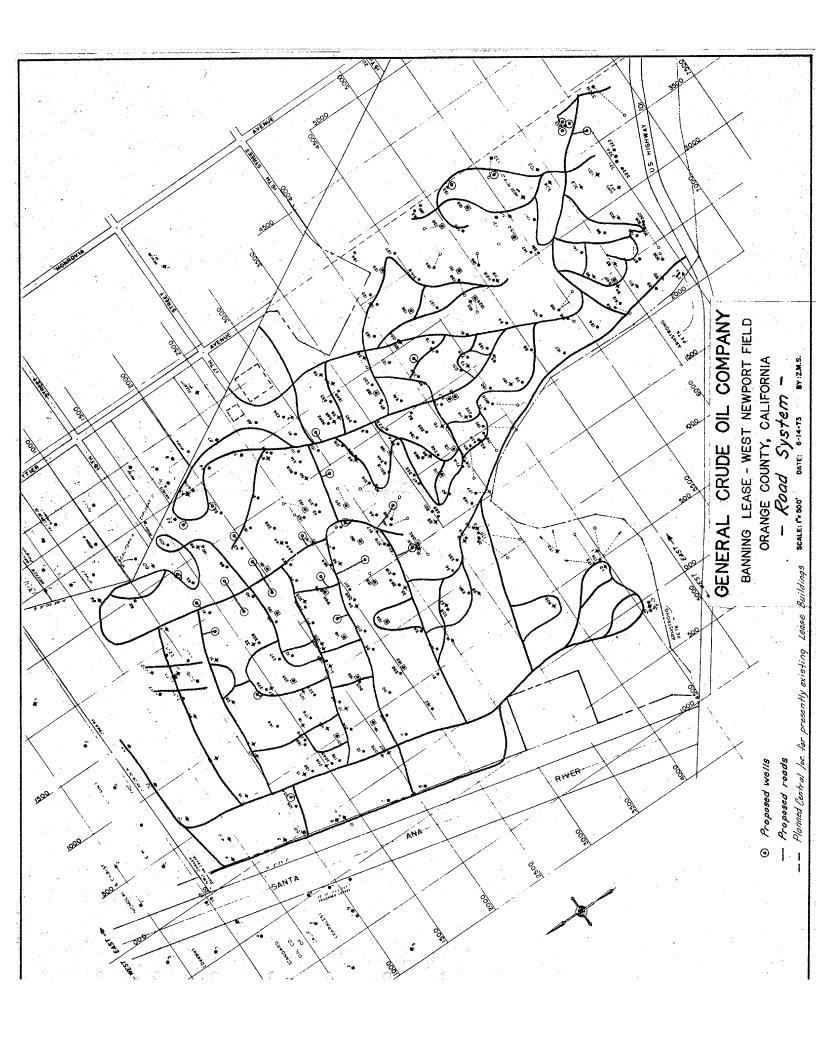
S. Gilstrap

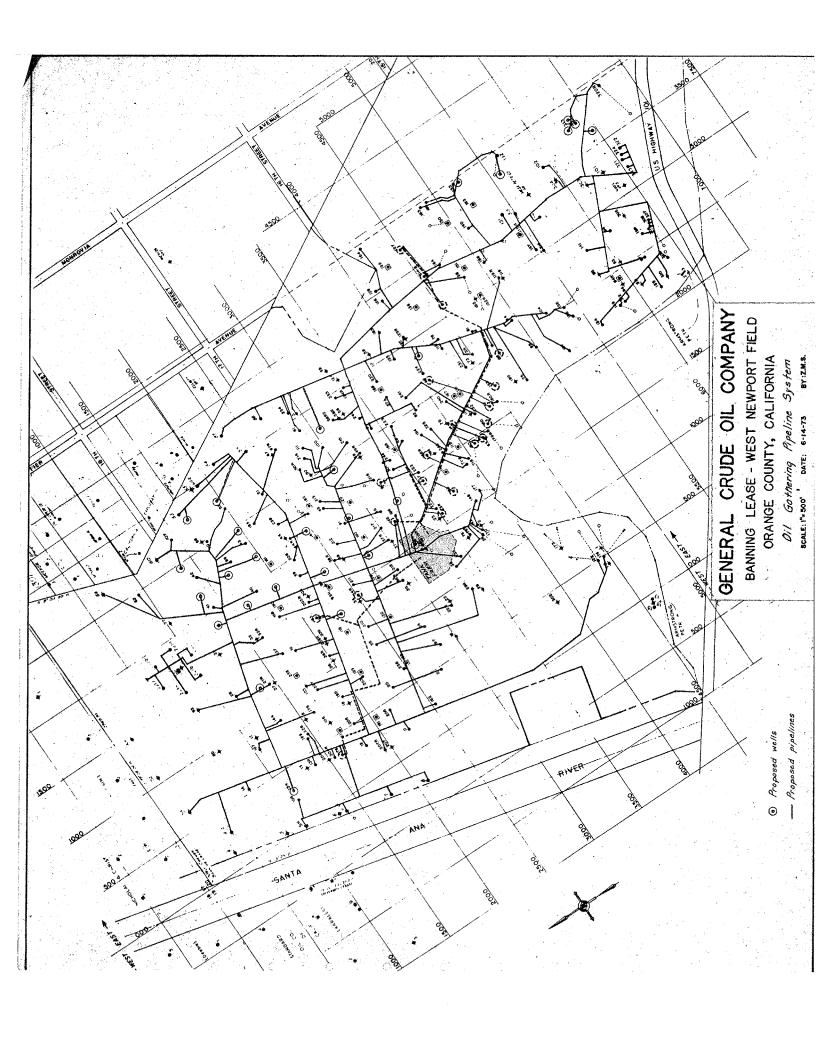
JSG/ba

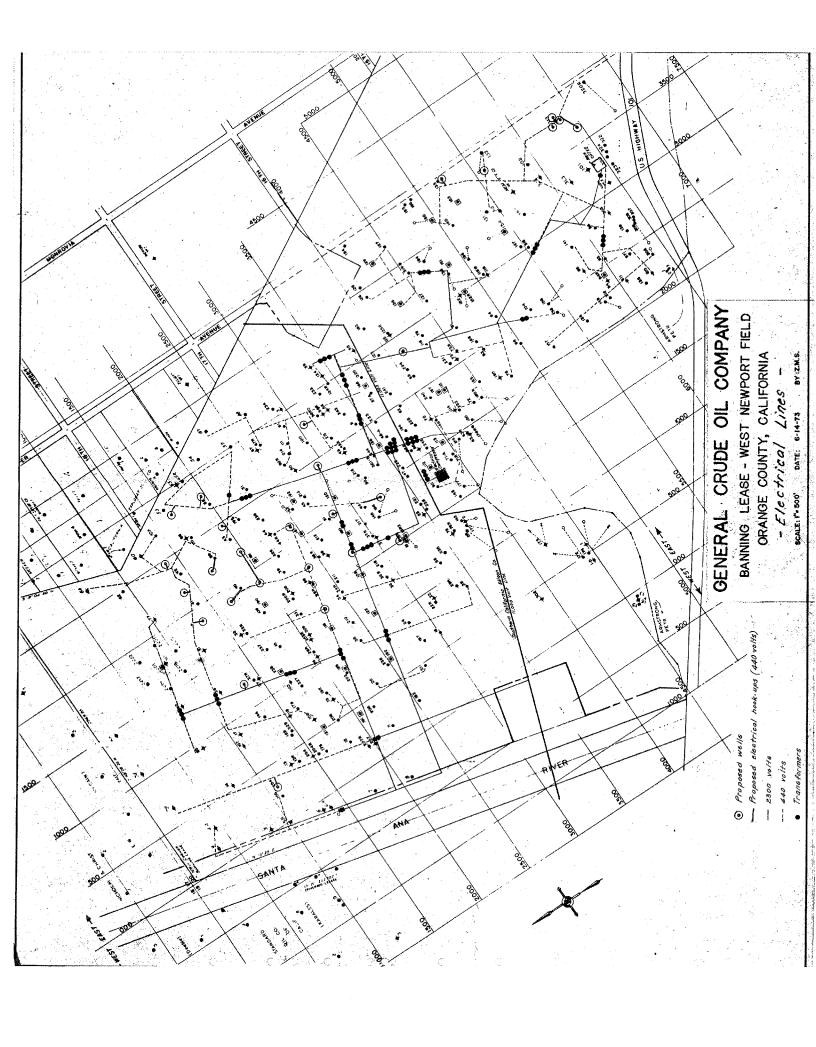
EXHIBIT INDEX

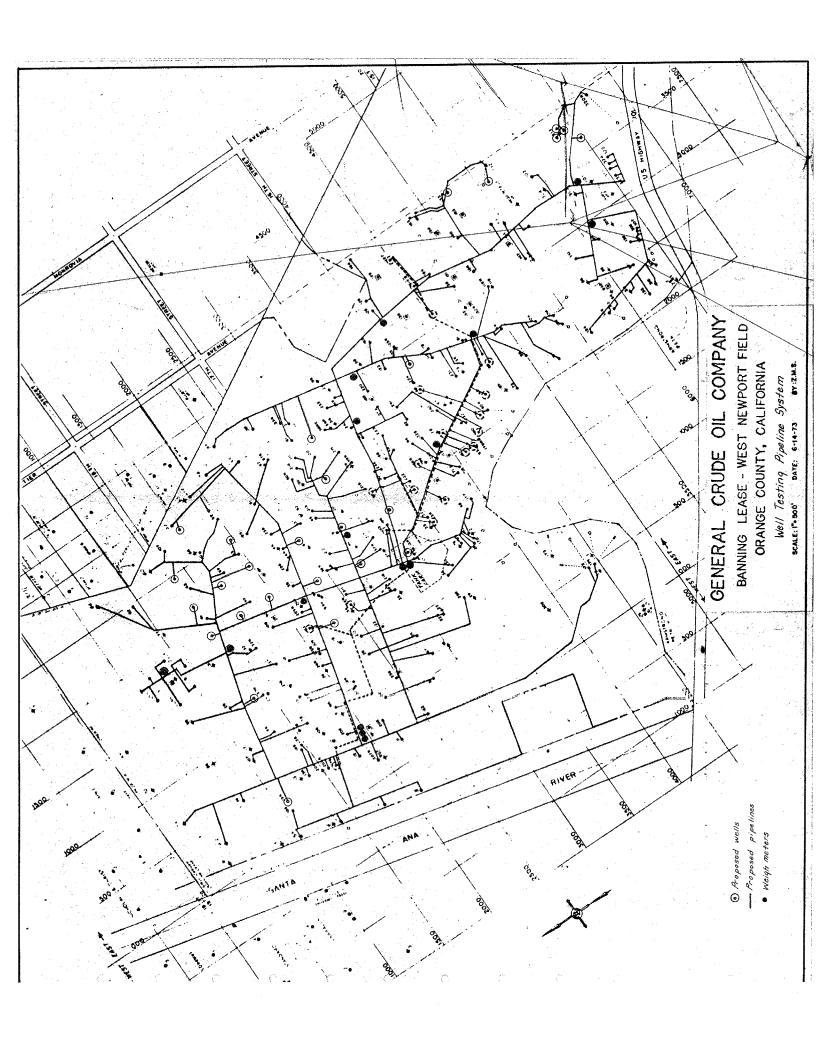
· No .	1	Banning Lease history of oil prices from 1954-1973.				
No.	2	Map showing lease road system.				
No.	3 .	Map showing oil gathering pipeline system.				
No.	4	Map showing lessee owned electrical distribution system.				
No.	5	Map showing pipelines and weighmeters for individual well production testing.				
No.	6 .	Map showing pipelines for gas gathering system.				
No.	7	Map showing pipelines for fresh water distribution system.				
No.	8	Map showing steamer locations and steam pipeline system.				
No.	9	Map showing air compressor plant locations, injection well locations and connecting pipeline system.				
No.	10	Map showing gas treater location and connecting pipeline system.				

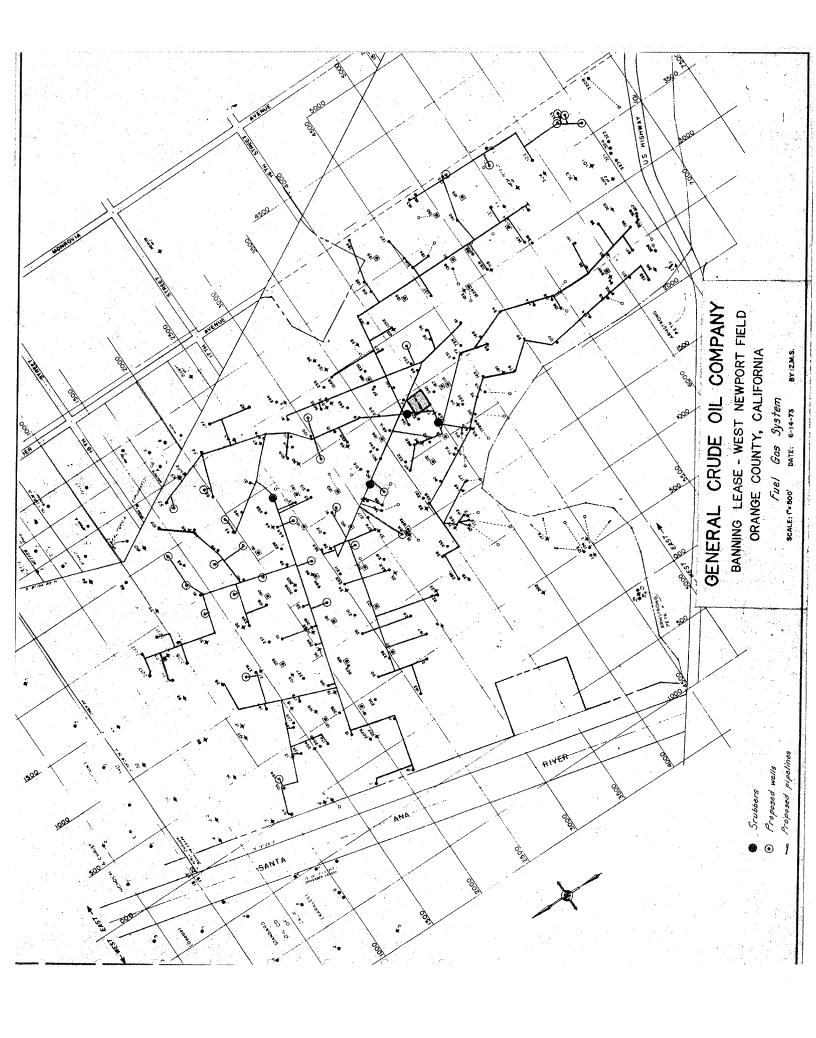


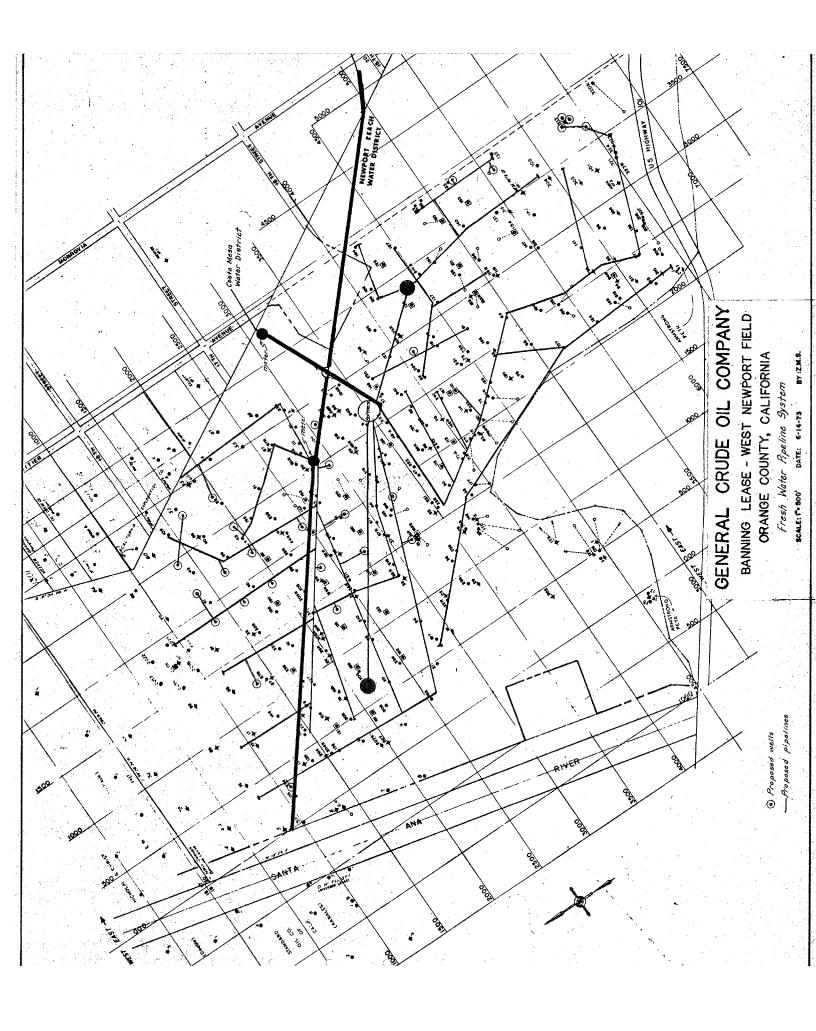


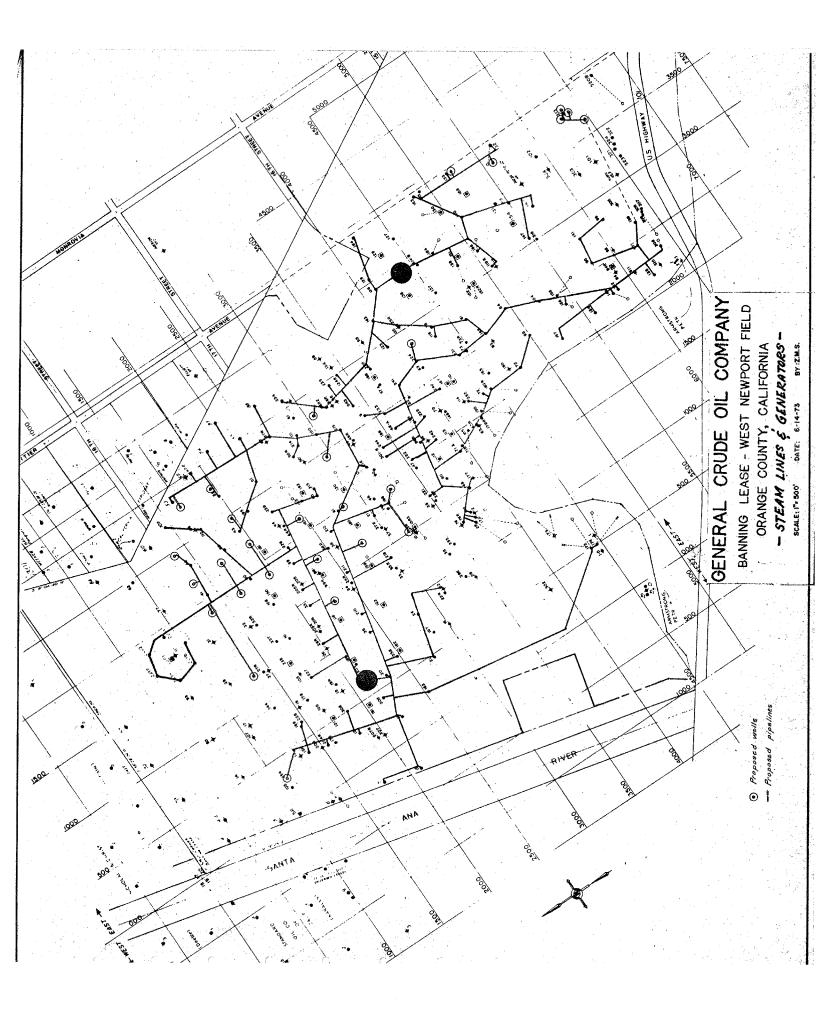


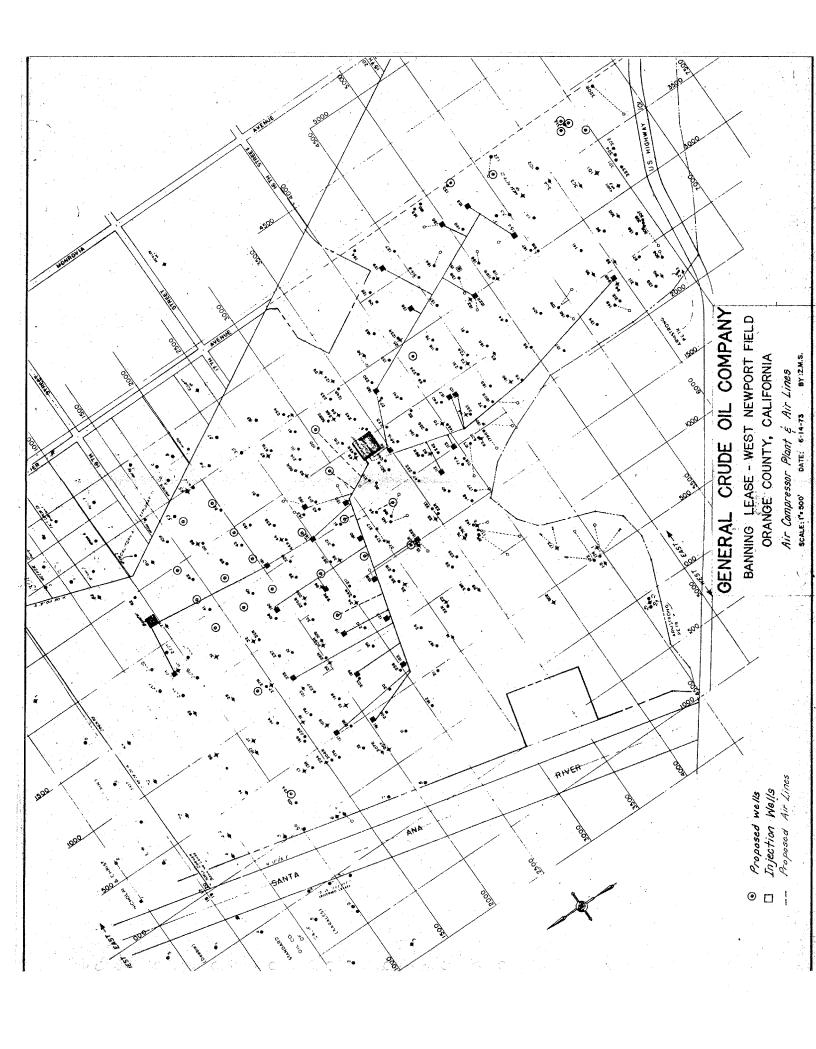


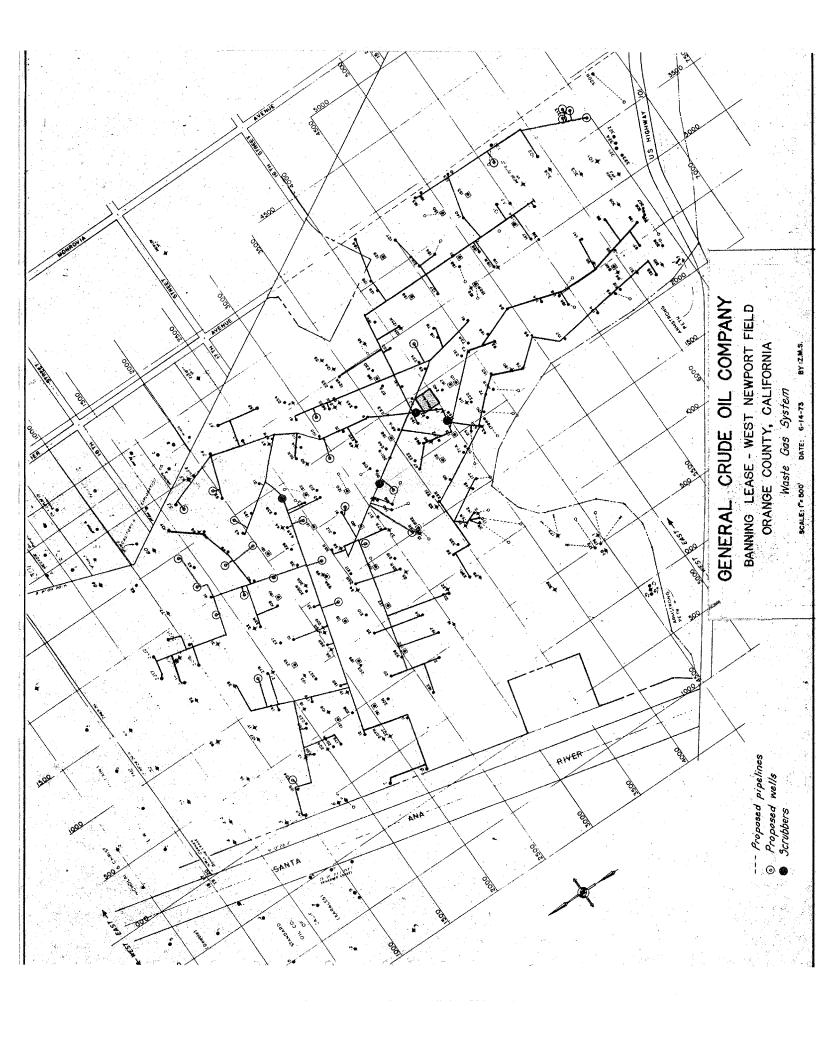












GENERAL CRUDE OIL CO. G. E. KADANE & SONS EXHIBITS FOR APPLICATION

TO.

CALIF. COASTAL ZONE CONSERVATION COMM.
SOUTH COAST REGION

FOR

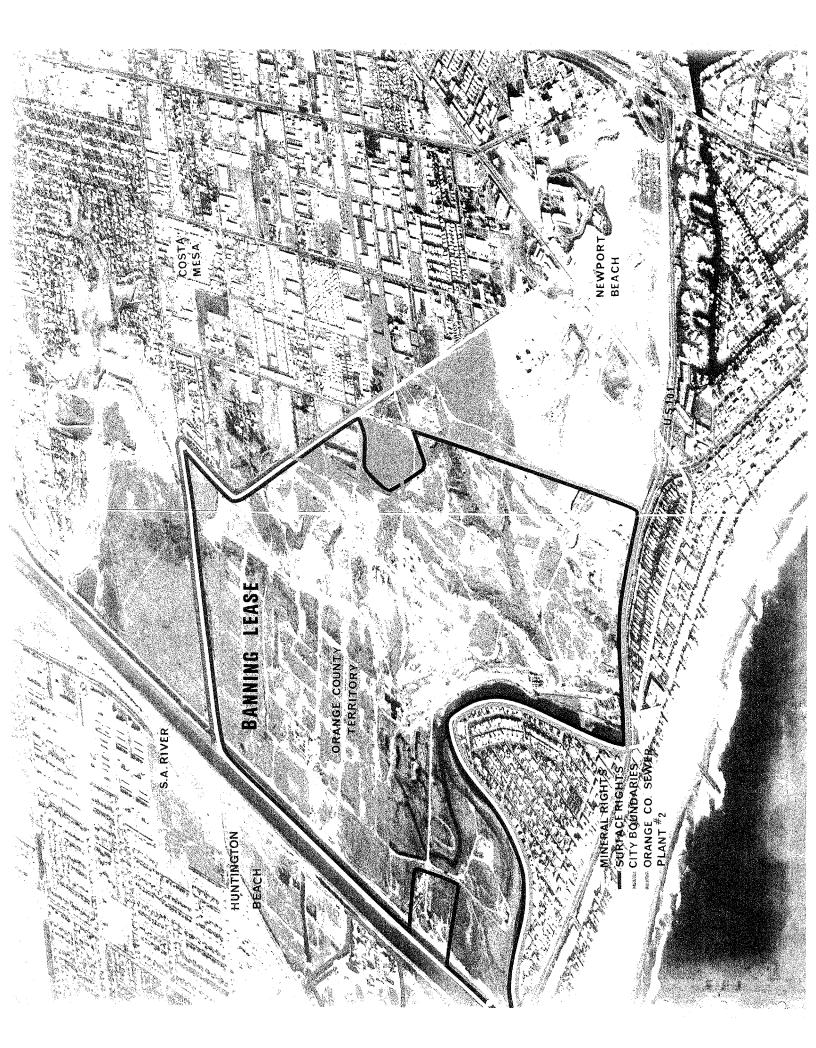
EXEMPTION UNDER VESTED RIGHTS (27404)

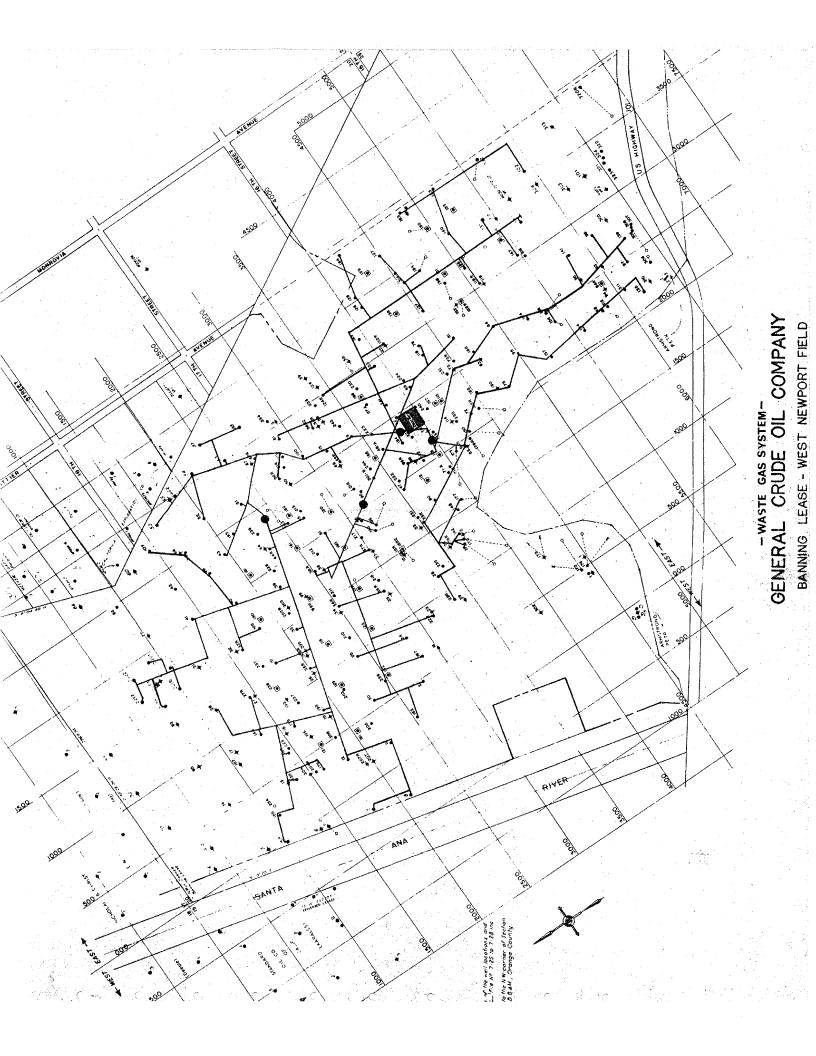
EXHIBIT INDEX

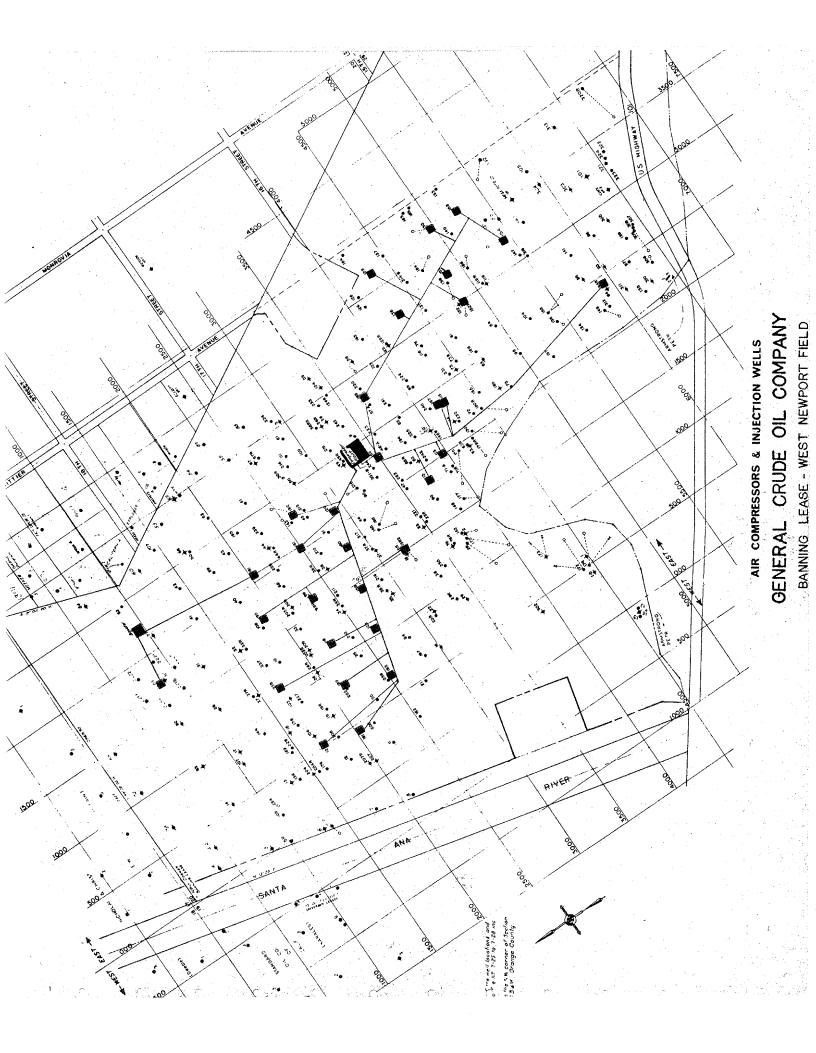
-	No.	1	Aerial photograph of Banning Lease showing surround- ing territory. Mineral lease and surface rights area are outlined.
	No.	2	Map showing lease road system.
	No.	3	Map showing oil gathering pipeline system.
	No.	4	Map showing lessee owned electrical distribution system.
	No.	5	Map showing pipelines and weighmeters for individual well production testing.
	No.	6	Map showing pipelines for gas gathering system.
	No.	7	Map showing location of crude oil storage tanks and produced water disposal system.
	No.	8	Map showing pipelines for fresh water distribution system.
	No.	9	Map showing steamer locations and steam pipeline system.
	No.	10	Map showing air compressor plant locations, injection well locations and connecting pipeline system.
	No.	11	Map showing gas treater location and connecting pipeline system.
	No.	12	Map showing location of fencing around perimeter of lease and buildings for general office, field offices, employee change rooms, garages, heavy equipment repair shops, material storage yards, etc.
	No.	13	Application to Division of Oil and Gas to drill new well and approval of application.
	No.	14	Application to Orange County Building and Safety Department to drill an oil well.
	No.	15	Copy of Orange County "O" Zone ordinance.

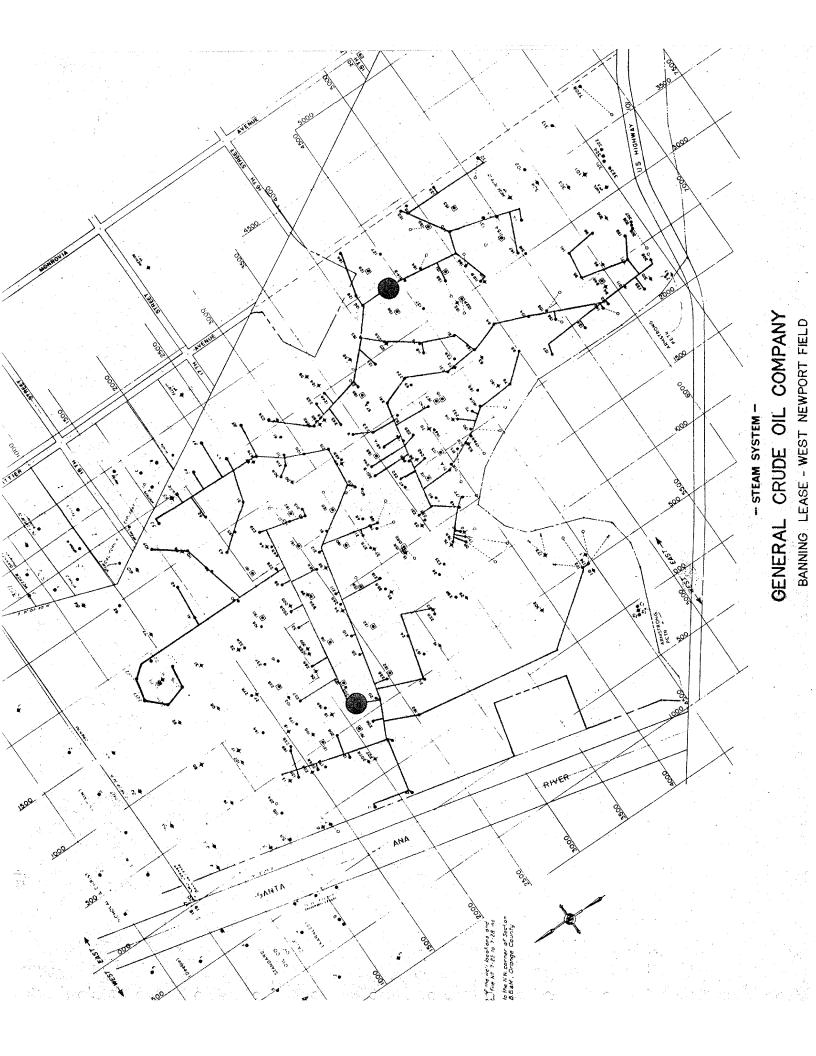
Application to Orange County Air Pollution Control District for authority to construct.

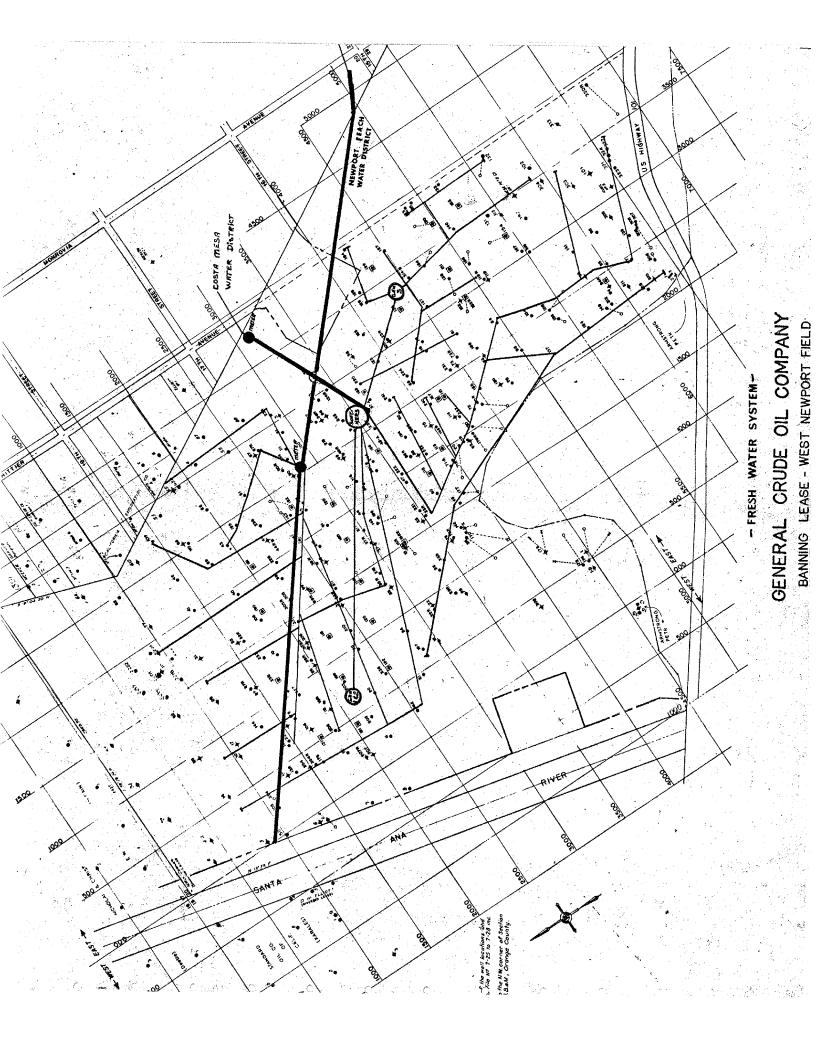
No. 16

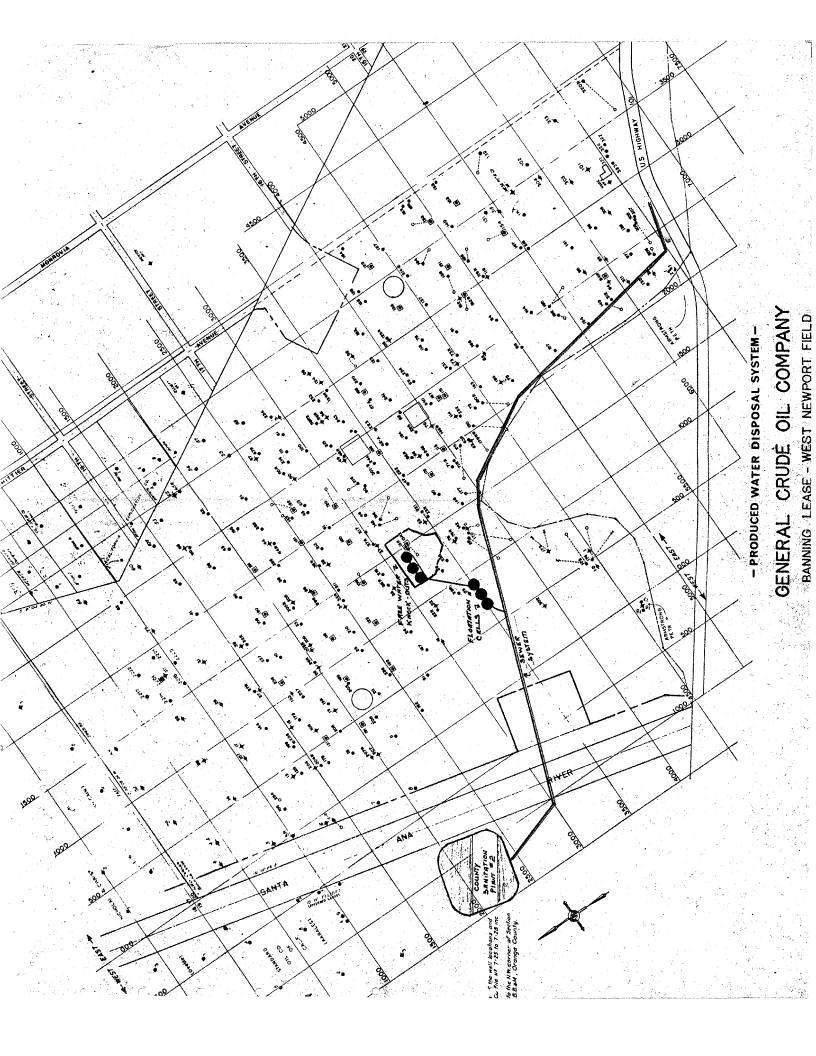


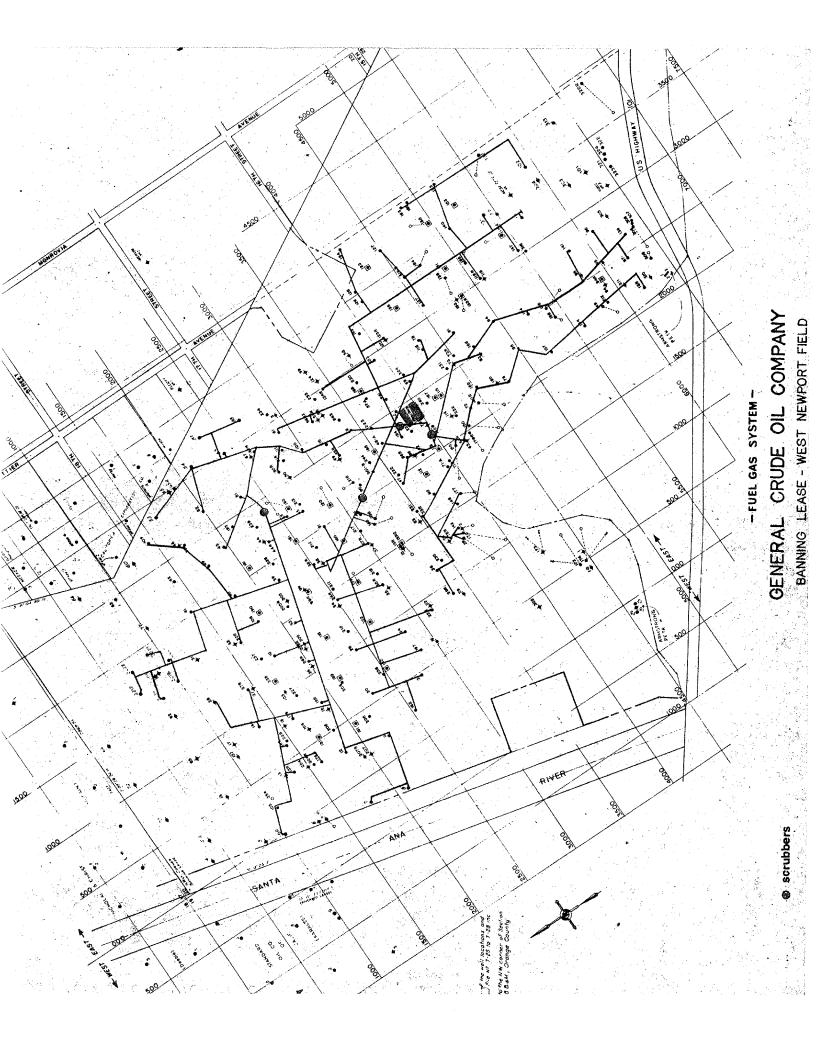


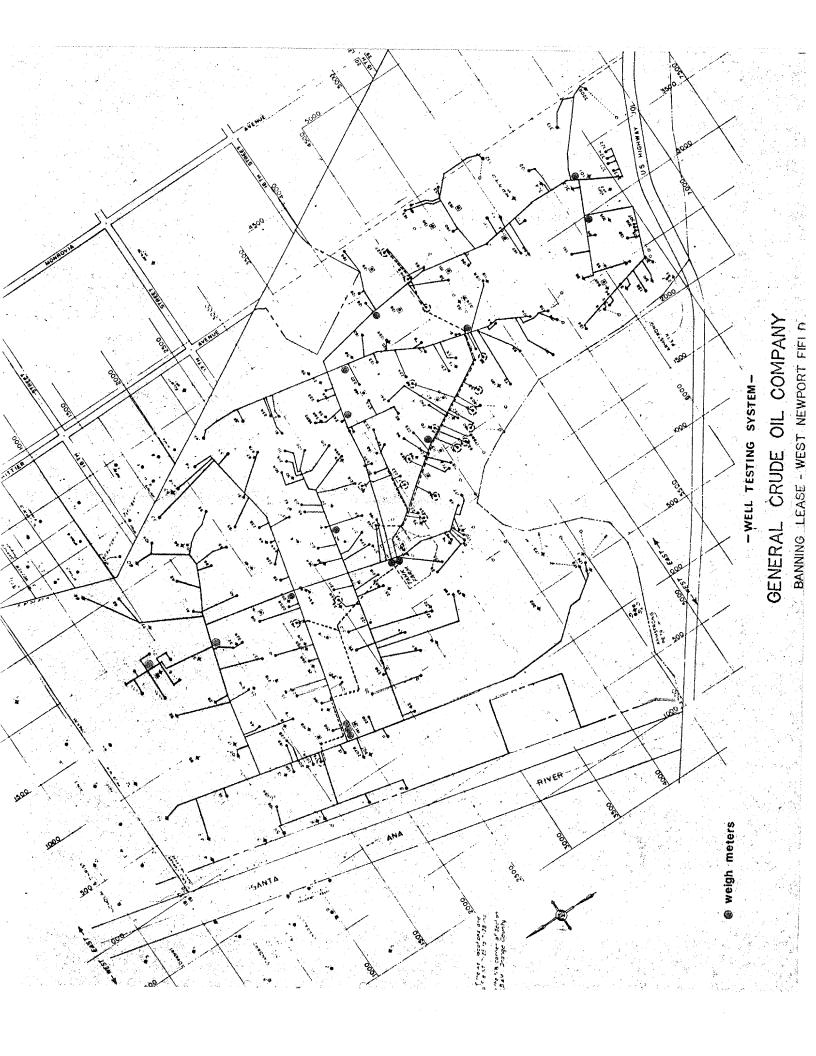


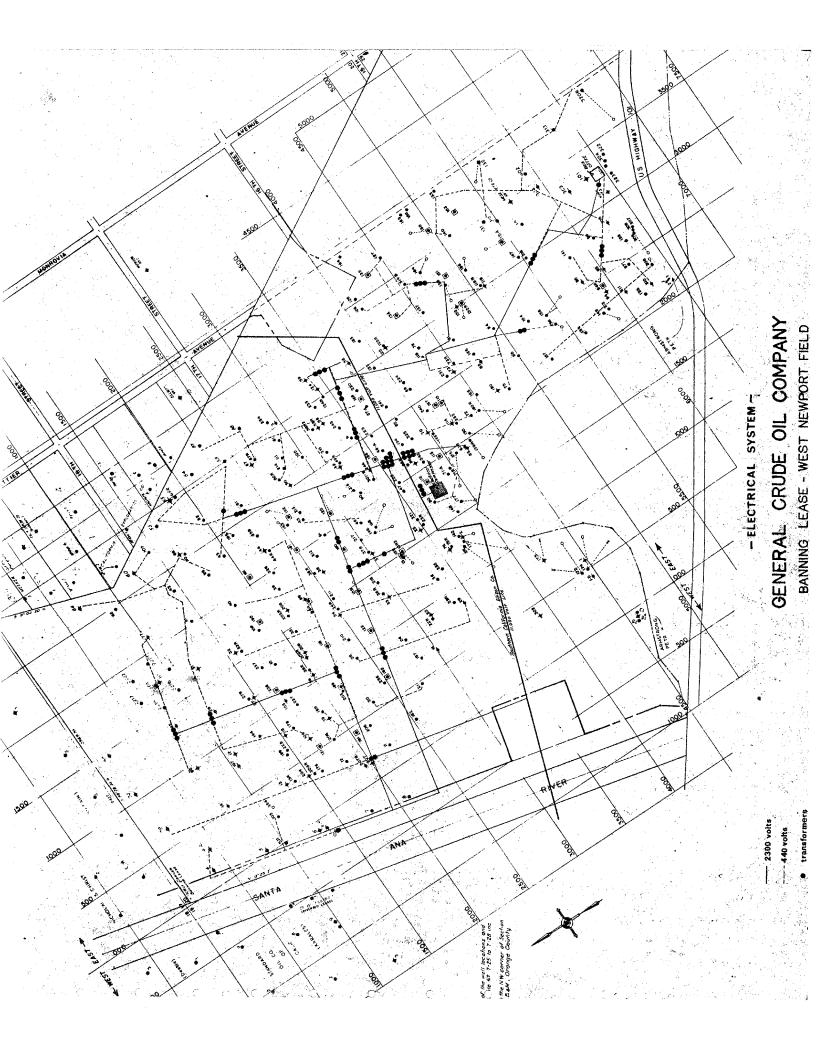


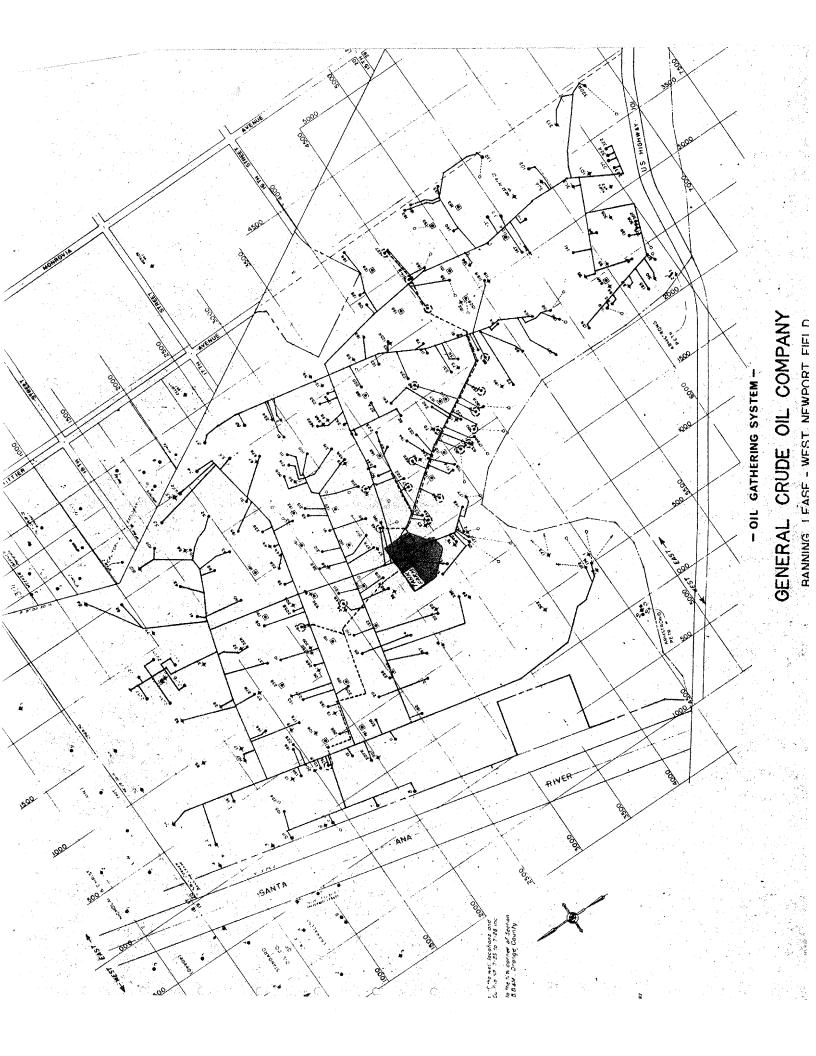


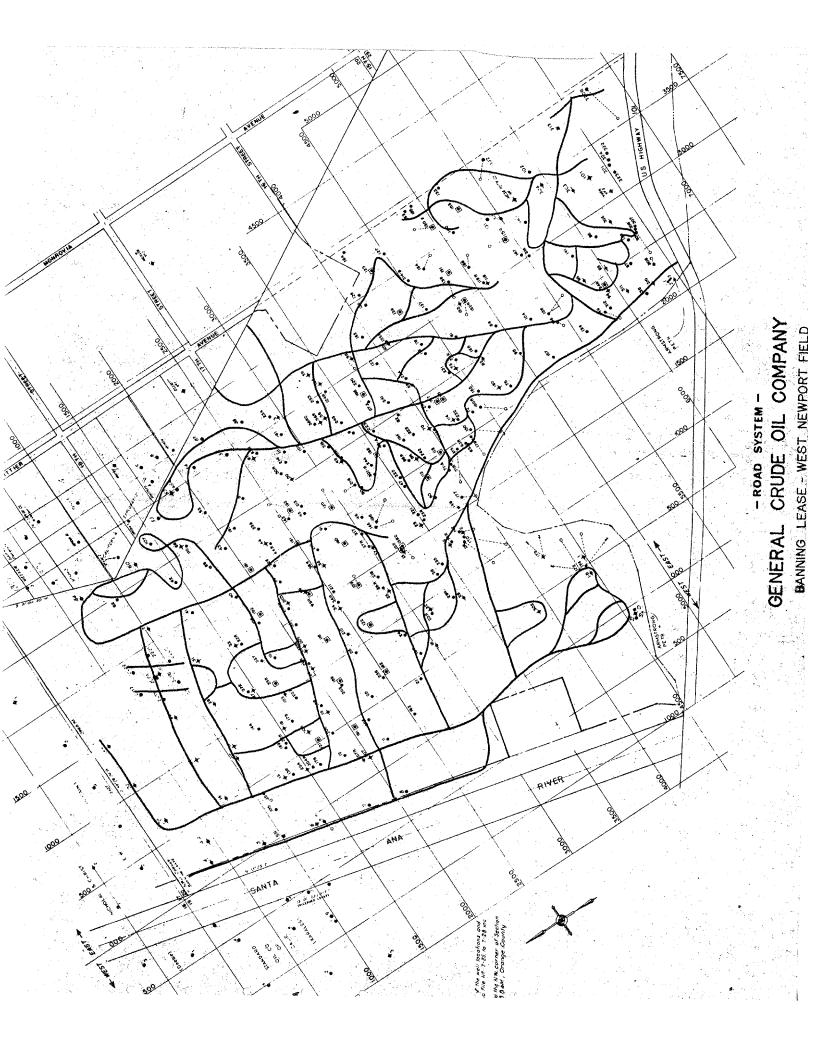












DIVISION OF OIL AND GAS

Notice of Intention to Drill New Well This notice and surety bond must be filed before drilling begins

•		<u>1</u>	Newport I	Beach C	dif. September 26 1972
DIVISION OF C	IL AND (GAS -			
In compliance v	with Section	3203, Division III,	Article 4, Pul	olic Resources Cod	de, notice is hereby given that it is our
intention to comm	nence drillin	g well No	Banning	240	, Scc. 20, T. 6 S.,
p 10 W. S	.B.B. & 1	M. West New	vport	Field,	Orange County.
			of 590)± acres, is as	follows: On file (Attach map or plat to scale)
Legal description	of mineral-i	ignt lease, consisting		•	(Attach map or plat to scale)
			,	*	
_				·	
Do mineral and su	rface leases	coincide? Yes	No	X If answ	ver is no, attach legal description of both
surface and miner	al leases, an	d map or plat to scale	2.	мижикх	2200 · Fact
Location of Well:	4085	feet Sout	th alor	ng section line and	2390 feet East (Direction)
at right angles to	said line Tre	om the	N.W.		corner of section 20
LV 2-8 1			•		
			÷		
*************************		• •			•
					datum.
All depth measure	ements take	n from top of	K.B.	able or Kelly Bushing)	which is 7 feet above ground.
•				NG PROGRA	
PART WELLER PART A LOCKET OF THE PART AND A STATE OF T		Contraction of the Contraction o	The state of the s	воттом	CEMENTING DEPTHS
SIZE OF CASING INCHES A.P.I.	WEIGHT	GRADE AND TYPE	TOP	BOTTOM	
10-3/4"	32#	H-40	0	401.	40' to surface
7"	23#	K-55	0 .	747	747' to surface
5-1/2"	17#	K-55	700	885'	Slotted liner
Intended zone (s) of completion:	A	Sand	747 (1	epth, top and bottom)	Estimated total depth885.
•			•		
		•	•• .		
				an nacassary We a	re to notify you immediately.
		•	ns plan becon		Crude Oil Company, Operator
Address	P. O. I	30x 1487	(General	(Name of Operator)
<u>Newport</u>	Beach,	Ca. 92663		By	1 Kandaray
Telephone Num	ber (714	4) 642-3350		Type of Organiza	tion Corporation (Corporation, Partnership, Individual, etc.)
2010 110110 2 10111	•	**		•	△ osp

DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

REPORT ON PROPOSED OPERATIONS No. P 172-1114

Mr. Robert L. Scarborough, Agent	Y., . 1	G 1:6
GENERAL CRUDE OIL CO., OPERATOR	Inglewood,	
P.O. Box 1487	October 2, 197	1.4
Newport Beach, CA 92663	•	
DEAR SIR:	(059-20604) Well No. "Banning" 240) .
Your proposal to drill	Well No	County
Section 20 , T.6S , R. 10W , S.B. B. & M., West Newport lated 9/26/72 , received 9/26/72 , has been examined in	conjunction with records filed in	this office.
THE PROPOSAL IS APPROVED PROVIDED:		
1. A COPY OF THIS REPORT SHALL BE POSTED AT THE WEI	· .	
 Drilling fluid of a quality and in sufficient que conditions in order to prevent blowouts shall be 	uantity to control all su	ıbsurface
3. The surface casing shall be cemented in competer equipment, conforming to this Division's Class I and maintained in operating condition at all tir	II requirements, shall be	ention e installed
4. THIS DIVISION SHALL BE NOTIFIED:		
 a. To inspect the installed blowout prevention b. To witness a production test within 10 days on production. 	after the well has been	
NOTE: This approval is granted under Sec. 3602.1 or	f the Public Resources C	ode.
ADS:dr		
cc Headquarters	•	
Blanket Bond		
•	•	
·	•	

RECEIVED

OCT - 3 1972

GENERAL CRUDE OIL CO.

JOHN F. MATTHEWS, Jr., State Oil and Gas Supervisor

By We Ingram, Deputy

FEDERAL INSURANCE COMPANY

Rider to be attached to and form a part of Oil Well Blanket Bond No. 8046-79-58 , executed by the Federal Insurance Company, effective February 1, 1971, in the amount of \$25,000.00

on behalf of General Crude Oil Company (Operator) and G. E. Kadane & Sons (Non Operator) and in favor of Orange County

In consideration of the premium charged for this bond, it is understood and agreed that the Federal Insurance Company hereby consents that , 1972 said bond effective from the 26th day of September shall be amended as follows:

Coverage under said bond is extended to include:

Banning Wells Nos. 194, 196, 240, 241, 242, 243, 244, Sec. 20, T6S., R1OW., S.B.B.&M. Survey, West Newport Field, Orange County, California

The above amendment is made subject to all the terms and conditions of the attached bond.

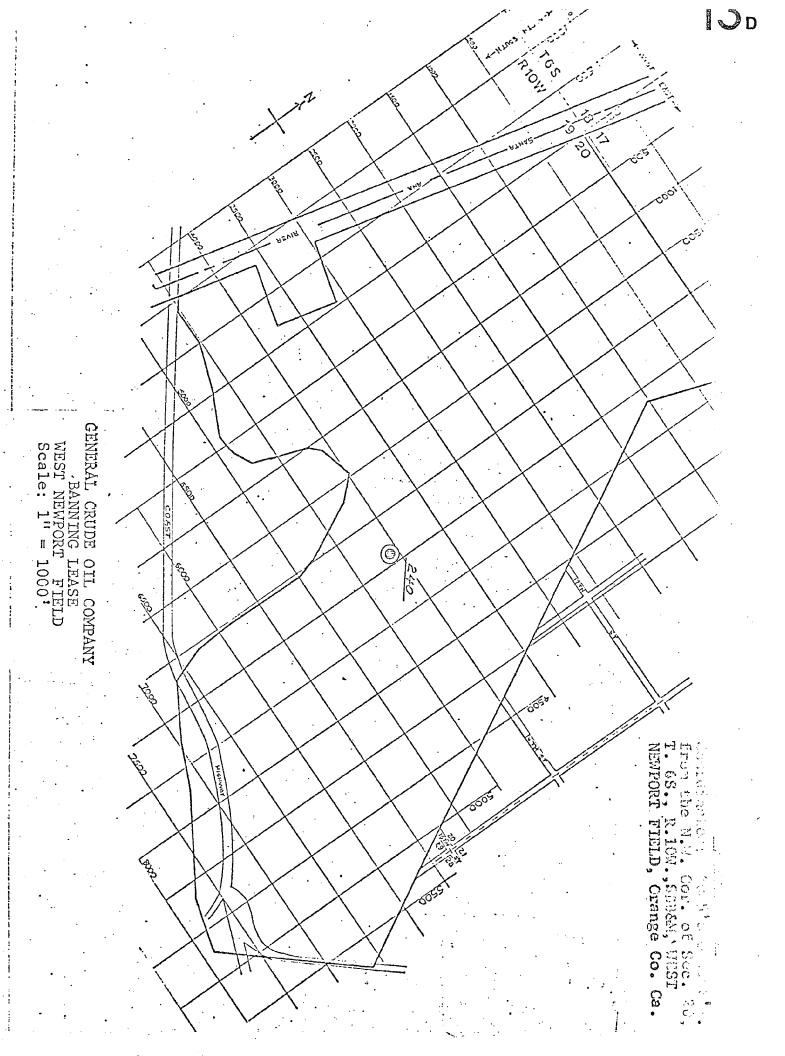
The liability of the Federal Insurance Company under the attached bond and/or this rider shall in no event be cumulative, nor shall it exceed in the aggregate the sum of Twenty-Five Thousand Dollars (\$25,000.00).

Signed, sealed, and dated this 26th day of September, 1972.

FEDERAL INSURANCE COMPANY

GENERAL CRUDE OIL COMPANY

David C. Fisher Attorney-in-Fact



400 Civic Center Drive West · Santa Ana, California 92701 Phone (714) 834-2626

APPLICATION FOR PERMIT TO DRILL AN OIL WELL

TO BE FILLED IN BY APPLICANT	FOR OFFICE USE ONLY	
WELL NAME	ZONING REGULATIONS	
OPERATOR General Crude Oil Co., Operator P. O. Box 1487 Newport Beach, Ca. 92663	APPLICABLE CONDITIONS PRIMARY SECONDARY "O" DISTRICT X	
LAND OWNER Beeco, Ltd.	A.P. 114-170-23 DIST. NO. 5/A	
ADDRESS 1010 N. Main St. PHONE 558-9333 Suite 725, Santa Ana, Ca.92701	ZONING APPROVED BY NEW DATE 10-16-72	
RESIDENT AGENT ON WHOM NOTICES MAY BE SERVED	NOTICES REQUIRED	
NAME R. M. Scarborough		
P. O. Box 1487 PHONE 642-3350 Newport Beach, Co. 92663	 TRANSFER OF OPERATOR SUSPENSION OF DRILLING OR RE-DRILLING 	
NO. OF DWELLINGS WITHIN 150' None 660' None 1320' None	3. RESUMPTION OF DRILLING	
DISTANCE NO. OF ASSEMBLY BUILDINGS, TO NEAREST INSTITUTIONS AND DWELLING 2200 & SCHOOLS WITHIN 860' NOTE	4. CHANGE IN DRILLING CONTRACTOR 5. ABANDONMENT	
EXCEPTIONS REQUESTED: Yes No 및 . (Must be detailed in separate written request.)	THIS IS A PERMIT WHEN PROPERLY FILLED OUT, SIGNED AND RECEIPTED IN VALIDATION SPACE BELOW.	
BOND NO. 8046-79-58 SURETY Federal Insurance Co.	This permit shall be null and void upon the expiration of sixty	
ACCESS RIGHTS TO SITE Granted previously 5.7 Attached	days from and after the date hereof unless the work for which this permit is issued shall have been commenced and is being diligently prosecuted towards completion.	
drilling contractor: General Crude Oil Co.	Permission is hereby granted to drill an oil well as described in this application, subject to the provisions of Title 7, Division 7 Article 1, and Division 8, Article 2 of the Codified Ordinances of Orange County.	
"I Hereby acknowledge and state that the information I have provided is correct and agree to comply with all applicable County Ordinances and State Laws."	RECEIVED	
	OCT 24 1972 GENERAL CRUDE OIL CO.	
Signature District Manager Dote 10-2-72	Department of Building and Safety F. G. McLellan, Jr., Director	
LEGAL DESCRIPTION (ATTACH TWO) PLOT PLANS (ATTACH TWO)	By State Chief Tax Star District	
On File VALIDA		
907 1972 210, 979 150.60 *	7 5 150.00 *	

F 0152-196

90T 19772

ORDIHANCE NO. 2613

AN GROINAMCE AMENOING SECTIONS 77.012, 77.013, 77.018, 77.019, 77.0117, 77.0113, AND 77.0114 AND ADDING SECTIONS 77.013.0, 77.013.1, 77.013.2, 77.013.4, 77.013.4, 77.013.17, 77.013.17, 77.013.18, 77.013.19, 77.013.19, 77.013.19, 77.013.19, 77.013.19, 77.013.19, 77.013.10, 77

The Board of Supervisors of the County of Orange, California does ordain as follows:

SECTION 1. Sections 77.012, 77.013, 77.018, 77.019, 77.0112, 77.0113, and 77.0114 of the Codified Ordinances of the County of Orange are hereby amended to read as follows:

Sec. 77.012. Purpose.

- (a) It is the intent of this Code to regulate the exploration and drilling for and the production of petroleum so that this activity may be conducted in harmony with other uses of land within this County, thus protecting the people of the County of Orange in the enjoyment and use of their property and providing for their comfort, health, safety, and general welfare.
- (b) It is further the intent of the County Board of Supervisors that petroleum operations shall be permitted in all districts within this County subject to the application of this Code, the requirements of which have been carefully designed for the fulfillment of the intent expressed in (a) above.

Sec. 77.013. Definitions.

The following terms as used in this Code shall, unless the context clearly indicates otherwise, have the respective meanings herein set forth in Sections 77.013.1 through 77.013.26.

Sec. 77.018. Drilling and operating.

(a) Location of oil wells.

(1) No oil wall shall be drilled within the following distances measured from the center line of any local street, or any highway shown on the Master Plan of Arterial Highways, as amended:

Major Highways Primary Highways Secondary Highways Local Streets

210 fcet 200 feet 190 feet 180 feet, except

that in the case of a local street, the right of way of which is wore than 50 feet in width, the distance shall be 150 feet plus one half of the existing right of way. In the case of a local street, the right of way of which is more than sixty (60) feet in width, tho Superintendent may determine that because of the degree of slope or other feature of the topography, a lesser distance than one half of the right of way in addition to the one hundred fifty (150) feet is reasonable to insure the safety of the traveling public in conformity with the purpose and intent of this provision, in which case the distance thus set by tha Superintendent shall prevail.

No oil well shall be drilled within one hundred fifty (150) feet of the nearest rail of a railway which carries passengors for hire.

- (2) No oil woll shall be drilled within one hundred fifty (150) feet of any building used for human occupancy, nor shall any such buildings be erected within one hundred fifty (150) feet or any oil wall not abandoned, except buildings incidental to the operation of the well. No oil well shall be drilled within one hundred fifty (150) feet from the outer boundary line.
- (3) No oil well shall be drilled within three hundred (300) feet of any building used as a place of public assemblegs, institution, or school; nor shall any such building be erected within three hundred (300) feet of any oil well not abandoned.
- (4) The Superintendent may suspend any provisions of Subsection (a) in whole or in part, or impose less restrictive requirements if such provisions or requirements are rendered unnecessary or unressentably the then existing superial features, such as: topography, nature of the use and occupancy of and the proximity to buildings on edjoining property, the height, character and structure of such buildings, the type and character of oil field development and may impose additional safety requirements rendered necessary because of such special features.

(b) Private roads and drill sites. .

Prior to commencement of any drilling operations, all private roads used for access to the drill site and the drill site itself shall be surfaced by cleen, crushed rock, gravel, or decomposed granite, or offed, and maintained to prevent dust and mud.

In particular cases these requirements governing surfacing of private roads and drill sites may be altered at the discretion of the Superintendent after consideration of all of the circumstances including but not limited to distances from public streets and highways, distances from adjoining and nearby property owners whose surface rights are not leased by the operator and the purposes for which the property of such owners are or may be used, topographical features, nature of the soil and exposure to wind.

(c) Derricks.

All derricks and masts hereafter erected for drilling or re-drilling shall be at least equivalent to the current American Petroloum Institute Standards.

(d) Stans.

A sign having a surface area of not less than two (2) square feet and no more than six (6) square feet bearing the current name and number of the well and the name ard/or insignia of the operator shall be displayed at all times from the commencent of drilling operations until the well is abandoned. In the event there are more than two (2) producing wells on one leashold, it shall be sufficient if the entrances to Kaid leatehold are posted with a sign not less than 18 inches by 24 inches bearing the name of the operator together with the name or designation of the lesse, together with an openly visible sign on each producing well designating the particular number thereof.

(c) Blow-out prevention.

Protection shall be provided to prevent the blow-out of an oil well during drilling and re-drilling operations and shall conform to the requirements of the California Administrative Code, Title 8, Petroleum Safety Orders-Drilling and Production, Article 55, Blow-Out Prevention, Sections 6691, 6691.1, and 6591.2.

(f) Blow-out prevention for walls other than drilling walls.

(1) Protection shall be provided to prevent the blow-out of an oil well, conforming to the requirements of the California Administrative Code, Title 8, Petroleum Safety Orcers-Drilling and Production Article 55, Blow-out Prevention, Section 6692, in the following cases:

a. During perforating, shooting, or cutting off a string of casing.

b. During well servicing operations on a well that is known to have sufficient gas pressure to cause the well to flow, or where the gas pressure is unknown.

(2) The operator shall notify the Superintendent, in writing, at least one (1) day before any of the operations described in this Subsection are commenced. In the event that the day following the day on which notice be given fails on a Saturday, Sunday, or holiday, then such additional days notice must be given as may be required so that there shall be one day, Saturday, Sunday and holidays excepted, between the date notice be given and any of the said operations commenced.

(g) Waiver of blow-out prevention requirements.

The blow-out preventive requirements of the foregoing Subsections (e) and (f) may be waited by the Superintendent upon such conditions and for such operations as he may determine, upon written application by the operator and upon a showing by him of sufficient cause therefor based upon information regarding depth of hole, probable gas pressures to be encountered, the proposed offiling, completion, or abandomment program or whatever further information the Superintendent may require.

(h) Drilling and production waste control.

Rotary mud, drill cuttings, oil field waste, oil or liquid hydrocarbons and all other oil field wastes derived or resulting from, or connected with the drilling of any well shall be discharged into a sump hole or steel tark. Such drill outlings, rotary mud, and drilling waste materials shall be removed from the drill site upon completion of drilling operations. Tanks used as and for sump purposes shall be removed from the drill site and sump holes shall be drained and back filled within thirty (30) days from and after completion of drilling.

Furthermore, all waste water and all other waste materials resulting from production operations, shall be disposed of into an appropriate waste facility such as, but not limited to, an existing sump, a waste water disposal system, or a sewer, subject to the approval of the agency governing the facility involved.

Excepting temporary sumps for the disposal or storage of materials used for or produced by drilling operations, no new sumps or ponds shall be created without the written approval of the Superintendent of Building and Safety.

All sumps or sump holes and all oil well production equipment having external, moving parts hazardous to life or limb shall be attended 24 hours per day or be enclosed by a steel chain link type fence not less than six (6) feet in height and in addition having not less than three (3) strands of barbed wire sloping outward at exproximately a 45° angle and for eighteen (16) inches from the top of the fence. There shall bu, no aperture below such fence greater

than four (4) inches. Fence gates shall be placed at nonhazerdous locations and shall be locked at all times when unattended by a matchman or service man.

(1) Cellars.

The following regulations shall apply to cellars:

- Every cellar shall be constructed in accordance with the current Uniform Building Code, as amended and adopted by the Board of Supervisors of the County of Orenge.
- (2) Such cellars shall be kept free from water, oil drilling fluids, or other substances which might constitute a hezard, except during drilling and servicing operations.
- (3) The depth of such cellars shall be the vertical measure-ment between the lowest point of the floor area in the bottom of such cellar and the lowest point of ground or any surface adjacent to the top of the cellar wall.
- (4) All multi well collars exceeding three (3) feet in depth and twenty-five (25) feet in length shall have two separate means of exit or entrance. If the collar exceeds fifty (50) feet in length, one of the means of entrance or exit shall be a stairway. If the collar exceeds two hundred (200) feet in length, a third means of entrance or exit shall be provided.
- (5) Fulti well cellers shall have a steel grate covering with no unubstructed openings in excess of three (3) inches. Paterials, equipment, or other appurtenances shall not be stored or placed on the grating so as to interfere with the escape of gases and vapors.

(k) Removal of equipment.

All drilling equipment and the derrick shall be removed from the premises within sixty (60) days following the completion, abandonment or desertion of any well. Once the well is a producing well, it shall be serviced with a portable derrick when required. Drilling operations shall be diligently prosecuted until the well is completed or abandoned.

(1) Soundproofing.

Soundproofing shall comply to the following specifications when required by the provisions of Section 78.024 of this little. Soundproofing accoustical blankets for the drilling derick and accessory structures shall be: fiftness glass insulation 14" thick, 0.50 pounds per cubit foot, density, 0.063 pounds per square foot, weight, 0.00010 to 0.00015 fiber diameter (inches) with a phenolic binder having a temperature lind of 450° F. seved between layers of fire retardent, vinyl fiber glass cloth, 15-17 cunces per square yard seved with dacron thread 0-92 with stitches not more than 6 to the inch. The lacing cord shall be flat vinyl coated tape composed of fibrous glass yarm braided, heat set and bounded. The tape shall have a 50 bound tensil trength. Grommat; shall be 44 bress. All doors and similar openings shall be kept closed, during drilling operations, except for ingress and egress.

(m) Alternate materials and methods of construction.

The provisions of this Code are not intended to prevent the use of any material ormathod of construction not specifically prescribed by this Code, provided any such alternate has been approved. this Code in quality, strength, offectiveness, fire resistence, durability and safety.

The Superintendent shall require that sufficient evidence or, proof be submitted to substantiate any claims that may be made regarding its use. Whenever there is insufficient evidence of compliance with the intent of this Code or evidence that any material or any construction does not conform to the requirements of this Code, or in order to substantiate claims for alternate materials or methods of construction, the Superintendent may require tests as proof of compliance to be made at the expense of the owner or his agent by an approved agency.

Test methods shall be as specified by this Code, for the material in question. If there are no appropriate test methods specified in this Code, the Superintendent shall determine the test procedure.

Copies of the results of all such tests shall be retained for a period of not less than two (2) years after the acceptance of the materials or methods.

(n) Sanitary facilities.

Sanfaury facilities shall be provided at the drill outs during all drilling or re-drilling operations and shall be in counsiance with the Standards of the Orange County Health Department.

Sec. 77,019. Abandonment procedure.

It shall be the responsibility of the Superintendent of etermine that the drill site and all facilities pertinent thereto have been restored to their original condition as nearly as practicable in conformity with the regulations of this Code including the following requirements:

(a) Standard.

- (1) It shall be the responsibility of the operator to comply with the abandonment provision of this Code and he shall furnish the Superintendent the approval of the Division of Oil and Sas, Oppertment of Natural Resources, confirming compliance with all abandonment proceedings under the State laws.
- It shall be the responsibility of the operator to comply with the abandonment provision of this Code and he shall furnish the Super-intendent with a) copy of the approval of Division of Oil and Gas, Department of Natural Resources, confirming compliance with ell bandonment proceedings under the State law, and b) a notice of intention to abandon under the provisions of this Section and stating the date such work will be commenced. Abandonment may then be commenced. Abandonment may then be commenced on or subsequent to the Cate so stated.
- Abandonment shell be approved by the Superintendent after restoration of the drill site and the subsurface thereof has been accomplished in conformity with the following requirements:
- a. The derrick and all appurtenant equipment thereto shall be removed from the drill site.
- b. All tanks, towars, and other surface installations shall be removed from the drill site.
- c. All concrete, pips, wood, and other foreign materials shall be removed from the drill site to a depth of six (6) feet below grade, unless part of a multi well caller then being used in connection with any other well for which a permit has been issued.
- 8. 'The oil wall casing shall be cut off at a point six feet (6') below the drill site grade at the cellar, but in no case below see level. Nothing shall be placed in the hele above the point of cut-off until the cut-off has been inspected by the Superintendent and by him found to be in compliance with all applicable provisions of law.
- e. The top twenty-five feet (25') of the remaining taking shall be filled with a cement plug to prevent gas fumes from escaping.
- the well casing shall be tack welded to the casing in a minimum of four (4) places.
- g. All holes and depressions shall be filled and packed with native earth. All oil, maste oil, refuse or maste material shall be removed from the drill site.

(b) Conversion to water well.

A well may be converted to a donestic or agricultural water wall upon the approval of the Superintendent after:

- (1) A request in writing by the landowner has been made to the Superintendent.
- (2) An original or certified copy of the approved conversion permit from the Division of Oil and Gas has been furnished the Supar-intendent.
- Subsection have been compiled with except that these appurtenances nacessary in the opinion of the Superintendent for the oparation of a mater well may be retained.

Sec. 77.0112. Storage facilities.

(a) Storage capacity.

- (1) Naximum Tank Capacity for each Producing Oil Wall: If oil or other liquid storage facilities are established incidental to a producing well on a drill site, such storage facilities shall not exceed a total of 2,000 barrels per well.
 - (b) Design and construction of tanks.
- All tanks shall be constructed in detailed conformity with the current A.P.I. Standards applicable thereto. $\label{eq:conformity} % \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1}{2}$

(c) Foundations and supports...

Tanks shall rest directly on the ground or on foundations, supports, or pilings of concrete, masonry, steal, crushed rock, or wood. Exposed piling or steal supports shall be protected by fire resistive materials, to provide a fire resistance rating of not less than two (2) hours. Stairs, platforms, and walkways shall be of metal, concrete, or wood.

· (d) Speeing between tenke.

- (1) No tank for the storage of any flammable liquid shall be located closer than three free (3') to any other such tank.
- (2) For tasks above 50,000 gallons individual capacity for the storage of any flammable liquid, except crads petroleum, the distance between such tanks shall not be less than one-half the diameter of the smaller tank.
- custome nerveces suce tames each not no less time one-text the diameter of the smaller texts. for the storage of crude petroleum having capacities not exceeding 120,000 gallons (3,000 harris) shall not be less than there fort (3) apart; tanks having a capacity in excess of 120,000 gallons (3,000 harris) shall not not set than the diameter of the smaller tank apart.

 (4) The minimum separation between a liquified petroleum for contract my other texts for the storage of any formable liquid shall be shown for the common texts for the storage of any formable liquid shall be shown for the accommodation of flemmable liquid some rapid performing the storage of the

(a) Location of tanha. Minimum distance between any outside above ground tank to the pearest building or line of adjaining property which may be built upon (1) Frammable liquids other than those having boilt-ever observed training to crude periodum:

		Clrss of	
		Flammable Liunid	Minimum Distance
	Capacity of Tank		O feet
	0 to 275 gals.	111	
	276 to 750 gels.	111	5 (cel
•	0 to 750 gala.	l and II	10 fort
	. 721 to 12,000 gala.	RI	10 feet
	121 to 12,000 Bad.	1 and II	15 feet
	751 to 12,000 gala.	I. Il and III	15 feet
	12,001 to 24,000 gala.		20 feet
	24,001 to 30,000 gala.	I, II and III	
	\$0,001 to \$2,000 gala.	L II and III	25 fe-1

(2) Crude petroleum and other liquids having built-red characteristics similar to crude petroleum and flact. liquid tanks with capacity in excess of 50,000 gallons:

STORAGE FACILITIES

Crude Potroleum and Tanks with Capacities in Exc \$0,000 Gallons

SO,000 CALIDM

Tanks with capacities in excess of 50,000 railons and all tanks
storage of crude petroleum shall be located in accordance with
flowing provisions (applicable to gravitylt tanks including conton type lanks constructed in compliance with these or equivalent

Product Sterod		Tenk Protection	Distance From Line of Adjoining Property Which May be Built Upon Shall Bu Not Less Than
Refined Petroleum Products or other flammable liquids ant subject to boll-over.	Group A Tanks	An approved permanently attached extinguishing system or An approved floating roof.	
	Group B Tanks	Not equipped with either of the above	135 times the greatest di- mension of diameter or height of tenk except that such distance need not ex- tend 175 feet.
Crodo Petroleum®	Group C Tanks	An approved permanently attached crtinguishing system or An approved floating roof	of tenk except that such dis-
	Grocey D Tanks	Not equipped with either of the above.	3 times the greatest dimen- alon of diameter or height of tank except that such dis- tance shall not be less than 20 feet and need not exceed 350 feet.

a. GROUP A TANKS.

Any ges-tight tank constructed in compliance with equivalent standards and equipped either with:

1. An approved permanently attached extinguish-

In a system or,

and for the storage of refined petroleum products or other framework.

2. An approved floating roof, which is to be used liquids not subject to hoslover, shall be so located that the diamonable from the line of adpining property which may be built upon shall be not less than the present climents on of diameter or height of the tank, except that such distance need not exceed 120 features.

except that such distance need not exceed 120 feet.

5. GROUP D TANKS.

Are gas-tight tank* constructed in compliance with these or ceptralent standards but not equipped either with:

1. An approved permanently antached estinguishing system or,

2. An approved floating roof, which is to be used early for the storage of refliced petroleum products or other flammable from the line of adjoining property which may be built upon shall be not leat than 1% times the present distance of dimeter or height of the tank, except that such distance need not exceed 175 feet.

6. GROUP C. TANKS.

of the tank, except that such distance need not exceed 175 feet.

Any gas tight tank* constructed in compliance with these or equivalent standards and equipped either with:

In a sproved permanently attached entinguishing system or.

An approved Permanently attached entinguishing system or.

An approved Permanently attached entinguishing from the standard entire the greater dimension of dismeter or height of the tank except that each dustance shall be not have then 20, feet and need not exceed 175 feet.

d. GROUP D TANKS.

The state of equivalent the state of the sta

ng system or,

2. An expressed flooting root, which is to be
med for the storage of crude petroleum, shall be so located that the
distance froot the line of adjoining property which may be built
grow shall be not less then there times the greatest distance of disconting on helpful of the tenk except that such distance shall not he loss then 20 feet and need not exceed 350 feet.

dissource or beight of the tenk energy that such distances that not be less than 20 feet and not not entered 500 feet.

MOTE: This tene "represent statested estinguishing system", as such in the foregoing description may be interpreted to apply to:

1. A feet feet or other recognized estinguishing experient methodysing emply of the scatinguishing medium, or,
2. A system employing a pipe like for converging form from a point contails that this the tank, ort.
A Pertable overshot devices for applying form ever the rim of the tenk. Where retinents is placed on a pipe line for conveying form; the pipe line shall be no installed and stacked as to be integral per of the tenk. Where retinents is the documentated before the retinent of the documentated before the tenk. Where retinents is the documentated before the tenk which the retinent is the documentated before the protecting conjument of sufficient capacity plouds for exclude on the protecting conjument of sufficient capacity plouds for exclude on the protecting conjument of sufficient capacity for the retinents is the documentated before the protecting conjument of sufficient capacity of coherence and year waitable a sufficient supply of coherence readily available; and there should be en braid or otherwise readily available in the force tenth of the protection of the force tenth of the protection of the force tenth of the force t procuents materials as appendion in the national fire Protect Association Standards for Foam Extinguishing Systems. Ro. 11.

No. 11.

A Eulidings Execution to the Operation of the Storage Feedlines: (Building Location) No building used for human occupancy, except buildings estential to the operation of the storage facilities shall be be received within the operation of the storage facilities shall be received within the distances set out in the tables above, from such extending to the term growth tank includes so-called conservation type tanks.

(f) Discuss convertile.

When tank locations of diverse ownership have a common boundary, the Superintendent may, with the written consent of the owners, while the required distances from the common property line and substitute the spece between tasks as provided in this Section.

whith the required before thick as provided in the Section.

(3) Dithus, discretion recile and eatherment busins.

(3) ECCUINED. Tasks used for the storage of crude petrological and eatherment business.

(4) ECCUINED. Tasks used for the storage of crude petrological and the storage of crude petrological and the storage of the storage of control and the storage of the storage of

(4) CAPACHY. The net capacity of a catchemat basis of diked impounding area.

(4) CAPACHY. The net capacity of a catchemat basis, diked impounding hasin, or any combination thereof shall be caust to the expective of the largest tank, plus 10% of the aggregate capacity of all other tanks arread. In computing the sequent capacity of a catchemat basis, dited impounding basis or combination thereof of the largest tank as the property of the available capacity of a dided impounding basis.

5. No part of the volume of tanks other than the largest tank that Bo considered as part of the available capacity.

6. The capacity of a separate catchemat has many be used to reduce the required expecting of a dided dispounding basis.

6. The capacity of a separate catchemat many be used to reduce the required expecting of a dided dispounding basis are provided.

6. The capacity of a significance species eatherment basis may be applied to reduce the required capacity of each of the dike and impounding basis detailing into it.

(5) CONSTRUCTION. Dives shall be of earth, concrete or solid assourcy designed to be liquid tiphs and shall be maintained. Where piping passes through disks, provision shall be rived to morement without damage to the disk and to minimum leaks under concretely endolfisms. Earthen dives shall be boult and maintained at a minimum height of two feet (27), have alongs under construct with sample of present of the material used, and be not less than two feet data and the other forms and the state of the sample of the material used, and be not less than the feet (30°) in diameter and ten feet (30°) for diameter and ten feet (10°) for stables for tone data that they feet (30°) in diameter.

b. Spill Dikes. Where tanks within a common diked impounding basin may cause mutual exposure from spills, spill dike aball les provided between tanks of 10,000 barrels or greater individual expectity. Groups of tanks of less than 10,000 barrels individual expectity. Groups of tanks of less than 10,000 barrels individual expectity of the common time o

shall not exceed 30% of the height of the main or perimeter dikes.

D. Parlange, D. Perimoge shall be provided at a consistent tope of not less than 155 away from tanks and fittings to a tump, drin hose or other safe means of disposal located within the diked impounding area and at the greatest possible distance from the shall of the tank. Traps with not less than as; (6) inches of leguid and shall be provided between the sumps, drain house or sawer opening within any impounding area and the sewers or drains intended for the disposal of rpills. A valve, operable from outside the dick, shall be provided in the duke from system and shall normally be kept closed.

Disposal. Approved previsions shall be made for disposing of water and of oil retained by dikes, impounding or catchment beatin.

(h) Suspansion of requirements.

In particular installations, some or all of the requirements of Subsections (d), (e), and (g) of this Section governing storage facilities may be suspended, in whole or in part, or less restrictive requirements may be imposed pending further order of the Superintendent, where such requirements are tradered unaccessary or unreasonable by reason of the then existing special features such pending the property, the height and character of construction of a superintendent property, the height and character of construction of a superior and construction of the proposed tunks and the character of liquids to be stored, the degree of private fire protection to be provided and the facilities of the fire department to cope with Lucassalts liquid tires.

(1) Skim ponda

Any open accessible, surface or subsurface installation used for the disposal of permitted waste liquids shall be fenced in accordance with the preceding fencing provision.

(j) Loading by truck from production (anh sites.

(1) Loading by truch from production tenh sites.
LOCATION. That which loading reak loading pulsal noting pulsal noting pulsal noting posts or arms dispensing flamenthe liquids shall be reparted from tanks, werehouse, other buildings, sublic streat and scarcel line of property that may be build upon by a clear distance of not bus than tearnifying the groups of for the the arriver position of any full stem. Buildings for pumps or for theirer of loading personned may be part of the loading rack to printers. No person shall had or winded on vermit the loading or unloading of a tank that the control of the loading that the loading of the loading that the loading that the loading of the loading or subschild person that has the loading or unloading controls. Provision shall be nade for the state disposal of the oils released by overflow and from loading spouts or lines.

(k) Haintenance of tanks.

All tank tops which are accessible by means of a ladder, stairs, or otherwise shall be maintained in a safe manner. Such tops unless constructed and maintained in compliance with the applicable A.P.I. Standards shall be made of a substantial material with no openings in excess of four (4) inches in any disension except for gauging hatches and similar openings which can be secured.

Sec. 77.0113. High pressure pipe systems.

All piping systems to be operated at a pressure in excess of chanty percent (20%) of the minimum yield strength of the material with which the pips is febricated shall be designed, constructed, operated, and maintained in accordance with the provisions of A.H.S.I. Standards 0 31.

Sec. 77.0114. Fire prevention; sources of ignition.

(a) Electrical equipment.

All electrical equipment shall be installed and maintained in accordance with the requirements of the National Electric Code as amended and adopted by the County of Oranga.

(b) Internal combustion angines, storage make, fired semipa and open flames.

and spen flaures.

No internal consolution engines, atomize tanks, boilers, fired equipment or spen flaures energy widing conjerrined by the production forecase, ciriling forerand, ciriling enginess, diffiling supervisors, or analyse repervisors shall be located closer than twenty-ties feet (24) to a preducing well not closer than one hundred (cst (500°) to a drilling solicitation of the contract of the drilling production and servicing of oil wells are compil from the above the contract of the contract visiting to distances of a storage tanks may be allowed as foresten relating to distances of storage tanks may be allowed as foresten the distantion of the Superintendent after consideration of the special features such as the popular conditions; attented on contract the contract of the contract of contraction of the Superintendent after consideration of the special features and as the popular conditions; attented on contraction of the superintendent after consideration of the superintendent of the superintendent after consideration of the superintendent after a superi

(c) Haffling exhaust.

The capter cord in connection with the drilling of any oil wall or in any production equipment of any oil well shall be coulpped with an exhaust marifest to prevent executive or usuanis bode. Means shall be provided on all engines used during drilling operations to prevent be capter of Tenere, practs, [gained eacher and soon.]

(d) Flammable waste gases and tapers.

"Rimmable waste gases or vapors exceptor from a production
dril site shall be bound or controlled to prevent heardout concentrations reaching courses of ignition or otherwise endanguring the stracourse bydroughout gases are released to the six through flares.
(2) PLAIRES. Approxed means of ignition shall be provided
whonever hydroughout gases are released to the six through flares.
(3) PLAIRES, depreved means of ignition shall be provided
whonever hydroughout gases are released to the six through flares.
(4) PLAIRES, depreved means of ignition shall be provided
to the line of the six that the provincing for the controlled of the six that the required test of the controlled of the six that the required test of the six that the provincing flares and the six that the provincing for the six that the provincing flares are the six of the six

(c) Verte metral of & al cha-

(c) Wester notices of Pott class.

(i) We torous shall permit or name to be permitted the Chabarys of any kind coronainty crude perceives or its products have for upon any effect, public highway, deshare cannot or disk, starra that or force control channels.

(ii) We prove shall permit or cannot be permitted any class of the product of the provided maker, around or near any oil well, pump, bolist, all though and or other anythment of the provided maker, around or near any oil well, pump, bolist, all though and of other forces or which is not supposed to the provided maker and the maker of the provided makers and the control of the supposed of the Supposition of the Supp

BUILDING and Safety.

(3) All lead within twenty-five feet (18") of any all well.

Chammelse liquid tank or other apparenance is any such well skall be
at all times they five an others or day to the contraction of the same points and the contraction of the contraction of the same contraction of the s

No person shall smoke nor cause, permit or allow another person to mooke within ffiry (50) feet of any well, tank location, or any area contaminated by oil or waste gag.

(g) Fire control equipment.

A minimum of two (2) fire extinguishers shall be maintained at all oil well locations where drilling, servicing or repair work to being conducted. Each such extinguisher shall have a minimum classification of 208 as set forth in Retional Fire Protection
Association No. 10, "Standard for the Installation
of Portable Fire Extinguishers."

SECTION 2. Sections 77.013.1, 77.013.2, 77.013.3, 77.013.4, 77.013.7, 77.013.12, 77.013.13, 77.013.14, 77.013.15, 77.013.16, 77.013.18, 77.013.19, 77.013.20, and 77.013.23 are hereby added to the Codified Ordinances of the County of Orange to read as follows:

Sec. 77.013.1. Definitions (A).

ABANDONMENT is the restoration of the drill site as required by these regulations.

A.N.S.I. is the American National Standards Institute.

A.P.I. is the American Petroleum Institute.

APPROVED: Approved by the Superintendent, "Approved type" or "approved design", is and includes improvements, equipment, or facilities of a type or design approved by the Superintendent.

A.S.M.E. is the American Society of Mechanical Engineers.

Sec. 77.013.2. Definitions (B).

BLCM-OUT is the uncontrolled discharge of gas, liquid, or solids or a mixture thereof from a well into the atmosphere.

BLCM-OUT PREVENTER is a mechanical, hydraulic or pneumatic or other device or a combination of such devices secured to the top of a wall casing, including valves, fittings, and control mechanisms connected therewith designed and capable of preventing a blow-out. Sec. 77.013.3. Definitions (C).

CELLAR is an excavation around or above the top joint of the casing in a well.

COMPLETION OF DRILLING: A well is completed, for the purpose of these regulations, thirty (30) days after the drilling crew has been released, unless drilling or remedial operations are resumed before the end of the thirty (30) days.

Sec. 77.013.4. Definitions (D).

• DERRICK is any framework, tower, or mast together with all parts of an appurtenance to such structure, including any foundations, pump house, pipe racks, and each and every part thereof, which is or are required, or used, or useful for the drilling for and the production of oil, gas, or other hydrocarbons from the earth except tanks used for storage purposes.

DESERTION is the cessation of operations at a drill site without compliance with the provisions of the Code relating to suspended operations or abandonment.

DILIGENCE as used in these regulations, shall mean that the drilling derrick is in its operating position over the well, properly anchored and supported and that an operating crew is on duty at the drill site at all reasonable times.

DIVISION OF OIL AND GAS shall mean the Division of Oil and Gas of the Department of Natural Resources of the State of California or any other state agency that may in the future be charged with its responsibilities.

DRILLING means digging a hole in earth formation with a power driven drill bit for the purpose of exploring for or developing of oil or gas. Drilling includes those operations that are concerned with the completion of a well. "Drilling" does not include "shot hole".

DRILL SITE is the promises used during the drilling and subsequent life of a well or wells, which is necessary for the safe operations

Sec. 77.013.7. Definitions (G).

GAS means the gaseous components or vapors occurring in orderived from petroleum or natural gas. $\label{eq:GAS_section} % \begin{center} \end{center} % \$

Sec. 77.013.12. Definitions (L).

LESSEE is the possessor of the right to exploit the premises for minerals.

LESSOR is the mineral right owner.

Sec. 77.013.13. Definitions (M).

MAINTENANCE means and includes the repair and replacement of parts of a structure where same does not alter or lessen the strength or stability of the structure.

Sec. 77.013.14. Definitions (H).

EATURAL GASOLINE PLANT or ABSORPTION PLANT is a plant for the processing of natural gas from the production wolls and processed into its various components.

Sec. 77.013.15. Definitions (0).

OIL includes petroleum, and PETROLEUM includes oil.

OPERATOR is the person, whether proprietor, lessee, or independent contractor, actually in charge and in control of the drilling, maintenance, operation, or pumping of a well or lesse.

OUTER BOUNDARY LINE: Where several contiguous parcels of land in one or different ownerships are operated as a single oil or gas lease or operating unit, the term "outer boundary line" means the acterior linits of the land included in the lease or unit. In determining the contiguit of any such parcels of land, no street, road, or alley lying within the lease or unit shall be deemed to interrupt such contiguity.

OMNER is a person who owns a legal or equitable title in and to the surfaces of the drill site.

Sec. 77.013.16. Definitions (P).

PERSON includes any individual, firm, association, corporation, joint venture, or any other group or combination acting as a unit.

Sec. 77.013.18. Definitions (R).

RE-DRILLING shall mean the deepening of an existing oil well or otherwise drilling beyond the extremities of the existing well casing. The provisions of this Code relating to drilling shall be equally applicable to re-drilling.

Sec. 77.013.19. Def-Initions (S).

SEISMIC PETROLEUM PROSPECTING: Prospecting for oil by means of drilling holes into the ground, placing an explosive charge therein, and datonating such charge, thereby exciting an energy or sound wave through the earth, the results of which are recorded and read by seismograph equipment placed at various locations on the surface of the earth.

Seismic petroleum prospecting is prohibited in the following areas: (a). The area within 1/4 mile of the boundary of O'Heill $^{\circ}$ Park and of Irvine Park.

(b) The area within one mile landward of the line of Upper Newport Bay as established and adjudicated by Superior Court Case No. 20436.

(c) The area within one mile landward of the coast line measured from mean lower low water datum as established by the U. S. Coast and Geodatic Survey from the easterly jetty of the harbor entrance at Newport Beach to the San Diago County line.

SHOT HOLE: The hole drilled in seismic petroleum prospecting.

SOURCE OF IGHITION means any flamm, arc, spark, or heated object or surface capable of igniting, flammable liquids, gases, or vapors.

STRUCTURE is that which is built or constructed; a tank, edifice, or building of any kind. $\label{eq:construction} % \begin{center} \end{center} % \begin$

SUPERINTENDENT shall mean and include the Director of Building and Safety of the County of Orange, his assistants, deputies, inspectors, and officers of the Department of Building and Safety of the County of Orange.

SUSPENDED OPERATIONS is the approved, temporary suspension of drilling or re-drilling operations panding a resumption of operations or abandonment.

-Sec. 77.013.20. Definitions (T).

TANK is a container, covered or uncovered, used in conjunction with the drilling or production of an oil well, for holding or storing liquids at or near atmospheric pressure.

Sec. 77.013.23. Definitions (W).

WELL or OIL WELL is a well or hole drilled into the earth for the purpose of exploring for or extracting from the earth oil, gas, or other hydrocarbon substances, or a well or hole in the earth by means of and through which oil, gas, and other hydrocarbon substances are extracted, produced, or capable of being produced from the earth, or a well or hole for the purpose of secondary recovery or disposal thereof. "Well" does not include "shot hole."

WELL SERVICING is remedial or maintenance work performed within any existing wall which does not involve drilling or re-drilling.

SECTION 3. This Ordinence shall take affect and be in full force thirty (30) days from and after its passage, and before the expiration of fifteen (15) days after the passage thereof shall be published once in the <u>Coastline Dispatch</u>, a newspaper published in the County of Orange, State of California, together with the names of the maxbers of the Board of Supervisors voting for and against the same.

RONALD W. CASPERS Chairman of the Board of Supervisors of Grange County, California

(SEAL)

ATTEST:

WILLIAM E. ST JOHN

County Clerk and ex-officio Clerk of the Doard of Supervisors of Orange County, California

By June Alexander
Deputy

STATE OF CALIFORNIA COUNTY OF ORANGE

I, WILLLII E. ST JOHN, County Clerk and ex-officio Clerk of the Board of Supervisors, do hereby cortify that at a regular masting of the Board of Supervisors of Orango County, California, held on the 2nd day of August, 1972, the foregoing Ordinance containing three (1) sections was passed and adopted by the following vote:

AYES: SUPERVISORS WILLIAM J. PHILLIPS, RONALD W. CASPERS, R.W. BATTIN AND DAVID L. BAKER

NOES: SUFFEVISORS NONE

ABSENT: SUFERVISORS RALPH B. CLARK

IN WITHERS WHEREOF, I have hereunto set my hand and affixed the official seal of the Board of Supervisors of the County of Oranga, State of California, this 2nd day of August 1972.

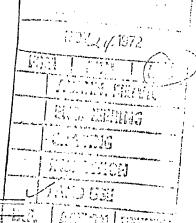
WILLIAM E. IST JOHN
County Clerk and ex-officio Clerk
of the Board of Supervisors of
Orange County, California

June Alexander

(SEAL)

Publish Coastline Dispatch August 9, 1972

Deputy



LEGAL NOTICE

ORDINÀNCE NO. 2612 AN ORDINANCE AMENDING SECTION 78,024 OF THE CODIFIED CRDINANCES OF THE COUNTY OF ORANGE, CALIFORNIA

CODIFIED CRDINANCES OF THE COUNTY OF
ORANGE, CALIFORNIA

The Board of Supervisors of the County of Orange, California, aces ordain as tollows:
SECTION 1. Section 78.024 of the Codified Ordinances of the County of Orange is hereby amended to read as follows:
Sec. 78.024. On Production.

In addition to the definitions set forth by the Comprehensive Zonling Code in Section 78.023, the definitions set forth by the Orange County Oil Code in Section 77.013, shall also apply to the following provisions of this section:

(a) Pernutted.

In any district where the district symbol is followed by, as a part of such symbol, parenthetically enclosed letter "O", thus: (O), oil drilling and production of oil, Ess. and other hydrocarbon substances is permitted.

(b) Prohibited.

The following areas are hereby declared scenic and recreational areas:

(1) The area within 14 mile of the boundary of O'Neill Park and of Irvine Park.

(2) The area within one mile landward of the line of Upper Newport Bay as established and adjudicated by Superior Count Case No. 2018ti;

(3) The area within one mile landward of the coast line measured from mean lower low water datum as established by the U.S. Coast and Geodetic Survey from the easterly jetty of the harbor entrance at Newport Bacen to the San Diego County Line.

(c) Permitted, Subject to conditions.

(1) Within any district not designated with (O) and not above described as a scenic and recreational area, the use of land for the drilling and production of oil, gas and other hydrocarbon substances, is permitted upon the hereinafter described "primary conditions," if at the time of the application for a permit to drill there exists either:

a. 25 or more dwellings within 1820 feet of the proposed location of the well

b. Six or more dwellings within 560 feet of the proposed location of the well

Six or more dwellings within 660 feet of the pro-posed location of the well

b. Six or more dwellings within 660 feet of the proposed location of the well or c. Any legally established structure used for housing of mentally or physically ill or aged persons having five or more beds, is within 660 feet of the proposed location of the well.

d. In the determination of conditions applicable outside of the "O" Districts, improvements and oil wells located within "O" Districts shall not be considered.

Within any district not designated with (O) and not above described as a scenic and recreational area the use of land for the drilling and production of oil, gas, and other hydrocarbon substances is permitted upon the hereinafter described "secondary conditions," if at the time of the application for a permit to drill neither a, nor b, nor c, as described in Sub-section (1) above exists. In the determination of conditions applicable outside of the "O" Districts improvements and Oil Wells located within "O" Districts shall not be considered.

The word "Dwelling" as used in this Section means any building or structure which has for its primary purpose human residence.

Primary conditions.

Primary conditions.

To site selection and preparation.

1. Drill site location. No drill site shall be located closer than 1320 feet from any drill site other than a drill site located in an "O" District. For the purpose of this Articic, the drill site for an oil well existing on May 28, 1958, shall be deemed to be all of the area within 100 feet from the center of the oil well.

2. Drill site area. No drill site shall contain more than two and one-half acres or be of such size or shape that it cannot be contained within a square three hundred and thirty feet.

Number of wells. The number of wells which may be drilled within 176 feet of any dwelling.

b. Hours of operation. All work in preparation of the site for drilling shall be conducted only between the hours of 7:00 A.M. and 7:00 P.M.

Roads and excavations. Roads and other excavations shall be planned, constructed and maintained so as to provide stabili

(4)

13 1 14.

7. Out and fill slopes. No slope of cut or fill shall have a gradient steeper than 1 foot rise in 1 foot horizontal measurement. Where by reuson or the steep condition, the condition of the terrification of the terrification of the steep condition in the condition of the terrification of the formal perintendent of Duilding and Safety may grant an exception to such requirement provided be first finds that compliance with said requirement is impractical and that the integrity of the neighborhood will be maintained if such exception is granted.

8. Slove plantins, All exactation slopes, both cut are such as the such condition of the reproduction operations, but only can be reasonably comparable with the general status of undisturbed surfaces in the vicinity.

9. Fencing.

2. Drilling. Prior to the commencement of drilling operation, the drill site shall be enclosed by an eight foot high solid fence of a solid massenry wall eight foot high solid from closed by a solid redwood fence or a solid massenry wall eight foot (2) high on all sides, except those sides on which exists a natural or artificial harrier of equal or gratter solidity and height. Solid redwood production artificial harrier of equal or gratter solidity and height. Solid redwood product a solid with the except the except those sides on which exists a natural or artificial harrier of equal or gratter solidity and height. Solid redwood product solid height solid redwood with keyed looks and shall be equal production. The production of the forest pipelines serving the drive of wall shall be in lieu of any other foncing requirements.

10. Pipe foncing requirements.

11. Parking, Parking for all vehicles including those of employees shall be provided at the drill site and shall be infected on the drill site. Such parking areas shall be surfaced and maintained to prevent dust and mud.

12. Eight shall be foreited on the drill site. Such parking prevailing shall be provided on the hours of 7:00 a.m. to 7:00 p.m., with no operation on Sunday, only maintain so

sound deadening materials. Such buildings shall be of residential appearance and no portion thereof shall exceed 16 feet in height. Motive power location. Motive power for pro-duction operations shall be located on a drill

thereof shall exceed to text in neight.

8. Motive power location. Motive power for production operations shall be located on a drill site.

4. Height of installation. Except as otherwise herein specifically permitted, no permanent installations at the drill site shall be or project more than 8 feet above the surface of the surreunding ground.

5. Storage of equipment. There shall be no storage of material, equipment, machinery or vehicle which is not for immediate use or servicing of an installation on the drill site.

6. Maintenance. The drill site and all permanent installations shall be maintained in a neat, clean and orderly condition.

7. Storage tank location. Storage tanks shall be located on a drill site.

8. Storage tank capacity. Storage tank capacity at the drill site shall not exceed a total aggregate of 2000 barrels exclusive of processing equipment.

9. All surfaces of permanent installations within the drill site shall be painted flat dark green or flat brown.

10. Removal of Oil. Oil produced at the drill site shall be removed therefrom by an underground pipeline or pipelines at all times more than 180 days from and after the date the first well in the drill site is completed.

11. Refineries. No refinery, dehydrating or absorption plant of any kind shall be constructed, established, or maintained on the drill site or within the outer boundary line.

12. Gas burning. Natural gas shall not be vented to the atmosphere nor burned by open flare, established, or maintained on the drill site or within the outer boundary line.

12. Gas burning. Natural gas shall not be vented to the atmosphere nor burned by open flare, established, or maintained on the drill site or within the outer boundary line.

12. Gas burning. Shall be caused, permitted or allowed to be or remain any place on the drill site except between the hours of 7:00 A.M. to 7:00 P.M. except in case of emergency.

14. Signs. No sign which is visible from outside of the drill site shall be exacterior of the fence or wall enclosing the drill

not be construed to limit or prohibit additional site beautification by landscaping or other planting.

16. Off-site pipelines. Within 30 days from and after completion of the drilling of the first well on a drill site, the work of burying all off-site pipelines shall be commenced and completed within a reasonable time thereafter.

(5) Secondary conditions.

a. for site selection and preparation.

1. Drill site Location. No drill site shall be located closer than 1820 feet from any other drill site, for an oil well existing on the effective date of Ordinanco Number 1096 shall be deemed to be all of the area within 100 feet from the center of the oil well.

2. Drill site area. No drill site shall contain more than two and one-half acres or be of such size or shape that it cannot be contained within a square three hundred and thirty feet by three hundred and thirty feet by three hundred and thirty feet by three hundred so as to provide stability of fill, minimize disfigurement of the landscape, maintain natural drainage and minimize erosion.

4. Cut and fill slopes. No slope of cut or fill shall

maintain natural drainage and minimize erosion.

Cut and fill slopes. No slope of cut or fill shall have a gradient steeper than 1 foot rise in 1 foot horizontal measurement. Where by reason of the soil condition of the terrain or size or length of the cut required it is impractical to provide such gradient, the Superintendent of Building and Safety may grent an exception to such requirement provided he first finds that compliance with said requirement is impractical and that the integrity of the neighborhood will be maintained if such exception is granted.

granted.
Slope planting. All excavation slopes, both cut and fill, shall be planted and maintained with grasses, plants, or shrubs during drilling and production operations, but only to an extent reasonably comparable with the general status of undisturbed surfaces in the vicinity.

Off-street parking. An off-street parking area containing not less than 5 parking spaces, each of which rhall be at least 10 feet by 20 feet, shall be provided for each well being drilled and shall be surfaced and maintained in accordance with the requirements of The Orange County Oil Code.
 Santary facilities, Santary facilities shall be provided at the drill site and shall be in accordance with standards of the Orange County Health Department.
 For drilling.

b. For drilling.

1. Lights. All lights shall be directed or shielded go as to confine direct rays to the drill site.

2. Power sources. All power sources shall be electric motors or muffled internal combustion confines.

c. For production operations.

1. Motive power locations. Motive power for production operations shall be located on a drill

site.

2. Height of pumping equipment. No walking beam type pumping equipment shall project more than ten feet at its highest point of rise above the surrounding ground level.

3. Storage tank location. Storage tanks shall be located on the drill site.

4. Height of storage tanks. No oil storage tank shall exceed 18 feet in height above the ground level.

shall exceed 18 feet in height above the ground level.

5: Height of wash tanks. No wash tank shall exceed 24 feet in height nor exceed 8 feet in diameter.

6. Feneing. Within 30 days from completion of the first well on a drill site, such site shall be enclosed by a solid redwood fence or solid masonry wall 8 feet high on all sides, except those sides on which exists a natural or artificial barrier of equal or greater solidity and height. Solid redwood board gates shall be installed and be equipped with keyed locks and shall be kept locked at all times when mattended. Such fence or wall shall be in lieu of any other fencing requirements.

(d) Basic safety regulations.

All drilling and production of oil, gas and other hydrocarbon substances, whicher permitted pursuant to this Section, or Section 78.0223 are subject to the regulations of The Orange County Oil Code.

SECTION 2: This Ordinance shall take effect and he in full force thirty (30) days from and after its passage, and before the expiration of fifteen (15) days after the passage thereof shall be published once in the Ruena Pack News & Independent, a newspaper published in the County of Orange, State of Chilfornia, together with the names of the members of the Board of Supervisors voting for and against the same.

RONALD W. CASPERS

Chairman of the Board of Supervisors of Orange County, California

ATTEST:
WILLIAM E. ST JOHN
County Clerk and ex-officio Clerk
of the Board of Supervisors of
Orange County. California
By JUNE ALEXANDER STATE OF CALIFORNIA

COUNTY OF ORANGE

I, WILLIAM E. ST JOHN, County. Clerk and ex-officion Clerk of the Board of Supervisors, do hereby certify that at a regular meeting of the Board of Supervisors of Orange County, California, held on the 2nd day of August, 1972, the foregoing Ordinance containing two (2) sections was passed and adopted by the following rote:

AYES: SUPERVISORS: WILLIAM J. PHILLIPS. DAVID

L. BAKER, R. W. BATTIN AND

RONALD W. CASPERS

NOES. SUPERVISORS: NONE

ABSENT: SUPERVISORS: RALPH B. CLARK
IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the Board of Supervisors of the County of Orange, State of California, this 2nd day of August, (SEAL)

(SEAL)

WILLIAM E. ST JOHN County Clerk and exposition Clerk of the Board of Supervisors of Orange County, California By JUNE ALEXANDER Deputy

Publish: August 9, 1972. Buena Park News & Independent — 446.

ORANGE COUNTY AIR POLLUTION CONTROL DI... AICT 1010 So. Harbor Blvd., Anaheim, California PRospect 4-0284

APPLICATION FOR AUTHORITY TO CONSTRUCT

PLEASE READ INSTRUCTION SHEET BEFORE FILLING OUT THIS FORM

In accordance with the Provisions of the Health & Safety Code, State of California, and the Rules & Regulations of the Orange County Air Pollution Control District, application is hereby made for Authority to Construct the following equipment:

,—	•			
Hirt	Vapor Phase Reacto	or #7 (Details wer	e presented to you	r office in our
a 1 å	cation to construc	at Reactor #1' dat	ed July 14, 1959).	No.
appil	catton to constitut	nit. plus any descript	cive details necessary	for clarity)
(61	As complete trans of a	izo, production, research		·
Located .	at Termination of	W. 17th Street	Costa Mesa, C	alif.
200000	No.	Street	City or Com	munity
		Contac	7	NT In
1.	Is this application	for Basic Process /	and/or Control Equip	ment /X/:
2.	Is this an initial	$\frac{X}{A}$ application or a	cenewal // due to cha	nge or owner-
	ship //, location	n //, or process //	or location, give name	of previous
3.	It a renewal due to	vious location of equi	inment	or breizes
	owner and/or pre-	Vious location of equi	- Piliter C	ayada, araya ayan ada da aray da harada da aray in ahada ya kina aray a sada ayan aray aha ana ana da Garaga a
4.	Estimated starting	date for construction	Jan. 2, 1969 (e	st.delivery date
5.	Estimated completion	n date March 1,	1969	2/2/69)
6.				
7.	Permit to be issued	to G. E. KADANE	& SONS	
		(Name of person	or firm which is to o	perate equipment)
8.	Address P. O.	Box 1487, Newport	Beach, Ca.	THE STATE OF THE PROPERTY OF T
χ. 9.	Nature of business	Oil Pro	queers	and the commence with the second of the few seconds of the second of the second of the second of the second of
10.	Corporation / DO-Par	rtnership X/, or Indi	Lyrddar Owner 7.7	•
. 11.	Signature of respons	eible member of firm.		
		•		Secondary
•			J. 10. (1) um/s	Recovery Super
1	- · ·	· · · · · · · · · · · · · · · · · · ·	Signature	Title SC
12.	Type of print name	of person signing	T. W. Bunnell	
13.	Date of application	11/19/68 Phone	e No. 642-3350	Machine region of Citizen also are him of the Citizen and the
;				
Fol	lowing to be executed	by qualified consult:	ing engineer.	
			1	eiona norrainina
	"I hereby certify the	hat I have examined the	he plans and specifica	hat in my opinion
to	the above designated	equipment and process	. I further certify to ocess specified and us	ing the materials
the	proposed installation	n, operated in the pro-	will not produce quan	tities of air con-
aes	dents in excess of t	hase permitted by the	State Health & Safety	·Code and the
Rul	es and Regulations of	the Orange County APG	C District."	•
MAT	co dito Regulatione	3		•
•		SIGNED .	TI	TIE
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		ADDDDCC	· pu	IONE
	•	ADDRESS	A. A. & A. M. Transport of the Contract of the	Commercial commercial and commercial
	111 ulane languista	ations and data reque	sted in instruction sh	eet must accompany
	All plans, specific	actons and data reduc-	2000 000 men 40 men 111 - 11	• •

Reactor #8 will be a duplicate of Reactor #7

10/4/60

this application.

AIR POLLUTION CONTROL DISTRICT COUNTY OF ORANGE

PERMIT

IS HEREBY GRANTED TO

G. E. KADANE & SONS

TO OPERATE
ONE HIRT VAPOR PHASE FUME INCINERATOR NO. 8, 50-HP,
located at

Termination of W. 17th St., Costa Mesa, Calif. SUBJECT TO THE FOLLOWING CONDITIONS

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 20, CHAPTER 2, ARTICLE 3, OF THE HEALTH AND SAFETY CODES OF THE STATE OF CALIFORNIA OR THE RULES AND REGULATIONS OF THE AIR POLLUTION CONTROL DISTRICT.

DATE: June 23, 1970

WILLIAM FITCHEN
AIR POLLUTION CONTROL OFFICER

PERMIT NO. _____

By: Jourson T, If was Douglas F. Jeffrey

(Title)

REVOCABLE AND NOT TRANSFERABLE Air Pollution Engineer