### MINUTE ITEM

This Calendar Item No. was approved as Minute Item No. 29 by the State Lands Commission by a vote of meeting,

CALENDAR ITEM

29

12/17/81 W 40232 Hoagland PRC 6095

## GEOTHERMAL PROSPECTING PERMIT

APPLICANT:

Phillips Petroleum Company

Minerals Group

655 East 4500 South

Salt Lake City, Utah 84107 Attention: Mr. Charles E. Lee

AREA, TYPE LAND AND LOCATION:

600 acres of reserve mineral lands, Imperial

County.

LAND USE:

Geophysical, geological and geochemical

exploration to target drillsites for exploration

drilling to assess geothermal potential of area. When drill sites are located, site specific environmental review will

be done by the County of Imperial as provided:

TERMS OF PROPOSED PERMIT:

Initial period:

Two years.

Renewal options: One period for two years.

Surety bond:

\$50,000.

Special:

Staff recommends that the Commission provide

as a term of the permit upon discovery of geothermal

resources in commercial quantities, permittee will be entitled to a preferential lease upon notice of intention to exercise this right; subject, however, to the discretion of the Commission and review

of environmental accumentation pertaining to deep exploratory

drilling and full field

development of the resources.

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CONSIDERATION:

Rental of \$1 per acre per annum during first year; \$5 per acre per annum during the second year; and \$25 per acre per annum during any renewal period, unless a well has been drilled.

In case a preferential lease is executed, it will provide for rental of \$1 per acre per annum, and a royalty of 12.5 percent of gross revenues received from the sale of steam and ten percent from the sale of mineral products or chemical compounds, with a minimum royalty of \$2 per acre per annum.

PREREQUISITE TERMS, FEES AND EXPENSES:

Filing fee and processing costs have been received.

STATUTORY AND OTHER REFERENCES:

- A. P.R.C.: Div. 6, Parts 1 and 2; Div. 13; Div. 20.
- B. Cal. Adm. Code: Title 2, Div. 3; Title 14, Div. 6.

AB 884:

January 8, 1982.

OTHER PERTINENT INFORMATION:

- Phillips Petroleum Company has applied for a Geothermal Prospecting Permit to explore for geothermal resources on the west side of Salton Sea in Imperial County, to determine the availability, quantity, and quality of geothermal resources underlying the State lands. The use to be made of any resources discovered will depend upon its temperature, pressure, volume and mineral content; but the applicant is seeking a resource suitable for the generation of electricity.
- 2. The surface owners were notified of Phillips application. Pursuant to PRC Section 6912(a) the surface owners had six months to submit a preferential application. The surface owners have not submitted an application within the statutory period.

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In addition to the lands applied for by Phillips Fetroleum Company within the Truckhaven prospect area the State owns a total od 9,760 acres, of fee land and 4,300<sup>±</sup> acres, of reserved mineral land with the geothermal resources owned by the State. The Truckhaven prospect area includes T9S, R9E, and R10E; T10S, R9E, R10E, and R11E; T11S, R9E, R10E, and R11E; and T12S, R9E, R10E, and R11E; SBM Except for those lands which Holly Energy Inc., as the surface owner, has applied for a prospecting permit under PRC 6912(a), no applications have been received on the remaining State-owned lands or mineral interests. Staff recommends that all fee and reserved mineral lands within the Truckhaven prospect area, as specified above, and not applied for by Phillips Petroleum Company or Holly Energy Inc., be withdrawn by the Commission and made unavailable for geothermal prospecting permits pending a further evaluation of the geotheral resources within the area.

## ENVIRONMENTAL INFORMATION:

1. A Negative Declaration (No. 291) was prepared by Commission staff pursuant to the provisions of CEQA.

Mitigation measures addressing communication received in response to the Initial Study regarding the use of existing roadways, and the potential for pollution of surface waters if a blowout should occur were included in the Negative Declaration and have been made a part of the permit.

2. This project is situated on lands not identified as possessing significant environmental values. A staff review of available environmental information indicates no reason to identify the subject parcels as having such values at this time.

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APPROVALS REQUIRED:

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

EXHIBITS:

A. Land Description.

B. Location Map.

C. Negative Declaration.

### IT IS RECOMMENDED THAT THE COMMISSION:

- 1. CERTIFY A NEGATIVE DECLARATION (NO. 291) WAS PREPARED BY THE STATE LANDS COMMISSION PURSUANT TO THE PROVISIONS OF CEQA AND SUCH DOCUMENT WAS REVIEWED AND CONSIDERED (CALIFORNIA ADMINISTRATION CODE 15083 AND 15085).
- 2. FIND THAT CHANGES OR ALTERATIONS HAVE BEEN REQUIRED IN, OR INCORPORATED INTO, THE PROPOSED FROJECT WHICH MITIGATE OR AVOID THE SIGNIFICANT ENVIRONMENTAL EFFECTS THEREOF AS IDENTIFIED IN THE COMPLETED NEGATIVE DECLARATION.
- 3. AUTHORIZE ISSUANCE TO PHILLIPS PETROLEUM COMPANY OF A TWO-YEAR GEOTHERMAL PROSPECTING PERMIT WITH LESSEE'S OPTION TO RENEW FOR ONE PERIOD OF TWO YEARS AND WITH THE RIGHT TO REQUEST A PREFERENTIAL LEASE IN THE EVENT GEOTHERMAL RESOURCES ARE DISCOVERED IN COMMERCIAL QUAN-TITIES; IN CONSIDERATION OF ANNUAL RENTS IN THE AMOUNT OF \$1 PER ACRE FOR THE FIRST YEAR, ESPALATING TO \$5 PER ACRE FOR THE SECOND YEAR, AND \$25 PER ACRE DURING ANY RENEWAL PERIOD UNLESS A WELL HAS BEEN DRILLED. FOR THE DETERMINATION OF THE EXISTENCE, QUALITY AND QUANTITY OF GEOTHERMAL RESOURCES IN IMPERIAL COUNTY ON THE LAND DESCRIBED ON EXHIBIT "A" ATTACHED HERETO AND BY THIS REFERENCE MADE A PART HEREOF. THE PERMIT WILL AUTHORIZE GEOTHERMAL EXPLORATION INCLUDING THE DRILLING OF GEOTHERMAL WELLS. THE PERMIT WILL FURTHER PROVIDE THAT IF A PREFERENTIAL LEASE IS REQUESTED, IT WILL PROVIDE FOR RENTAL OF \$1 PER ACRE PER ANNUM, AND 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 ANNUAL ROYALTY OF \$2 PER ACRE. THE FORM PERMIT TO BE USED IS THE FORM ON FILE IN THE OFFICE OF THE COMMISSION.
- 4. THE COMMISSION WITHDRAWS FROM AVAILABILITY FOR GEOTHERMAL PROSPECTING PERMITS ALL STATE-OWNED FEE AND MINERAL RESERVED LANDS WITHIN THE TRUCKHAVEN PROSPECT AREA, DEFINED AS T9S, R9E, AND R10E; T10S, R9E, R10E, AND R11E; T11S, R9E, R10E, AND R11E; AND T12S, R9E, R10E,

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AND R11E; SBM WHICH HAS NOT BEEN APPLIED FOR BY HOLLY ENERGY INC. PURSUANT TO PRC SECTION 6912(a) OR FOR WHICH PROSPECTING PERMITS HAVE BEEN ISSUED TO PHILLIPS PETROLEUM COMPANY PENDING A FURTHER EVALUATION OF THE GEOTHERMAL RESOURCES WITHIN THE AREA.

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## EXHIBIT "A"

## LAND DESCRIPTION

W 40232

A parcel of California State school land in Imperial County, California, described as follows:

Section 36, TNS, R9E, SBM; W-1/2, SE-1/4, N-1/2 of NE-1/4 and SW-1/4 of NE-1/4.

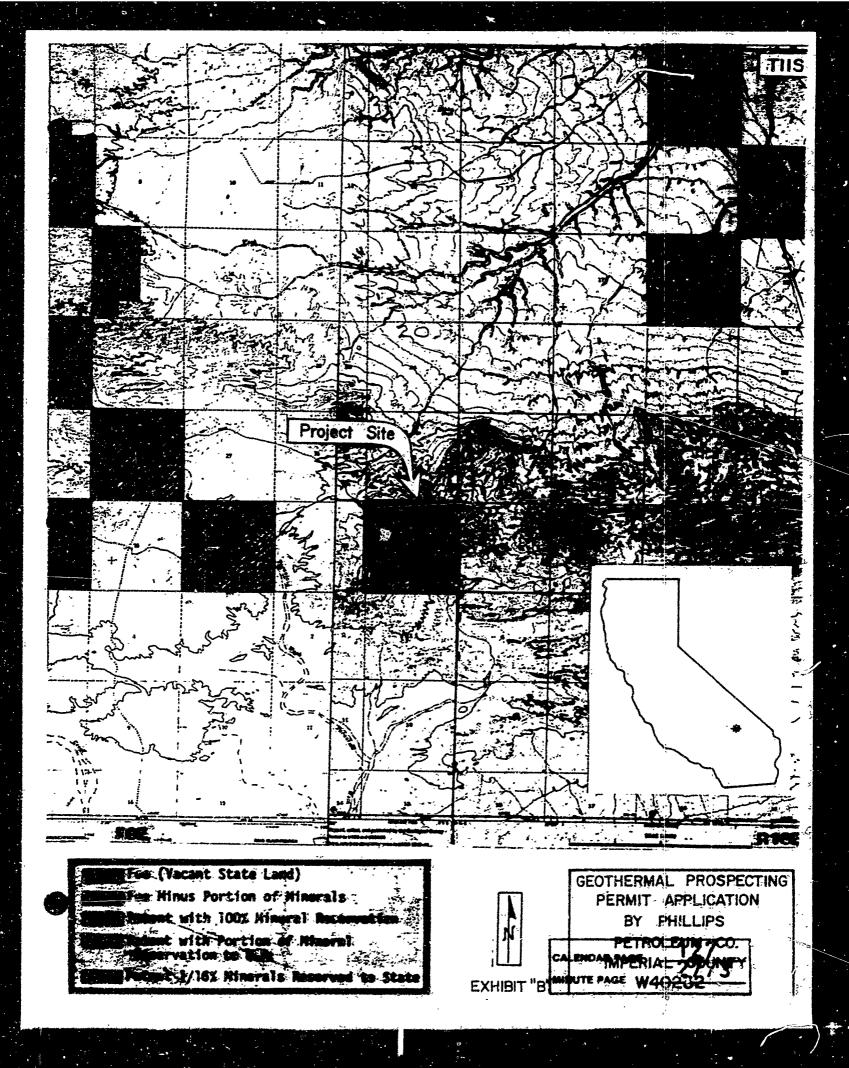
## END OF DESCRIPTION

PREPARED NOVEMBER 20, 1981 BY TECHNICAL SERVICES UNIT, ROY MINNICK, SUPERVISOR.

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### STATE LANDS COMMISSION

1807 13TH STREET SACRAMENTO, CAUFORNIA 95814

EXHIBIT "C"

Draft
NEGATIVE DECLARATION

EIR ND 291

File Ref.: W 40232

SCH#:

Project Title: GEOTHERMAL PROSPECTING PERMIT -- TRUCKHAVEN PROSPECT

Project Location: On the west side of Salton Sea about 10 miles south of Truckhaven, Imperial County. (See attached site map.)

Project Description: Issuance of a permit to prospect for geothermal resources to allow surficial exploration to target sites for deep exploration drilling to determine the existence, quality and quantity of geothermal resources for electrical generation. If and when sites are selected for deep exploratory drilling the site specific impacts will be assessed in a separate study.

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

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

LT the project will not have a significant effect on the environment.

/x/ the attached mitigation measures will avoid potentially significant effects.

Contact Person: Ted Fukushima

1807 13th Street

Sacramento, CA 95814

(916) 322-7813

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Form 13.17 (9/81)

## INITIAL STUDY CHECKLIST

Form 13.20 (7/80)

File Ref.:	W 40232	

f.	ВА	CKGROUND INFORMATION
	· <b>A</b> .	Applicant: _ Phillips Petroleum Company
		Minerals Group
		P.O. Box 239
		Sait Lake City, Utah 84110
	9	Checklist Date: 9 / 1 / 81
		Contact Person: Donald L. Hoagland
	U.	Telephone: (916 ) 322-7804
	D.	Parameter of a magnitude programme for genthermal resources
	U.	FOIPOSE.
	E.	Location: West side of the Salton Sea approximately 10 miles south of Truckhaven, Imperia
		County, Sec. 36, TllS, R9E, SBBM, approximately 600 acres
	F.	Description: Applicant proposes to perform geological and geophysical exploration including
		the drilling of a limited number of temperature gradient holes to target drill sites
		for deep exploration drilling to determine the existence, quality and quantity of
		geothermal resources for electrical power goneration. Under this permit, permittee
		could not produce but could test wells to establish the existence of a commercial
		resource. During the initial exploration phase, activities will be restricted to
		existing roads and trails. Site specific impucts of deep exploratory drilling would
		be assessed by the County of Imperial under application for a use permit. No lease
		would be issued until the impacts of full field development had been assessed.
	G.	Persons Contacted: Doug Stockton, Gelthermal Officer, Division of Oil and Gas;
		Ronald Powell, Department of Fish and Jame, Blythe; Jay Von Werlhof, Director
		Imperial Valley Museum, El Centro.
II.	EN'	VIRONMENTAL IMPACTS: (Explain all "yes" and "maybe" answers)
	-	Earth. Will the proposal result in:
		1. Unstable earth conditions or changes in geologic substructures?
		2. Disruptions, displacements, compaction, or ocercovering of the soil?
		3. Change in topography or ground surface relief features?
		4. The destruction, covering, or modification of any unique geologic or physical features?
		5. Any increase in wind or water erosion of soils, either on or off the site?
		6. Changes in deposition or erosion of beach sands, or changes in siltation, deposition or erosion which may modify the channel of a giver or stream or the bed of the ocean or any bay, inlet, or lake?
		7. Exposure of all people or property to geologic hazards such as earthquaker, landilides, musclides ground 29
		failure, or similar hazards?

	B.	Atr. Will the proposal result in:	Yes:	Vayb	No
	171	1. Substantial air emmissions or deterioration of ambient air quality?			×
)		2. The creation of objectionable odors?		×	
		3. Alteration of air movement, moisture or temperature, or any change in climate; either locally or region and ?			×
	С.	Water. Will the proposal result in:			
	_	1. Changes in the currents, or the course or direction of water movements, in either marine or fresh waters?			×
		2. Changes in absorption rates, drainage patterns, or the rate and amount of surface water runoff?			(X)
		3. Alterations to the course or flow of flood waters?			[x]
		4. Change in the amount of surface water in any water body?			x
		5. Discharge into surface waters, or in any alteration of surface water quality, including but not limited to temperature, dissolved exygen or turbidity?			×
		6. Alteration of the direction or rate of flow of ground waters?			X
		7. Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?		K	
		8: Substantial reduction in the amount of water otherwise available for public yearer supplies?			x
		9. Exposure of people or property to water-related hazards such as flooding or tidal waves?			×
		10. Significant changes in the temperature, flow or chemical content of surface thermal springs?	Ŭ.	×	
	D.	Plant Life. Will the proposal result in:			
		1. Change in the diversity of species, or number of any species of plants (including trees, shrubs, grass, crops, and aquatic plants)?			×
		2. Reduction of the numbers of any unique, rare or endangered species of plants			×
,		3. Introduction of new species of plants into an area, or in a barrier to the normal replenishment of existing species?			[x]
		4. Reduction in acréage of any agricultural crop?			
	E.	Animal Life. Will the proposal result in:		-	
		1. Change in the diversity of species, or numbers of any species of animals (birds, land animals including reptiles, fish and shellfish, benthic organisms, or insects)?			X
		2. Reduction of the numbers of any unique, rare or endangered species of animals?		Щ	×
		3. Introduction of new species of animals into an area, or result in a barrier to the migration or movement of animals?			<u></u>
		4. Deterioration to existing fish or-wildlife habitat?	لتا	Ш	×
	F.	Noise. Will the proposal result in:			_
		1 Increase in existing noise levels?	x		
		2. Exposure of people to severe noise levels?			X
	G.	Light and Glare. Will the proposal result in:			پىئىم
		1. The production of new-light or glare?		لعبا	Ш
•	H.	Land Use. Will the proposal result in:	_	<u></u>	
		1. A substantial alteration of the present or planned land use of an area?	Ш	X	Ш
	l.	Natural Resources. Will the proposal result in:	وزيا		$\Box$
		1. Increase in the rate of use of any natural resources?	X	닏	님
		2. Substantial depletion of any nonrenewable resources?	L×	لبا	L
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J.	Risk of Upset. Does the proposal result in:	Vac	Mayb	. No.
	1. A risk of an explosion or the release of hazardous substances (including, but not limited to, oil, politicides, chemicals, or radiation) in the event of an accident or upset conditions?		×	
	2. Possible interference with emergency response plan or an emergency evacuation plan?			X.
K.	Population. Will the proposal result in:			
	1. The alteration, distribution, density, or growth rate of the human population of the area?			X
L.	Housing. Will the proposal result in:			•
	1. Affecting existing housing, or create a demand for additional housing?			X
M.	Transportation/Circulation. Will the proposal result in:		• ,	
	1. Generation of substantial additional vahicular movement?		X	
	2. Affecting existing parking facilities, or create a demand for new parking?			X
	3. Substantial impact upon existing transportation systems?			X
	4. Alterations to present patterns of circulation or movement of people and/or goods?			X
	5. Alterations to waterborne, rail, or air traffic?			×
	6. Increase in traffic hazards to motor vehicles, bicyclists, or pedestrians?			X
N.	Public Services. Will the proposal have an effect upon, or result in a need for new or altered governmental services in any of the following areas:			
	1. Fire protection?			×
	2. Palice protection?			x
	3. Schools?			X
	4. Parks and other recreational facilities?			X
	5. Maintenance of public facilities, including roads?		×	
	6. Other governmental services?			3
0.	Energy. Will the proposal result in:			
	1. Use of substantial amounts of fuel or energy?			×
	2. Substantial increase in demand upon existing sources of energy, or require the development of new sources?			X
P.	Utilities. Will the proposal result in a need for new systems, or substantial alterations to the following utilities:			
	1. Power or natural gas?			×
	2. Communication systems?			×
	3. Water?			X
	4. Sewer or septic tanks?			$\mathbf{x}$
	5. Storm water drainage?			X
	6. Solid waste and disposal?		×	Ò
Q.	Human Health. Will the proposal result in:			
	1. Creation of any health hazard or potential health hazard (excluding mental health)?		X	
	2. Exposure of people to potential health hazards?			É.
R.	Aesthetics. Will the projustal result in:	•		
	1. The obstruction of any scenic vista or view open to the public, or will the proposal result in the creation of an aesthetically offensive site open to public view?		<b>X</b>	
S.	Recreation. Will the proposal result in:			
	1. An impact upon the quality or quantity of existing recreational opportunities?		×	
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	-3- MINUTE PAGE 277	<b>Z</b> _		

T.	Cultural Resources.	You Maybe	}-No	• '
	1. Will the proposal result in the alteration of or the destruction of a prehistoric or historic archeological site?		<u>Ci</u>	
•	2. Will the proposal result in adverse physical or aesthetic effects to a prehistoric or historic building, structure, or object?			
	3. Does the proposal have the potential to cause a physical change which would affect unique ethnic cultural values?	Ŏ O	X	
	4. Will the proposal restrict existing religious or sacred uses within the potential impact area? . ,		X	
U.	Mandatory, Findings of Significance.			
	1. Does the project have the potential to degrade the quality of the environment, reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a redengered plant or animal or eliminate important examples of the major periods of California history or prehistory?		<b>3</b>	,
	2. Does the project have the potential to achieve short-term, to the disadvantage of long-term, environmental goals?		3	
	3. Does the project have impacts which are individually limited, but cumulatively considerable?		×	
	4. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?		×	_
il. DIS	CUSSION OF ENVIRONMENTAL EVALUATION (See Comments Attached)	•		
2,3:	Each drill site may require some leveling and construction of a 100 x 175 drilling mud. The sites will not exceed 3.7 acres and the proposed permit mestoration and reseeding upon conclusion of drilling.			
B2.	There is a possibility of temporary venting of $\rm H_2S$ during drilling. The percentage of effluent gases at reporting gas analyses, and compliance with regulations and orders of allegagencies having jurisdiction.	the we	Llhead	r
C7.	The proposal, if a commercial resource is discovered, contemplates the removes geothermal ground waters. Depending on the nature of the resource, such was reinjected after the extraction of heat. Potable ground waters will be processing and dementing, as required by the permit as well as requirements of of Oil and Gas.	ters may	by .	
C10.	Although there has been no direct correlation drawn between the drilling of wells and a reduction in temperature, flow or chemical content of surface this is a remote possibility and therefore a spring monitoring program would exploratory wells are proposed for drilling near springs.	hermal	spring.	Ľ,
Fl.	There will be an increase in noise levels during drilling, which is expecte more than 4-5 weeks per well; the permit will allow a maximum noise level of mile from the site.			,
א הבי	(See Attachment) TERMINATION			
_	the basis of this mitial evaluation:			
~ ~	I find the proposed project COULD NOT have a significant effect on this environment, and a NEGATIVE DECL be prepared.	ARATION	will	
X	I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment, there will not be a significant effect on the environment.	gnificant efi A NEGATI	lect VE	
	I find the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMP is requied.	AGY REPO	RT	
Date	For the State Lands Commission	₹32 778		

- Gl. 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.
- HI. 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 stage will end all activity and any potential for land use alteration.
- Il. 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. 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 projectly engineered and managed injection program should assist in extending the life of the reservoir thus reducing rate of depletion.
- J1. The permit will require a blowout contingency plan to contain any hizardous materials at the drill site.
- MI. While the increase in traffic during the initial exploration phase will be slight and caused by crew and equipment traffic for brief periods, the aren is sparsely inhabitated thus any increase in traffic might be considered a substantial increase when measured against the normal traffic count.
- NS. The initial exploratory phase will generate only light service track 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 and 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.
- P6. Drilling wastes will be contained in the sump approved by all appropriate state and local agencies having jurisdiction over solid waste disposal. Drilling wastes will eitner be dried on the site and covered or removed and trucked to an approved II-1 site.
- Q1. Theze may be some emissions of hydrogen sulfide gas (H<sub>2</sub>S) during exploratory drilling and testing but the permit will require H<sub>2</sub>S monitoring, a reporting system and the applicant will be required to meet all local and state air standards which will keep H<sub>2</sub>S emissions well below the level where they would become health hazards.
- Rl. Temporary siting of a drill rig may be easthetically offensive; however, the proposed drill sites are located in relatively remote and sparsely populated areas.
- S1. A portion of the proposed permit area is located in an area being contemplated as an addition to the Octillio Wells Wehicle recreation area and some of the area contemplated for ORV use could be restricted for safety reasons during the short time exploratory drilling is occurring.

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(Attachment)

There will be little or 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 drill sites are approved. During the initial exploratory phase activities will be restricted to existing roads and trails to prevent possible damage to cultural resources.

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## COMMENTS RECEIVED FROM REVIEW OF INITIAL STUDY CHECKLIST AND PROPOSED MITIGATION

1. The Resources Agency
Department of Fish and Game

#### COMMENT:

It does not appear that there are any rare or endingered flora of fauna in the project area, with the possible exception of the flat-tailed horned lizard. Because of this possibility, and the fact that some are and endangered plant species are often found in a sandy or dune environment, vehicular activity during initial exploration should be restricted to existing roads and trails whenever possible.

#### RESPONSE:

A provision for restricting vehicular activity to existing reads and trails during the initial exploratory phase will be made a part of the permit.

2. Jay Von Werlhof, Dîrector Imperial Valley College Museum

#### COMMENT

While it does not appear archeological values are present within the project area, archeological or prehistoric sites are known to exist in the area. The extent and exact location of these sites is unknown at this time. Therefore, to avoid durage to potential sites, cross country driving during the exploratory stage should be limited.

#### RESPONSE:

See response to #1.

3. County of Imperial Phillip Shafer, Geothermal Planner

### COMMENT:

Will the applicant be required to obtain a use permit from the county for the drilling of temperature gradient holes and deep exploratory wells?

### RESPONSE:

Once surficial exploration to target drill sites on locations for temperature gradient holes is completed, the applicant will be required to obtain a permit of the country and an assessment of site specific impacts will be mide.

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(2) of Comments received from Review of Initial Study Checklist

#### COMMENTS:

The availability of water for drilling may be a problem and should be addressed in the initial study.

#### RESPONSE:

The applicant plans to purchase water from the Coachella Valley Water District. Water to some of the sites can probably be taken from a hydrant on Air Park Drive which is supplied from the "County Line Aquifer". Water will be piped or trucked to the other sites. Water requirements for drilling represents a small fraction of the total animal water needs for the west side of the Salton Sec.

#### COMMENTS:

Protections for shallow groundwater and surface water contamination from possible blowouts described in the Environmental Impact Report prepared for imperial County by Wester Services, Inc. titled "Truckhaven Prospect Geothermal Employatory Wells" should be made a part of the study and the suggested mitigation measures wade a part of the permit.

#### RESPONSE:

The portions of the Truckhaven EIR dealing with potential pollution of ground-water and surface water, and proposed mitigation measures contained in Sections 2.2.2.2 through 2.2.3.2 on pages 2-16 and 2-17 are, by reference, made a part of this study and the proposed mitigation measures will be made a part of the permit.

4. The Resources Agency
Maurice H. Getty, Chief
Resource Protection Division
Department of Parks and Recreation

#### COMMENTS:

Mitigation measures for the following potential environmental impacts should be detailed.

-Rare or endangered plants and animals: Dunes and sandy areas are potential sites for rare plants (e.g., Astragalus magdalenae var. poirsonii and Astragalus lentiginosus borregainis) and sensitive animals (the flat-tailed horned likard and the Colorado Desert fringe-toed lizard). If these species are present on the property, disturbance of dunes and sandy areas by prospecting activities could be harmful to them.

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(3) of Comments received from Review of Initial Study Checklist

-Prehistoric cultural resources: prospecting activities, such as drilling temperature gradient holes, could damage or destroy evidence of prehistoric human occupation.

## RESPONSE:

See response comments 1, 2 and 3 dealing with impacts on rare or endangered flora and fauna.

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<u> </u>	Mike Redemer. Air Resources Board 1102 Q Street Secramento, CA 95816	•	<u>L</u> Ţ	Herviy Colline Dept. of Heelth 714 2 Street Jacksmento, CA 95814
	Local APCD		_	Days 'Hill maca Dept. of Housing & Community Day't. 921 Teach Street, 6th Floor Sacramento, GA-95514
			كعل	James H. Doyle Dopi, 62 Parks & Recreation 1220 K Street, 3rd Finer Sacracento, CA 95814
IJ	William Travis California Cisstal Commission 631 Howard Street San Francisco, CA 94105	,	<b>E</b>	Hick del Cloppo Office of Historic Preservation 1220/K Street, 3rd Floor Secremento, CA 95814
<u>E</u> J	Manuflocation Susan Brown California Energy Commission 1111 Home Avinue, 16003 Sacramento, CA 95825		乊	Robert Penny Public Utilities Commission 350 McAllister Street San Francisco, CA 94102
口	Mary Kelly CalTrans - Div. of Aeronautics 1120 N Street Sacramento, CA 95814		<b>□</b>	Mal Servartz Beclamation Board 1416 Minchestreez Secrémento, CA 95814
口	Cerol August Dept. of Boaring & Waterways 1629 S Street Scoramento, CA 95814		口	Robert Batha S. F. Ray Cons. & Dan't. Comm. 30 Van Hens Avenue, Room 2011 Sem Francisco, CA 94102
<u> </u>	Parrick Havis Dept. of Conservation 1416 Winth Spreet, Room 1354 Secremento, (A 95814	Copp. we was a co		Frank Fleshi Solid Vasta Management Bourd 1020 Nintr Street, Room 500 Sectacente, CA 53811
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