MINUTE ITEM

This Calendar Item No. 26

Was approved as Minute Item
No. 26

by the State Lands
Commission by a vete of 2

to 6

at its 5/23/45

meeting.

CALENDAR ITEM

A 80

2.6

S 37

05/23/85 W 23353 PRC 6837 Graber

APPROVAL OF ONE GEOTHERMAL LEASE ON STATE SCHOOL LANDS, IMPERIAL COUNTY, CALIFORNIA FOR GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL EXPLORATION, AND DRILLING

APPLICANT:

Union Oil Company of California 451 West Main Street Brawley, California 92227

AREA, TYPE, LAND AND LOCATION:

Six parcels of California State school lands comprising approximately 3,681 acres total in Imperial County: T115, R9E, Section 36; T105, R9E, Section 34 and 36; T115, R10E, Sections, 45, 10 and 11.

LAND USE:

An initial exploration project consisting of geophysical, geological and geochemical exploration to target drillsites and exploration drilling to assess geothermal potential of the area. Development of the lease area will be allowed, thereafter only, upon completion of additional environmental documentation.

TERMS OF PROPOSED LEASE!

Drilling Term: Five (5) years, primary term of five years, and for so long thereafter as geothermal resources are being produced or utilized or are capable of being produced or utilized in commercial quantities from the leased land unless sooner terminated as provided in this lease.

SPECIAL:

Upon discovery of geothérmal resources in commercial quantities, lessee will be required

(ADDED 05/21/85)

-1-

CALENDÁR PAGE 105

CALENDAR ITEM NO. 26 (CONTID)

to contact the County of Imperial, Planning
Department for preparation of any environmental
documentation which will be required to cover
the effects of deep exploratory drilling and
full field development of the geothermal
full field development of the geothermal
resources. Lessee will be required to
resources any mitigation measures, adopted by
implement any mitigation measures, adopted by
the County whether under the control of the
County or any responsible agency.

CONSIDERATION:

0 mag

8 19

, ,

Po

80

00,2

Rental of \$25 00 per acre and a royalty of 12.5 percent of gross revenues received from the sale the sale of steam and ten percent from the sale of mineral products of chemical compounds, with of mineral products of chemical compounds, with a minimum royalty of \$2 per acre per annum.

PREREQUISITE TERMS, FEES AND EXPENSES:
Filing fees and processing costs have been received.

STATUTORY AND OTHER REFERÊNCES:
A. PRC Div. 6 Parts 1 and 2; Div. 13, Div. 20,

8. Call Adm. Code Title 2, Div. 3. Title 14.

AB 884:

06/11/85.

OTHER PERTINENT INFORMATION:

NFORMALION:

Union Oil Company of California has applied for a Geothermal Lease to explore for geothermal resources on lands at the west geothermal resources on lands at the west side of the Salton Sea in Imperial County, side of the Salton Sea in Imperial County, california, to determine the availability, california, to determine the availability, quantity and quality of geothermal quantity and quality of geothermal ends. The resources underlying the State lands. The use to be made of any resources discovered will depend upon their temperature, will depend upon their temperature, applicant is seeking a resource suitable for the generation of electricity in commercial quantities.

Prior to any exploratory work, the Lessee will supply the State Lands Commission with a site specific plan identifying proposed drillsites and access roads. With the drillsites identified, a site-specific drillsites identified, a site-specific biological survey will be conducted at each

(ADDED-05/-2-1/-85)

CALEROAN PAGE 1616

proposed site with representative staff from the Commission in consultation with the Department of Fish and Game. The surveys will determine if any habitat or any unique, rare or endangered species of animals or plants exist at or near the vicinity of the proposed drillsites or access foutes. If any rare, unique or endangered species of animals or plants are determined to exist at or in the near vicinity of any proposed drillsite or access route, those areas will be deleted from the specific plan and no activities will be conducted in those identified The Lessee will remove all drilling wastes from the area to be disposed at an approved Class II-i dispusal site. Drillsites will be located to avoid all water sources and washes. Sides of washes will be left intact with no vegetation removed. If any washes are inadvertently disturbed corrective action approved by Commission staff shall be promptly undertaken. Prior to any distumbance of the soil by construction or drilling, site specific surveys will be conducted to determine if there are archaeologic or paleontologic resources of value. Lessee will contact the Commission staff if any Native American artifacts or remains or objects of paleontologic significance are uncovered during the project. A representative of the Native American Heritage Commission shall be consulted at this time.

2. Pursuant to the Commission delegation of authority and the State CEQA Guidelines (14 Cal. Adm. Code 15025), the staff has prepared and circulated for public review a Proposed Negative Declaration identified as EIR ND 377, State Clearinghouse 84102402 pursuant to the provisions of the CEQA. Based upon the Initial Study, the Proposed Negative Declaration, and the comments received in response thereto, there is no substantial evidence that the project will have a significant effect on the environment (14 Cal. Adm. Code 15074(b)).

CALENDAR PAGE 105.2

CALENDAR ITEM NO. 26 (CONT'D)

- 3. Pursuant to Div. 6, Part 2, Ch. 3 Section 6919(d) of the Public Resources Code staff has determined leasing of the State-owned lands in the Truckhaven area would be in the best interest of the State. Union Geothermal has remained the only viable entity interested in developing the area. Union, Phillips and Southern Pacific Land Company are the dominant holders of lands surrounding the State parcels comprising the lease area. Only Union has expressed a desire to offer sufficient terms for the proposed lease. It is anticipated that Union's activity in the area will contribute in proving the resource within the Truckhaven area, and lead to development of State's geothermal resource and to the generation of significant
- 4. On May 7, 1982 Union Oil Company, Phillips Petroleum and Southern Pacific Land Co. entered into a Geothermal Unit Agreement unitizing their federal and private leases in the Truckhaven Area. These leases comprise 32,749,91 acres more or less. Phillip has a 50 percent interest in the unit; and Union and Southern Pacific each have 25 percent. Union also has a farmout to acquire 25 percent of Phillips' and Southern Pacific's interest.

In it Union's proposal that this lease of 3681 acres of State land be added to the Truckhaven Unit. If this lease is approved, paragraph 13 of the lease will give the Commission's consent to joinder of the Unit.

APPROVALS: REQUIRED:

Division of Oil and Gas, Regional Water Quality Control Board, County of Imperial Planning Department.

EXHIBITS:

- A. Land Description.
- B. Location Map.
- C. Negative Declaration.

(ADDED 05/21/85)

C. LEMONA PRUE 105. 31.

CALENDAR ITEM NO. 26 (CONT'D)

IT IS RECOMMENDED THAT THE COMMISSION:

- 1. CERTIFY THAT A NEGATIVE DECLARATION, EIR ND 377, STATE CLEARINGHOUSE 84102402, WAS PREPARED FOR THIS PROJECT PURSUANT TO THE PROVISIONS OF THE CEQA AND THE COMMISSION HAS REVIEWED AND CONSIDERED THE INFORMATION CONTAINED THEREIN.
- 2. DETERMINE THAT THE PROJECT, AS AMENDED, WILL NOT HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT.
- AUTHORIZE ISSUANCE TO UNION OIL COMPANY OF CALIFORNIA OF A GEOTHERMAL LEASE WITH A FIVE-YEAR DRIBLING TERM, AND A FIVE-YEAR PRIMARY TERM AND TO REMAIN IN EFFECT FOR SOLLONG THEREAFTER AS GEOTHERMAL RESOURCES ARE BEING PRODUCED OR UTILIZED, OR AKE CAPABLE OF BEING PRODUCED OR UTILIZED, IN COMMERCIAL QUANTITIES FROM THE LEASED LAND UNLESS SOONER TERMINATED AS PROVIDED IN THIS LEASE, IN THE EVENT GEOTHERMAL RESOURCES ARE DISCOVERED IN COMMERCIAL QUANTITIES ON THE LEASE! IN CONSIDERATION OF ANNUAL RENTS IN THE AMOUNT OF \$25.00 PER ACRE ON THE LAND DESCRIBED IN EXHIBITS "A" AND "B" ATTACHED HERETO AND BY THIS REFERENCE MADE A PART HEREOF. THE LEASES WILL AUTHORIZE GEOTHERMAL EXPLORATION INCLUDING THE DRILLING OF GEOTHERMAL WELLS. THE LEASES WILL PROVIDE FOR A ROYALTY OF 12.5 PERCENT OF GROSS REVENUES FROM THE SALE OF STEAM, TEN PERCENT FROM THE SALE OF MINERAL PRODUCTS OR CHEMICAL COMPOUNDS, WITH A MINIMUM ROYALTY OF \$2 PER ACRE PER ANNUM. THE FORM LEASE TO BE USED IS THE FORM ON FILE IN THE OFFICES OF THE COMMISSION.
- 4. AUTHORIZE UNION OIL COMPANY OF CALIFORNIA TO SUBMIT THE JOINDER AGREEMENT TO COMMIT THIS LEASE TO THE TRUCKHAVEN GEOTHERMAL UNIT BY NO LATER THAN JUNE 30, 1985.

-5-

(ADDED 05/21/85)

161.9

43

LAND DESCRIPTION,

...-_{WE}23353 ...

Six parcels of California State school and lieu lands in Imperial County, California, described as follows:

PARCEL 1

Section 36, T10S, R9E, SBM:

EXCEPTING THEREFROM a strip of land 84.00 feet wide passing through the EXCEPTING THEREERUM a strip of land 54.00 feet wide passing through the NWW of said Section 36, as described in the Deed to Imperial County dated December 5, 1967 and recorded December 6, 1967 in Book 1254; Page 814, Official Records of said County.

ALSO EXCEPTING THEREFROM the War of the SWa and the NWar of the NEW

of said Section 36.

ALSO EXCEPTING THEREFROM any portion of said Section 36 lying north of east of the southerly and westerly boundary linescof Tract 779 and as filed for record in Book 10.0 Page 3.0 Official Records of said the County County.

PARCEL 2

Section 34, TTOS, R9E, SBM.

PARCEL 3

Section 36, T118, R9E, SBM.

EXCEPTING THEREFROM the SEA of the NEW of said Section 36.

PARCEL 4

Section 4, Tlls, RloE, SBM.

PARCEL 5

.

Section 10, T11S, R10E, SBM.

PARCEL 6

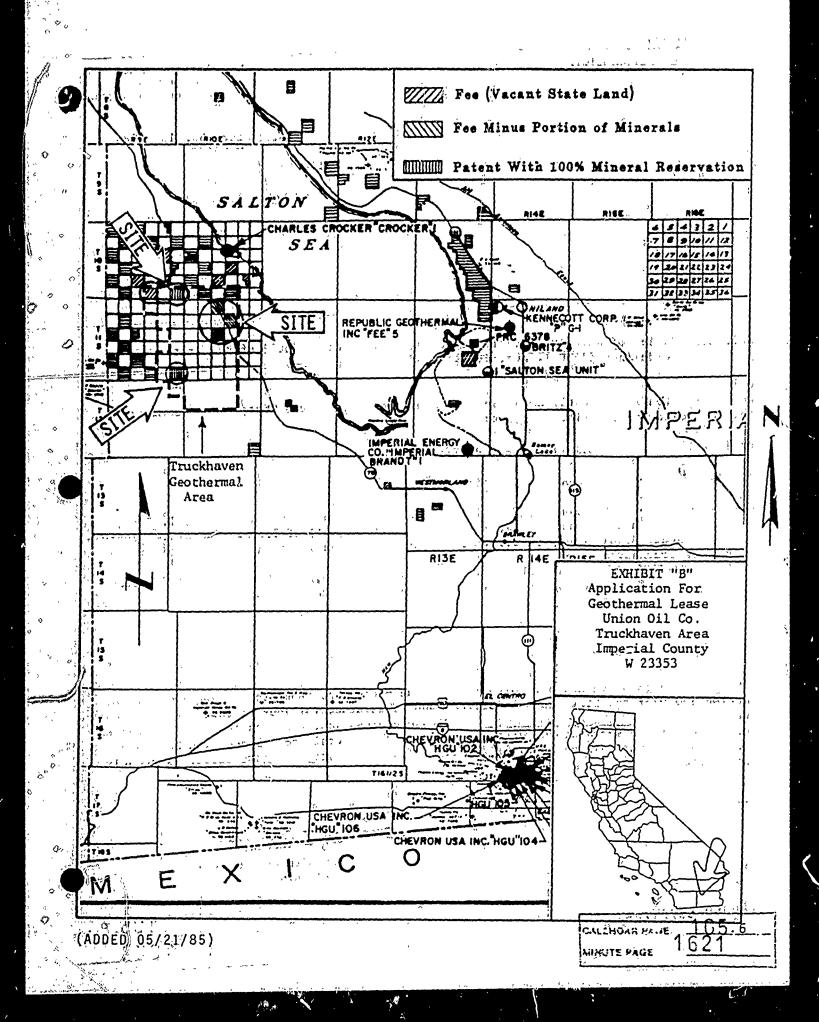
Section 16, T11S, RIOE, SBM.

END OF DESCRIPTION

REVISED APRIL 5, 1985, BY BOUNDARY SERVICES UNIT, M. L SHAFER, SUPERVISOR.

(ÁDDED 05/21/85)

CALENDAR PAGE MINUTÉ PAGE



STATE OF CALIFORNIA EXECUTIVE OFFICE STATE LANDS COMMISSION 1807 - 13th Street Secremento, Californie 958 December 18, 1984 W 23353 W 23354 File Ref. : พ 23355 84102402 SCH No.: Don Hoagland SUBJECT: Review of Negative Declaration Pursuant to Section 15073 of the State CEOA Guidelines (14 Cal. Adm. Code) And application is currently being processed by the staff of the State Lands Gormission for the full dying described project: Project Title: TRUCKHÄVEN PROSPECT/LEASE Project Proponent: Union Oil Company Section 36, T.11 S., R.9 E., Portions of Sections 34 & 36, T. 10 S. žájett kocation: R.9 E., and Sections 4, 10, 16, T. H. S., R. 10 E., all of Sed Man containing aparox imately 3,681 acres, on the west side of Salton Sea approximately 10 miles south of Truckhaven, Imperial County. Pojece description: To explore for and, if commercial quantities are found, develop geothermal resources for electrical power generation. A Negative Declaration has been prepared for the project pursuant to the requirements of

Section 15070 of the State CEQA Guidelines and Is attached for your review. Your corments are requested by January 21: 1935 . Please address your comments forthe State Lands Commission office shown above, with attentioneto the understaned. Should you have any questions, you may call me at (916)322-7813. Your cooperation in this matter is greatly appreciated.

ATTACHMENT

Division of Research &

Planning

DDED-05/21/85):

EXHÎBIT "C"

STATE LANDS COMMISSION

EXECUTIVE OFFICE 1807 - 13th Street Secremente, California 95814

PROPOSED NEGATIVE DECLARATION

EIR ND 377

W 23353

File Ref.: W 23354

W 23355 SCH## 84 102402

TRUCKHAVEN, PROSPECT/LEASE

Project Proponent: Union Oil Company

Project Location: Section 36, T.11 S., R.9 E., Portions of Section 34 & 36, T.10 S., and Sections 4, 10, 5, 16, T.11 S., R.10 E., all, of S.8 Magacontaining approximately 3,681 acres, on the west side of Salton Seampproximately 10 miles south of Trucks

haven, Imperial County.

Project Description: To explore for and, if commercial quantities are found, develop geothermal resources for electrical power generation.

Contact Person:

Ted T. Fukushima

Telephone:

This document is prepared pursuant to the requirements of the California Environmental Quality Act (Section 21000 et seq., Public Resources Code), the State CEQA Guidelines (Section 15000 et seq., Title 14, California Administrative Code), and the State Lands Commission regulations (Section 2001) 2901 et seq., Title 2. California Administrative Code).

Based upon the attached Initial Study, it has been found that:

/ The project will not have a significant effect on the environment.

/x/ mitigation measures included in the project will avoid potentially significant effects.

(ÁDDED 05/21/85)

CALENDAR PAGE MINUTE PAGÉ

MITIGATION MEASURES

- 1. Prior to any exploratory work, Lessee must supply to the State Lands Commission a site-specific plan designating the proposed drillsites and access roads.
- 2. A site-specific biological survey must be conducted by Commission staff in consultation with staff of the Department of Fish and Game to determine if any wildlife habitat of any unique, rare or endangered species of animals or plants exist at or in the near vicinity of the proposed drillsites and access routes. Lessee shall assist in site-specific surveys by staking out the proposed drillsites and access routes and by providing a responsible representative to walk over the specific plan area with State otaff members.

If anymunique, rare or endangered species of animals or plants are determined to exist at or in the immediate vicinity of any proposed drillsites or access routes such drillsites or access routes such drillsites or access routes such drillsites or access routes shall be deleted from the specific plan and no activities will be conducted in identified areas.

- All drilling wastes will be removed and trucked to an approved Class II-1 disposal site. No material will be drilled on site.
- 4. All water sources and drainage washes shall be avoided. Sides of washes shall be left intact and no vegetation removed. If any washes are inadvertantly disturbed, corrective action approved by Commission staff shall be promptly undertaken.
- 4. Lessee shall conduct a site-specific survey at proposed drillsites and access routes prior to any disturbance of the soil by construction or drilling to determine if any archaeologic or paleontologic rescurces exist. Lessee shall contact the staff of the State Lands Commission of any Native American remains or artifacts, or objects of paleontologic significance are uncovered during the project.

(ADDED 05/21/85)

CALEBOARE 105.9

COMMENTS IN RESPONSE TO INITIAL STUDY. AND RESPONSES TO COMMENTS

A) Department of Fish and Game:

1. Comment: A thorough biological survey should be carried out and a biological report prepared to identify potential biological impacts and to recommend appropriate compensation measures for the impacts.

. Response:

The Department of Fish and Game requested a biological survey be performed in order to determine if any wildlife habitat or unique rare or endangered species of plants or animals exist in the permit area. In order to meet this concern the lease requires the lessee, prior to any exploratory work, to provide the State Lands Commission with a detailed site specific plan designating the proposed drillsites and access routes. The Commission staff, in consultation with the staff of the Department of Fish and Game shall analyze the proposed plan and perform a site specific biological survey to determine if any willlife habitat of any unique, rare or endangered species of animals or plants exist at or in the near vicinity of the proposed drillsites and access routes. Lessee shall assist in this analysis and survey by staking out the proposed drillsites and access routes and by providing a responsible individual to walk over the specific plan area with the State staff members. If any unique, rare or endangered species of animals or plants are determined to exist at or in the immediate vicinity of any proposed drillsites or access routes, such drillsites or access routes shall be deleted from the specific plan and the lessee shall not conduct any activities in such areas.

 Comment: The number of drill holes should be identified rather than the use of a "limited number".

Response:

Union will drill a minimum of three wells at the Truckhave prospect. The number of additional wells drilled will depend upon the data of nered from the preceding wells. Prior to drilling the lessee will be required to conduct the procedures outlined in item A-1.

3. Comment: It is requested the drilling wastes are removed and trucked to an approved hazardous waste disposal site with no option to dry them-on-site.

Response:

All drilling wastes will be removed and trucked to an approved Class II-1 disposal site; no material will be dried on site.

4. Comment: Water sources and drainage washes are to be avoided and any alteration of stream flows or channels will require notification of the Department of Fish and Game.

(ADDED 05/21/85)

105.10

ر. الية

Response:

All water sources and drainage washes shall be avoided. No drillsites are to be located in drainage washes. Sides of washes shall be left intact and no vegetation removed. If any of the wash sites are inadvertently disturbed corrective action approved by the Commission staff shall be promptly undertaken by the Lessee.

B) 1. Comment: Imperial Valley College Museum requests that a full field Archaeologic survey be conducted.

Response:

To satisfy the comment posed by the IVC Museum, the Lessee shall conduct a site specific survey to determine if any Archaeologic or Paleontologic resources exist at each proposed drillsite prior to any disturbance of the soil by construction or drilling. The lessee shall contact the staff of the State Lands Commission if anyNative American remains or artifacts or objects of Paleontologic importance are uncovered during the project. Lessee shall not further disturb areas where such remains and/or artifacts are discovered. The Museum will be contacted to determine proper collection or disposal of such findings.

- C) Department of Parks and Recreation.
 - 1. Comment: Requests that a full field Archaeologic survey be conducted in the whole of Section 36. This Ref.

Response:

To satisfy the comment posed by the Department of Parks and Recitation the lessee shall conduct a site specific survey to determine if any Archaeologic or Palenontologic resources exist at each proposed drillsite prior to any disturbance of the soil by construction or drilling. The lessee shall contact the Staff of the State Lands Commission if any Native American remains or artifacts, or objects of Paleontologic importance are uncovered during the project. Lessee shall not further disturb areas where such remains and/or artifacts are discovered. The Department of Parks and Recreation will be contacted to determine proper coelection or disposal of such findings.

- D) County of Imperial
 - 1. Comment: County of Imperial was concerned the lease would allow development without proper environmental processing.

Response:

Prior to any production or development action the Lessee will be required to contact the County of Imperial Planning Department to comply with the proper environmental review and documentation as stipulated by the County.

(ADDED 05/21/85)

CALENDAR PAGE 165.11
MINUTE PAGE 1626

Company of the second of the s STATE LANDS COMMISSION Property of the State of the St

Date Filed: 41.4.184

FILE Ret.: W 23353-54, 55

MINUTE PAGE

ENVIRONMENTAL IMPACT ASSESSMENT FORM - Part I (To be completed by applicant) FORM 59,3(11/82)

GEÑ	NERAL INFORMATION		£ ,
Nam	ne, address, and telephone number:		
 a.	Applicant	'b.	Consect person if other than applicant:
	·Union Oil Company of California	**	
1	A. J. 127 A. J. T.		The state of the s
	461 South Boylston Street	- -	and the second s
	Los Angeles, CA 90017	96⊅ 23	, , , , , , , , , , , , , , , , , , , ,
ī	*		The state of the s
	1.213 1977-7600		The state of the s
(ã.;	Project location: (Please reference to mearest town of	community an	nd include:county)
4 -	East and South of Salton City with	a radius o	of approximately 0 to 9 miles,
'			de Augel
	Imperial County.	,	
_ '		* ;	· · · · · · · · · · · · · · · · · · ·
• •	Assessoil's parcel number: 17-34-3, 4, 10, 1	11. 318°	
Ę ż jst	ting land use of project site:	st, produc	e and market the geothermal resou
			The second of th
<u>i·f· a</u>	any, in the vicinity of Salton City.		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Orbe	r permits required. County of Imporial, Pla	anning and	Building, APCD, California Divis
<u>'10</u>	Oil and Gas, Callifornia Regional Water	· · · · · · · · · · · · · · · · · · ·	The state of the s
PRO.	JECT DESCRIPTION		
For b	puilding construction projects, complete "ATTACHMEI	NT A".	
ດ ນເດືອ	non-tuilding construction projects: Describe fully; the ral-prospecting permits, include the number of test b coares of distribisace, hule locations, depth oliholes, e	holes, size of h	oles, amount ĝi materiali to be excavated, maxim
	DED 05/21/85)		CALEHDAR PAGE 105.
ARD	かたが、からいたまじおおい ペー		MINITE PAGE 1627

Describe the project site as it exists before the project, including information on topography, soil stability, plants and anima-C. ENVIRONMENTAL SETTING and any cultural, historical, or scenic aspects. Describe any existing structures on the site, and the use of the structures. Describe the surrounding properties, including information on plants and animals and any cultural, historical, or scenic and pescribe the surrounding properties, menoring moderate the type of land use (one-family, apartment houses, shoos, depart indicate the type of land use (residential, commercial, etc.), intensity of land use (one-family, apartment houses, shoots, depart ment stores, etc.), and scale of development (height, frontage, set-back, rear yard, etc.). ENVIRONMENTAL IMPACT ASSESSMENT Answer the following questions by placing a check in the appropriate box. Discuss all items checked "yes" or "mayta" gor**D.** (Attach additional sheets as necessary) YES MAYBE NO क्रिक्कोपुक्र केल क्लोब्रोकेल्याक्षिकार्त्तकेल्यां क्लोप्रीम्बपुरद्रशांतिवाल्याः hearhes, lakes, gr hills, or substantial alteration Will the project involve: a change in scenic views or vistas from existing residential areas or public lands or roads?.................. a change in pattern, scale, or character of the general area of project? S. significant amounts of solid waste or litter? a change in dust, ath, smoke, lumes, or coors in the vicinity? a change in ocean, bay, lake, stream, or ground water quality or fluantity, or alteration and existing drainage patterns? Guiconstruction on filled land or on slope of 10 percent or more? In the construction on filled land or on slope of 10 percent or more? substances, flammables, or explosives? an increase in follis fuel consumption (electricity, oil, natural gas, etc.)? (13. % larger project or a series of projects? . . . CERTIFICATION

I hereby certify that the statements furnished above and in the attached exhibits present the data and information re quired for this initial evaluation to the best-offmy ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

April 4, 1984

JOSEPHIL. WILSON, Attorney-In-Fact

(AUDED 05/21/85)

4 65.13 CALENDAR PAGE

INITIAL STUDY INTRODUCTION

Union Oil Company of California has applied to the State Lands Commission for three Geothermal Leases on State-owned lands to the west of the Salton Sea approximately three miles southwest of Truckhaven, Imperial County, California.

This Initial Study is intended to review the project, which, with minor differences, was originally proposed by the Phillips Petroleum Company under State Lands Commission Initial Study/N.D's SCH No 8111552, for PRC 6095 6097 and PRC 6098.

The proposed project consists of exploratory drilling of several geothermal temperature gradient wells to target drillsites for exploration drilling to determine the existence, quality and quantity of geothermal resources for electrical power generation. The lessee may test the wells to establish the existence of a commercial resource. During the initial exploratory phase, activities will be restricted to existing roads and trails. Before exploratory drilling and full field development are allowed the county of Imperial, pursuant its to CEQA authority, will assess the potential impacts.

The differences between the original Phillips Petroleum Project and the current application submitted by Union Off Company involve changes from a Geothermal Prospecting Permit to a proposed negotiated lease. The area covered in the Geothermal lease is a different area from the previous Prospecting Permit. The lease covers sections 34 and 36 TlOS R9E and omits sections 28 and 22 which were in the original prospecting permit (see map Exhibit C) The Geothermal prospecting permit allowed for a initial drilling term whereas the lease will provide five-year initial drilling term.

As with the geothermal prospecting permits issued to Phillips the leases will allow Union to drill exploration wells and to collect geophysical and geologic data. Prior to any field development, drilling and installation of power facilities, the applicant will be required to make application to the County of Imperial for field development.

A well, Truckhaven No. 1, has been drilled by Phillips and has been covered by an E.I.R. prepared and circulated by Imperial County under State Clearinghouse No. 81050106. The document was adopted September 9, 1981 and Notice of Determination prepared on October 6, 1981. The well is covered under County Permit No. 116-81.

(ADDED 05/21/85)

CALENDAR PAGE 105.14
MINUTE PAGE 1529

STATE LANDS COMMISSION

ENVIRONMENTAL IMPACT ASSESSMENT CHECKLIST - PART II

W 23354 W 23354

File Ref: W 23355

rm 13.	20° (1/42)·	
· .		η (1
, PA	CKGROUND INFORMATION	with the second
, ,	Applicant: Union_Oil_Company_of California	Annual designation of the second seco
<i>-</i>	Act Work Wain Street	
,	Brawley, California 92227	
′•	Brawick, darage and the second	و الما المشاعلة المستنادية المستا
,	10.10.194	1
8.	Checklist Date: 10 / 10 /84	The state of the s
	Contact Person.	
	Telephone: (916 1 322-7813 Purpose: Issuance of a Geothermal Lease to allow initial	exploratory drills
Ď.	Purpose: Issuance of a Geothernal Lease to day as	
•	for potential geothermal resources.	south of Truckhaven
E:		C TOUT AVOID TOC
Ţ~~;	Imperial County Sec. 36, T11S, R9E; Sec. 34 & 36, T10 portions there of and Sec. 4, 10, 16 T11S, R10E SBM apportions there of and Sec. 4, 10, 16 T11S, R10E SBM apportion: Applicant proposes to perform geological and grant including the drilling of a limited number of tem tion including the drilling of a limited number of tem the target drillsites for deep exploration drilling.	prox. 3,681 acres.
" E	portions there of and Sec. to perform geological and g	eophysical explora-
\ r.	tion including the drilling of a limited number of tem tion including the drilling of a limited number of tem holes to target drillsites for deep exploration drilling holes to target drillsites for deep exploration drilling	ng to determine the
1	holes to target drillsites for deep exploration holes to target drillsites for deep exploration resource	s for electric page
	hôles to target drillsites for deep exploration drilling hôles to target drillsites for deep exploration drilling hôles to target drillsites for deep exploration resource existence, quality and quantity of geothermal resource existence of a commerce of a	xplorathry driver.
,	TARRED WELLS TO ESCAPTABLE OF THE CONTRACT OF	ia waserricted to
), (*)	nuring the initial exploite to product of	Ance oveleration
~	existing roads and trailes. Site specific impacts of existing roads and trailes, the development phases will be drilling and possible future development phases will be drilling and possible future development.	e assessed by the
41		
٠	noug Stockton, Division of Ull	, <u>\$_</u> ,Ga,\$,
, –		
	2. Ronald Powell, Dept. of Letan december, College 3. Jay Von Werlhof, Director, Imperial Valley College	<u>Museum, El</u> Céntro.
¢	2. Oak was uda zazat z m ito	* * * * * * *
` ^ /		a a new minimum a most en en
1,5	to the second series to the second series to the second se	
ic ii	ting an easy any experimental property of the same of the same and the same of	4
J		4
11) E	NVIRONMENTAL IMPACTS. (Explain all "yes" and "maybe" answers)	Yes Maybe No
Ĭ,	es es un un de a de appeal coupli in t	
, ¥		ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا
ď	the teamparty compaction, or overcovering of the soil?	
•	The state of the s	
	3. Change in topography of ground sorrespond of any unique geologic or physical features?	
	4. The destruction, covering, or magnitud florids and or off the site?	
	5) Any increase in wind or water crosson of soils, effectively	. It falls makes

6: Changes in deposition of erosion of beach sands, or changes in siltation, deposition or ecosion which may important the channel of a river or stream or the hed of the ocean or any bay, inlet, or takes and a second or any bay.

(ADDED 05/21/85)

7 Egiptine of all péople oriproperty to geologic hazards such as earthquakes, landslides, multiple enomine of the landslides, and some of the landslides of the landslides, and some of the landslides

į.		and the state of t		,	
	*	1. Mile. Will the proposal result in	Yes	Maybe No	
35,		ि हुं है ि Substantial air commissions or deterioration of ambient air quality?			Ì
	1	10 40			1
		Alteration of air movement; moisture or temperature, or any change in climate, either locally or regionally?			
		Changes in the currents, of the course of the		· 145. (1.51)	(
		2. Changes in the currents, or the course or direction of water movements, in either marine or fresh waters? "	[ii].	1 min	`
		2. Changes in absorption rates, drainage patterns, or the rate and amount of surface water runoff?		1 %	
	4	4. Charles in the amount of surface water in any water body?		7 2	*
		5. Discharge into surface waters, or in any alteration of surface water quality, including but not limited to	11	1 1/4	
	. Š	6. Alteration of the direct on or rate of flow of ground waters?	11	1 73	
h.	50	Ception of an aquifer by cuts or excavations.	1-1		
	S	Substantial reduction in the amount of water otherwise	1 %	5 .	
				14	
-			1.6,	5 3).	
			9	l yik la ∦ Navigarangan di	
	0 8	To Changesin the diversity of species, or chumber of any species of plants (including trees, shruhs; grass, crops		ener mage	
	3	Reduction States and S	*;		
**	×983	As hit effection of the numbers of any unique, rare or endangered species of plants?	t F	174	-
	o C	species?	***	Sign,	•
	0 (b)	a. netturgion, in ugreage on any agricultural const	ξ.	36	
بر. بد	ć	With the biopositive soil in the second state of the second secon		<i>9</i> %	
	ن بن (۱	Change in the diversity of species or numbers of any species of animals (birds, land animals regularity)		, 1	
1	- 65	neutron of the numbers of any union and the same and the	• • •		
• • •	, 3; &	Introductions of new species of animals into an area, or result in a barrier to the migration or movement or		100	
	T. 4.1	Deterioration to existing fish or missing a			
ŗ	.Na	Deterioration to existing fish or wildlife habitat?		ta L	
	15	figureaseuntexisting noise levels	i 2	T/L	
	2.	Exposure of people to severe noise levels?	, ,		
Ĝ.	.l.ig	If and Glare Will the proposal result in	ાં ; ત્રા		
,	اً ما	The Soduction of new light at plant	1 - 3/	10. ;	
.	Lün	The Soduction of new light of glare?	di a	F=F\$ 1}	,
مرسية		saudstantial alteration of the present our land	! ! , ,	4	
۾ ا	ก็บเูน	real Revisiters. Will the proposal result in:	5 j . :	1	
	មិ ដល់	nerease în theirate of use of any fortunt	: : ୧୭	r	
4 3 dr 8	2. Su	unitantial degletion of any numenowable resource?	43	Č.	
10 A 10	olis	ubstantial defiletion of any numrenewable resources?		8	
14.5°C	2 .0		, ,		١,
J. J.		DDED: 05/21/85):	ÜE	716	,
Payer Sign	P \$¢ 12 20.	MINUTE PAGE 1.6.		-10	
7	- MARA	CONTRACTOR OF THE PROPERTY OF	41		,

ָ ֖֖֖֖֖֖֖֖֖֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	Riskinf Upsit. Does the proposal result in:	Yes Maybe No
· `\	14. A risk of an explosion or the release of hazardous substances (including, but not limited to chemicals, or radiation) in the event of an accident or upset conditions?	
3 h	🚟 👫 bossiple intertecence with ewerdench residouse bigg or an emergench exactation hanner	
ķ	Population. Will the grootsel result in:	and the second s
, (, , , , , , , , , , , , , , , , , ,	1. The alteration, distribution, density, or growth rate of the human population of the area?	
į į	Millousing. Will the proposal result in:	1 how , to
	1. Affecting existing housing, or create a demand for additional housing?	
N	I. Transportation/Circulation, Will the proposal result in:	
Ų.	1. Generation of substantial additional vehicular movement?	man and the little of the litt
	2. Affecting existing parking facilities, or create a demand for new parking?.	
	.3. Substantial impact upon existing transportation systems?	
	4. Alterations to present patterns of circulation or movement of people and/or goods?	
.a	5. Alterations to waterbornegrail, or air waffic?	The second secon
-	்க், Increase in traffic hazards to motor vehicles, bicyclists, or pedestrians? க வருவர்களை மாக்க	31885 W
N	Public Services. Will the proposal have an effect upon, or result in a need for new or altered services in any of the following areas:	governmental.
\$	1.:Fire projection?	
٠,,	. 2. Police protection?	🗇 🗇 🕉
	3. Schools?	🗆 🗍 💯 🕺
. 4	4, Parkwand other regreational facilities?	
)	5. Maintenance of public facilities, including roads?	
. "	6. Other governmental services?	
Ο.	Energy. Will the proposal result in:	
	1. Use of substantial amounts of fuel or energy?	
ę,	2. Substantial increase in demand upon existing sources of energy, or laquire the development of n	new sources? . [] [] 👑
P.	Utilities. Will the proposal result in a need-top new systems; or substantial afterations to the follo	wing utilities.
	1. Power or natural gas?	
	2. Communication:systems?	
`	^ `	
y î V	4. Sewer or septic tanks?	
a ,	5. Stormiwater dramage?	
,	6. Solid waste and disposal?	
įΩ.	Human Health Willithe proposal result int	And the first term of the second of the seco
12	1. Creation of any health hazard or potential health hazard (excluding mental health)?	SM. CO. IN LA POPULAR STATE OF THE STATE OF
, '	2. Exposure of people to potential health hazards?	And the second of the second o
R.	Mesthetics. Will the proposal result in:	· in special contraction of
,	1. The obstruction of any scenic vista or view open to the public or will the proposal result in the an aesthetically offensive site open to public view?	e creation of
	Recreation, Will the proposal result in:	•
	1An impact upon the quality or quantity of existing recreational opportunities?	17 Mak 17
	(ADDED: 05/21/85)	CALENDAR PAGE
	(Modern od mar de la company)	MINUTE PAGE

5.39	ল' জুলা নি	52.	(to 10 mm)				io er .	, , , , , , ,	46 .	*	the street stage	pus 5	P AND CO.C.	۰.,	
300	Ţ,	CH	ili yral	Řeşin	urces.			•		ال مع	,415 × 18 - 192 #1	, i., i.).	Yes A	Aav be	. No
•	ovi	i	Will t	he pru	က္ကလွန္ျင္တန္သည္။	tun the alte	ration of d	or the destru	stion of a pre	historic or histo	oric archeologic	1 (1752);	ا إل أ		ΓI
2 Jan 2 2]2.	Will	the p	oposal res pobject?	ult' in' adve	rse physic	cal or aesth	etic effects	to a prehistorie	c or historic b	Salication uilding 1933 191	د الاستاد . د السياد .	<i>₹/2</i> 4 €]}-	L.J
1	. Barbar	3.	Does.	the pr	opošal hav					ch would allect		รับใช้ก็สัมกั	• • •	<u> </u>	<i>(11)</i>
, my 5	ار المعدد ا	ne '	ANIOCZ	٠٠,٠٠٠	• • • • • • •	• • • • • • •	•••••	• • • • • • • •		tential impact a					(20) (40%)
3	U.	Mor	rdator	r Fine	dings of Sig	mificance.	.,		•			क्रिकेम् अस्त ।	ا لنتا:	1443 B	(*/ <i>A</i> *)
8		13	plan nimal	e spec tyce a or eli	nes, cause a gimal com minatelimp	i fish or Will munity, rec portant exac	lite popul fuce the r ples of th	ation to dro number or i le major peri	p below self's estrict the ra ods of Califor	nment, reduce outlining levels, nge of a rare of nistory or p	threaten to ell cendangered p prehistory?	minate ant,or	1 11		· ·
		2. C	osic?	he pro	ject have	the potentia	l to achie	ve shortiteri	ñ, tó the disa	dvántage of long	g:term, environ	nental	i programa.	(1) ₹	
		ტ _	·							कृ । एकप्राणि द्वीक प्रदेशकाङ्गा,			1		N
' ' 	4									latively conside				4: 4	771;
، ، رما	, e.,	, e	ther d	lirectly	A ou judice	tly?	ai eilect2	wnich will (anse šripstau	tial adverse elle	icts;on human b	eings,) (1 9	1 %.
11.	DISC	ÛSS	NOIS	OF EN	MNOBIN	ENTAL EV	ĄĽŮĄŢĮĆ	N. (See Con	ments Attaci	hed):		A Think	بيا ابن	eda G	şa:
; ••••• ••••••	0	,			t, the out	\$ to _ ^ 5	, N. 1") * P1	"快吹着多人人。	, the way to be pro-	१६८५ है। १८५५ है। १९५५ है। १८५४ है।		4. '	. 1 ° 4 - 1, - 1, - 1, - 1, - 1, - 1, - 1, - 1,	r
ا ه.	1	1		1					•		ν	441.17	***	1 ,	*
	* *	K. 4.	, ,	1						•		\$ to 15	"k. ,		
1	*		7 .	,		•							'		•
		* *	1								, (2).1	, 1			. 4
٥	. 0	* (1	, ,						rie de		, 1	,		
	, ,	, 's	'	1				•			٠, ٧	, , , , ,			
*			1								, †			-	•
, ,		* 7		`						• •	** ,	. t			
	;	* *			× .	· ·	*	* 4 1 14			4				
ı						, , ,	·, · · · · · · · · · · · · · · · · · ·	**	,	2 , N		, *			
	*	(7)													
Ų	;	Ą.		• •							° • · •	1		,	
4.0	<u>ب</u> ۾	# [*] \$ *)"(*		
Φ LPR	ĔĹĬŇ	Hini	ΔΑΫ	DETE	RMINATI	ON	•			•		•	•		
					ing evalunti							,		,	
			* * *	. \$		•	Thave a ci	čoiticant att	and on the St	vitoument, and		• ' '		1,1	V
د. کستی	be p	jįep	ared.		, ,			amineant éti	ect on the en	vilonment, and	a NEGATIVE (DECLARA	MOIT	will	
	DEC	CLA	RATI	ON	illibe prepa	ried .	,	12-12 12:11 AV	'attachen' 200	e environment, et. havetbeensad	aged, to the big	lect A N	EGATI	νĒ	•
1	is re	id ti quie	he pro ed.	sbösed	J project M	AY hayê a	significant	deflect on t	le environme	iit. and an ENV	IRONMENTAL	IMPACT	REPO	ភ្.ក	
,	<i>*</i>	y	to.	,	* 55 4	. , 11.			•	1	•	',			4
Dai			j.		L			•			19 1 . 1 1	•		•	
	<u> </u>	الشور			*** M_{E_1}^{E_1} R^{2}) . * * 1		ret relieve	For the S	tate Lands Com	missio CAL END	AR PAGE	10	5.	18
(AD	DE) [[25/2	1/8	5.)	400.0		1 -		•	MINUTE	PACE TO SE	63	3/	
	سهان در عالی در در میکنوندوستوندوس	ender ender	e same		مقبورہ مدین معینست مفسورہ مدین	1845.j					The state of the s	FAUE	<u>ٽينڊ</u> <u>ند</u> ب	<u> </u>	

P" Planting EXHIBIT "A"

LAND DESCRIPTION

W 23353

Company of the second

and the second of the second o Two parceis of California State school lands in Imperial County, California,

PARCEL 1

, Section 36, TIOS, R9E, SBM.

EXCEPTING THEREFROM a strip of land 84.00 feet wide passing through the NWs of said Section 36, as described in the Deed to Imperial County dated December 5, 1967 and recorded. December 6, 1967 in Book 1254, Page 814, Official Records of said County.

ALSO EXCEPTING THEREFROM the Wis-of the SWG and the NWG of the ... on color of their weeks!

ALSO EXCEPTING THEREFROM any portion of said Section 36 lying north or east of the southerly and westerly boundary lines of Tract; 7790as; filedufor record in Book 11, page 3

PARCEL 2

Section 34, TIOS, R9E, S6M.

END OF DESCRIPTION

PREPARED MAY 10, 1984, BY BOUNDARY AND TITLE UNIT, LEROY WEEL, SUPERVISOR.

The west of the second

(ADDED 05/21/85)

CALENDAR FAGE 105.19 1634 MINUTE PAGE

The transfer of the terms

EXHIBIT "A"

LAND DESCRIPTION

W 23355

Three parciels of California State school Hands in Imperial County, California, described as follows:

and the state of t

The the said that I

PARCEL 1

Section 4, TllS, RlOE, SBM.

PARCEL 2

Section 10, Tils, Rioe, SBM,

PARCEL 3:

Section 15, T115, R10E, SBM.

END OF DESCRIPTION

PREPARED MAY 10, 1984, BY BOUNDARY AND TITLE UNITY, LEROY WEED, SUPERVISOR.

EXHÎBÎT "A"

LAND DESCRIPTION

W 23354

Apparcel of California State school lands in Imperial County, California, described as follows:

Section 36, Tals, R9E, SBM.

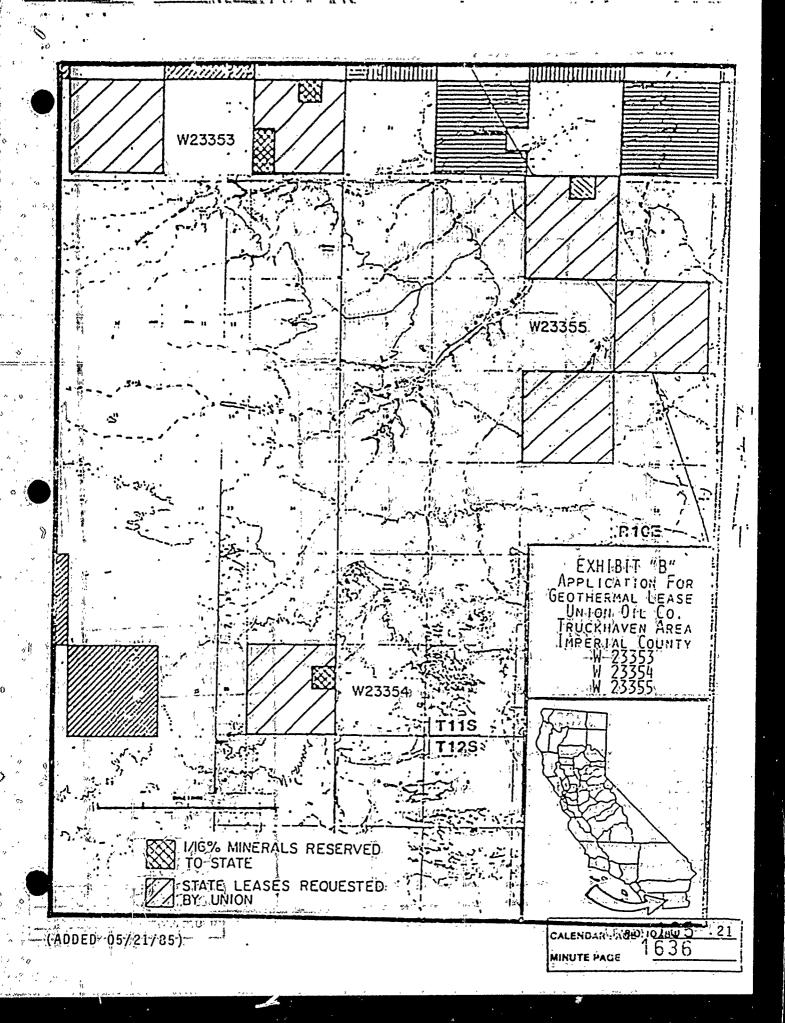
EXCEPTING THEREFROM the SEL of the NEL of said Section 36.

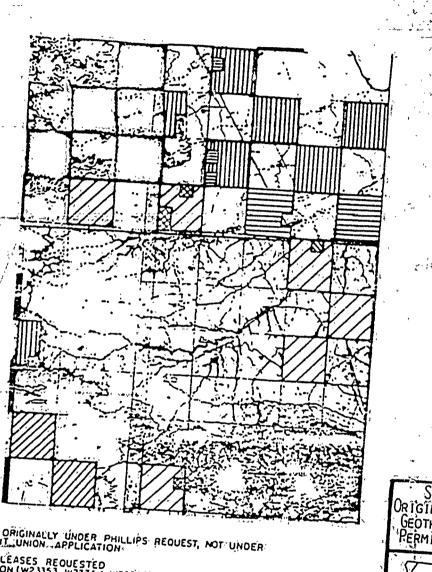
END OF DESCRIPTION

PREPARED MAY 10, 1984 BY BOUNDARY AND TITLE UNIT, LEROY WEED, SUPERVISOR.

€V. (ADDED 05/21/85)

CALENCAR PAGE 1 635





PHESENT UNION APPLICATION

STATE LEASES REQUESTED WESTS (WESTS)

Y///// Fee (Vacant State Land)

Fee Minus Portion of Minerals

Patent with 100% Mineral Reservation

Patent with Portion of Mineral Reservation to U.S.

Patent, 1/16% Minerals Reserved to State

STATE LANDS UNDER ORIGINAL PHILLIPS, HOLLY GEOTHERMAL PROSPECTING PERMIT PRC 6098 & 6099 MINUTE PAGE 11/A

DISCUSSION OF ENVIRONMENTAL IMPACTS

- A2,3. Disruptions or Changes of Topography

 Each drill site may require some keveling and construction of a 100 x 1/75 foot sump for drilling mud. The sites will not exceed 3.7 acres and the proposed permit will require restoration and reseeding upon conclusion of drilling.
- B2. Objectionable Odors

 There is a possibility of temporary venting of H₂S during drilling. The permit will require an H₂S contingency plan, continuous monitoring of efficient gases at the wellhead, reporting gas analyses, and compliance with regulations and orders of all governmental agencies having jurisdiction.
 - C7. Change in Quantity of Ground Waters

 The proposal, if a commercial resource is discovered, contemplates the removal of geothermal ground waters.

 Depending on the nature of the resource, such waters may be reinjected after the extraction of heat.

 Portable ground waters will be protected by casing and cementing, as required by the permit as well as requirements of the Division of Oil and Gas.
- Clu. Changes in Thermal Springs.

 Although there has been no direct correlation drawn between the drilling of deep geothermal wells and a reduction in temperature, flow or chemical content of surface thermal springs, this is a remote possibility and therefore a spring monitoring program would be drilling near springs.
 - There will be an increase in noise levels during drilling, which is expected to take no more than 4-5 weeks per well; the permit will allow a maximum noise level of 65 dba at 1/2 mile from the site.
- Gl. New Light
 If, night drilling is permitted, there will be a localized temporary increase in light and glare; however, the area is sparsely populated and this will be a short term problem.

-1-

(ADDED 05/21/85)

CALENDAR FAGE 7638

- H1. Alteration of Planned Land Use
 While the exploratory phase will create minor
 alteration of the present or planned land use, which
 is currently desert recreation, a commercial discovery
 could lead to drilling of additional wells,
 construction of pipelines and sites of a powerplant
 and transmission lines. Failure to make a discovery
 during the initial exploratory state will end all
 activity and any potential for land use alteration.
- The purpose of the proposal is to explore for and utilize geothermal brines and/or steam for generation of electricity. During the initial exploratory phase there would be no increase in use of natural resources, but a commercial discovery could lead to a substantial use of geothermal resources for electrical generation as a replacement for fossil fuels presently being used for that purpose.
- I2. pepletion of Resource

 Geothermal resources are considered a depletable resource, but because of the geologic conditions within the project area; all or most of the geothermal fluids withdrawn would have to be reinjected to prevent subsidence. A properly engineered and managed injection program should assist in extending the live of the reservoir thus reducing rate of deptetion.
- Jl. Risk of Explosion

 The permit will require a blowout contingency plan to contain any hazardous material at the drill gite.
- Ml. New Vehicular Movement.

 While the increase in traffic during the initial exploration phase will be slight and caused by crew and equipment traffic for brief periods, the area is sparsely inhabited thus any increase in traffic might be considered a substantial increase when measured against the normal traffic count:
- N5. Maintenance of Public Facilities

 The initial exploratory phase will generate only light service truck and crew traffic and should cause little road maintenance problems. Movement of deep drilling rigs and equipment over local roads has potential for creating some road maintenance problems. This potential will increase if a discovery, leading to full field development, is made. Lack of a discovery during the initial exploratory phase will eliminate all possibilities of road maintenance problems because the exploration activity will terminate.

CALENDAR AGE 105.24

- P6. Waste Disposal
 Drilling wastes will be contained in the sump approved
 by all appropriate state and local agencies having
 jurisdiction over waste disposal. Drilling wastes will
 either be dried on the site and covered or removed and
 trucked to an approved II-1 site.
- There may be some emissions of hydrogen sulfide gas H2S during exploratory drilling and testing but the permit will require H2S monitoring, a reporting system and the applicant will be required to meet all local and state air standards which will keep H2S emissions well below the level where they would become
- Rl. Obstruction of Views

 Temporary siting of a drill rig may be aesthetically offensive; however, the proposed drill sites are located in relatively remote and sparsely populated areas.
- S1. Impact on Recreation Quality
 A portion of the proposed permit area is located in an area being contemplated as an addition to the Octilition Wells Vehicle recreation area and some of the area contemplated for ORW use could be restricted for safety reasons during the short time exploratory
- There will be little of no surface disturbance during the initial exploration phase but earth movement for site and sump preparation would occur at the exploratory drilling phase and possible impacts to prehistoric archeological sites would have to be assessed during the county's use permit hearings before specific drillsites are approved. During the restricted to existing roads and trails to prevent possible damage to cultural resources.

0210A

- 3-

CALENDAR PAGE: 1 105 . 25
MINUTE PAGE

Air Resources Board 1102 Q Street Sacramento, CA 95814 (916) 322-6161

DENNIS O'BRYANT Dept. of Conservation DENNIS O'BRYANT 1416 Ninth Street, 3m: 1354 sacramento, CA 95814 (916) 322-5873 1. 1

HARVEY COLLINS Dept. of Health 714 P Street, Rm. 430 Sacramento, CA 95814 (916). 322-2308

MICK del CLOPPO Office of Historic Preservation 830 'S' Street Sacramento, CA 95814 (916) 322-8703

JAMES M. DOYLE "Dept. of Parks & Recreation P.O. Box 2390 Sacramento, CA 95811 (916) 322-8715

ANN GERAGHTY

Dépl. of Water Resources
Dépl. of Water Resources 1416 Winth Street, Rm 215-1 Sac allento, CA, 95814 (916) 445-7416

> ROBERT POTE Caltrans - District 8 247 West 3rd Street San Bernardino, CA 92403 (714) 383-4629

ARTHUR SWAJIAU, EXEG. OF. Regional warer Quality Control Board Colorado River Vasin Rej.... (~ 73-271 Highway 141, Suice Li Palm besert, CA 92260 (619) 346-7491

P. A. WORTHLEY, Regional Manage: Dept. of Fish & Game 245 West Broadway, Suice 350 Long Beach, CA 90802 (213) 590-5113

MELSCHWARTZ Reclamation Board 1416 Ninth Street Sacramento, CA 95814 (916) 445-2458

(ADDED 05/21/85)

CALENDAR PAGE 165.26 MINUTE PAGE 1.641

1120